

Women's 200m Split Times - by athletics meeting

LAST UPDATE: 14-Oct-23

2023 Prefontaine Classic (Eugene, OR)

FINAL

		date	17-Sep-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
Jackson, Shericka (JAM) (1994)	time			6.11	11.02	16.10	21.57	21.57	7 / 1			
	reaction time	0.152	interval		4.91	5.08	5.47		# of strides	11.02	10.55	0.47
			velocity		8.18	10.18	9.84	9.14	9.27	93.5	9.07	9.48
Ta Lou, Marie-Josée (CIV) (1988)	time			6.15	11.20	16.45	22.10	22.10	3 / 2			
	reaction time	0.149	interval		5.05	5.25	5.65		# of strides	11.20	10.90	0.30
			velocity		8.13	9.90	9.52	8.85	9.05	97.5	8.93	9.17
Strachan, Anthonique (BAH) (1)	time			6.32	11.41	16.60	22.16	22.16	8 / 3			
	reaction time	0.148	interval		5.09	5.19	5.56		# of strides	11.41	10.75	0.66
			velocity		7.91	9.82	9.63	8.99	9.03	86.7	8.76	9.30
Terry, Twanisha (USA) (1999)	time			6.19	11.17	16.41	22.21	22.21	9 / 4			
	reaction time	0.143	interval		4.98	5.24	5.80		# of strides	11.17	11.04	0.13
			velocity		8.08	10.04	9.54	8.62	9.00	101.7	8.95	9.06
Neita, Daryll (GBR) (1996)	time			6.29	11.32	16.59	22.35	22.35	4 / 5			
	reaction time	0.148	interval		5.03	5.27	5.76		# of strides	11.32	11.03	0.29
			velocity		7.95	9.94	9.49	8.68	8.95	92.0	8.83	9.07
White, Kayla (USA) (1996)	time			6.22	11.32	16.60	22.49	22.49	6 / 6			
	reaction time	0.140	interval		5.10	5.28	5.89		# of strides	11.32	11.17	0.15
			velocity		8.04	9.80	9.47	8.49	8.89	92.0	8.83	8.95
Prandini, Jenna (USA) (1992)	time			6.30	11.35	16.68	22.68	22.68	5 / 7			
	reaction time	0.179	interval		5.05	5.33	6.00		# of strides	11.35	11.33	0.02
			velocity		7.94	9.90	9.38	8.33	8.82	97.0	8.81	8.83
Jiya, Tasa (NED) (1997)	time			6.41	11.66	17.11	22.92	22.92	2 / 8			
	reaction time	0.153	interval		5.25	5.45	5.81		# of strides	11.66	11.26	0.40
			velocity		7.80	9.52	9.17	8.61	8.73		8.58	8.88
Joseph, Gémima (FRA) (2001)	time			6.44	11.88	17.55	22.62	23.62	1 / 9			
	reaction time	0.145	interval		5.44	5.67	5.07		# of strides	11.88	10.74	1.14
			velocity		7.76	9.19	8.82	9.86	8.47		8.42	9.31

2023 Weltklasse (Zürich, SUI)

FINAL

		date	31-Aug-23	wind	-0.8 m/s	Omega Timing (2023) - diamond league race analysis						
				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Jackson, Shericka (JAM) (1994)	time			6.18	11.15	16.32	21.82	21.82	6 / 1			
	reaction time	0.150	interval		4.97	5.17	5.50		# of strides	11.15	10.67	0.48
			velocity		8.09	10.06	9.67	9.09	9.17	94.7	8.97	9.37
Neita, Daryll (GBR) (1996)	time			6.27	11.24	16.50	22.25	22.25	7 / 2			
	reaction time	0.150	interval		4.97	5.26	5.75		# of strides	11.24	11.01	0.23
			velocity		7.97	10.06	9.51	8.70	8.99	92.7	8.90	9.08
White, Kayla (USA) (1996)		0.153		no information available				22.33	4 / 3		# of strides	91.7
Kambundji, Mujinga (SUI) (1992)	time			6.27	11.39	16.72	22.46	22.46	8 / 4			
	reaction time	0.134	interval		5.12	5.33	5.74		# of strides	11.39	11.07	0.32
			velocity		7.97	9.77	9.38	8.71	8.90	98.2	8.78	9.03
Terry, Twanisha (USA) (1999)	time			6.23	11.24	16.63	22.57	22.57	3 / 5			
	reaction time	0.137	interval		5.01	5.39	5.94		# of strides	11.24	11.33	-0.09
			velocity		8.03	9.98	9.28	8.42	8.86	101.0	8.90	8.83
Strachan, Anthonique (BAH) (1)	time			6.31	11.41	16.82	22.65	22.65	5 / 6			
	reaction time	0.163	interval		5.10	5.41	5.83		# of strides	11.41	11.24	0.17
			velocity		7.92	9.80	9.24	8.58	8.83	88.0	8.76	8.90

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

Prandini, Jenna (USA) (1992)	time	6.35	11.42	16.85	22.78	22.78	1 / 7				
	reaction time	0.176	interval	5.07	5.43	5.93	# of strides	11.42	11.36	0.06	
			velocity	7.87	9.86	9.21	8.43	8.78	97.2	8.76	8.80
Clark, Tamara (USA) (1999)	time	6.32	11.50	16.99	22.94	22.94	2 / 8				
	reaction time	0.145	interval	5.18	5.49	5.95	# of strides	11.50	11.44	0.06	
			velocity	7.91	9.65	9.11	8.40	8.72	102.0	8.70	8.74

2023 World Athletics Championships (Budapest, HUN)

FINAL

	date	25-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	
Jackson, Shericka (JAM) (1994)	time		★	11.05	★	21.41	21.41	6 / 1				
	reaction time	0.161	interval			10.36	CR NR PB	# of strides	11.05	10.36	0.69	
			velocity	9.05		9.65	9.34	93.0	9.05	9.65		
Thomas, Gabrielle (USA) (1996)	time			11.20		21.81	21.81	8 / 2				
	reaction time	0.162	interval			10.61		# of strides	11.20	10.61	0.59	
			velocity	8.93		9.43	9.17	89.5	8.93	9.43		
Richardson, Sha'Carri (USA) (2011)	time			11.30		21.92	21.92	9 / 3				
	reaction time	0.171	interval			10.62	PB	# of strides	11.30	10.62	0.68	
			velocity	8.85		9.42	9.12	98.5	8.85	9.42		
Alfred, Julien (LCA) (2001)	time			11.26		22.05	22.05	7 / 4				
	reaction time	0.159	interval			10.79		# of strides	11.26	10.79	0.47	
			velocity	8.88		9.27	9.07	97.7	8.88	9.27		
Neita, Daryll (GBR) (1996)	time			11.26		22.16	22.16	5 / 5				
	reaction time	0.148	interval			10.90	PB	# of strides	11.26	10.90	0.36	
			velocity	8.88		9.17	9.03	92.0	8.88	9.17		
Strachan, Anthonique (BAH) (1993)	time			11.44		22.29	22.29	3 / 6				
	reaction time	0.171	interval			10.85		# of strides	11.44	10.85	0.59	
			velocity	8.74		9.22	8.97	88.0	8.74	9.22		
Asher-Smith, Dina (GBR) (1995)	time	0.131	no information available				22.34		4 / 7		# of strides	95.0
Ta Lou, Marie-Josée (CIV) (1988)	time			11.41		22.64	22.64	2 / 8				
	reaction time	0.179	interval			11.23		# of strides	11.41	11.23	0.18	
			velocity	8.76		8.90	8.83	97.0	8.76	8.90		

Semi-Final 3

	date	24-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
Jackson, Shericka (JAM) (1994)	time			11.20		22.00	22.00	7 / 1			
	reaction time	0.187	interval			10.80		# of strides	11.20	10.80	0.40
			velocity	8.93		9.26	9.09	94.0	8.93	9.26	
Richardson, Sha'Carri (USA) (2011)	time			11.39		22.20	22.20	8 / 2			
	reaction time	0.158	interval			10.81		# of strides	11.39	10.81	0.58
			velocity	8.78		9.25	9.01	99.7	8.78	9.25	
Ta Lou, Marie-Josée (CIV) (1988)	time			11.31		22.26	22.26	6 / 3			
	reaction time	0.157	interval			10.95		# of strides	11.31	10.95	0.36
			velocity	8.84		9.13	8.98	96.2	8.84	9.13	
Williams, Bianca (GBR) (1993)	time			11.46		22.45	22.45	5 / 4			
	reaction time	0.156	interval			10.99	PB	# of strides	11.46	10.99	0.47
			velocity	8.73		9.10	8.91	99.0	8.73	9.10	
Bestué, Jaël (ESP) (2000)	time			11.59		22.60	22.60	4 / 5			
	reaction time	0.165	interval			11.01		# of strides	11.59	11.01	0.58
			velocity	8.63		9.08	8.85	103.5	8.63	9.08	
Pereira, Shanti Veronica (SGP) (2000)	time			11.62		22.79	22.79	9 / 6			
	reaction time	0.174	interval			11.17		# of strides	11.62	11.17	0.45

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	velocity	8.61	8.95	8.78	98.0	8.61	8.95	
Ofili, Favour (NGR) (2002)	time	11.54	22.86	22.86	2 / 7			
reaction time	0.149 interval		11.32		# of strides	11.54	11.32	0.22
	velocity	8.67	8.83	8.75	95.0	8.67	8.83	
Bass, Gina (GAM) (1995)	time	11.76	23.10	23.10	3 / 8			
reaction time	0.141 interval		11.34		# of strides	11.76	11.34	0.42
	velocity	8.50	8.82	8.66	103.0	8.50	8.82	

Semi-Final 2

date 24-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
Alfred, Julien (LCA) (2001)	time	11.42	22.17		22.17	6 / 1				
reaction time	0.159 interval		10.75		# of strides	11.42	10.75	0.67		
	velocity	8.76	9.30	9.02	97.0	8.76	9.30			
Neita, Daryll (GBR) (1996)	0.162	no information available			PB	22.21	8 / 2		# of strides	92.2
Strachan, Anthonique (BAH) (1time)	time	11.52	22.30	22.30	7 / 3					
reaction time	0.159 interval		10.78		# of strides	11.52	10.78	0.74		
	velocity	8.68	9.28	8.97	86.7	8.68	9.28			
White, Kayla (USA) (1996)	time	11.38	22.34	22.34	9 / 4					
reaction time	0.145 interval		10.96		# of strides	11.38	10.96	0.42		
	velocity	8.79	9.12	8.95	92.0	8.79	9.12			
Davis, Kevona (JAM) (2001)	time	11.38	22.34	22.34	4 / 5					
reaction time	0.153 interval		10.96		# of strides	11.38	10.96	0.42		
	velocity	8.79	9.12	8.95	92.0	8.79	9.12			
Gbai, Jessika (CIV) (1998)	time	11.63	22.88	22.88	5 / 6					
reaction time	0.201 interval		11.25		# of strides	11.63	11.25	0.38		
	velocity	8.60	8.89	8.74	92.0	8.60	8.89			
Hodge, Adayah (IVB) (2006)	time	11.68	22.96	22.96	2 / 7					
reaction time	0.154 interval		11.28		# of strides	11.68	11.28	0.40		
	velocity	8.56	8.87	8.71	101.2	8.56	8.87			
Tsimanouskaya, Krystsina (POL)	time	11.74	23.34	23.34	3 / 8					
reaction time	0.199 interval		11.60		# of strides	11.74	11.60	0.14		
	velocity	8.52	8.62	8.57	101.0	8.52	8.62			

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
Thomas, Gabrielle (USA) (1996)	time	11.31	21.97		21.97	8 / 1				
reaction time	0.172 interval		10.66		# of strides	11.31	10.66	0.65		
	velocity	8.84	9.38	9.10	89.0	8.84	9.38			
Asher-Smith, Dina (GBR) (1995)	time	11.22	22.28	22.28	6 / 2					
reaction time	0.126 interval		11.06		# of strides	11.22	11.06	0.16		
	velocity	8.91	9.04	8.98	95.0	8.91	9.04			
Whyte, Natalliah (JAM) (1997)	time	11.33	22.52	22.52	7 / 3					
reaction time	0.154 interval		11.19		# of strides	11.33	11.19	0.14		
	velocity	8.83	8.94	8.88	97.0	8.83	8.94			
Jiya, Tasa (NED) (1997)	time	11.55	22.67	22.67	9 / 4					
reaction time	0.159 interval		11.12	PB	# of strides	11.55	11.12	0.43		
	velocity	8.66	8.99	8.82	94.7	8.66	8.99			
Fotopoulou, Olivia (CYP) (1996)	time	11.46	22.73	22.73	4 / 5					
reaction time	0.162 interval		11.27		# of strides	11.46	11.27	0.19		
	velocity	8.73	8.87	8.80	99.0	8.73	8.87			
Koné, Maboundou (CIV) (1997)	time	11.51	22.73	22.73	5 / 6					
reaction time	0.188 interval		11.22	DQ	# of strides	11.51	11.22	0.29		

WR=World Rec. AR=Area Rec. OR=Olympic Rec. CR=Championship Rec. NR=National Rec. PB=Personal Best DQ=Disqualified
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	velocity	8.69	8.91	8.80	99.2	8.69	8.91	
Kaddari, Dalia (ITA) (2001)	time	11.61	22.75	22.75	2 / 7 6			
	reaction time	0.151	interval	11.14	# of strides	11.61	11.14	0.47
	velocity	8.61	8.98	8.79	97.0	8.61	8.98	
Emmanouilidou, Polyniki (GRE)	time	11.74	23.15	23.15	3 / 8 7			
	reaction time	0.156	interval	11.41	# of strides	11.74	11.41	0.33
	velocity	8.52	8.76	8.64	105.0	8.52	8.76	

Heat 6

date 23-Aug-23

wind -0.3 m/s

Seiko Timing (2023) - world championship race analysis

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Asher-Smith, Dina (GBR) (1995)	time	11.42	22.46	22.46	8 / 1					
	reaction time	0.157	interval	11.04	# of strides	11.42	11.04	0.38		
	velocity	8.76	9.06	8.90	95.0	8.76	9.06			
Koné, Maboundou (CIV) (1997)	time	11.60	22.55	22.55	9 / 2					
	reaction time	0.182	interval	10.95	# of strides	11.60	10.95	0.65		
	velocity	8.62	9.13	8.87	98.0	8.62	9.13			
White, Kayla (USA) (1996)	time	11.54	22.62	22.62	4 / 3					
	reaction time	0.144	interval	11.08	# of strides	11.54	11.08	0.46		
	velocity	8.67	9.03	8.84	92.2	8.67	9.03			
Kaddari, Dalia (ITA) (2001)	time	11.61	22.67	22.67	6 / 4					
	reaction time	0.156	interval	11.06	# of strides	11.61	11.06	0.55		
	velocity	8.61	9.04	8.82	96.0	8.61	9.04			
Tsimanouskaya, Krystsina (POL)	time	11.58	22.88	22.88	7 / 5					
	reaction time	0.167	interval	11.30	# of strides	11.58	11.30	0.28		
	velocity	8.64	8.85	8.74	99.0	8.64	8.85			
Tsuruta, Remi (JPN) (1997)	time	12.06	23.49	23.49	5 / 6					
	reaction time	0.157	interval	11.43	# of strides	12.06	11.43	0.63		
	velocity	8.29	8.75	8.51	99.0	8.29	8.75			
Njobvu, Rhodah (ZAM) (1994)	time	12.06	23.82	23.82	3 / 7					
	reaction time	0.180	interval	11.76	# of strides	12.06	11.76	0.30		
	velocity	8.29	8.50	8.40	97.0	8.29	8.50			
Rosa, Vitoria Cristina (BRA) (19)	time	12.21	23.86	23.86	2 / 8					
	reaction time	0.164	interval	11.65	# of strides	12.21	11.65	0.56		
	velocity	8.19	8.58	8.38	97.0	8.19	8.58			

Heat 5

date 23-Aug-23

wind -1.3 m/s

Seiko Timing (2023) - world championship race analysis

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Thomas, Gabrielle (USA) (1996)	time	11.47	22.26	22.26	8 / 1					
	reaction time	0.168	interval	10.79	# of strides	11.47	10.79	0.68		
	velocity	8.72	9.27	8.98	88.5	8.72	9.27			
Davis, Kevona (JAM) (2001)	time	11.42	22.49	22.49	3 / 2					
	reaction time	0.152	interval	11.07	# of strides	11.42	11.07	0.35		
	velocity	8.76	9.03	8.89	91.2	8.76	9.03			
Jiya, Tasa (NED) (1997)	time	11.59	22.97	22.97	4 / 3					
	reaction time	0.162	interval	11.38	# of strides	11.59	11.38	0.21		
	velocity	8.63	8.79	8.71	93.0	8.63	8.79			
Takács, Boglárka (HUN) (2001)	time	11.68	23.24	23.24	2 / 4					
	reaction time	0.169	interval	11.56	# of strides	11.68	11.56	0.12		
	velocity	8.56	8.65	8.61	96.0	8.56	8.65			
Tamayo, Cecilia (MEX) (1997)	0.155	no information available				23.25	6 / 5		# of strides	98.0
Kotwiła, Martyna (POL) (1999)	0.153	no information available				23.34	7 / 6		# of strides	98.5
Jensen, Christine Bjelland (NOF)	time	11.93	23.62	23.62	5 / 7					

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reaction time	0.181	interval		11.69		# of strides	11.93	11.69	0.24
		velocity	8.38	8.55	8.47	96.0	8.38	8.55	

Heat 4date 23-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
Alfred, Julien (LCA) (2001)	time			11.62		22.31	22.31	4 / 1			
	reaction time	0.174				10.69		# of strides	11.62	10.69	0.93
				8.61		9.35	8.96	96.7	8.61	9.35	
Whyte, Natalliah (JAM) (1997)	time			11.59		22.44	22.44	8 / 2			
	reaction time	0.148				10.85		# of strides	11.59	10.85	0.74
				8.63		9.22	8.91	96.0	8.63	9.22	
Williams, Bianca (GBR) (1993)	time			11.62		22.67	22.67	7 / 3			
	reaction time	0.167				11.05		# of strides	11.62	11.05	0.57
				8.61		9.05	8.82	98.5	8.61	9.05	
Bass, Gina (GAM) (1995)	time			11.83		23.02	23.02	3 / 4			
	reaction time	0.155				11.19		# of strides	11.83	11.19	0.64
				8.45		8.94	8.69	102.5	8.45	8.94	
Hulls, Georgia (NZL) (1999)	time			11.88		23.36	23.36	2 / 5			
	reaction time	0.148				11.48		# of strides	11.88	11.48	0.40
				8.42		8.71	8.56	99.0	8.42	8.71	
Henriksson, Julia (SWE) (2000)	time			11.91		23.55	23.55	6 / 6			
	reaction time	0.138				11.64		# of strides	11.91	11.64	0.27
				8.40		8.59	8.49	97.0	8.40	8.59	

Heat 3date 23-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
Jackson, Shericka (JAM) (1994)	time			11.41		22.51	22.51	4 / 1			
	reaction time	0.191				11.10		# of strides	11.41	11.10	0.31
				8.76		9.01	8.88	94.5	8.76	9.01	
Pereira, Shanti Veronica (SGP) ()	time			11.64		22.57	22.57	8 / 2			
	reaction time	0.187				10.93	NR PB	# of strides	11.64	10.93	0.71
				8.59		9.15	8.86	97.0	8.59	9.15	
Gbai, Jessika (CIV) (1998)	time			11.82		22.78	22.78	5 / 3			
	reaction time	0.198				10.96		# of strides	11.82	10.96	0.86
				8.46		9.12	8.78	91.0	8.46	9.12	
Hodge, Adayah (IVB) (2006)	time			11.66		22.82	22.82	6 / 4			
	reaction time	0.151				11.16		# of strides	11.66	11.16	0.50
				8.58		8.96	8.76	101.0	8.58	8.96	
Gogl-Walli, Susanne (AUT) (1999)	time			12.06		23.38	23.38	3 / 5			
	reaction time	0.167				11.32		# of strides	12.06	11.32	0.74
				8.29		8.83	8.55	96.5	8.29	8.83	
Sulyán, Alexa (HUN) (2005)	time			11.87		23.47	23.47	7 / 6			
	reaction time	0.163				11.60		# of strides	11.87	11.60	0.27
				8.42		8.62	8.52	99.2	8.42	8.62	
Caicedo, Nicole (ECU) (2000)	time			11.98		23.51	23.51	2 / 7			
	reaction time	0.232				11.53		# of strides	11.98	11.53	0.45
				8.35		8.67	8.51	96.5	8.35	8.67	

Heat 2date 23-Aug-23 wind -0.7 m/s *Seiko Timing (2023) - world championship race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Richardson, Sha'Carri (USA) (2001)	time			11.35		22.16	22.16	6 / 1			
	reaction time	0.168				10.81		# of strides	11.35	10.81	0.54
				8.81		9.25	9.03	98.0	8.81	9.25	
Ta Lou, Marie-Josée (CIV) (1988)	time			11.41		22.26	22.26	5 / 2			

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

reaction time	0.173	interval		10.85		# of strides	11.41	10.85	0.56
		velocity	8.76	9.22	8.98	95.0	8.76	9.22	
Fotopoulou, Olivia (CYP) (1996)	time		11.36	22.65	22.65	3 / 3			
	reaction time	0.148	interval	11.29	PB	# of strides	11.36	11.29	0.07
			velocity	8.80	8.86	8.83	99.0	8.80	8.86
Emmanouilidou, Polyniki (GRE)	time		11.71	23.00	23.00	7 / 4			
	reaction time	0.163	interval	11.29		# of strides	11.71	11.29	0.42
			velocity	8.54	8.86	8.70	104.7	8.54	8.86
Moore, Ashanti (JAM) (2000)	time		11.75	23.12	23.12	8 / 5			
	reaction time	0.149	interval	11.37		# of strides	11.75	11.37	0.38
			velocity	8.51	8.80	8.65	91.0	8.51	8.80
Bazolo, Loréne Dorcas (POR) (1996)	time		11.64	23.13	23.13	2 / 6			
	reaction time	0.163	interval	11.49		# of strides	11.64	11.49	0.15
			velocity	8.59	8.70	8.65	97.5	8.59	8.70
Kortetmaa, Anniina (FIN) (1995)	time		11.82	23.52	23.52	4 / 7			
	reaction time	0.154	interval	11.70		# of strides	11.82	11.70	0.12
			velocity	8.46	8.55	8.50	98.5	8.46	8.55
Semedo, Gorete (STP) (1996)	time		12.02	23.69	23.69	9 / 8			
	reaction time	0.239	interval	11.67		# of strides	12.02	11.67	0.35
			velocity	8.32	8.57	8.44	98.0	8.32	8.57

Heat 1

date 23-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
Strachan, Anthonique (BAH) (1996)	time			11.50		22.31	22.31	9 / 1			
	reaction time	0.169	interval			10.81		# of strides	11.50	10.81	0.69
			velocity	8.70		9.25	8.96	87.0	8.70	9.25	
Neita, Daryll (GBR) (1996)	time			11.41		22.39	22.39	7 / 2			
	reaction time	0.161	interval			10.98		# of strides	11.41	10.98	0.43
			velocity	8.76		9.11	8.93	91.0	8.76	9.11	
Bestué, Jaël (ESP) (2000)	time			11.61		22.58	22.58	3 / 3			
	reaction time	0.154	interval			10.97		# of strides	11.61	10.97	0.64
			velocity	8.61		9.12	8.86	104.0	8.61	9.12	
Ofili, Favour (NGR) (2002)	time			11.63		22.66	22.66	5 / 4			
	reaction time	0.162	interval			11.03		# of strides	11.63	11.03	0.60
			velocity	8.60		9.07	8.83	94.7	8.60	9.07	
Pointet, Léonie (SUI) (2001)	time			11.83		23.16	23.16	8 / 5			
	reaction time	0.147	interval			11.33	PB	# of strides	11.83	11.33	0.50
			velocity	8.45		8.83	8.64	103.7	8.45	8.83	
García, Yunisleydis (CUB) (1999)	time			11.67		23.22	23.22	6 / 6			
	reaction time	0.161	interval			11.55		# of strides	11.67	11.55	0.12
			velocity	8.57		8.66	8.61	97.5	8.57	8.66	
Azevedo, Ana Carolina (BRA) (1996)	time			11.75		23.45	23.45	2 / 7			
	reaction time	0.182	interval			11.70		# of strides	11.75	11.70	0.05
			velocity	8.51		8.55	8.53	102.5	8.51	8.55	
Pulkkinen, Aino (FIN) (1998)	time			11.91		23.48	23.48	4 / 8			
	reaction time	0.146	interval			11.57		# of strides	11.91	11.57	0.34
			velocity	8.40		8.64	8.52	97.0	8.40	8.64	

Heptathlon - Heat 3

date 19-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
Johnson-Thompson, Katarina (GBR) (2003)	time			12.02		23.48	23.48	6 / 1			
	reaction time	0.184	interval			11.46		# of strides	12.02	11.46	0.56
			velocity	8.32		8.73	8.52	89.5	8.32	8.73	

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

Hall, Anna (USA) (2001)	time	12.11	23.56	23.56	8 / 2				
reaction time	0.208	interval	11.45		# of strides	12.11	11.45	0.66	
		velocity	8.26	8.73	8.49	90.7	8.26	8.73	
Brooks, Taliyah (USA) (1995)	time	12.02	23.85	23.85	5 / 3				
reaction time	0.144	interval	11.83		# of strides	12.02	11.83	0.19	
		velocity	8.32	8.45	8.39	93.5	8.32	8.45	
Weißenberg, Sophie (GER) (1999)	time	12.27	23.88	23.88	7 / 4				
reaction time	0.193	interval	11.61		# of strides	12.27	11.61	0.66	
		velocity	8.15	8.61	8.38	93.0	8.15	8.61	
Dokter, Sofie (NED) (2002)	time	12.44	23.89	23.89	9 / 5				
reaction time	0.157	interval	11.45		# of strides	12.44	11.45	0.99	
		velocity	8.04	8.73	8.37	98.0	8.04	8.73	
Vetter, Anouk (NED) (1993)	time	12.30	24.28	24.28	4 / 6				
reaction time	0.159	interval	11.98		# of strides	12.30	11.98	0.32	
		velocity	8.13	8.35	8.24	96.0	8.13	8.35	
Hawkins, Chari (USA) (1991)	time	12.28	24.38	24.38	3 / 7				
reaction time	0.167	interval	12.10		# of strides	12.28	12.10	0.18	
		velocity	8.14	8.26	8.20	97.0	8.14	8.26	

Heptathlon - Heat 2

date 19-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
Lazraq, Auriana (FRA) (1999)	time	12.27	24.02		24.02	24.02	8 / 1			
reaction time	0.186	interval	11.75		PB		# of strides	12.27	11.75	0.52
		velocity	8.15	8.51	8.33	93.5	8.15	8.51		
Oosterwegel, Emma (NED) (1991)	time	12.47	24.58		24.58	24.58	5 / 2			
reaction time	0.193	interval	12.11				# of strides	12.47	12.11	0.36
		velocity	8.02	8.26	8.14	99.0	8.02	8.26		
Vanninen, Saga (FIN) (2003)	time	12.55	24.71		24.71	24.71	6 / 3			
reaction time	0.175	interval	12.16				# of strides	12.55	12.16	0.39
		velocity	7.97	8.22	8.09	96.5	7.97	8.22		
O'Connor, Kate (IRL) (2000)	time	12.57	24.78		24.78	24.78	3 / 4			
reaction time	0.129	interval	12.21				# of strides	12.57	12.21	0.36
		velocity	7.96	8.19	8.07	98.2	7.96	8.19		
Grimm, Vanessa (GER) (1997)	time	12.58	24.91		24.91	24.91	9 / 5			
reaction time	0.205	interval	12.33				# of strides	12.58	12.33	0.25
		velocity	7.95	8.11	8.03	97.0	7.95	8.11		
Turpin, Esther (FRA) (1996)	time	12.67	25.04		25.04	25.04	2 / 6			
reaction time	0.208	interval	12.37				# of strides	12.67	12.37	0.30
		velocity	7.89	8.08	7.99	97.0	7.89	8.08		
Nemes, Rita (HUN) (1989)	time	12.67	25.04		25.04	25.04	4 / 7			
reaction time	0.150	interval	12.37				# of strides	12.67	12.37	0.30
		velocity	7.89	8.08	7.99	93.7	7.89	8.08		
Ligarska, Paulina (POL) (1996)	time	12.81	25.41		25.41	25.41	7 / 8			
reaction time	0.215	interval	12.60				# of strides	12.81	12.60	0.21
		velocity	7.81	7.94	7.87	91.0	7.81	7.94		

Heptathlon - Heat 1

date 19-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
Vidts, Noor (BEL) (1996)	time	12.45	24.23		24.23	24.23	2 / 1			
reaction time	0.210	interval	11.78				# of strides	12.45	11.78	0.67
		velocity	8.03	8.49	8.25	95.2	8.03	8.49		
Cambours, Léonie (FRA) (2000)	time	12.79	25.03		25.03	25.03	7 / 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	0.167	interval		12.24		# of strides	12.79	12.24	0.55
		velocity	7.82	8.17	7.99	101.0	7.82	8.17	
Krizsán, Xénia (HUN) (1993)	time		12.71	25.16	25.16	4 / 3			
reaction time	0.175	interval		12.45		# of strides	12.71	12.45	0.26
		velocity	7.87	8.03	7.95	94.0	7.87	8.03	
Voronina, Ekaterina (UZB) (1992)	time		12.81	25.48	25.48	6 / 4			
reaction time	0.153	interval		12.67		# of strides	12.81	12.67	0.14
		velocity	7.81	7.89	7.85	96.0	7.81	7.89	
Valeria, Martha (COL) (1996)	time		12.64	25.67	25.67	5 / 5			
reaction time	0.184	interval		13.03		# of strides	12.64	13.03	-0.39
		velocity	7.91	7.67	7.79	103.0	7.91	7.67	
Lagger, Sarah (AUT) (1999)	time		13.04	25.86	25.86	3 / 6			
reaction time	0.220	interval		12.82		# of strides	13.04	12.82	0.22
		velocity	7.67	7.80	7.73	96.7	7.67	7.80	

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

FINAL

		date	21-Jul-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
Jackson, Shericka (JAM) (1994)	time		6.22	11.20	16.38	21.86	21.86		5 / 1			
reaction time	0.163	interval		4.98	5.18	5.48		# of strides	11.20	10.66	0.54	
		velocity	8.04	10.04	9.65	9.12	9.15	93.0	8.93	9.38		
Alfred, Julien (LCA) (2001)	time		6.23	11.26	16.50	22.08	22.08		7 / 2			
reaction time	0.210	interval		5.03	5.24	5.58		# of strides	11.26	10.82	0.44	
		velocity	8.03	9.94	9.54	8.96	9.06	99.0	8.88	9.24		
Asher-Smith, Dina (GBR) (1995)	time		6.12	11.16	16.48	22.23	22.23		4 / 3			
reaction time	0.153	interval		5.04	5.32	5.75		# of strides	11.16	11.07	0.09	
		velocity	8.17	9.92	9.40	8.70	9.00	95.0	8.96	9.03		
Strachan, Anthonique (BAH) (1991)	time		6.33	11.43	16.75	22.40	22.40		2 / 4			
reaction time	0.158	interval		5.10	5.32	5.65		# of strides	11.43	10.97	0.46	
		velocity	7.90	9.80	9.40	8.85	8.93		8.75	9.12		
Neita, Daryll (GBR) (1996)	time		6.44	11.50	16.81	22.54	22.54		1 / 5			
reaction time	0.218	interval		5.06	5.31	5.73		# of strides	11.50	11.04	0.46	
		velocity	7.76	9.88	9.42	8.73	8.87		8.70	9.06		
White, Kayla (USA) (1996)	time		6.24	11.35	16.72	22.54	22.54		3 / 5			
reaction time	0.153	interval		5.11	5.37	5.82		# of strides	11.35	11.19	0.16	
		velocity	8.01	9.78	9.31	8.59	8.87		8.81	8.94		
Thomas, Gabrielle (USA) (1996)	time		6.29	11.33	16.78	22.67	22.67		6 / 7			
reaction time	0.200	interval		5.04	5.45	5.89		# of strides	11.33	11.34	-0.01	
		velocity	7.95	9.92	9.17	8.49	8.82	88.2	8.83	8.82		
Clark, Tamara (USA) (1999)	time		6.31	11.45	16.96	22.83	22.83		8 / 8			
reaction time	0.202	interval		5.14	5.51	5.87		# of strides	11.45	11.38	0.07	
		velocity	7.92	9.73	9.07	8.52	8.76		8.73	8.79		

2023 Bauhaus Galan (Stockholm, SWE)

FINAL

		date	02-Jul-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
Neita, Daryll (GBR) (1996)	time		6.32	11.37	16.65	22.50	22.50		7 / 1			
reaction time	0.175	interval		5.05	5.28	5.85		# of strides	11.37	11.13	0.24	
		velocity	7.91	9.90	9.47	8.55	8.89	93.0	8.80	8.98		
Asher-Smith, Dina (GBR) (1995)	time		6.14	11.25	16.62	22.58	22.58		4 / 2			
reaction time	0.158	interval		5.11	5.37	5.96		# of strides	11.25	11.33	-0.08	
		velocity	8.14	9.78	9.31	8.39	8.86	97.0	8.89	8.83		

Bestué, Jaël (ESP) (2000)	time	6.34	11.44	16.78	22.59	22.59	3 / 3			
reaction time	0.169	interval	5.10	5.34	5.81		# of strides	11.44	11.15	0.29
		velocity	7.89	9.80	9.36	8.61	8.85	104.0	8.74	8.97
Ta Lou, Marie-Josée (CIV) (1988)	time	6.21	11.34	16.73	22.70	22.70	5 / 4			
reaction time	0.152	interval	5.13	5.39	5.97		# of strides	11.34	11.36	-0.02
		velocity	8.05	9.75	9.28	8.38	8.81	48.7	8.82	8.80
Koné, Maboundou (CIV) (1997)	time	6.30	11.52	17.02	22.99	22.99	6 / 5			
reaction time	0.201	interval	5.22	5.50	5.97		# of strides	11.52	11.47	0.05
		velocity	7.94	9.58	9.09	8.38	8.70	101.0	8.68	8.72
Jiya, Tasa (NED) (1997)	time	6.44	11.69	17.19	23.15	23.15	8 / 6			
reaction time	0.205	interval	5.25	5.50	5.96		# of strides	11.69	11.46	0.23
		velocity	7.76	9.52	9.09	8.39	8.64	93.0	8.55	8.73
Henriksson, Julia (SWE) (2000)	time	6.45	11.76	17.29	23.37	23.37	1 / 7			
reaction time	0.136	interval	5.31	5.53	6.08		# of strides	11.76	11.61	0.15
		velocity	7.75	9.42	9.04	8.22	8.56	97.0	8.50	8.61
Takács, Boglárka (HUN) (2001)	time	6.48	11.77	17.35	23.62	23.62	2 / 8			
reaction time	0.178	interval	5.29	5.58	6.27		# of strides	11.77	11.85	-0.08
		velocity	7.72	9.45	8.96	7.97	8.47	99.2	8.50	8.44

2023 Athletissima (Lausanne, SUI)**FINAL**

date 30-Jun-23

wind -0.4 m/s

Omega Timing (2023) - diamond league race analysis

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Jiya, Tasa (NED) (1997)	time	6.45	11.70	17.24	23.16	23.16	5 / 1			
reaction time	0.190	interval	5.25	5.54	5.92		# of strides	11.70	11.46	0.24
		velocity	7.75	9.52	9.03	8.45	8.64	8.55	8.73	
Burghardt, Alexandra (GER) (1997)	time	6.42	11.68	17.26	23.43	23.43	4 / 2			
reaction time	0.176	interval	5.26	5.58	6.17		# of strides	11.68	11.75	-0.07
		velocity	7.79	9.51	8.96	8.10	8.54	8.56	8.51	
Atcho, Sarah (SUI) (1995)	time	6.43	11.72	17.36	23.53	23.53	6 / 3			
reaction time	0.129	interval	5.29	5.64	6.17		# of strides	11.72	11.81	-0.09
		velocity	7.78	9.45	8.87	8.10	8.50	8.53	8.47	
Graversgaard, Mette (DEN) (1999)	time	6.42	11.74	17.40	23.56	23.56	3 / 4			
reaction time	0.153	interval	5.32	5.66	6.16		# of strides	11.74	11.82	-0.08
		velocity	7.79	9.40	8.83	8.12	8.49	8.52	8.46	
Pointet, Leonie (SUI) (2001)	time	6.44	11.78	17.44	23.58	23.58	8 / 5			
reaction time	0.156	interval	5.34	5.66	6.14		# of strides	11.78	11.80	-0.02
		velocity	7.76	9.36	8.83	8.14	8.48	8.49	8.47	
Sedney, Zoë (NED) (2001)	time	6.39	11.68	17.38	23.60	23.60	7 / 6			
reaction time	0.161	interval	5.29	5.70	6.22		# of strides	11.68	11.92	-0.24
		velocity	7.82	9.45	8.77	8.04	8.47	8.56	8.39	
Bürgi, Céline (SUI) (1999)	time	6.42	11.74	17.40	23.60	23.60	2 / 7			
reaction time	0.132	interval	5.32	5.66	6.20		# of strides	11.74	11.86	-0.12
		velocity	7.79	9.40	8.83	8.06	8.47	8.52	8.43	
Caligiuri, Iris (SUI) (2003)	time	6.59	12.06	17.92	24.38	24.38	1 / 8			
reaction time	0.143	interval	5.47	5.86	6.46		# of strides	12.06	12.32	-0.26
		velocity	7.59	9.14	8.53	7.74	8.20	8.29	8.12	

2023 Meeting de Paris (Paris, FRA)**FINAL**

date 09-Jun-23

wind -0.4 m/s

Omega Timing (2023) - diamond league race analysis

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Thomas, Gabrielle (USA) (1996)	time	6.18	11.21	16.42	22.05	22.05	6 / 1			
reaction time	0.170	interval	5.03	5.21	5.63		# of strides	11.21	10.84	0.37
		velocity	8.09	9.94	9.60	8.88	9.07	88.0	8.92	9.23

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

Steiner, Abby (USA) (1999)	time	6.25	11.30	16.57	22.34	22.34	4 / 2				
reaction time	0.176	interval	5.05	5.27	5.77		# of strides	11.30	11.04	0.26	
		velocity	8.00	9.90	9.49	8.67	8.95	102.0	8.85	9.06	
Ta Lou, Marie-Josée (CIV) (1988)	time	6.11	11.18	16.49	22.34	22.34	7 / 3				
reaction time	0.168	interval	5.07	5.31	5.85		# of strides	11.18	11.16	0.02	
		velocity	8.18	9.86	9.42	8.55	8.95	98.5	8.94	8.96	
Asher-Smith, Dina (GBR) (1995)	time	6.10	11.24	16.63	22.57	22.57	5 / 4				
reaction time	0.139	interval	5.14	5.39	5.94		# of strides	11.24	11.33	-0.09	
		velocity	8.20	9.73	9.28	8.42	8.86	96.2	8.90	8.83	
White, Kayla (USA) (1996)	time	6.20	11.32	16.73	22.67	22.67	8 / 5				
reaction time	0.173	interval	5.12	5.41	5.94		# of strides	11.32	11.35	-0.03	
		velocity	8.06	9.77	9.24	8.42	8.82	94.0	8.83	8.81	
Prandini, Jenna (USA) (1992)	time	6.26	11.33	16.74	22.76	22.76	3 / 6				
reaction time	0.187	interval	5.07	5.41	6.02		# of strides	11.33	11.43	-0.10	
		velocity	7.99	9.86	9.24	8.31	8.79	97.0	8.83	8.75	
Clark, Tamara (USA) (1999)	time	6.28	11.53	16.98	22.86	22.86	2 / 7				
reaction time	0.196	interval	5.25	5.45	5.88		# of strides	11.53	11.33	0.20	
		velocity	7.96	9.52	9.17	8.50	8.75	102.0	8.67	8.83	
Joseph, Gémima (FRA) (2001)	time	6.27	11.63	17.24	23.34	23.34	1 / 8				
reaction time	0.169	interval	5.36	5.61	6.10		# of strides	11.63	11.71	-0.08	
		velocity	7.97	9.33	8.91	8.20	8.57	101.5	8.60	8.54	

2023 FBK Games (Hengelo, NED)**FINAL**

date 04-Jun-23

wind 1.4 m/s

Omega Timing (2023) - continental tour race analysis

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hemida, Bassant (EGY) (1996)	time	6.40	11.57	16.82	22.41	22.41	6 / 1				
reaction time	0.171	interval	5.17	5.25	5.59	NR PB	# of strides	11.57	10.84	0.73	
		velocity	7.81	9.67	9.52	8.94	8.92	100.2	8.64	9.23	
Klaver, Lieke (NED) (1998)	time	6.45	11.60	16.90	22.51	22.51	5 / 2				
reaction time	0.197	interval	5.15	5.30	5.61	PB	# of strides	11.60	10.91	0.69	
		velocity	7.75	9.71	9.43	8.91	8.88	92.0	8.62	9.17	
White, Kayla (USA) (1996)	time	6.24	11.38	16.77	22.56	22.56	4 / 3				
reaction time	0.144	interval	5.14	5.39	5.79		# of strides	11.38	11.18	0.20	
		velocity	8.01	9.73	9.28	8.64	8.87	93.5	8.79	8.94	
Jiya, Tasa (NED) (1997)	time	6.38	11.61	17.01	22.84	22.84	7 / 4				
reaction time	0.170	interval	5.23	5.40	5.83	PB	# of strides	11.61	11.23	0.38	
		velocity	7.84	9.56	9.26	8.58	8.76	92.0	8.61	8.90	
Rosa, Vitoria Cristina (BRA) (1995)	time	6.52	11.79	17.21	23.03	23.03	3 / 5				
reaction time	0.189	interval	5.27	5.42	5.82		# of strides	11.79	11.24	0.55	
		velocity	7.67	9.49	9.23	8.59	8.68	94.7	8.48	8.90	
Atcho, Sarah (SUI) (1995)	time	6.45	11.66	17.15	23.18	23.18	8 / 6				
reaction time	0.150	interval	5.21	5.49	6.03		# of strides	11.66	11.52	0.14	
		velocity	7.75	9.60	9.11	8.29	8.63		8.58	8.68	
Samuel, Jamile (NED) (1992)	time	6.56	11.94	17.50	23.45	23.45	2 / 7				
reaction time	0.155	interval	5.38	5.56	5.95		# of strides	11.94	11.51	0.43	
		velocity	7.62	9.29	8.99	8.40	8.53	100.5	8.38	8.69	
Wessolly, Jessica-Bianca (GER) (1995)	time	6.74	12.21	17.91	24.04	24.04	1 / 8				
reaction time	0.187	interval	5.47	5.70	6.13		# of strides	12.21	11.83	0.38	
		velocity	7.42	9.14	8.77	8.16	8.32	100.5	8.19	8.45	

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

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

FINAL

		date	28-May-23	wind	0.8 m/s	Omega Timing (2023) - diamond league race analysis						
				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Jackson, Shericka (JAM) (1994)	time			6.20	11.23	16.41	21.98	21.98	6 / 1			
	reaction time	0.161	interval		5.03	5.18	5.57		# of strides	11.23	10.75	0.48
			velocity	8.06	9.94	9.65	8.98	9.10	96.0	8.90	9.30	
Strachan, Anthonique (BAH) (1	time			6.29	11.40	16.61	22.15	22.15	4 / 2			
	reaction time	0.140	interval		5.11	5.21	5.54	PB	# of strides	11.40	10.75	0.65
			velocity	7.95	9.78	9.60	9.03	9.03	89.0	8.77	9.30	
Davis, Tamari (USA) (2003)	time			6.13	11.22	16.48	22.30	22.30	5 / 3			
	reaction time	0.123	interval		5.09	5.26	5.82	PB	# of strides	11.22	11.08	0.14
			velocity	8.16	9.82	9.51	8.59	8.97	91.5	8.91	9.03	
White, Kayla (USA) (1996)	time			6.26	11.43	16.76	22.52	22.52	7 / 4			
	reaction time	0.158	interval		5.17	5.33	5.76		# of strides	11.43	11.09	0.34
			velocity	7.99	9.67	9.38	8.68	8.88	93.0	8.75	9.02	
Hemida, Bassant (EGY) (1996)	time			6.33	11.52	16.87	22.67	22.67	3 / 5			
	reaction time	0.167	interval		5.19	5.35	5.80		# of strides	11.52	11.15	0.37
			velocity	7.90	9.63	9.35	8.62	8.82	101.7	8.68	8.97	
Kielbasinska, Anna (POL) (1990)	time			6.42	11.75	17.18	22.98	22.98	8 / 6			
	reaction time	0.161	interval		5.33	5.43	5.80		# of strides	11.75	11.23	0.52
			velocity	7.79	9.38	9.21	8.62	8.70	97.0	8.51	8.90	
Bass, Gina (GAM) (1995)	time			6.43	11.81	17.35	23.44	23.44	2 / 7			
	reaction time	0.161	interval		5.38	5.54	6.09		# of strides	11.81	11.63	0.18
			velocity	7.78	9.29	9.03	8.21	8.53	103.2	8.47	8.60	
Sevilla, Paula (ESP) (1997)	time			6.58	11.99	17.56	23.58	23.58	1 / 8			
	reaction time	0.145	interval		5.41	5.57	6.02		# of strides	11.99	11.59	0.40
			velocity	7.60	9.24	8.98	8.31	8.48		8.34	8.63	

National FINAL

		date	28-May-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
El Hachimi, Sara (MAR) (2000)	time			6.63	12.17	18.03	24.48	24.46	4 / 1			
	reaction time	0.178	interval		5.54	5.86	6.45		# of strides	12.17	12.31	-0.14
			velocity	7.54	9.03	8.53	7.75	8.18		8.22	8.12	
Lehlali, Salma (MAR) (2003)	time			6.90	12.58	18.41	24.70	24.70	5 / 2			
	reaction time	0.198	interval		5.68	5.83	6.29		# of strides	12.58	12.12	0.46
			velocity	7.25	8.80	8.58	7.95	8.10		7.95	8.25	
Nouiri, Houda (MAR) (1998)	time			7.01	12.77	18.67	25.01	25.01	6 / 3			
	reaction time	0.234	interval		5.76	5.90	6.34	PB	# of strides	12.77	12.24	0.53
			velocity	7.13	8.68	8.47	7.89	8.00		7.83	8.17	
Doha, Razki (MAR) (2001)	time			6.94	12.73	18.81	25.45	25.45	7 / 4			
	reaction time	0.210	interval		5.79	6.08	6.64	PB	# of strides	12.73	12.72	0.01
			velocity	7.20	8.64	8.22	7.53	7.86		7.86	7.86	
Ghalla, Kenza (MAR) (2004)	time			7.20	13.15	19.35	26.09	26.09	1 / 5			
	reaction time	0.202	interval		5.95	6.20	6.74	PB	# of strides	13.15	12.94	0.21
			velocity	6.94	8.40	8.06	7.42	7.67		7.60	7.73	
Dahmani, Ghita (MAR) (2005)	time			7.15	13.12	19.34	26.12	26.12	2 / 6			
	reaction time	0.170	interval		5.97	6.22	6.78	PB	# of strides	13.12	13.00	0.12
			velocity	6.99	8.38	8.04	7.37	7.66		7.62	7.69	
El Houma, Hiba (MAR) (2005)	time			7.11	13.12	19.42	26.31	26.31	8 / 7			
	reaction time	0.162	interval		6.01	6.30	6.89		# of strides	13.12	13.19	-0.07
			velocity	7.03	8.32	7.94	7.26	7.60		7.62	7.58	
Makrazi, Imane (MAR) (2002)	time			7.80				dnf	3 / --			
	reaction time	0.206	interval						# of strides			

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

velocity 6.41

2022 Weltklasse (Zürich, SUI)**FINAL**

date 08-Sep-22

wind -0.9 m/s

Omega Timing (2022) - diamond league race analysis

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Jackson, Shericka (JAM) (1994)	time	6.12	11.02	16.20	21.80	21.80	5 / 1			
	reaction time	0.140	interval	4.90	5.18	5.60	# of strides	11.02	10.78	0.24
	velocity	8.17	10.20	9.65	8.93	9.17	94.0	9.07	9.28	
Thomas, Gabrielle (USA) (1996)	time	6.24	11.29	16.65	22.38	22.38	7 / 2			
	reaction time	0.145	interval	5.05	5.36	5.73	# of strides	11.29	11.09	0.20
	velocity	8.01	9.90	9.33	8.73	8.94	90.0	8.86	9.02	
Clark, Tamara (USA) (1999)	time	6.21	11.26	16.63	22.42	22.42	8 / 3			
	reaction time	0.138	interval	5.05	5.37	5.79	# of strides	11.26	11.16	0.10
	velocity	8.05	9.90	9.31	8.64	8.92	99.0	8.88	8.96	
Prandini, Jenna (USA) (1992)	time	6.31	11.30	16.62	22.45	22.45	6 / 4			
	reaction time	0.155	interval	4.99	5.32	5.83	# of strides	11.30	11.15	0.15
	velocity	7.92	10.02	9.40	8.58	8.91	96.0	8.85	8.97	
Kambundji, Mujinga (SUI) (1992)	time	6.26	11.38	16.79	22.65	22.65	4 / 5			
	reaction time	0.150	interval	5.12	5.41	5.86	# of strides	11.38	11.27	0.11
	velocity	7.99	9.77	9.24	8.53	8.83	101.7	8.79	8.87	
Gaither, TyNia (BAH) (1993)	time	6.38	11.51	16.88	22.66	22.66	3 / 6			
	reaction time	0.148	interval	5.13	5.37	5.78	# of strides	11.51	11.15	0.36
	velocity	7.84	9.75	9.31	8.65	8.83	104.0	8.69	8.97	
Karstoft, Ida (DEN) (1995)	time	6.48	11.64	17.06	22.80	22.80	2 / 7			
	reaction time	0.169	interval	5.16	5.42	5.74	# of strides	11.64	11.16	0.48
	velocity	7.72	9.69	9.23	8.71	8.77	89.7	8.59	8.96	
Dobbin, Beth (GBR) (1994)	time	6.53	11.93	17.67	23.83	23.83	1 / 8			
	reaction time	0.137	interval	5.40	5.74	6.16	# of strides	11.93	11.90	0.03
	velocity	7.66	9.26	8.71	8.12	8.39		8.38	8.40	

2022 Athletissima (Lausanne, SUI)**FINAL**

date 26-Aug-22

wind -0.9 m/s

Omega Timing (2022) - diamond league race analysis

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Pointet, Léonie (SUI) (2001)	time	6.3	11.6	17.2	23.30	23.30	4 / 1			
	reaction time	0.156	interval	5.30	5.60	6.10	# of strides	11.60	11.70	-0.10
	velocity	7.94	9.43	8.93	8.20	8.58		8.62	8.55	
Niederberfer, Julia (SUI) (2000)	time	6.5	11.8	17.3	23.49	23.49	6 / 2			
	reaction time	0.148	interval	5.30	5.50	6.19	# of strides	11.80	11.69	0.11
	velocity	7.69	9.43	9.09	8.08	8.51		8.47	8.55	
Atcho, Sarah (SUI) (1995)	time	6.4	11.7	17.3	23.77	23.77	5 / 3			
	reaction time	0.147	interval	5.30	5.60	6.47	# of strides	11.70	12.07	-0.37
	velocity	7.81	9.43	8.93	7.73	8.41		8.55	8.29	
Bürgi, Céline (SUI) (1999)	time	6.4	11.7	17.4	23.91	23.91	7 / 4			
	reaction time	0.132	interval	5.30	5.70	6.51	# of strides	11.70	12.21	-0.51
	velocity	7.81	9.43	8.77	7.68	8.36		8.55	8.19	
Furler, Selina (SUI) (2003)	time	6.6	12.1	17.8	24.18	24.18	2 / 5			
	reaction time	0.163	interval	5.50	5.70	6.38	# of strides	12.10	12.08	0.02
	velocity	7.58	9.09	8.77	7.84	8.27		8.26	8.28	
Halbheer, Cornelia (SUI) (1992)	time	6.5	11.9	17.8	24.22	24.22	3 / 6			
	reaction time	0.133	interval	5.40	5.90	6.42	# of strides	11.90	12.32	-0.42
	velocity	7.69	9.26	8.47	7.79	8.26		8.40	8.12	
Ambrosini, Coralie (SUI) (1997)	time	6.5	11.9	17.7	24.27	24.27	8 / 7			

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

reaction time	0.135	interval	5.40	5.80	6.57		# of strides	11.90	12.37	-0.47
		velocity	7.69	9.26	8.62	7.61	8.24	8.40	8.08	
Caligiuri, Iris (SUI) (2003)	time	6.6	12.1	18.0	24.39	24.39	1 / 8			
reaction time	0.127	interval	5.50	5.90	6.39	=PB	# of strides	12.10	12.29	-0.19
		velocity	7.58	9.09	8.47	7.82	8.20	8.26	8.14	

2022 European Athletics Championships (Munich, GER)**FINAL**

date 19-Aug-22 wind 0.4 m/s

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kambundji, Mujinga (SUI) (1992)	0.164	no information available				22.32	3 / 1		# of strides	102.0
Asher-Smith, Dina (GBR) (1995)	0.147	no information available				22.43	5 / 2		# of strides	95.2
Karstoft, Ida (DEN) (1995)	0.255	no information available				22.72	6 / 3		# of strides	89.2
Williams, Jodie (GBR) (1993)	0.170	no information available				22.85	8 / 4		# of strides	96.5
Klaver, Lieke (NED) (1998)	0.164	no information available				22.88	4 / 5		# of strides	93.5
Grebo, Shana (FRA) (2000)	0.176	no information available				23.06	7 / 6		# of strides	95.0
Kaddari, Dalia (ITA) (2001)	0.165	no information available				23.19	2 / 7		# of strides	98.2
Burghardt, Alexandra (GER) (1992)	0.141	no information available				23.24	1 / 8		# of strides	98.0

2022 Silesia Kamila Skolimowska Memorial (Chorzów, POL)**FINAL**

date 06-Aug-22 wind 0.2 m/s

Omega Timing (2022) - diamond league race analysis

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Jackson, Shericka (JAM) (1994)	time	6.23	11.22	16.35	21.84	21.84	6 / 1			
reaction time	0.173	interval	4.99	5.13	5.49		# of strides	11.22	10.62	0.60
		velocity	8.03	10.02	9.75	9.16	94.6	8.91	9.42	
Miller-Uibo, Shaunae (BAH) (1992)	time	6.34	11.43	16.69	22.35	22.35	9 / 2			
reaction time	0.156	interval	5.09	5.26	5.66		# of strides	11.43	10.92	0.51
		velocity	7.89	9.82	9.51	8.83	89.0	8.75	9.16	
Prandini, Jenna (USA) (1992)	time	6.25	11.24	16.52	22.39	22.39	5 / 3			
reaction time	0.168	interval	4.99	5.28	5.87		# of strides	11.24	11.15	0.09
		velocity	8.00	10.02	9.47	8.52	95.7	8.90	8.97	
Gaither, TyNia (BAH) (1993)	time	6.39	11.53	16.88	22.70	22.70	3 / 4			
reaction time	0.155	interval	5.14	5.35	5.82		# of strides	11.53	11.17	0.36
		velocity	7.82	9.73	9.35	8.59	102.0	8.67	8.95	
Karstoft, Ida (DEN) (1995)	time	6.45	11.61	16.99	22.80	22.80	2 / 5			
reaction time	0.154	interval	5.16	5.38	5.81		# of strides	11.61	11.19	0.42
		velocity	7.75	9.69	9.29	8.61	8.77	90.2	8.61	8.94
Clark, Tamara (USA) (1999)	time	6.28	11.43	16.86	22.82	22.82	4 / 6			
reaction time	0.165	interval	5.15	5.43	5.96		# of strides	11.43	11.39	0.04
		velocity	7.96	9.71	9.21	8.39	8.76	102.2	8.75	8.78
Thomas, Gabrielle (USA) (1996)	time	6.29	11.44	16.87	22.86	22.86	7 / 7			
reaction time	0.149	interval	5.15	5.43	5.99		# of strides	11.44	11.42	0.02
		velocity	7.95	9.71	9.21	8.35	8.75	90.0	8.74	8.76
Rosa, Vitoria Cristina (BRA) (1992)	time	6.44	11.63	17.03	22.89	22.89	8 / 8			
reaction time	0.172	interval	5.19	5.40	5.86		# of strides	11.63	11.26	0.37
		velocity	7.76	9.63	9.26	8.53	8.74	94.2	8.60	8.88
Horowska, Nikola (POL) (2001)	time	6.51	11.82	17.40	23.44	23.44	1 / 9			
reaction time	0.142	interval	5.31	5.58	6.04		# of strides	11.82	11.62	0.20
		velocity	7.68	9.42	8.96	8.28	8.53	97.7	8.46	8.61

2022 Commonwealth Games (Birmingham, GBR)**FINAL**

date 06-Aug-22 wind 0.6 m/s

Longines Timing (2022) - commonwealth games race analysis

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Thompson-Herah, Elaine (JAM) (2001)	time	6.1	11.1	16.3	22.02	22.02	7 / 1			
reaction time	0.173	interval	5.00	5.20	5.72	CR	# of strides	11.10	10.92	0.18
		velocity	8.20	10.00	9.62	9.08	97.0	9.01	9.16	

Ofili, Favour (NGR) (2002)	time	6.2	11.4	16.7	22.51	22.51	6 / 2			
reaction time	0.161	interval	5.20	5.30	5.81		# of strides	11.40	11.11	0.29
		velocity	8.06	9.62	9.43	8.61	8.88	94.2	8.77	9.00
Mboma, Christine (NAM) (2003)	time	6.3	11.6	17.0	22.80	22.80	4 / 3			
reaction time	0.156	interval	5.30	5.40	5.80		# of strides	11.60	11.20	0.40
		velocity	7.94	9.43	9.26	8.62	8.77	97.0	8.62	8.93
Whyte, Natalliah (JAM) (1997)	time	6.3	11.5	17.0	23.06	23.06	5 / 4			
reaction time	0.157	interval	5.20	5.50	6.06		# of strides	11.50	11.56	-0.06
		velocity	7.94	9.62	9.09	8.25	8.67	97.0	8.70	8.65
Bass, Gina (GAM) (1995)	time	6.3	11.7	17.2	23.13	23.13	2 / 5			
reaction time	0.150	interval	5.40	5.50	5.93		# of strides	11.70	11.43	0.27
		velocity	7.94	9.26	9.09	8.43	8.65	101.7	8.55	8.75
Connolly, Ella (AUS) (2000)	time	6.3	11.6	17.2	23.21	23.21	8 / 6			
reaction time	0.147	interval	5.30	5.60	6.01		# of strides	11.60	11.61	-0.01
		velocity	7.94	9.43	8.93	8.32	8.62	96.0	8.62	8.61
McDonald, Natassha (CAN) (1994)	time	6.5	11.7	17.1	23.21	23.21	9 / 7			
reaction time	0.158	interval	5.20	5.40	6.11		# of strides	11.70	11.51	0.19
		velocity	7.69	9.62	9.26	8.18	8.62	85.5	8.55	8.69
Dobbin, Beth (GBR) (1994)	time	6.4	11.8	17.4	23.40	23.40	3 / 8			
reaction time	0.143	interval	5.40	5.60	6.00		# of strides	11.80	11.60	0.20
		velocity	7.81	9.26	8.93	8.33	8.55	98.0	8.47	8.62

2022 Japanese National High School Championships (Naruto, JPN)

FINAL

date 06-Aug-22 wind -1.2 m/s Kishima (2022) - national high school championships biomechanics data collection

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kojima, Yuzuki (JPN) (2004)	time	7.35	12.30	18.01	24.32	24.32	6 / 1			
reaction time	0.154	interval	4.95	5.71	6.31	PB	# of strides	12.30	12.02	0.28
		velocity	6.80	10.10	8.76	7.92	8.22	8.13	8.32	
Kobari, Akiha (JPN) (2006)	time	7.34	12.35	18.03	24.42	24.42	9 / 2			
reaction time	0.160	interval	5.01	5.68	6.39	PB	# of strides	12.35	12.07	0.28
		velocity	6.81	9.98	8.80	7.82	8.19	8.10	8.29	
Satou, Aoi (JPN) (2004)	time	7.31	12.32	18.11	24.66	24.66	4 / 3			
reaction time	0.170	interval	5.01	5.79	6.55		# of strides	12.32	12.34	-0.02
		velocity	6.84	9.98	8.64	7.63	8.11	8.12	8.10	
Yamagata, Aiha (JPN) (2005)	time	7.39	12.43	18.23	24.72	24.72	3 / 4			
reaction time	0.284	interval	5.04	5.80	6.49		# of strides	12.43	12.29	0.14
		velocity	6.77	9.92	8.62	7.70	8.09	8.05	8.14	
Kurashige, Miu (JPN) (2004)	time	7.24	12.27	18.15	24.74	24.74	5 / 5			
reaction time	0.166	interval	5.03	5.88	6.59		# of strides	12.27	12.47	-0.20
		velocity	6.91	9.94	8.50	7.59	8.08	8.15	8.02	
Komatsu, Konomi (JPN) (2004)	time	7.39	12.47	18.29	24.75	24.75	8 / 6			
reaction time	0.201	interval	5.08	5.82	6.46		# of strides	12.47	12.28	0.19
		velocity	6.77	9.84	8.59	7.74	8.08	8.02	8.14	
Sakamoto, Minami (JPN) (2006)	time	7.29	12.40	18.26	24.79	24.79	7 / 7			
reaction time	0.160	interval	5.11	5.86	6.53		# of strides	12.40	12.39	0.01
		velocity	6.86	9.78	8.53	7.66	8.07	8.06	8.07	
Sasaki, Nao (JPN) (2005)	time	7.42	12.50	18.35	24.95	24.95	2 / 8			
reaction time	0.177	interval	5.08	5.85	6.60		# of strides	12.50	12.45	0.05
		velocity	6.74	9.84	8.55	7.58	8.02	8.00	8.03	

2022 World Athletics Championships (Eugene, OR)

FINAL

date 21-Jul-22 wind 0.6 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
Jackson, Shericka (JAM) (1994)	time	11.04		21.45	21.45	4 / 1			
reaction time	0.144	interval		10.41	CR NR PB	# of strides	11.04	10.41	0.63
velocity		9.06		9.61	9.32	93.2	9.06	9.61	
Fraser-Pryce, Shelly-Ann (JAM)	time	11.03		21.81	21.81	6 / 2			
reaction time	0.145	interval		10.78		# of strides	11.03	10.78	0.25
velocity		9.07		9.28	9.17	98.0	9.07	9.28	
Asher-Smith, Dina (GBR) (1995)	time	11.08		22.02	22.02	3 / 3			
reaction time	0.125	interval		10.94		# of strides	11.08	10.94	0.14
velocity		9.03		9.14	9.08	95.0	9.03	9.14	
Seyni, Aminatou (NIG) (1996)	time	11.29		22.12	22.12	7 / 4			
reaction time	0.195	interval		10.83		# of strides	11.29	10.83	0.46
velocity		8.86		9.23	9.04	93.7	8.86	9.23	
Steiner, Abby (USA) (1999)	time	11.28		22.26	22.26	8 / 5			
reaction time	0.200	interval		10.98		# of strides	11.28	10.98	0.30
velocity		8.87		9.11	8.98	104.0	8.87	9.11	
Clark, Tamara (USA) (1999)	time	11.33		22.32	22.32	5 / 6			
reaction time	0.197	interval		10.99		# of strides	11.33	10.99	0.34
velocity		8.83		9.10	8.96	101.0	8.83	9.10	
Thompson-Herah, Elaine (JAM)	time	11.36		22.39	22.39	2 / 7			
reaction time	0.139	interval		11.03		# of strides	11.36	11.03	0.33
velocity		8.80		9.07	8.93	97.0	8.80	9.07	
Kambundji, Mujinga (SUI) (1992)	time	11.31		22.55	22.55	1 / 8			
reaction time	0.113	interval		11.24		# of strides	11.31	11.24	0.07
velocity		8.84		8.90	8.87	103.0	8.84	8.90	

Semi-Final 3

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
Fraser-Pryce, Shelly-Ann (JAM)	time	11.08		21.82	21.82	6 / 1			
reaction time	0.146	interval		10.74		# of strides	11.08	10.74	0.34
velocity		9.03		9.31	9.17	96.5	9.03	9.31	
Steiner, Abby (USA) (1999)	time	11.35		22.15	22.15	5 / 2			
reaction time	0.130	interval		10.80		# of strides	11.35	10.80	0.55
velocity		8.81		9.26	9.03	102.0	8.81	9.26	
Ofili, Favour (NGR) (2002)	time	11.45		22.30	22.30	4 / 3			
reaction time	0.161	interval		10.85		# of strides	11.45	10.85	0.60
velocity		8.73		9.22	8.97	93.0	8.73	9.22	
Suarez, Gabriela Anahi (ECU) (2002)	time	11.39		22.74	22.74	3 / 4			
reaction time	0.142	interval		11.35	NR PB	# of strides	11.39	11.35	0.04
velocity		8.78		8.81	8.80	99.7	8.78	8.81	
Karstoft, Ida (DEN) (1995)	time	11.71		22.84	22.84	7 / 5			
reaction time	0.165	interval		11.13		# of strides	11.71	11.13	0.58
velocity		8.54		8.98	8.76	90.7	8.54	8.98	
Kaddari, Dalia (ITA) (2001)	time	11.49		22.86	22.86	8 / 6			
reaction time	0.125	interval		11.37		# of strides	11.49	11.37	0.12
velocity		8.70		8.80	8.75	97.5	8.70	8.80	
Wessolly, Jessica-Bianca (GER) (2002)	time	11.91		23.33	23.33	2 / 7			
reaction time	0.175	interval		11.42		# of strides	11.91	11.42	0.49
velocity		8.40		8.76	8.57	97.0	8.40	8.76	
Lloyd, Joella (ANT) (2002)	time	11.86		23.38	23.38	1 / 8			
reaction time	0.190	interval		11.52		# of strides	11.86	11.52	0.34
velocity		8.43		8.68	8.55	100.5	8.43	8.68	

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	1.4 m/s			Timing by Seiko (2022) - world athletics championships race analysis							
				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
Clark, Tamara (USA) (1999)	time					11.29	21.95	21.95		3 / 1				
	reaction time	0.175	interval				10.66			# of strides	11.29	10.66	0.63	
			velocity			8.86	9.38	9.11		99.5	8.86	9.38		
Asher-Smith, Dina (GBR) (1995)	time					11.24	21.96	21.96		4 / 2				
	reaction time	0.131	interval				10.72			# of strides	11.24	10.72	0.52	
			velocity			8.90	9.33	9.11		95.0	8.90	9.33		
Thompson-Herah, Elaine (JAM)	time					11.23	21.97	21.97		6 / 3				
	reaction time	0.157	interval				10.74			# of strides	11.23	10.74	0.49	
			velocity			8.90	9.31	9.10		97.0	8.90	9.31		
Rosa, Vitoria Cristina (BRA) (1991)	time					11.63	22.47	22.47		7 / 4				
	reaction time	0.155	interval				10.84	NR PB		# of strides	11.63	10.84	0.79	
			velocity			8.60	9.23	8.90		94.5	8.60	9.23		
Nwokocho, Grace (NGR) (2001)	time					11.48	22.49	22.49		8 / 5				
	reaction time	0.170	interval				11.01			# of strides	11.48	11.01	0.47	
			velocity			8.71	9.08	8.89		95.5	8.71	9.08		
Gbai, Jessika (CIV) (1998)	time					11.78	22.84	22.84		2 / 6				
	reaction time	0.152	interval				11.06			# of strides	11.78	11.06	0.72	
			velocity			8.49	9.04	8.76		95.0	8.49	9.04		
Odiog, Ofonime (BRN) (1997)	time					11.73	23.31	23.31		1 / 7				
	reaction time	0.160	interval				11.58			# of strides	11.73	11.58	0.15	
			velocity			8.53	8.64	8.58		98.0	8.53	8.64		
Masilingi, Beatrice (NAM) (2003)	time					11.47	24.78	24.78		5 / 8				
	reaction time	0.158	interval				13.31			# of strides	11.47	13.31	-1.84	
			velocity			8.72	7.51	8.07		94.0	8.72	7.51		

Semi-Final 1

	date	19-Jul-22	wind	2.0 m/s			Timing by Seiko (2022) - world athletics championships race analysis							
				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
Jackson, Shericka (JAM) (1994)	time					11.16	21.67	21.67		5 / 1				
	reaction time	0.132	interval				10.51			# of strides	11.16	10.51	0.65	
			velocity			8.96	9.51	9.23		93.0	8.96	9.51		
Seyni, Aminatou (NIG) (1996)	time					11.54	22.04	22.04		3 / 2				
	reaction time	0.176	interval				10.50			# of strides	11.54	10.50	1.04	
			velocity			8.67	9.52	9.07		95.0	8.67	9.52		
Kambundji, Mujinga (SUI) (1992)	time					11.23	22.05	22.05		6 / 3				
	reaction time	0.125	interval				10.82	NR PB		# of strides	11.23	10.82	0.41	
			velocity			8.90	9.24	9.07		101.0	8.90	9.24		
Prandini, Jenna (USA) (1992)	time					11.26	22.08	22.08		4 / 4				
	reaction time	0.161	interval				10.82			# of strides	11.26	10.82	0.44	
			velocity			8.88	9.24	9.06		96.0	8.88	9.24		
Gaither, TyNia (BAH) (1993)	time					11.51	22.41	22.41		8 / 5				
	reaction time	0.152	interval				10.90	PB		# of strides	11.51	10.90	0.61	
			velocity			8.69	9.17	8.92		101.5	8.69	9.17		
Bass, Gina (GAM) (1995)	time					11.60	22.71	22.71		1 / 6				
	reaction time	0.141	interval				11.11			# of strides	11.60	11.11	0.49	
			velocity			8.62	9.00	8.81		101.5	8.62	9.00		
Chukwuma, Rosemary (NGR) (1992)	time					11.48	22.72	22.72		2 / 7				
	reaction time	0.204	interval				11.24			# of strides	11.48	11.24	0.24	
			velocity			8.71	8.90	8.80		101.5	8.71	8.90		
Beecher, Jacinta (AUS) (1998)	time					11.61	23.14	23.14		7 / 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	0.132	interval		11.53		# of strides	11.61	11.53	0.08
		velocity	8.61	8.67	8.64	95.7	8.61	8.67	

Heat 6

date 18-Jul-22

wind 1.9 m/s

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

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Ofili, Favour (NGR) (2002)	time			11.46		22.24	22.24	2 / 1			
	reaction time	0.148				10.78		# of strides	11.46	10.78	0.68
				8.73		9.28	8.99	93.2	8.73	9.28	
Prandini, Jenna (USA) (1992)	time			11.29		23.38	22.38	4 / 2			
	reaction time	0.145				12.09		# of strides	11.29	12.09	-0.80
				8.86		8.27	8.94	96.2	8.86	8.27	
Beecher, Jacinta (AUS) (1998)	time			11.61		23.22	23.22	3 / 3			
	reaction time	0.133				11.61		# of strides	11.61	11.61	0.00
				8.61		8.61	8.61	95.0	8.61	8.61	
Fotopoulou, Oliva (CYP) (1996)	time			11.70		23.25	23.25	5 / 4			
	reaction time	0.128				11.55		# of strides	11.70	11.55	0.15
				8.55		8.66	8.60	99.5	8.55	8.66	
Léger, Catherine (CAN) (2000)	time			11.76		23.35	23.35	7 / 5			
	reaction time	0.133				11.59		# of strides	11.76	11.59	0.17
				8.50		8.63	8.57	102.2	8.50	8.63	
Hulls, Georgia (NZL) (1999)	time			11.74		23.46	23.46	6 / 6			
	reaction time	0.136				11.72		# of strides	11.74	11.72	0.02
				8.52		8.53	8.53	97.5	8.52	8.53	
Barakat, Hanna (PLE) (1999)	time			13.56		26.33	26.33	1 / 7			
	reaction time	0.184				12.77		# of strides	13.56	12.77	0.79
				7.37		7.83	7.60		7.37	7.83	
Strachan, Anthonique (BAH) (1999)	time			11.34			1:50.06	8 / 8			
	reaction time	0.114				98.72		# of strides	11.34	98.72	-87.38
				8.82		1.01			8.82	1.01	

Heat 5

date 18-Jul-22

wind 0.9 m/s

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

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Steiner, Abby (USA) (1999)	time			11.34		22.26	22.26	5 / 1			
	reaction time	0.143				10.92		# of strides	11.34	10.92	0.42
				8.82		9.16	8.98	101.0	8.82	9.16	
Kambundji, Mujinga (SUI) (1992)	time			11.39		22.34	22.34	6 / 2			
	reaction time	0.119				10.95		# of strides	11.39	10.95	0.44
				8.78		9.13	8.95	98.0	8.78	9.13	
Nwokocho, Grace (NGR) (2001)	time			11.50		22.61	22.61	4 / 3			
	reaction time	0.182				11.11		# of strides	11.50	11.11	0.39
				8.70		9.00	8.85	96.0	8.70	9.00	
Gale, Lauren (CAN) (2000)	time			11.74		23.08	23.08	7 / 4			
	reaction time	0.138				11.34		# of strides	11.74	11.34	0.40
				8.52		8.82	8.67	93.7	8.52	8.82	
Connolly, Ella (AUS) (2000)	time			11.62		23.27	23.27	3 / 5			
	reaction time	0.136				11.65		# of strides	11.62	11.65	-0.03
				8.61		8.58	8.59	95.0	8.61	8.58	
Koné, Maboundou (CIV) (1997)	time			11.74		23.32	23.32	2 / 6			
	reaction time	0.176				11.58		# of strides	11.74	11.58	0.16
				8.52		8.64	8.58	99.2	8.52	8.64	
Defreitas, Beyonce (IVB) (2001)	time			11.91		23.81	23.81	8 / 7			
	reaction time	0.191				11.90		# of strides	11.91	11.90	0.01
				8.40		8.40	8.40	95.0	8.40	8.40	

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

Heat 4

	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		
Clark, Tamara (USA) (1999)	time					11.30		22.27	22.27	3 / 1				
	reaction time	0.154	interval					10.97		# of strides	11.30	10.97	0.33	
			velocity			8.85		9.12	8.98	99.0	8.85	9.12		
Asher-Smith, Dina (GBR) (1995)	time					11.45		22.56	22.56	2 / 2				
	reaction time	0.129	interval					11.11		# of strides	11.45	11.11	0.34	
			velocity			8.73		9.00	8.87	94.0	8.73	9.00		
Gaither, TyNia (BAH) (1993)	time					11.65		22.61	22.61	8 / 3				
	reaction time	0.209	interval					10.96		# of strides	11.65	10.96	0.69	
			velocity			8.58		9.12	8.85	102.0	8.58	9.12		
Bass, Gina (GAM) (1995)	time					11.53		22.78	22.78	5 / 4				
	reaction time	0.151	interval					11.25		# of strides	11.53	11.25	0.28	
			velocity			8.67		8.89	8.78	102.2	8.67	8.89		
Gbai, Jessika (CIV) (1998)	time					11.82		22.89	22.89	4 / 5				
	reaction time	0.159	interval					11.07		# of strides	11.82	11.07	0.75	
			velocity			8.46		9.03	8.74	95.0	8.46	9.03		
Azevedo, Ana Carolina (BRA) (1993)	time					11.85		23.45	23.45	6 / 6				
	reaction time	0.176	interval					11.60		# of strides	11.85	11.60	0.25	
			velocity			8.44		8.62	8.53	103.5	8.44	8.62		
Nekhubui, Shirley (RSA) (2000)	time					11.84		23.46	23.46	7 / 7				
	reaction time	0.186	interval					11.62		# of strides	11.84	11.62	0.22	
			velocity			8.45		8.61	8.53	193.5	8.45	8.61		

Heat 3

	date	18-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		
Seyni, Aminatou (NIG) (1996)	time					11.50		21.98	21.98	6 / 1				
	reaction time	0.174	interval					10.48	NR PB	# of strides	11.50	10.48	1.02	
			velocity			8.70		9.54	9.10	94.0	8.70	9.54		
Fraser-Pryce, Shelly-Ann (JAM) (1986)	time					11.37		22.26	22.26	3 / 2				
	reaction time	0.135	interval					10.89		# of strides	11.37	10.89	0.48	
			velocity			8.80		9.18	8.98	94.5	8.80	9.18		
Rosa, Vitoria Cristina (BRA) (1993)	time					11.66		22.84	22.84	5 / 3				
	reaction time	0.118	interval					11.18		# of strides	11.66	11.18	0.48	
			velocity			8.58		8.94	8.76	94.7	8.58	8.94		
Dobbin, Beth (GBR) (1994)	time					11.70		23.04	23.04	8 / 4				
	reaction time	0.117	interval					11.34		# of strides	11.70	11.34	0.36	
			velocity			8.55		8.82	8.68	98.2	8.55	8.82		
Vervaeke, Imke (BEL) (1993)	time					11.93		23.28	23.28	1 / 5				
	reaction time	0.136	interval					11.35		# of strides	11.93	11.35	0.58	
			velocity			8.38		8.81	8.59	100.2	8.38	8.81		
Pereira, Veronica Shanti (SGP) (1993)	time					12.00		23.53	23.53	2 / 6				
	reaction time	0.192	interval					11.53		# of strides	12.00	11.53	0.47	
			velocity			8.33		8.67	8.50	98.0	8.33	8.67		
Slettum, Elisabeth (NOR) (1986)	time					11.95		23.55	23.55	7 / 7				
	reaction time	0.158	interval					11.60		# of strides	11.95	11.60	0.35	
			velocity			8.37		8.62	8.49	93.0	8.37	8.62		

Heat 2

	date	18-Jul-22	wind	-0.2 m/s		Timing by Seiko (2022) - world athletics championships race analysis								
				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
Masilingi, Beatrice (NAM) (2003)	time					11.47		22.27	22.27	6 / 1				
	reaction time	0.150	interval					10.80		# of strides	11.47	10.80	0.67	
			velocity			8.72		9.26	8.98	91.0	8.72	9.26		

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

Thompson-Herah, Elaine (JAM)	time	11.40	22.41	22.41	8 / 2				
	reaction time	0.153	interval	11.01	# of strides	11.40	11.01	0.39	
			velocity	8.77	9.08	8.92	8.77	9.08	
					97.0				
Karstoft, Ida (DEN) (1995)	time	11.71	22.85	22.85	4 / 3				
	reaction time	0.152	interval	11.14	# of strides	11.71	11.14	0.57	
			velocity	8.54	8.98	8.75	8.54	8.98	
					90.2				
Lloyd, Joella (ANT) (2002)	time	11.76	22.99	22.99	5 / 4				
	reaction time	0.196	interval	11.23	# of strides	11.76	11.23	0.53	
			velocity	8.50	8.90	8.70	8.50	8.90	
					98.5				
Junk, Sophie (GER) (1999)	time	11.66	23.27	23.27	3 / 5				
	reaction time	0.138	interval	11.61	# of strides	11.66	11.61	0.05	
			velocity	8.58	8.61	8.59	8.58	8.61	
					101.0				
Bazolo, Loréne Dorcas (POR) (1995)	time	11.70	23.41	23.41	2 / 6				
	reaction time	0.159	interval	11.71	# of strides	11.70	11.71	-0.01	
			velocity	8.55	8.54	8.54	8.55	8.54	
					99.5				
Kortetmaa, Annlina (FIN) (1995)	time	11.78	23.51	23.51	7 / 7				
	reaction time	0.140	interval	11.73	# of strides	11.78	11.73	0.05	
			velocity	8.49	8.53	8.51	8.49	8.53	
					100.0				
Martins, Lorraine (BRA) (2000)	time	11.86	23.60	23.60	1 / 8				
	reaction time	0.119	interval	11.74	# of strides	11.86	11.74	0.12	
			velocity	8.43	8.52	8.47	8.43	8.52	
					107.0				

Heat 1

date 18-Jul-22

wind 2.5 m/s

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

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Jackson, Shericka (JAM) (1994)	time		11.31		22.33	22.33	5 / 1			
	reaction time	0.164	interval		11.02		# of strides	11.31	11.02	0.29
			velocity	8.84	9.07	8.96	93.7	8.84	9.07	
Suarez, Gabriela Anahi (ECU) (2001)	time		11.57		22.56	22.56	2 / 2			
	reaction time	0.129	interval		10.99		# of strides	11.57	10.99	0.58
			velocity	8.64	9.10	8.87	99.0	8.64	9.10	
Kaddari, Dalia (ITA) (2001)	time		11.60		22.75	22.75	4 / 3			
	reaction time	0.143	interval		11.15		# of strides	11.60	11.15	0.45
			velocity	8.62	8.97	8.79	97.0	8.62	8.97	
Wessolly, Jessica-Bianca (GER) (1995)	time		11.73		22.87	22.87	6 / 4			
	reaction time	0.159	interval		11.14		# of strides	11.73	11.14	0.59
			velocity	8.53	8.98	8.75	96.0	8.53	8.98	
Chukwuma, Rosemary (NGR) (1997)	time		11.68		22.93	22.93	3 / 5			
	reaction time	0.189	interval		11.25		# of strides	11.68	11.25	0.43
			velocity	8.56	8.89	8.72	101.0	8.56	8.89	
Odiog, Ofonime (BRN) (1997)	time		11.61		22.98	22.98	8 / 6			
	reaction time	0.157	interval		11.37		# of strides	11.61	11.37	0.24
			velocity	8.61	8.80	8.70	96.0	8.61	8.80	
Safronova, Olga (KAZ) (1991)	time		11.58		23.50	23.50	7 / 7			
	reaction time	0.108	interval		11.92		# of strides	11.58	11.92	-0.34
			velocity	8.64	8.39	8.51	96.7	8.64	8.39	

Heptathlon - Heat 2

date 17-Jul-22

wind 1.4 m/s

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

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hall, Anna (USA) (2001)	time		11.81		23.08	23.08	4 / 1			
	reaction time	0.147	interval		11.27	PB	# of strides	11.81	11.27	0.54
			velocity	8.47	8.87	8.67	91.2	8.47	8.87	
Johnson-Thompson, Katarina (GBR) (2009)	time		11.99		23.62	23.62	2 / 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	0.145	interval		11.63		# of strides	11.99	11.63	0.36
		velocity	8.34	8.60	8.47	90.2	8.34	8.60	
Vetter, Anouk (NED) (1993)	time		12.18	23.73	23.73	8 / 3			
reaction time	0.168	interval		11.55		# of strides	12.18	11.55	0.63
		velocity	8.21	8.66	8.43	95.0	8.21	8.66	
Sulek, Adrianna (POL) (1999)	time		12.20	23.77	23.77	5 / 4			
reaction time	0.167	interval		11.57	PB	# of strides	12.20	11.57	0.63
		velocity	8.20	8.64	8.41	99.5	8.20	8.64	
Vidts, Noor (BEL) (1996)	time		12.26	23.92	23.92	7 / 5			
reaction time	0.166	interval		11.66		# of strides	12.26	11.66	0.60
		velocity	8.16	8.58	8.36	94.0	8.16	8.58	
Atherley, Michelle (USA) (1995)	time		12.09	23.97	23.97	1 / 6			
reaction time	0.134	interval		11.88		# of strides	12.09	11.88	0.21
		velocity	8.27	8.42	8.34	91.0	8.27	8.42	
Weißenberg, Sophie (GER) (1999)	time		12.20	24.06	24.06	3 / 7			
reaction time	0.152	interval		11.86		# of strides	12.20	11.86	0.34
		velocity	8.20	8.43	8.31	93.0	8.20	8.43	
Williams, Kendell (USA) (1995)	time		12.63	25.27	25.27	6 / 8			
reaction time	0.153	interval		12.64		# of strides	12.63	12.64	-0.01
		velocity	7.92	7.91	7.91		7.92	7.91	

Heptathlon - Heat 1

date 17-Jul-22 wind 1.5 m/s *Timing by Seiko (2022) - world athletics championships race analysis*

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kälin, Annik (SUI) (2000)	time			12.03		24.05	24.05	8 / 1			
reaction time	0.142	interval				12.02		# of strides	12.03	12.02	0.01
		velocity		8.31		8.32	8.32	101.0	8.31	8.32	
Thiam, Nafissatou (BEL) (1994)	time			12.35		24.39	24.39	2 / 2			
reaction time	0.138	interval				12.04		# of strides	12.35	12.04	0.31
		velocity		8.10		8.31	8.20	91.0	8.10	8.31	
Oosterwegel, Emma (NED) (1991)	time			12.58		24.43	24.43	3 / 3			
reaction time	0.198	interval				11.85		# of strides	12.58	11.85	0.73
		velocity		7.95		8.44	8.19	96.5	7.95	8.44	
Ligarska, Paulina (POL) (1996)	time			12.50		24.65	24.65	5 / 4			
reaction time	0.159	interval				12.15	PB	# of strides	12.50	12.15	0.35
		velocity		8.00		8.23	8.11	88.0	8.00	8.23	
Conte, Claudia (ESP) (1999)	time			12.45		24.77	24.77	4 / 5			
reaction time	0.163	interval				12.32	PB	# of strides	12.45	12.32	0.13
		velocity		8.03		8.12	8.07	100.0	8.03	8.12	
Krizsán, Xénia (HUN) (1993)	time			12.53		24.82	24.82	6 / 6			
reaction time	0.143	interval				12.29		# of strides	12.53	12.29	0.24
		velocity		7.98		8.14	8.06	93.2	7.98	8.14	
Zamzow-Mahler, Ashtin (USA) (1992)	time			12.25		25.15	25.15	7 / 7			
reaction time	0.170	interval				12.90		# of strides	12.25	12.90	-0.65
		velocity		8.16		7.75	7.95	102.0	8.16	7.75	

2022 Bauhaus Galan (Stockholm, SWE)**FINAL**

date 30-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
Asher-Smith, Dina (GBR) (1995)	time		6.10	11.15	16.47	22.37	22.37	5 / 1			
reaction time	0.158	interval		5.05	5.32	5.90		# of strides	11.15	11.22	-0.07
		velocity	8.20	9.90	9.40	8.47	8.94	95.0	8.97	8.91	
Kambundji, Mujinga (SUI) (1992)	time		6.17	11.23	16.54	22.37	22.37	6 / 2			
reaction time	0.129	interval		5.06	5.31	5.83		# of strides	11.23	11.14	0.09

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

	velocity	8.10	9.88	9.42	8.58	8.94	100.0	8.90	8.98	
Karstoft, Ida (DEN) (1995)	time	6.37	11.51	16.95	22.90	22.90	7 / 3			
	reaction time	0.176	interval	5.14	5.44	5.95	# of strides	11.51	11.39	0.12
	velocity	7.85	9.73	9.19	8.40	8.73	91.0	8.69	8.78	
Gaither, TyNia (BAH) (1993)	time	6.35	11.53	17.01	23.06	23.06	4 / 4			
	reaction time	0.156	interval	5.18	5.48	6.05	# of strides	11.53	11.53	0.00
	velocity	7.87	9.65	9.12	8.26	8.67	104.0	8.67	8.67	
Bass, Gina (GAM) (1995)	time	6.31	11.49	17.04	23.31	23.31	3 / 5			
	reaction time	0.152	interval	5.18	5.55	6.27	# of strides	11.49	11.82	-0.33
	velocity	7.92	9.65	9.01	7.97	8.58	103.7	8.70	8.46	
Del Ponte, Ajla (SUI) (1996)	time	6.32	11.50	17.12	23.41	23.41	2 / 6			
	reaction time	0.140	interval	5.18	5.62	6.29	# of strides	11.50	11.91	-0.41
	velocity	7.91	9.65	8.90	7.95	8.54	101.0	8.70	8.40	
Henriksson, Julia (SWE) (2000)	time	6.52	11.83	17.41	23.57	23.57	8 / 7			
	reaction time	0.186	interval	5.31	5.58	6.16	# of strides	11.83	11.74	0.09
	velocity	7.67	9.42	8.96	8.12	8.49	99.0	8.45	8.52	
Lilja, Lisa (SWE) (1996)	time	6.55	11.94	17.61	23.78	23.78	1 / 8			
	reaction time	0.142	interval	5.39	5.67	6.17	# of strides	11.94	11.84	0.10
	velocity	7.63	9.28	8.82	8.10	8.41	100.0	8.38	8.45	

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

date 09-Jun-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
Jackson, Shericka (JAM) (1994)	time	6.19	11.18	16.35	21.91	21.91	4 / 1			
	reaction time	0.158	interval	4.99	5.17	5.56	# of strides	11.18	10.73	0.45
	velocity	8.08	10.02	9.67	8.99	9.13	95.0	8.94	9.32	
Thompson-Herah, Elaine (JAM)	time	6.20	11.16	16.45	22.25	22.25	6 / 2			
	reaction time	0.176	interval	4.96	5.29	5.80	# of strides	11.16	11.09	0.07
	velocity	8.06	10.08	9.45	8.62	8.99	99.0	8.96	9.02	
Asher-Smith, Dina (GBR) (1995)	time	6.15	11.21	16.50	22.27	22.27	5 / 3			
	reaction time	0.156	interval	5.06	5.29	5.77	# of strides	11.21	11.06	0.15
	velocity	8.13	9.88	9.45	8.67	8.98	95.2	8.92	9.04	
Miller-Uibo, Shaunae (BAH) (19)	time	6.40	11.53	16.81	22.48	22.48	7 / 4			
	reaction time	0.142	interval	5.13	5.28	5.67	# of strides	11.53	10.95	0.58
	velocity	7.81	9.75	9.47	8.82	8.90	89.7	8.67	9.13	
Ta Lou, Marie-Josée (CIV) (1988)	time	6.30	11.46	16.86	22.77	22.77	2 / 5			
	reaction time	0.182	interval	5.16	5.40	5.91	# of strides	11.46	11.31	0.15
	velocity	7.94	9.69	9.26	8.46	8.78	101.2	8.73	8.84	
Kambundji, Mujinga (SUI) (1992)	time	6.26	11.43	16.88	22.80	22.80	3 / 6			
	reaction time	0.147	interval	5.17	5.45	5.92	# of strides	11.43	11.37	0.06
	velocity	7.99	9.67	9.17	8.45	8.77	101.0	8.75	8.80	
Felix, Allyson (USA) (1985)	time	6.36	11.53	16.99	22.97	22.97	8 / 7			
	reaction time	0.159	interval	5.17	5.46	5.98	# of strides	11.53	11.44	0.09
	velocity	7.86	9.67	9.16	8.36	8.71	94.0	8.67	8.74	
Kaddari, Dalia (ITA) (2001)	time	6.44	11.66	17.22	23.29	23.29	9 / 8			
	reaction time	0.148	interval	5.22	5.56	6.07	# of strides	11.66	11.63	0.03
	velocity	7.76	9.58	8.99	8.24	8.59	97.7	8.58	8.60	
Dobbin, Beth (GBR) (1994)	time	6.48	11.81	17.39	23.36	23.36	1 / 9			
	reaction time	0.154	interval	5.33	5.58	5.97	# of strides	11.81	11.55	0.26
	velocity	7.72	9.38	8.96	8.38	8.56	101.0	8.47	8.66	

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

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

National FINAL

date 05-Jun-22

wind 1.1 m/s

Omega Timing (2022) - diamond league race analysis

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lahlali, Salma (MAR) (2003)	time		6.83	12.42	18.27	24.47	24.47	3 / 1			
	reaction time	0.238		5.59	5.85	6.20		# of strides	12.42	12.05	0.37
			7.32	8.94	8.55	8.06	8.17		8.05	8.30	
Nafea, Amal (MAR) (2002)	time		7.08	12.98	19.22	26.13	26.13	8 / 2			
	reaction time	0.183		5.90	6.24	6.91		# of strides	12.98	13.15	-0.17
			7.06	8.47	8.01	7.24	7.65		7.70	7.60	
Rammak, Saida (MAR) (1994)	time		7.03	12.98	19.31	26.14	26.14	5 / 3			
	reaction time	0.172		5.95	6.33	6.83	PB	# of strides	12.98	13.16	-0.18
			7.11	8.40	7.90	7.32	7.65		7.70	7.60	
Dahmani, Ghita (MAR) (2005)	time		7.18	13.19	19.52	26.24	26.24	2 / 4			
	reaction time	0.197		6.01	6.33	6.72		# of strides	13.19	13.05	0.14
			6.96	8.32	7.90	7.44	7.62		7.58	7.66	
El Ouarrat, Salma (MAR) (2002)	time		7.59	13.49	19.74	26.33	26.33	4 / 5			
	reaction time	0.309		5.90	6.25	6.59		# of strides	13.49	12.84	0.65
			6.59	8.47	8.00	7.59	7.60		7.41	7.79	
El Houma, Hiba (MAR) (2005)	time		7.14	13.31	19.73	26.78	26.78	6 / 6			
	reaction time	0.167		6.17	6.42	7.05		# of strides	13.31	13.47	-0.16
			7.00	8.10	7.79	7.09	7.47		7.51	7.42	
Hobaiba, Safae (MAR) (2004)	time		7.38	13.62	20.17	27.33	27.33	7 / 7			
	reaction time	0.196		6.24	6.55	7.16		# of strides	13.62	13.71	-0.09
			6.78	8.01	7.63	6.98	7.32		7.34	7.29	

2022 Japanese Multi-Event National Championships (Akita, JPN)**Heptathlon - FINAL**

date 04-Jun-22

wind 0.9 m/s

Takefu (2023) - performance analysis of heptathletes in the 2022 season

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hemphill, Meg (JPN) (1996)	time		6.93	12.66	18.67	25.21	25.21	5 / 1			
	reaction time			5.73	6.01	6.54		# of strides	12.66	12.55	0.11
			7.22	8.73	8.32	7.65	7.93		7.90	7.97	
Yamasaki, Yuki (JPN) (1995)	time		6.87	12.56	18.64	25.42	25.42	7 / 2			
	reaction time			5.69	6.08	6.78		# of strides	12.56	12.86	-0.30
			7.28	8.79	8.22	7.37	7.87		7.96	7.78	
Odama, Karin (JPN) (1999)	time		7.08	12.90	19.12	26.06	26.06	9 / 4			
	reaction time			5.82	6.22	6.94		# of strides	12.90	13.16	-0.26
			7.06	8.59	8.04	7.20	7.67		7.75	7.60	

2022 Prefontaine Classic (Eugene, OR)**FINAL**

date 28-May-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
Fraser-Pryce, Shelly-Ann (JAM)	time		6.22	11.31	16.63	22.41	22.41	5 / 1			
	reaction time	0.155		5.09	5.32	5.78		# of strides	11.31	11.10	0.21
			8.04	9.82	9.40	8.65	8.92	98.5	8.84	9.01	
Brown, Brittany (USA) (1995)	time		6.34	11.57	16.99	22.74	22.74	6 / 2			
	reaction time	0.151		5.23	5.42	5.75		# of strides	11.57	11.17	0.40
			7.89	9.56	9.23	8.70	8.80	99.0	8.64	8.95	
Strachan, Anthonique (BAH) (1992)	time		6.33	11.52	16.98	22.76	22.76	8 / 3			
	reaction time	0.146		5.19	5.46	5.78		# of strides	11.52	11.24	0.28
			7.90	9.63	9.16	8.65	8.79	89.6	8.68	8.90	
Prandini, Jenna (USA) (1992)	time		6.24	11.29	16.73	22.77	22.77	7 / 4			
	reaction time	0.170		5.05	5.44	6.04		# of strides	11.29	11.48	-0.19
			8.01	9.90	9.19	8.28	8.78	99.0	8.86	8.71	
Clark, Tamara (USA) (1999)	time		6.21	11.42	16.87	22.77	22.77	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	0.140	interval	5.21	5.45	5.90		# of strides	11.42	11.35	0.07
		velocity	8.05	9.60	9.17	8.47	8.78	102.5	8.76	8.81
Sturgis, Cambrea (USA) (1999)	time	6.33	11.55	16.96	22.85	22.85	3 / 6			
reaction time	0.170	interval	5.22	5.41	5.89		# of strides	11.55	11.30	0.25
		velocity	7.90	9.58	9.24	8.49	8.75	100.2	8.66	8.85
Kambundji, Mujinga (SUI) (1992)	time	6.32	11.57	17.01	22.88	22.88	4 / 7			
reaction time	0.145	interval	5.25	5.44	5.87		# of strides	11.57	11.31	0.26
		velocity	7.91	9.52	9.19	8.52	8.74	101.2	8.64	8.84
Bryant, Dezerea (USA) (1993)	time	6.21	11.50	17.00	22.91	22.91	1 / 8			
reaction time	0.132	interval	5.29	5.50	5.91		# of strides	11.50	11.41	0.09
		velocity	8.05	9.45	9.09	8.46	8.73	102.0	8.70	8.76
Jackson, Shawnti (USA) (2005)	time	6.34	11.58	17.18	23.28	23.28	9 / 9			
reaction time	0.124	interval	5.24	5.60	6.10		# of strides	11.58	11.70	-0.12
		velocity	7.89	9.54	8.93	8.20	8.59	100.0	8.64	8.55

2022 Doha Diamond League (Doha, QAT)

Final

	date	13-May-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
Thomas, Gabrielle (USA) (1996)	time	6.2	11.1	17.9	21.98	21.98	5 / 1				
reaction time	0.172	interval	4.90	6.80	4.08		# of strides	11.10	10.88	0.22	
		velocity	8.06	10.20	7.35	12.25	9.10	89.2	9.01	9.19	
Jackson, Shericka (JAM) (1994)	time	6.2	11.2	16.4	22.07	22.07	6 / 2				
reaction time	0.165	interval	5.00	5.20	5.67		# of strides	11.20	10.87	0.33	
		velocity	8.06	10.00	9.62	8.82	9.06	94.7	8.93	9.20	
Asher-Smith, Dina (GBR) (1995)	time	6.2	11.3	16.7	22.37	22.37	4 / 3				
reaction time	0.160	interval	5.10	5.40	5.67		# of strides	11.30	11.07	0.23	
		velocity	8.06	9.80	9.26	8.82	8.94	93.5	8.85	9.03	
Clark, Tamara (USA) (1999)	time	6.3	11.5	16.9	22.72	22.72	7 / 4				
reaction time	0.168	interval	5.20	5.40	5.82		# of strides	11.50	11.22	0.28	
		velocity	7.94	9.62	9.26	8.59	8.80	100.0	8.70	8.91	
Strachan, Anthonique (BAH) (1994)	time	6.4	11.6	16.9	22.78	22.78	3 / 5				
reaction time	0.123	interval	5.20	5.30	5.88		# of strides	11.60	11.18	0.42	
		velocity	7.81	9.62	9.43	8.50	8.78	89.5	8.62	8.94	
Dobbin, Beth (GBR) (1994)	time	6.4	11.7	17.4	23.06	23.06	2 / 6				
reaction time	0.164	interval	5.30	5.70	5.66		# of strides	11.70	11.36	0.34	
		velocity	7.81	9.43	8.77	8.83	8.67	99.2	8.55	8.80	
Bryant, Dezerea (USA) (1993)	time	5.7	11.5	17.1	23.12	23.12	8 / 7				
reaction time	0.163	interval	5.80	5.60	6.02		# of strides	11.50	11.62	-0.12	
		velocity	8.77	8.62	8.93	8.31	8.65	102.0	8.70	8.61	
Ray, Shannon (USA) (1995)	time	6.5	11.9	17.4	23.15	23.15	1 / 8				
reaction time	0.158	interval	5.40	5.50	5.75		# of strides	11.90	11.25	0.65	
		velocity	7.69	9.26	9.09	8.70	8.64	104.5	8.40	8.89	

2022 Michitaka Kinami Memorial (Osaka, JPN)

Heptathlon - Heat 1

	date	30-Apr-22	wind	-1.5 m/s	Takefu (2023) - performance analysis of heptathletes in the 2022 season						
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Yamasaki, Yuki (JPN) (1995)	time	6.75	12.34	18.35	24.99	24.99	2 / 1				
reaction time	0.181	interval	5.59	6.01	6.64		# of strides	12.34	12.65	-0.31	
		velocity	7.41	8.94	8.32	7.53	8.00		8.10	7.91	
Hemphill, Meg (JPN) (1996)	time	6.73	12.28	18.32	25.10	25.10	7 / 2				
reaction time	0.165	interval	5.55	6.04	6.78		# of strides	12.28	12.82	-0.54	
		velocity	7.43	9.01	8.28	7.37	7.97		8.14	7.80	

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

date 23-Oct-21

wind 1.1 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
Shimada, Kohane (JPN) (2006)	time	6.68	12.12	17.96	17.96	5 / 1			
	reaction time		interval	5.44	5.84	# of strides	12.12		11.28
	velocity	7.49	9.19	8.56	11.14	79.0	8.25		8.87
Fukuoka, Shion (JPN) (2007)	time	6.79	12.29	18.25	18.25	2 / 2			
	reaction time		interval	5.50	5.96	# of strides	12.29		11.46
	velocity	7.36	9.09	8.39	10.96	76.0	8.14		8.73
Akaska, Miyuu (JPN) (2006)	time	6.82	12.42	18.39	18.39	6 / 3			
	reaction time		interval	5.60	5.97	# of strides	12.42		11.57
	velocity	7.33	8.93	8.38	10.88	75.5	8.05		8.64
Koike, Hina (JPN)	time	6.87	12.52	18.53	18.53	3 / 4			
	reaction time		interval	5.65	6.01	# of strides	12.52		11.66
	velocity	7.28	8.85	8.32	10.79	78.0	7.99		8.58
Seta, Haruna (JPN) (2006)	time	7.01	12.75	18.73	18.73	7 / 5			
	reaction time		interval	5.74	5.98	# of strides	12.75		11.72
	velocity	7.13	8.71	8.36	10.68	75.5	7.84		8.53

2021 Memorial van Damme (Brussels, BEL)**FINAL**

date 03-Sep-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
Mboma, Christine (NAM) (2003)	time	6.4	11.4	16.5	21.84	21.84	5 / 1			
	reaction time	0.185	interval	5.00	5.10	5.34	# of strides	11.40	10.44	0.96
	velocity	7.81	10.00	9.80	9.36	9.16	96.0	8.77	9.58	
Jackson, Shericka (JAM) (1994)	time	6.3	11.3	16.4	21.95	21.95	6 / 2			
	reaction time	0.193	interval	5.00	5.10	5.55	# of strides	11.30	10.65	0.65
	velocity	7.94	10.00	9.80	9.01	9.11	95.5	8.85	9.39	
Asher-Smith, Dina (GBR) (1995)	time	6.2	11.3	16.6	22.04	22.04	3 / 3			
	reaction time	0.179	interval	5.10	5.30	5.44	# of strides	11.30	10.74	0.56
	velocity	8.06	9.80	9.43	9.19	9.07	94.0	8.85	9.31	
Richardson, Sha'Carri (USA) (2012)	time	6.3	11.3	16.7	22.45	22.45	4 / 4			
	reaction time	0.185	interval	5.00	5.40	5.75	# of strides	11.30	11.15	0.15
	velocity	7.94	10.00	9.26	8.70	8.91	101.0	8.85	8.97	
Masilingi, Beatrice (NAM) (2003)	time	6.4	11.5	16.9	22.50	22.50	7 / 5			
	reaction time	0.194	interval	5.10	5.40	5.60	# of strides	11.50	11.00	0.50
	velocity	7.81	9.80	9.26	8.93	8.89	92.0	8.70	9.09	
Vervaeke, Imke (BEL) (1993)	time	6.6	11.9	17.5	23.28	23.28	8 / 6			
	reaction time	0.171	interval	5.30	5.60	5.78	# of strides	11.90	11.38	0.52
	velocity	7.58	9.43	8.93	8.65	8.59	99.2	8.40	8.79	
Kaden, Lilly (GER) (2001)	time	6.5	11.7	17.4	23.40	23.40	1 / 7			
	reaction time	0.206	interval	5.20	5.70	6.00	# of strides	11.70	11.70	0.00
	velocity	7.69	9.62	8.77	8.33	8.55	101.0	8.55	8.55	
Rosius, Rani (BEL) (2000)	time	6.6	11.9	17.7	23.79	23.79	2 / 8			
	reaction time	0.204	interval	5.30	5.80	6.09	# of strides	11.90	11.89	0.01
	velocity	7.58	9.43	8.62	8.21	8.41	100.0	8.40	8.41	

2021 Athletissima (Lausanne, SUI)**FINAL**

date 26-Aug-21

wind 2.5 m/s

Omega Timing (2021) - diamond league race analysis

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
van Hünenstijn, Marije (NED) (1992)	time	6.5	11.8	17.1	22.78	22.78	4 / 1			
	reaction time	0.162	interval	5.30	5.30	5.68	# of strides	11.80	10.98	0.82
	velocity	7.69	9.43	9.43	8.80	8.78	93.7	8.47	9.11	

Schwab, Corinna (GER) (1999)	time	6.5	11.6	17.1	22.97	22.97	5 / 2			
	reaction time	0.150		5.10	5.50	5.87	# of strides	11.60	11.37	0.23
	velocity	7.69	9.80	9.09	8.52	8.71	97.0	8.62	8.80	
Kielbasinska, Anna (POL) (1990)	time	6.5	11.8	17.3	23.08	23.08	6 / 3			
	reaction time	0.135		5.30	5.50	5.78	# of strides	11.80	11.28	0.52
	velocity	7.69	9.43	9.09	8.65	8.67	97.2	8.47	8.87	
Wessolly, Jessica-Bianca (GER)	time	6.5	11.8	17.3	23.11	23.11	3 / 4			
	reaction time	0.151		5.30	5.50	5.81	# of strides	11.80	11.31	0.49
	velocity	7.69	9.43	9.09	8.61	8.65	98.0	8.47	8.84	
Nelson, Ashleigh (GBR) (1991)	time	6.5	11.8	17.3	23.14	23.14	7 / 5			
	reaction time	0.154		5.30	5.50	5.84	# of strides	11.80	11.34	0.46
	velocity	7.69	9.43	9.09	8.56	8.64	97.2	8.47	8.82	
Pointet, Léonie (SUI) (2001)	time	6.5	11.9	17.5	23.49	23.49	2 / 6			
	reaction time	0.137		5.40	5.60	5.99	# of strides	11.90	11.59	0.31
	velocity	7.69	9.26	8.93	8.35	8.51	104.5	8.40	8.63	
Bokesa, Auri Lorena (ESP) (1991)	time	6.9	12.3	17.9	23.64	23.64	8 / 7			
	reaction time	0.196		5.40	5.60	5.74	# of strides	12.30	11.34	0.96
	velocity	7.25	9.26	8.93	8.71	8.46		8.13	8.82	
van Vliet, Leonie (NED) (1993)	time	6.6	12.0	17.8	23.90	23.90	1 / 8			
	reaction time	0.232		5.40	5.80	6.10	# of strides	12.00	11.90	0.10
	velocity	7.58	9.26	8.62	8.20	8.37	96.0	8.33	8.40	

2020 Olympic Games (Tokyo, JPN)**FINAL**

date 03-Aug-21

wind 0.8 m/s

Vazel (2021) - <https://twitter.com/pjvazel/status/1422593785813377036?s=21>

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Thompson-Herah, Elaine (JAM)	time		10.99	16.06	21.53	21.53	21.53	7 / 1			
	reaction time	0.173			5.07	5.47	NR PB	# of strides	10.99	10.54	0.45
	velocity		9.10	9.86	9.14	9.29	96.7	9.10	9.49		
Mboma, Christine (NAM) (2003)	time		11.40	16.50	21.81	21.81	21.81	5 / 2			
	reaction time	0.169			5.10	5.31	AR WJR	# of strides	11.40	10.41	0.99
	velocity		8.77	9.80	9.42	9.17	97.0	8.77	9.61		
Thomas, Gabrielle (USA) (1996)	0.159		no information available				21.87	3 / 3		# of strides	91.0
Fraser-Pryce, Shelly-Ann (JAM)	0.141		no information available				21.94	4 / 4		# of strides	98.0
Ta Lou, Marie-Josée (CIV) (1988)	0.150		no information available				22.27	6 / 5		# of strides	98.0
Masilingi, Beatrice (NAM) (2003)	0.166		no information available				PB 22.28	8 / 6		# of strides	91.7
Kambundji, Mujinga (SUI) (1992)	0.147		no information available				22.30	2 / 7		# of strides	100.5
Miller-Uibo, Shaunae (BAH) (1991)	0.145		no information available				24.00	9 / 8		# of strides	

2021 Japanese High School National Championships (Fukui, JPN)**FINAL**

date 31-Jul-21

wind 2.2 m/s

Shibayama (2021) - national high school and U20 national championships

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Sato, Misato (JPN) (2003)	time		6.21	12.17	17.76	23.71	23.71	4 / 1			
	reaction time	0.155			5.96	5.59	5.95	# of strides	12.17	11.54	0.63
	velocity		8.05	8.39	8.94	8.40	8.44		8.22	8.67	
Onodera, Ayami (JPN) (2003)	time		6.21	12.16	17.78	23.81	23.81	3 / 2			
	reaction time	0.157			5.95	5.62	6.03	# of strides	12.16	11.65	0.51
	velocity		8.05	8.40	8.90	8.29	8.40		8.22	8.58	
Kurashige, Miu (JPN) (2004)	time		6.08	12.03	17.75	23.87	23.87	5 / 3			
	reaction time	0.150			5.95	5.72	6.12	# of strides	12.03	11.84	0.19
	velocity		8.22	8.40	8.74	8.17	8.38		8.31	8.45	
Yamagata, Aiha (JPN) (2005)	time		6.22	12.23	17.90	23.89	23.89	6 / 4			
	reaction time	0.187			6.01	5.67	5.99	# of strides	12.23	11.66	0.57
	velocity		8.04	8.32	8.82	8.35	8.37		8.18	8.58	

Satou, Aoi (JPN) (2004)	time	6.27	12.27	17.93	23.93	23.93	8 / 5				
	reaction time	0.177	interval	6.00	5.66	6.00	# of strides	12.27	11.66	0.61	
			velocity	7.97	8.33	8.83	8.33	8.36	8.15	8.58	
Kurahasi, Miho (JPN) (2004)	time	6.23	12.23	17.94	24.09	24.09	2 / 6				
	reaction time	0.150	interval	6.00	5.71	6.15	# of strides	12.23	11.86	0.37	
			velocity	8.03	8.33	8.76	8.13	8.30	8.18	8.43	
Komatsu, Konomi (JPN) (2004)	time	6.31	12.36	18.07	24.21	24.21	1 / 7				
	reaction time	0.223	interval	6.05	5.71	6.14	# of strides	12.36	11.85	0.51	
			velocity	7.92	8.26	8.76	8.14	8.26	8.09	8.44	
Sakamoto, Minami (JPN) (2006)	time	6.25	12.38	18.13	24.31	24.31	7 / 8				
	reaction time	0.152	interval	6.13	5.75	6.18	# of strides	12.38	11.93	0.45	
			velocity	8.00	8.16	8.70	8.09	8.23	8.08	8.38	

2021 Müller British Grand Prix (Gateshead, GBR)

FINAL

	date	13-Jul-21	wind	0.2 m/s	Omega Timing (2021) - diamond league race analysis						
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Thompson-Herah, Elaine (JAM)	time	6.2	11.4	16.7	22.43	22.43	5 / 1				
	reaction time	0.159	interval	5.20	5.30	5.73	# of strides	11.40	11.03	0.37	
			velocity	8.06	9.62	9.43	8.73	8.92	99.5	8.77	9.07
Williams, Jodie (GBR) (1993)	time	6.4	11.6	16.9	22.60	22.60	7 / 2				
	reaction time	0.143	interval	5.20	5.30	5.70	# of strides	11.60	11.00	0.60	
			velocity	7.81	9.62	9.43	8.77	8.85	94.0	8.62	9.09
Okagbare, Blessing (NGR) (1984)	time	6.5	11.6	16.9	22.61	22.61	8 / 3				
	reaction time	0.160	interval	5.10	5.30	5.71	# of strides	11.60	11.01	0.59	
			velocity	7.69	9.80	9.43	8.76	8.85	92.5	8.62	9.08
Clark, Tamara (USA) (1999)	time	6.3	11.4	16.8	22.62	22.62	4 / 4				
	reaction time	0.157	interval	5.10	5.40	5.82	# of strides	11.40	11.22	0.18	
			velocity	7.94	9.80	9.26	8.59	8.84	101.0	8.77	8.91
Dobbin, Beth (GBR) (1994)	time	6.5	11.7	17.1	22.92	22.92	3 / 5				
	reaction time	0.152	interval	5.20	5.40	5.82	# of strides	11.70	11.22	0.48	
			velocity	7.69	9.62	9.26	8.59	8.73	100.0	8.55	8.91
Bryant, Dezerea (USA) (1993)	time	6.3	11.5	17.0	22.95	22.95	6 / 6				
	reaction time	0.156	interval	5.20	5.50	5.95	# of strides	11.50	11.45	0.05	
			velocity	7.94	9.62	9.09	8.40	8.71	103.0	8.70	8.73
Neita, Daryll (GBR) (1996)	time	6.4	11.7	17.1	23.06	23.06	1 / 7				
	reaction time	0.158	interval	5.30	5.40	5.96	# of strides	11.70	11.36	0.34	
			velocity	7.81	9.43	9.26	8.39	8.67	92.2	8.55	8.80
Morrison, Natasha (JAM) (1992)	time	6.4	11.6	17.1	23.16	23.16	2 / 8				
	reaction time	0.161	interval	5.20	5.50	6.06	# of strides	11.60	11.56	0.04	
			velocity	7.81	9.62	9.09	8.25	8.64	99.0	8.62	8.65

2021 Herculis Meeting International d'Athletisme (Monaco, MON)

FINAL

	date	09-Jul-21	wind	0.7 m/s	Omega Timing (2021) - diamond league race analysis						
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Miller-Uibo, Shaunae (BAH) (1992)	time	6.3	11.4	16.7	22.23	22.23	7 / 1				
	reaction time	0.132	interval	5.10	5.30	5.53	# of strides	11.40	10.83	0.57	
			velocity	7.94	9.80	9.43	9.04	9.00	90.0	8.77	9.23
Ta Lou, Marie-Josée (CIV) (1988)	time	6.2	11.2	16.5	22.25	22.25	5 / 2				
	reaction time	0.144	interval	5.00	5.30	5.75	# of strides	11.20	11.05	0.15	
			velocity	8.06	10.00	9.43	8.70	8.99	99.0	8.93	9.05
Fraser-Pryce, Shelly-Ann (JAM)	time	6.1	11.2	16.5	22.48	22.48	6 / 3				
	reaction time	0.140	interval	5.10	5.30	5.98	# of strides	11.20	11.28	-0.08	
			velocity	8.20	9.80	9.43	8.36	8.90	99.7	8.93	8.87

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

Kambundji, Mujinga (SUI) (1992)	time	6.2	11.4	16.9	22.75	22.75	3 / 4			
reaction time	0.128	interval	5.20	5.50	5.85		# of strides	11.40	11.35	0.05
		velocity	8.06	9.62	9.09	8.55	8.79	101.0	8.77	8.81
Bryant, Dezerea (USA) (1993)	time	6.3	11.5	16.9	22.79	22.79	2 / 5			
reaction time	0.148	interval	5.20	5.40	5.89		# of strides	11.50	11.29	0.21
		velocity	7.94	9.62	9.26	8.49	8.78	103.0	8.70	8.86
Clark, Tamara (USA) (1999)	time	6.3	11.5	17.1	22.95	22.95	8 / 6			
reaction time	0.174	interval	5.20	5.60	5.85		# of strides	11.50	11.45	0.05
		velocity	7.94	9.62	8.93	8.55	8.71	101.0	8.70	8.73
Okagbare, Blessing (NGR) (1988)	time	6.4	11.5	17.0	22.98	22.98	4 / 7			
reaction time	0.140	interval	5.10	5.50	5.98		# of strides	11.50	11.48	0.02
		velocity	7.81	9.80	9.09	8.36	8.70	93.2	8.70	8.71

2021 Bauhaus Galan (Stockholm, SWE)**FINAL**

date 04-Jul-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
Jackson, Shericka (JAM) (1994)	time	6.3	11.4	16.5	22.10	22.10	5 / 1			
reaction time	0.159	interval	5.10	5.10	5.60		# of strides	11.40	10.70	0.70
		velocity	7.94	9.80	9.80	8.93	9.05	96.0	8.77	9.35
Ta Lou, Marie-Josée (CIV) (1988)	time	6.2	11.3	16.6	22.36	22.36	6 / 2			
reaction time	0.156	interval	5.10	5.30	5.76		# of strides	11.30	11.06	0.24
		velocity	8.06	9.80	9.43	8.68	8.94	98.2	8.85	9.04
Masilingi, Beatrice (NAM) (2003)	time	6.4	11.6	17.0	22.65	22.65	3 / 3			
reaction time	0.196	interval	5.20	5.40	5.65	NR PB	# of strides	11.60	11.05	0.55
		velocity	7.81	9.62	9.26	8.85	8.83	92.2	8.62	9.05
Dobbin, Beth (GBR) (1994)	time	6.5	11.6	17.1	22.84	22.84	7 / 4			
reaction time	0.151	interval	5.10	5.50	5.74		# of strides	11.60	11.24	0.36
		velocity	7.69	9.80	9.09	8.71	8.76	98.5	8.62	8.90
Akinosun, Morolake (USA) (1999)	time	6.5	11.8	17.2	22.97	22.97	4 / 5			
reaction time	0.161	interval	5.30	5.40	5.77		# of strides	11.80	11.17	0.63
		velocity	7.69	9.43	9.26	8.67	8.71	105.7	8.47	8.95
van Hünenstijn, Marije (NED) (1991)	time	6.6	12.0	17.5	23.28	23.28	1 / 6			
reaction time	0.149	interval	5.40	5.50	5.78		# of strides	12.00	11.28	0.72
		velocity	7.58	9.26	9.09	8.65	8.59	95.0	8.33	8.87
Lilja, Lisa (SWE) (1996)	time	6.6	11.8	17.4	23.39	23.39	8 / 7			
reaction time	0.155	interval	5.20	5.60	5.99	PB	# of strides	11.80	11.59	0.21
		velocity	7.58	9.62	8.93	8.35	8.55	98.0	8.47	8.63
Hjelmer, Moa (SWE) (1990)	time	6.7	12.0	17.6	23.48	23.48	2 / 8			
reaction time	0.164	interval	5.30	5.60	5.88		# of strides	12.00	11.48	0.52
		velocity	7.46	9.43	8.93	8.50	8.52	98.0	8.33	8.71

2021 Chinese National Championships (Chongqing, CHN)**FINAL**

date 27-Jun-21

wind -0.2 m/s

CAA Hurdle Development (2021)

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Ge Manqi (CHN) (1997)	time		11.63	17.08	22.98	22.98	5 / 1			
reaction time	0.169	interval		5.45	5.90		# of strides	11.63	11.35	0.28
		velocity		8.60	9.17	8.47	8.70	95.0	8.60	8.81
Huang Guifen (CHN) (1997)	time		11.95	17.51	23.47	23.47	6 / 2			
reaction time	0.193	interval		5.56	5.96		# of strides	11.95	11.52	0.43
		velocity		8.37	8.99	8.39	8.52	95.5	8.37	8.68
Liang Xiaojing (CHN) (1997)	time		11.84	17.42	23.48	23.48	4 / 3			
reaction time	0.174	interval		5.58	6.06		# of strides	11.84	11.64	0.20

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	8.96	8.25	8.52	104.0	8.45	8.59	
Liao Mengxue (CHN) (1995)	time		12.30	18.17	24.55	24.55	2 / 4			
	reaction time	0.211	interval		5.87	6.38	# of strides	12.30	12.25	0.05
	velocity		8.13	8.52	7.84	8.15	99.0	8.13	8.16	
Kong Lingwei (CHN) (1995)	time		12.55	18.47	25.15	25.15	3 / 5			
	reaction time	0.221	interval		5.92	6.68	# of strides	12.55	12.60	-0.05
	velocity		7.97	8.45	7.49	7.95	99.7	7.97	7.94	

Heat 4

		date	27-Jun-21	wind	0.5 m/s						CAA Hurdle Development (2021)		
				50m	100m	150m	200m	Official Time	Lane / Place		0-100m	100-200m	Differential
Liang Xiaojing (CHN) (1997)	time			6.08	11.96	17.48	23.27	23.27	5 / 1				
	reaction time	0.174	interval		5.88	5.52	5.79	# of strides		11.96	11.31	0.65	
	velocity			8.22	8.50	9.06	8.64	8.59	104.0	8.36	8.84		
Huang Guifen (CHN) (1997)	time			6.16	12.08	17.63	23.50	23.50	4 / 2				
	reaction time	0.235	interval		5.92	5.55	5.87	# of strides		12.08	11.42	0.66	
	velocity			8.12	8.45	9.01	8.52	8.51	95.2	8.28	8.76		
Liu Yinglan (CHN) (2005)	time			6.26	12.33	18.02	23.96	23.96	2 / 3				
	reaction time	0.213	interval		6.07	5.69	5.94	# of strides		12.33	11.63	0.70	
	velocity			7.99	8.24	8.79	8.42	8.35	97.5	8.11	8.60		
Li He (CHN) (2001)	time			6.19	12.21	17.98	24.20	24.20	3 / 4				
	reaction time	0.209	interval		6.02	5.77	6.22	# of strides		12.21	11.99	0.22	
	velocity			8.08	8.31	8.67	8.04	8.26	106.0	8.19	8.34		

Heat 3

		date	27-Jun-21	wind	0.9 m/s						CAA Hurdle Development (2021)		
				50m	100m	150m	200m	Official Time	Lane / Place		0-100m	100-200m	Differential
Tong Zenghuan (CHN) (1995)	time			6.23	12.23	17.88	24.00	24.00	3 / 1				
	reaction time	0.329	interval		6.00	5.65	6.12	# of strides		12.23	11.77	0.46	
	velocity			8.03	8.33	8.85	8.17	8.33	99.7	8.18	8.50		

Heat 2

		date	27-Jun-21	wind	0.4 m/s						CAA Hurdle Development (2021)		
				50m	100m	150m	200m	Official Time	Lane / Place		0-100m	100-200m	Differential
Ge Manqi (CHN) (1997)	time			5.95	11.69	17.22	23.45	23.45	5 / 1				
	reaction time	0.180	interval		5.74	5.53	6.23	# of strides		11.69	11.76	-0.07	
	velocity			8.40	8.71	9.04	8.03	8.53	104.0	8.55	8.50		
Kong Lingwei (CHN) (1995)	time			6.10	11.97	17.58	23.45	23.45	4 / 2				
	reaction time	0.256	interval		5.87	5.61	5.87	# of strides		11.97	11.48	0.49	
	velocity			8.20	8.52	8.91	8.52	8.53	100.5	8.35	8.71		
Cai Yanting (CHN) (2000)	time			6.08	12.01	17.72	23.45	23.45	6 / 3				
	reaction time	0.165	interval		5.93	5.71	5.73	# of strides		12.01	11.44	0.57	
	velocity			8.22	8.43	8.76	8.73	8.53	97.5	8.33	8.74		

Heat 1

		date	27-Jun-21	wind	0.8 m/s						CAA Hurdle Development (2021)		
				50m	100m	150m	200m	Official Time	Lane / Place		0-100m	100-200m	Differential
Liao Mengxue (CHN) (1995)	time			6.18	12.15	17.87	23.98	23.98	6 / 1				
	reaction time	0.249	interval		5.97	5.72	6.11	# of strides		12.15	11.83	0.32	
	velocity			8.09	8.38	8.74	8.18	8.34	99.5	8.23	8.45		

2021 Japanese National Championships (Osaka, JPN)**FINAL**

		date	27-Jun-21	wind	-1.0 m/s						Takahashi (2021) - race analysis of domestic 200m & U16 150m in olympic season		
				50m	100m	150m	200m	Official Time	Lane / Place		0-100m	100-200m	Differential
Kodama, Mei (JPN) (1999)	time			6.51	11.87	17.43	23.46	23.46	6 / 1				
	reaction time	0.183	interval		5.36	5.56	6.03	# of strides		11.87	11.59	0.28	
	velocity			7.68	9.33	8.99	8.29	8.53	100.0	8.42	8.63		
Tsuruta, Remi (JPN) (1997)	time			6.59	12.01	17.58	23.65	23.65	7 / 2				
	reaction time	0.192	interval		5.42	5.57	6.07	# of strides		12.01	11.64	0.37	
	velocity			7.59	9.23	8.98	8.24	8.46	98.0	8.33	8.59		

Saito, Ami (JPN) (1999)	time	6.48	11.83	17.52	23.70	23.70	5 / 3			
reaction time	0.165	interval	5.35	5.69	6.18		# of strides	11.83	11.87	-0.04
		velocity	7.72	9.35	8.79	8.09	8.44	103.7	8.45	8.42
Iki, Aiko (JPN) (2000)	time	6.62	12.05	15.67	23.79	23.79	8 / 4			
reaction time	0.190	interval	5.43	3.62	8.12		# of strides	12.05	11.74	0.31
		velocity	7.55	9.21	13.81	6.16	8.41	100.5	8.30	8.52

2021 Japanese U20 National Championships (Osaka, JPN)

FINAL

date 27-Jun-21 wind -0.4 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
Sato, Misato (JPN) (2003)	time	6.80	12.45	18.15	24.25	24.25	4 / 1				
reaction time	0.190	interval	5.65	5.70	6.10	PB	# of strides	12.45	11.80	0.65	
		velocity	7.35	8.85	8.77	8.20	8.25	105.7	8.03	8.47	
Kurashige, Miu (JPN) (2004)	time	6.61	12.16	18.04	24.43	24.43	6 / 2				
reaction time	0.170	interval	5.55	5.88	6.39	PB	# of strides	12.16	12.27	-0.11	
		velocity	7.56	9.01	8.50	7.82	8.19	103.2	8.22	8.15	
Kurahasi, Miho (JPN) (2004)	time	6.73	12.27	18.20	24.72	24.72	5 / 3				
reaction time	0.160	interval	5.54	5.93	6.52		# of strides	12.27	12.45	-0.18	
		velocity	7.43	9.03	8.43	7.67	8.09	99.0	8.15	8.03	
Gamo, Marin (JPN) (2003)	time	6.86	12.49	18.41	24.84	24.84	9 / 4				
reaction time	0.147	interval	5.63	5.92	6.43		# of strides	12.49	12.35	0.14	
		velocity	7.29	8.88	8.45	7.78	8.05	105.5	8.01	8.10	

2020 USA Olympic Trials (Eugene, OR)

FINAL

date 26-Jun-21 wind 1.3 m/s Vazel (2021) - <https://twitter.com/pjvazel/status/1409396275791994886?s=21>

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Thomas, Gabrielle (USA) (1996)	time	11.12				21.61	21.61	6 / 1			
reaction time	0.173	interval				10.49	PB	# of strides	11.12	10.49	0.63
		velocity				9.53	9.25	90.0	8.99	9.53	

2020 Chinese Olympic Trials (Shaoxing, CHN)

FINAL

date 13-Jun-21 wind 0.2 m/s CAA Hurdle Development (2021)

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Huang Guifen (CHN) (1997)	time		11.91			23.53	23.53	5 / 1			
reaction time	0.202	interval				11.62		# of strides	11.91	11.62	0.29
		velocity	8.40			8.61	8.50	97.0	8.40	8.61	
Kong Lingwei (CHN) (1995)	time		11.89			23.58	23.58	3 / 2			
reaction time	0.211	interval				11.69		# of strides	11.89	11.69	0.20
		velocity	8.41			8.55	8.48	102.0	8.41	8.55	
Tong Zenghuan (CHN) (1995)	time		12.00			23.71	23.71	4 / 3			
reaction time	0.245	interval				11.71		# of strides	12.00	11.71	0.29
		velocity	8.33			8.54	8.44	100.2	8.33	8.54	
Cai Yanting (CHN) (2000)	time		11.93			23.82	23.82	8 / 5			
reaction time	0.151	interval				11.89		# of strides	11.93	11.89	0.04
		velocity	8.38			8.41	8.40	98.0	8.38	8.41	
Feng Lulu (CHN) (2000)	time		12.00			24.20	24.20	1 / 5			
reaction time	0.188	interval				12.20		# of strides	12.00	12.20	-0.20
		velocity	8.33			8.20	8.26	108.0	8.33	8.20	

Heat 2

date 12-Jun-21 wind -0.4 m/s CAA Hurdle Development (2021)

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Huang Guifen (CHN) (1997)	time		11.80			23.41	23.41	6 / 1			
reaction time	0.176	interval				11.61		# of strides	11.80	11.61	0.19
		velocity	8.47			8.61	8.54	97.0	8.47	8.61	
Tong Zenghuan (CHN) (1995)	time		11.73			23.71	23.71	3 / 2			
reaction time	0.218	interval				11.98		# of strides	11.73	11.98	-0.25

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

	velocity	8.53	8.35	8.44	101.0	8.53	8.35	
Cai Yanting (CHN) (2000)	time	11.90	23.91	23.91	5 / 3			
reaction time	0.154 interval		12.01		# of strides	11.90	12.01	-0.11
	velocity	8.40	8.33	8.36	99.0	8.40	8.33	
Feng Lulu (CHN) (2000)	time	11.95	24.34	24.34	4 / 4			
reaction time	0.158 interval		12.39		# of strides	11.95	12.39	-0.44
	velocity	8.37	8.07	8.22	108.2	8.37	8.07	
Zhu Cuiwei (CHN) (2000)	time	12.01	24.71	24.71	1 / 5			
reaction time	0.172 interval		12.70		# of strides	12.01	12.70	-0.69
	velocity	8.33	7.87	8.09	106.5	8.33	7.87	
Huang Ziting (CHN) (2003)	time	12.68	25.31	25.31	8 / 6			
reaction time	0.156 interval		12.63		# of strides	12.68	12.63	0.05
	velocity	7.89	7.92	7.90		7.89	7.92	

Heat 1

	date	12-Jun-21	wind	-0.2 m/s	CAA Hurdle Development (2021)						
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Liang Xiaojing (CHN) (1997)	time		11.63	17.16	23.40	23.40	5 / 1				
reaction time	0.156 interval			5.53	6.24		# of strides	11.63	11.77	-0.14	
	velocity		8.60	9.04	8.01	8.55	107.0	8.60	8.50		
Kong Lingwei (CHN) (1995)	time		11.78	17.27	23.46	23.46	6 / 2				
reaction time	0.245 interval			5.49	6.19		# of strides	11.78	11.68	0.10	
	velocity		8.49	9.11	8.08	8.53	102.0	8.49	8.56		
Li Yuting (CHN) (2002)	time		11.81	17.29	23.63	23.63	8 / 3				
reaction time	0.175 interval			5.48	6.34	PB	# of strides	11.81	11.82	-0.01	
	velocity		8.47	9.12	7.89	8.46	93.0	8.47	8.46		
Ge Manqi (CHN) (1997)	time		11.78	17.50	23.95	23.95	4 / 4				
reaction time	0.163 interval			5.72	6.45		# of strides	11.78	12.17	-0.39	
	velocity		8.49	8.74	7.75	8.35	93.2	8.49	8.22		
Zhu Cuiyan (CHN) (2000)	time		12.14		24.59	24.59	3 / 5				
reaction time	0.199 interval				12.45		# of strides	12.14	12.45	-0.31	
	velocity		8.24		8.03	8.13	104.5	8.24	8.03		
Yuan Qiqi (CHN) (1995)	time		12.43		25.30	25.30	2 / 6				
reaction time	0.199 interval				12.87		# of strides	12.43	12.87	-0.44	
	velocity		8.05		7.77	7.91	119.7	8.05	7.77		
Gu Zihan (CHN) (2001)	time		12.75		25.82	25.82	1 / 7				
reaction time	0.197 interval				13.07		# of strides	12.75	13.07	-0.32	
	velocity		7.84		7.65	7.75		7.84	7.65		

2021 Golden Gala Pietro Mennea (Florence, ITA)

FINAL

	date	10-Jun-21	wind	0.2 m/s	Omega Timing (2021) - diamond league race analysis						
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Asher-Smith, Dina (GBR) (1995)	time		6.3	11.4	16.7	22.06	22.06	5 / 1			
reaction time	0.136 interval			5.10	5.30	5.36		# of strides	11.40	10.66	0.74
	velocity		7.94	9.80	9.43	9.33	9.07	94.0	8.77	9.38	
Ta Lou, Marie-Josée (CIV) (1988)	time		6.4	11.5	16.9	22.58	22.58	3 / 2			
reaction time	0.147 interval			5.10	5.40	5.68		# of strides	11.50	11.08	0.42
	velocity		7.81	9.80	9.26	8.80	8.86	99.0	8.70	9.03	
Kambundji, Mujinga (SUI) (1992)	time		6.5	11.6	17.2	22.60	22.60	6 / 3			
reaction time	0.147 interval			5.10	5.60	5.40		# of strides	11.60	11.00	0.60
	velocity		7.69	9.80	8.93	9.26	8.85	100.0	8.62	9.09	
Kaddari, Dalia (ITA) (2001)	time		6.7	11.8	17.3	22.86	22.86	7 / 4			
reaction time	0.158 interval			5.10	5.50	5.56	PB	# of strides	11.80	11.06	0.74
	velocity		7.46	9.80	9.09	8.99	8.75	96.2	8.47	9.04	

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

Dobbin, Beth (GBR) (1994)	time	6.6	11.8	17.3	22.88	22.88	2 / 5				
	reaction time	0.154						# of strides	11.80	11.08	0.72
	velocity	7.58	9.62	9.09	8.96	8.74		98.0	8.47	9.03	
Schippers, Dafne (NED) (1992)	time	6.5	11.6	17.1	23.03	23.03	4 / 6				
	reaction time	0.134						# of strides	11.60	11.43	0.17
	velocity	7.69	9.80	9.09	8.43	8.68		95.0	8.62	8.75	
Hooper, Gloria (ITA) (1992)	time	6.8	12.0	17.5	23.25	23.25	8 / 7				
	reaction time	0.222						# of strides	12.00	11.25	0.75
	velocity	7.35	9.62	9.09	8.70	8.60		97.5	8.33	8.89	
Atcho, Sarah (SUI) (1995)	time	6.8	12.3	18.1	24.43	24.43	1 / 8				
	reaction time	0.145						# of strides	12.30	12.13	0.17
	velocity	7.35	9.09	8.62	7.90	8.19		94.7	8.13	8.24	

2021 Josef Odložil Memorial (Prague, CZE)**FINAL**date 07-Jun-21 wind 1.2 m/s Vazel (2021) - <https://twitter.com/pjvazel/status/1401965630484529154?s=21>

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Mboma, Christine (NAM) (2003)	time	6.8	12.0	17.3	22.67	22.67	5 / 1				
	reaction time	0.166						# of strides	12.00	10.67	1.33
	velocity	7.35	9.62	9.43	9.31	8.82		98.0	8.33	9.37	

2021 Shimane High School Championships (Honshu, JPN)**FINAL**

date 30-May-21 wind 2.9 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	
石倉 珠妃	time	12.91	19.06	25.59	25.59	25.59	6 / 1				
	reaction time							# of strides	12.91	12.68	0.23
	velocity	7.75	8.13	7.66	7.82	7.82			7.75	7.89	
持田 かのん	time	12.94	19.21	25.83	25.83	25.83	3 / 2				
	reaction time							# of strides	12.94	12.89	0.05
	velocity	7.73	7.97	7.55	7.74	7.74			7.73	7.76	
金子 継	time	13.07	19.52	26.31	26.31	26.31	4 / 3				
	reaction time							# of strides	13.07	13.24	-0.17
	velocity	7.65	7.75	7.36	7.60	7.60			7.65	7.55	
榊原 そら	time	13.29	19.66	26.34	26.34	26.34	2 / 4				
	reaction time							# of strides	13.29	13.05	0.24
	velocity	7.52	7.85	7.49	7.59	7.59			7.52	7.66	
松村 愛	time	13.31	19.68	26.45	26.45	26.45	7 / 5				
	reaction time							# of strides	13.31	13.14	0.17
	velocity	7.51	7.85	7.39	7.56	7.56			7.51	7.61	
角橋 花南	time	13.23	19.69	26.57	26.57	26.57	1 / 6				
	reaction time							# of strides	13.23	13.34	-0.11
	velocity	7.56	7.74	7.27	7.53	7.53			7.56	7.50	
山尾 美来	time	13.21	19.69	26.57	26.57	26.57	5 / 7				
	reaction time							# of strides	13.21	13.36	-0.15
	velocity	7.57	7.72	7.27	7.53	7.53			7.57	7.49	
増村 小雪	time	13.71	20.07	26.91	26.91	26.91	8 / 8				
	reaction time							# of strides	13.71	13.20	0.51
	velocity	7.29	7.86	7.31	7.43	7.43			7.29	7.58	

2021 Ready Steady Tokyo (Tokyo, JPN)**FINAL**

date 09-May-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	
Hosoya, Yumi (JPN) (1995)	time	6.58	12.05	17.75	23.88	23.88	7 / 1				
	reaction time	0.160						# of strides	12.05	11.83	0.22
	velocity	7.60	9.14	8.77	8.16	8.38		104.2	8.30	8.45	

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

Takita, Izumi (JPN) (2002)	time	6.70	12.19	17.86	23.99	23.99	5 / 2				
	reaction time	0.133	interval	5.49	5.67	6.13	PB	# of strides	12.19	11.80	0.39
			velocity	7.46	9.11	8.82	8.16	8.34	104.7	8.20	8.47
Miyatake, Abidarari (JPN) (2002)	time	6.71	12.26	18.04	24.23	24.23	8 / 3				
	reaction time	0.176	interval	5.55	5.78	6.19	PB	# of strides	12.26	11.97	0.29
			velocity	7.45	9.01	8.65	8.08	8.25	96.0	8.16	8.35

2020 Japanese U20 National Championships (Hiroshima, JPN)

FINAL

	date	25-Oct-20	wind	1.7 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
Itoabigeiru, Fuka (JPN) (2001)	time	6.67	12.21	17.96	24.15	24.15	3 / 1				
	reaction time	0.163	interval	5.54	5.75	6.19		# of strides	12.21	11.94	0.27
			velocity	7.50	9.03	8.70	8.08	8.28	105.3	8.19	8.38
Miyatake, Abidarari (JPN) (2002)	time	6.90	12.49	18.32	24.29	24.29	8 / 2				
	reaction time	0.164	interval	5.59	5.83	5.97		# of strides	12.49	11.80	0.69
			velocity	7.25	8.94	8.58	8.38	8.23	101.0	8.01	8.47
Kageyama, Sakiho (JPN) (2002)	time	6.70	12.31	18.07	24.40	24.40	5 / 3				
	reaction time	0.151	interval	5.61	5.76	6.33		# of strides	12.31	12.09	0.22
			velocity	7.46	8.91	8.68	7.90	8.20	114.7	8.12	8.27
Kawasaki, Natsumi (JPN) (2001)	time	6.89	12.58	18.51	24.71	24.71	1 / 4				
	reaction time	0.221	interval	5.69	5.93	6.20		# of strides	12.58	12.13	0.45
			velocity	7.26	8.79	8.43	8.06	8.09	106.5	7.95	8.24
Miura, Yuna (JPN) (2002)	time	6.79	12.47	18.43	24.89	24.89	2 / 5				
	reaction time	0.188	interval	5.68	5.96	6.46		# of strides	12.47	12.42	0.05
			velocity	7.36	8.80	8.39	7.74	8.04	107.8	8.02	8.05
Kato, Shiori (JPN) (2001)	time	6.85	12.66	18.77	25.20	25.20	4 / 6				
	reaction time	0.187	interval	5.81	6.11	6.43		# of strides	12.66	12.54	0.12
			velocity	7.30	8.61	8.18	7.78	7.94	108.4	7.90	7.97

2020 Japanese High School National Championships (Hiroshima, JPN)

A FINAL

	date	25-Oct-20	wind	4.3 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
Ishikawa, Yu (JPN) (2002)	time	6.71	12.21	17.85	23.82	23.82	5 / 1				
	reaction time	0.181	interval	5.50	5.64	5.97		# of strides	12.21	11.61	0.60
			velocity	7.45	9.09	8.87	8.38	8.40	101.0	8.19	8.61
Adachi, Marin (JPN) (2003)	time	6.67	12.15	17.84	23.96	23.96	3 / 2				
	reaction time	0.164	interval	5.48	5.69	6.12		# of strides	12.15	11.81	0.34
			velocity	7.50	9.12	8.79	8.17	8.35	109.1	8.23	8.47
Aoyama, Hanae (JPN) (2002)	time	6.71	12.26	17.89	24.01	24.01	4 / 3				
	reaction time	0.180	interval	5.55	5.63	6.12		# of strides	12.26	11.75	0.51
			velocity	7.45	9.01	8.88	8.17	8.33	101.6	8.16	8.51
治武 杏祈	time	6.91	12.60	18.34	24.36	24.36	8 / 4				
	reaction time	0.186	interval	5.69	5.74	6.02		# of strides	12.60	11.76	0.84
			velocity	7.24	8.79	8.71	8.31	8.21	104.5	7.94	8.50
遠山 侑里	time	6.74	12.43	18.22	24.37	24.37	1 / 5				
	reaction time	0.180	interval	5.69	5.79	6.15		# of strides	12.43	11.94	0.49
			velocity	7.42	8.79	8.64	8.13	8.21	108.9	8.05	8.38
藏重 みう	time	6.75	12.42	18.21	24.40	24.40	6 / 6				
	reaction time	0.165	interval	5.67	5.79	6.19		# of strides	12.42	11.98	0.44
			velocity	7.41	8.82	8.64	8.08	8.20	104.0	8.05	8.35

2020 Japanese National Championships (Niigata, JPN)

FINAL

date 03-Oct-20 wind -0.1 m/s *Hirokawa (2020) - research on athlete performance and technique- 2020 data book*

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
Tsuruta, Remi (JPN) (1997)	time	6.46	11.74	17.22	23.17	23.17	7 / 1			<i>Takahasi (2020)</i>
	reaction time	0.154								
	interval		5.28	5.48	5.95	PB	# of strides	11.74	11.43	0.31
	velocity	7.74	9.47	9.12	8.40	8.63	98.5	8.52	8.75	
Kodama, Mei (JPN) (1999)	time	6.52	11.85	17.45	23.44	23.44	5 / 2			<i>Takahasi (2020)</i>
	reaction time	0.152								
	interval		5.33	5.60	5.99	PB	# of strides	11.85	11.59	0.26
	velocity	7.67	9.38	8.93	8.35	8.53	98.5	8.44	8.63	
Oishi, Sayaka (JPN) (1991)	time	6.57	11.88	17.54	23.78	23.78	6 / 3			<i>Takahasi (2020)</i>
	reaction time	0.153								
	interval		5.31	5.66	6.24	PB	# of strides	11.88	11.90	-0.02
	velocity	7.61	9.42	8.83	8.01	8.41	100.0	8.42	8.40	
Saito, Ami (JPN) (1999)	time	6.61	12.05	17.78	23.86	23.86	4 / 4			<i>Takahasi (2020)</i>
	reaction time	0.150								
	interval		5.44	5.73	6.08		# of strides	12.05	11.81	0.24
	velocity	7.56	9.19	8.73	8.22	8.38	103.2	8.30	8.47	
Aoyama, Seika (JPN) (1996)	time	6.74	12.29	18.07	24.28	24.28	2 / 6			<i>Hirokawa (2020)</i>
	reaction time	0.185								
	interval		5.55	5.78	6.21		# of strides	12.29	11.99	0.30
	velocity	7.42	9.01	8.65	8.05	8.24	104.0	8.14	8.34	
Takashima, Saki (JPN) (2002)	time	6.80	12.37	18.15	24.35	24.35	3 / 8			<i>Hirokawa (2020)</i>
	reaction time	0.193								
	interval		5.57	5.78	6.20		# of strides	12.37	11.98	0.39
	velocity	7.35	8.98	8.65	8.06	8.21	104.0	8.08	8.35	

2020 Japanese Multi-Event National Championships (Nagano, JPN)

Heptathlon - Heat 3

date 26-Sep-20 wind 1.1 m/s *Matsubayashi (2020) - research athlete performance technique- 2020 databook*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Yamasaki, Yuki (JPN) (1995)	time	6.78	12.42	18.34	24.81	24.81	5 / 1			
	reaction time									
	interval		5.64	5.92	6.47		# of strides	12.42	12.39	0.03
	velocity	7.37	8.87	8.45	7.73	8.06		8.05	8.07	
Hemphill, Megu (JPN) (1996)	time	6.84	12.54	18.58	25.27	25.27	7 / 3			
	reaction time									
	interval		5.70	6.04	6.69		# of strides	12.54	12.73	-0.19
	velocity	7.31	8.77	8.28	7.47	7.91		7.97	7.86	
Odama, Karin (JPN) (1999)	time	6.95	12.83	19.04	25.88	25.88	3 / 5			
	reaction time									
	interval		5.88	6.21	6.84		# of strides	12.83	13.05	-0.22
	velocity	7.19	8.50	8.05	7.31	7.73		7.79	7.66	

2020 All Japan Corporate Championships (Kumagaya, JPN)

FINAL

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

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Oishi, Sayaka (JPN) (1991)	time	6.68	12.11	17.79	23.85	23.85	4 / 1			
	reaction time	0.179								
	interval		5.43	5.68	6.06	PB	# of strides	12.11	11.74	0.37
	velocity	7.49	9.21	8.80	8.25	8.39		8.26	8.52	
Aoyama, Seika (JPN) (1996)	time	6.74	12.23	17.97	24.03	24.03	7 / 2			
	reaction time	0.170								
	interval		5.49	5.74	6.06		# of strides	12.23	11.80	0.43
	velocity	7.42	9.11	8.71	8.25	8.32		8.18	8.47	
Takeishi, Konomi (JPN) (1991)	time	6.78	12.35	18.23	24.43	24.43	9 / 3			
	reaction time	0.146								
	interval		5.57	5.88	6.20		# of strides	12.35	12.08	0.27
	velocity	7.37	8.98	8.50	8.06	8.19		8.10	8.28	
Kuboyama, Haruna (JPN) (1996)	time	6.69	12.27	18.13	24.44	24.44	8 / 4			
	reaction time	0.179								
	interval		5.58	5.86	6.31		# of strides	12.27	12.17	0.10
	velocity	7.47	8.96	8.53	7.92	8.18		8.15	8.22	
Hosoya, Yumi (JPN) (1995)	time	6.69	12.23	18.13	24.47	24.47	5 / 5			
	reaction time	0.174								
	interval		5.54	5.90	6.34		# of strides	12.23	12.24	-0.01
	velocity	7.47	9.03	8.47	7.89	8.17		8.18	8.17	
Hirosawa, Mae (JPN) (1997)	time	6.68	12.28	18.18	24.55	24.55	2 / 6			
	reaction time	0.163								
	interval		5.60	5.90	6.37		# of strides	12.28	12.27	0.01

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

velocity	7.49	8.93	8.47	7.85	8.15	8.14	8.15
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2020 World Athletics Trials (Fuji, JPN)

Race 2		date	06-Sep-20	wind	-0.7 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
Tsuruta, Remi (JPN) (1997)	time			6.58	11.95	17.65	23.81	23.81	5 / 1			
	reaction time	interval			5.37	5.70	6.16	PB	# of strides	11.95	11.86	0.09
		velocity			7.60	9.31	8.77	8.12	8.40		8.37	8.43
Oishi, Sayaka (JPN) (1991)	time			6.56	11.92	17.67	23.91	23.91	4 / 2			
	reaction time	interval			5.36	5.75	6.24		# of strides	11.92	11.99	-0.07
		velocity			7.62	9.33	8.70	8.01	8.36		8.39	8.34
Yoshida, Sayumi (JPN) (1997)	time			6.65	12.04	17.80	24.03	24.03	6 / 3			
	reaction time	interval			5.39	5.76	6.23	PB	# of strides	12.04	11.99	0.05
		velocity			7.52	9.28	8.68	8.03	8.32		8.31	8.34
Ishikawa, Yu (JPN) (2002)	time			6.59	11.98	17.76	24.03	24.03	2 / 4			
	reaction time	interval			5.39	5.78	6.27	PB	# of strides	11.98	12.05	-0.07
		velocity			7.59	9.28	8.65	7.97	8.32		8.35	8.30
Aoyama, Seika (JPN) (1996)	time			6.73	12.22	18.01	24.16	24.16	7 / 5			
	reaction time	interval			5.49	5.79	6.15		# of strides	12.22	11.94	0.28
		velocity			7.43	9.11	8.64	8.13	8.28		8.18	8.38
Yuasa, Kanako (JPN) (1997)	time			6.56	12.07	17.93	24.21	24.21	3 / 6			
	reaction time	interval			5.51	5.86	6.28		# of strides	12.07	12.14	-0.07
		velocity			7.62	9.07	8.53	7.96	8.26		8.29	8.24

2020 Shimane High School Championships (Honshu, JPN)

A FINAL		date	12-Jul-20	wind	2.5 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
森山 凜	time			12.70	18.69	25.15	25.15	25.15	6 / 1			
	reaction time	interval			5.99	6.46			# of strides	12.70	12.45	0.25
		velocity			7.87	8.35	7.74	7.95			7.87	8.03
持田 かのん	time			12.73	18.80	25.29	25.29	25.29	4 / 2			
	reaction time	interval			6.07	6.49			# of strides	12.73	12.56	0.17
		velocity			7.86	8.24	7.70	7.91			7.86	7.96
金子 継	time			12.90	19.18	25.92	25.92	25.92	5 / 3			
	reaction time	interval			6.28	6.74			# of strides	12.90	13.02	-0.12
		velocity			7.75	7.96	7.42	7.72			7.75	7.68
藤原 珠稀	time			13.13	19.45	26.24	26.24	26.24	8 / 4			
	reaction time	interval			6.32	6.79			# of strides	13.13	13.11	0.02
		velocity			7.62	7.91	7.36	7.62			7.62	7.63
山尾 美来	time			13.11	19.52	26.45	26.45	26.45	7 / 5			
	reaction time	interval			6.41	6.93			# of strides	13.11	13.34	-0.23
		velocity			7.63	7.80	7.22	7.56			7.63	7.50
松村 愛	time			13.23	19.64	26.55	26.55	26.55	9 / 6			
	reaction time	interval			6.41	6.91			# of strides	13.23	13.32	-0.09
		velocity			7.56	7.80	7.24	7.53			7.56	7.51
C FINAL		date	12-Jul-20	wind	1.4 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
内部 百笑	time			13.01	19.44	26.35	26.35	26.35	8 / 1			
	reaction time	interval			6.43	6.91			# of strides	13.01	13.34	-0.33
		velocity			7.69	7.78	7.24	7.59			7.69	7.50
榑原 そら	time			13.58	19.96	26.73	26.73	26.73	9 / 2			
	reaction time	interval			6.38	6.77			# of strides	13.58	13.15	0.43
		velocity			7.36	7.84	7.39	7.48			7.36	7.60

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 U18/U20 Championships (Hiroshima, JPN)

U20 FINAL

date 20-Oct-19 wind -0.8 m/s Kijima (2019) - research on athlete performance and technique- 2019 data book

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Mimura, Naomi (JPN)	time		6.80	12.28	17.93	23.98	23.98	3 / 1			
reaction time	0.245	interval		5.48	5.65	6.05		# of strides	12.28	11.70	0.58
		velocity	7.35	9.12	8.85	8.26	8.34	101.0	8.14	8.55	
Kageyama, Sakiho (JPN) (2002)	time		6.59	12.15	17.95	24.20	24.20	5 / 2			
reaction time	0.170	interval		5.56	5.80	6.25		# of strides	12.15	12.05	0.10
		velocity	7.59	8.99	8.62	8.00	8.26	109.0	8.23	8.30	
Iki, Aiko (JPN) (2000)	time		6.78	12.39	18.27	24.50	24.50	4 / 3			
reaction time	0.213	interval		5.61	5.88	6.23		# of strides	12.39	12.11	0.28
		velocity	7.37	8.91	8.50	8.03	8.16	103.2	8.07	8.26	
Fuji, Mio (JPN)	time		6.69	12.30	18.21	24.52	24.52	6 / 4			
reaction time	0.159	interval		5.61	5.91	6.31		# of strides	12.30	12.22	0.08
		velocity	7.47	8.91	8.46	7.92	8.16	101.5	8.13	8.18	
Shuri, Ogi (JPN)	time		6.63	12.25	18.18	24.61	24.61	2 / 5			
reaction time	0.173	interval		5.62	5.93	6.43		# of strides	12.25	12.36	-0.11
		velocity	7.54	8.90	8.43	7.78	8.13	114.5	8.16	8.09	
Adachi, Yuha (JPN) (2002)	time		6.75	12.39	18.31	24.77	24.77	7 / 6			
reaction time	0.171	interval		5.64	5.92	6.46		# of strides	12.39	12.38	0.01
		velocity	7.41	8.87	8.45	7.74	8.07	105.0	8.07	8.08	
Kato, Shiori (JPN) (2001)	time		6.86	12.57	18.60	25.09	25.09	8 / 7			
reaction time	0.183	interval		5.71	6.03	6.49		# of strides	12.57	12.52	0.05
		velocity	7.29	8.76	8.29	7.70	7.97	105.0	7.96	7.99	
Moriyama, Nanae (JPN) (2001)	time		6.88	12.69	18.71	25.30	25.30	1 / 8			
reaction time	0.159	interval		5.81	6.02	6.59		# of strides	12.69	12.61	0.08
		velocity	7.27	8.61	8.31	7.59	7.91	102.0	7.88	7.93	

U18 FINAL

date 20-Oct-19 wind -1.3 m/s Kijima (2019) - research on athlete performance and technique- 2019 data book

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Ishikawa, Yu (JPN) (2002)	time		6.65	12.10	17.97	24.25	24.25	6 / 1			
reaction time	0.177	interval		5.45	5.87	6.28		# of strides	12.10	12.15	-0.05
		velocity	7.52	9.17	8.52	7.96	8.25	100.5	8.26	8.23	
Takita, Shizumi (JPN) (2002)	time		6.61	12.14	18.01	24.29	24.29	3 / 2			
reaction time	0.161	interval		5.53	5.87	6.28		# of strides	12.14	12.15	-0.01
		velocity	7.56	9.04	8.52	7.96	8.23	101.0	8.24	8.23	
Niisaka, Takako (JPN) (2002)	time		6.64	12.14	17.98	24.36	24.36	4 / 3			
reaction time	0.156	interval		5.50	5.84	6.38		# of strides	12.14	12.22	-0.08
		velocity	7.53	9.09	8.56	7.84	8.21	105.5	8.24	8.18	
Uchiyama, Kyoka (JPN) (2003)	time		6.72	12.27	18.19	24.44	24.44	7 / 4			
reaction time	0.175	interval		5.55	5.92	6.25		# of strides	12.27	12.17	0.10
		velocity	7.44	9.01	8.45	8.00	8.18	105.0	8.15	8.22	
Aono, Misaki (JPN) (2003)	time		6.88	12.49	18.41	24.74	24.74	5 / 5			
reaction time	0.174	interval		5.61	5.92	6.33		# of strides	12.49	12.25	0.24
		velocity	7.27	8.91	8.45	7.90	8.08	109.0	8.01	8.16	
Adachi, Marin (JPN) (2003)	time		6.68	12.29	18.31	24.78	24.78	2 / 6			
reaction time	0.151	interval		5.61	6.02	6.47		# of strides	12.29	12.49	-0.20
		velocity	7.49	8.91	8.31	7.73	8.07	115.5	8.14	8.01	
Sato, Chihiro (JPN) (2002)	time		6.88	12.60	18.59	24.90	24.90	1 / 7			
reaction time	0.182	interval		5.72	5.99	6.31		# of strides	12.60	12.30	0.30
		velocity	7.27	8.74	8.35	7.92	8.03	102.0	7.94	8.13	

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

Miyatake, Abidarari (JPN) (2002)	time	6.88	12.59	18.68	25.09	25.09	6 / 8				
	reaction time	0.199	interval	5.71	6.09	6.41	# of strides	12.59	12.50	0.09	
			velocity	7.27	8.76	8.21	7.80	7.97	103.0	7.94	8.00

2019 IAAF World Championships (Doha, QAT)**FINAL**

	date	02-Oct-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
Asher-Smith, Dina (GBR) (1995)	time	6.07	11.05	16.25	21.88	21.88	7 / 1				
	reaction time	0.138	interval	4.98	5.20	5.63	NR PB	# of strides	11.05	10.83	0.22
			velocity	8.24	10.04	9.62	8.88	9.14	92.7	9.05	9.23
Brown, Brittany (USA) (1995)	time	6.28	11.25	16.49	22.22	22.22	6 / 2				
	reaction time	0.228	interval	4.97	5.24	5.73	PB	# of strides	11.25	10.97	0.28
			velocity	7.96	10.06	9.54	8.73	9.00	92.0	8.89	9.12
Kambundji, Mujinga (SUI) (1992)	time	6.26	11.38	16.71	22.51	22.51	4 / 3				
	reaction time	0.150	interval	5.12	5.33	5.80		# of strides	11.38	11.13	0.25
			velocity	7.99	9.77	9.38	8.62	8.88	100.0	8.79	8.98
Annelus, Angie (USA) (1997)		0.199	no information available				22.59	5 / 4		# of strides	93.0
Bryant, Dezerea (USA) (1993)		0.163	no information available				22.63	8 / 5		# of strides	99.7
Bass, Gina (GAM) (1995)		0.162	no information available				22.71	2 / 6		# of strides	99.2
Lalova-Collio, Iveta (BUL) (1984)		0.160	no information available				22.77	3 / 7		# of strides	96.0
Gaither, TyNia (BAH) (1993)		0.152	no information available				22.90	9 / 8		# of strides	

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
Brown, Brittany (USA) (1995)	time		11.47			22.61	22.61	5 / 1			
	reaction time	0.217	interval			11.14		# of strides	11.47	11.14	0.33
			velocity	8.72		8.98	8.85	94.2	8.72	8.98	
Dobbin, Beth (GBR) (1994)	time		11.74			22.92	22.92	4 / 2			
	reaction time	0.146	interval			11.18		# of strides	11.74	11.18	0.56
			velocity	8.52		8.94	8.73	97.2	8.52	8.94	
Jefferson, Kyra (USA) (1994)	time		11.72			22.99	22.99	7 / 3			
	reaction time	0.192	interval			11.27		# of strides	11.72	11.27	0.45
			velocity	8.53		8.87	8.70	97.0	8.53	8.87	
Nelson, Ashleigh (GBR) (1991)	time		11.74			23.22	23.22	6 / 4			
	reaction time	0.171	interval			11.48		# of strides	11.74	11.48	0.26
			velocity	8.52		8.71	8.61	95.2	8.52	8.71	
Wessolly, Jessica-Bianca (GER)	time		11.80			23.24	23.24	2 / 5			
	reaction time	0.179	interval			11.44		# of strides	11.80	11.44	0.36
			velocity	8.47		8.74	8.61	99.5	8.47	8.74	
Tsimanouskaya, Krystsina (BLR)	time		11.65			23.31	23.31	8 / 6			
	reaction time	0.196	interval			11.66		# of strides	11.65	11.66	-0.01
			velocity	8.58		8.58	8.58	101.2	8.58	8.58	
Mitchell, A'Keyla (USA) (1995)	time		11.74			23.58	23.58	9 / 7			
	reaction time	0.192	interval			11.84		# of strides	11.74	11.84	-0.10
			velocity	8.52		8.45	8.48	98.0	8.52	8.45	
Davis, Courtne (USA) (1996)	time		12.02			23.92	23.92	3 / 8			
	reaction time	0.205	interval			11.90		# of strides	12.02	11.90	0.12
			velocity	8.32		8.40	8.36	92.5	8.32	8.40	

2019 Weltklasse (Zürich, SUI)**FINAL**

	date	29-Aug-19	wind	-0.4 m/s	<i>Omega Timing (2019) - diamond league race analysis</i>						
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Miller-Uibo, Shaunae (BAH) (19)	time		6.3	11.3	16.4	21.74	21.74	6 / 1			
	reaction time	0.143	interval	5.0	5.1	5.34	NR	# of strides	11.30	10.44	0.86

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

	velocity	7.94	10.00	9.80	9.36	9.20	90.7	8.85	9.58	
Asher-Smith, Dina (GBR) (1995)	time	6.2	11.1	16.4	22.08	22.08	4 / 2			
	reaction time	0.135		4.9	5.3	5.68	# of strides	11.10	10.98	0.12
	velocity	8.06	10.20	9.43	8.80	9.06	95.2	9.01	9.11	
Thompson, Elaine (JAM) (1992)	time	6.3	11.3	16.6	22.44	22.44	5 / 3			
	reaction time	0.152		5.0	5.3	5.84	# of strides	11.30	11.14	0.16
	velocity	7.94	10.00	9.43	8.56	8.91	98.0	8.85	8.98	
Schippers, Dafne (NED) (1992)	time	6.4	11.4	16.7	22.46	22.46	3 / 4			
	reaction time	0.162		5.0	5.3	5.76	# of strides	11.40	11.06	0.34
	velocity	7.81	10.00	9.43	8.68	8.90	93.5	8.77	9.04	
Kambundji, Mujinga (SUI) (1992)	time	6.4	11.5	16.8	22.58	22.58	7 / 5			
	reaction time	0.164		5.1	5.3	5.78	# of strides	11.50	11.08	0.42
	velocity	7.81	9.80	9.43	8.65	8.86	101.0	8.70	9.03	
Okagbare, Blessing (NGR) (1988)	time	6.5	11.5	16.8	22.62	22.62	8 / 6			
	reaction time	0.159		5.0	5.3	5.82	# of strides	11.50	11.12	0.38
	velocity	7.69	10.00	9.43	8.59	8.84	94.0	8.70	8.99	
Emmanuel, Crystal (CAN) (1991)	time	6.3	11.5	17.0	22.87	22.87	2 / 7			
	reaction time	0.155		5.2	5.5	5.87	# of strides	11.50	11.37	0.13
	velocity	7.94	9.62	9.09	8.52	8.75	99.5	8.70	8.80	
Samuel, Jamile (NED) (1992)	time	6.5	11.7	17.2	23.15	23.15	1 / 8			
	reaction time	0.148		5.2	5.5	5.95	# of strides	11.70	11.45	0.25
	velocity	7.69	9.62	9.09	8.40	8.64	102.0	8.55	8.73	

2019 Müller Grand Prix (Birmingham, GBR)

FINAL

	date	18-Aug-19	wind	0.4 m/s	Omega Timing (2019) - diamond league race analysis						
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Miller-Uibo, Shaunae (BAH) (19)	time	6.4	11.5	16.7	22.24	22.24	6 / 1				
	reaction time	0.128		5.1	5.2	5.54	# of strides	11.50	10.74	0.76	
	velocity	7.81	9.80	9.62	9.03	8.99	91.2	8.70	9.31		
Asher-Smith, Dina (GBR) (1995)	time	6.3	11.4	16.8	22.36	22.36	5 / 2				
	reaction time	0.147		5.1	5.4	5.56	# of strides	11.40	10.96	0.44	
	velocity	7.94	9.80	9.26	8.99	8.94	96.2	8.77	9.12		
Fraser-Pryce, Shelly-Ann (JAM)	time	6.4	11.5	16.8	22.50	22.50	4 / 3				
	reaction time	0.164		5.1	5.3	5.70	# of strides	11.50	11.00	0.50	
	velocity	7.81	9.80	9.43	8.77	8.89	101.5	8.70	9.09		
Schippers, Dafne (NED) (1992)	time	6.4	11.5	16.9	22.81	22.81	7 / 4				
	reaction time	0.173		5.1	5.4	5.91	# of strides	11.50	11.31	0.19	
	velocity	7.81	9.80	9.26	8.46	8.77	94.5	8.70	8.84		
Okagbare, Blessing (NGR) (1988)	time	6.4	11.6	17.0	22.83	22.83	8 / 5				
	reaction time	0.178		5.2	5.4	5.83	# of strides	11.60	11.23	0.37	
	velocity	7.81	9.62	9.26	8.58	8.76	92.7	8.62	8.90		
Bryant, Dezerea (USA) (1993)	time	6.4	11.5	17.0	22.84	22.84	2 / 6				
	reaction time	0.165		5.1	5.5	5.84	# of strides	11.50	11.34	0.16	
	velocity	7.81	9.80	9.09	8.56	8.76	104.0	8.70	8.82		
Chadwick, Payton (USA) (1995)	time	6.8	12.2	17.8	23.71	23.71	1 / 7				
	reaction time	0.262		5.4	5.6	5.91	# of strides	12.20	11.51	0.69	
	velocity	7.35	9.26	8.93	8.46	8.44		8.20	8.69		
Ta Lou, Marie-Josée (CIV) (1988)	time	6.4	11.6	17.1	24.18	24.18	3 / 8				
	reaction time	0.149		5.2	5.5	7.08	# of strides	11.60	12.58	-0.98	
	velocity	7.81	9.62	9.09	7.06	8.27		8.62	7.95		

2019 Japanese National High School Championships (Okinawa, 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 07-Aug-19 wind 1.3 m/s Kota (2019) - 72nd high school champs: JAF scientific committee - biomechanics data

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Ishido, Hina (JPN) (2002)	time		6.45	11.76	17.39	23.67	23.67	6 / 1			
	reaction time	interval		5.31	5.63	6.28	PB	# of strides	11.76	11.91	-0.15
		velocity		7.75	9.42	8.88	7.96	8.45	8.50	8.40	
Takashima, Saki (JPN) (2002)	time		6.69	12.14	17.73	23.76	23.76	3 / 2			
	reaction time	interval		5.45	5.59	6.03	PB	# of strides	12.14	11.62	0.52
		velocity		7.47	9.17	8.94	8.29	8.42	8.24	8.61	
Idoabigeiru, Fuka (JPN) (2001)	time		6.59	11.98	17.61	23.79	23.79	5 / 3			
	reaction time	interval		5.39	5.63	6.18	PB	# of strides	11.98	11.81	0.17
		velocity		7.59	9.28	8.88	8.09	8.41	8.35	8.47	
Kageyama, Sakiho (JPN) (2002)	time		6.65	12.17	17.76	23.82	23.82	4 / 4			
	reaction time	interval		5.52	5.59	6.06	PB	# of strides	12.17	11.65	0.52
		velocity		7.52	9.06	8.94	8.25	8.40	8.22	8.58	
Miura, Yuna (JPN) (2002)	time		6.59	12.08	17.79	24.08	24.08	7 / 5			
	reaction time	interval		5.49	5.71	6.29	PB	# of strides	12.08	12.00	0.08
		velocity		7.59	9.11	8.76	7.95	8.31	8.28	8.33	
Matsunaga, Tomoko (JPN) (2001)	time		6.67	12.23	17.94	24.11	24.11	8 / 6			
	reaction time	interval		5.56	5.71	6.17		# of strides	12.23	11.88	0.35
		velocity		7.50	8.99	8.76	8.10	8.30	8.18	8.42	
Suzuki, Kazuha (JPN) (2001)	time		6.66	12.17	17.95	24.31	24.31	2 / 7			
	reaction time	interval		5.51	5.78	6.36		# of strides	12.17	12.14	0.03
		velocity		7.51	9.07	8.65	7.86	8.23	8.22	8.24	
Oshiro, Akari (JPN) (2001)	time		6.67	12.20	17.93	24.32	24.32	1 / 8			
	reaction time	interval		5.53	5.73	6.39		# of strides	12.20	12.12	0.08
		velocity		7.50	9.04	8.73	7.82	8.22	8.20	8.25	

2019 Chinese World Championships Trials (Shenyang, CHN)

FINAL

date 03-Aug-19 wind 0.2 m/s Jiang (2019) - data analysis women's sprint finals the world championships trials

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Liang Xiaojing (CHN) (1997)	time		6.43	11.66	17.12	22.93	22.93	8 / 1			
	reaction time	interval		5.23	5.46	5.81	PB	# of strides	11.66	11.27	0.39
		velocity		7.78	9.56	9.16	8.61	8.72	8.58	8.87	
Wei Yongli (CHN) (1991)	time		6.49	11.70	17.31	23.46	23.46	3 / 2			
	reaction time	interval		5.21	5.61	6.15		# of strides	11.70	11.76	-0.06
		velocity		7.70	9.60	8.91	8.13	8.53	8.55	8.50	
Huang Guifen (CHN) (1997)	time		6.58	11.84	17.47	23.54	23.54	5 / 3			
	reaction time	interval		5.26	5.63	6.07		# of strides	11.84	11.70	0.14
		velocity		7.60	9.51	8.88	8.24	8.50	8.45	8.55	
Shi Yarong (CHN) (1996)	time		6.57	11.90	17.64	23.84	23.84	7 / 4			
	reaction time	interval		5.33	5.74	6.20	PB	# of strides	11.90	11.94	-0.04
		velocity		7.61	9.38	8.71	8.06	8.39	8.40	8.38	
Kong Lingwei (CHN) (1995)	time		6.57	11.83	17.54	23.85	23.85	4 / 5			
	reaction time	interval		5.26	5.71	6.31		# of strides	11.83	12.02	-0.19
		velocity		7.61	9.51	8.76	7.92	8.39	8.45	8.32	
Zhou Yanbing (CHN) (1996)	time		6.56	12.07	17.95	24.18	24.18	6 / 6			
	reaction time	interval		5.51	5.88	6.23		# of strides	12.07	12.11	-0.04
		velocity		7.62	9.07	8.50	8.03	8.27	8.29	8.26	
Cai Yanting (CHN) (2000)	time		6.78	12.14	17.97	24.36	24.36	1 / 7			
	reaction time	interval		5.36	5.83	6.39		# of strides	12.14	12.22	-0.08
		velocity		7.37	9.33	8.58	7.82	8.21	8.24	8.18	
Qu Haixia (CHN) (1995)	time		6.71	12.10	18.08	24.63	24.63	2 / 8			

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

reaction time	interval	5.39	5.98	6.55	# of strides	12.10	12.53	-0.43
	velocity	7.45	9.28	8.36	7.63	8.12	8.26	7.98

2019 Herculis Meeting International d'Athlétisme (Monaco, MON)**FINAL**

	date	12-Jul-19	wind	0.1 m/s	Omega Timing (2019) - diamond league race analysis						
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Miller-Uibo, Shaunae (BAH) (19)	time		6.3	11.6	16.6	22.09	22.09	6 / 1			
	reaction time	0.195						# of strides	11.60	10.49	1.11
		interval		5.3	5.0	5.49					
		velocity	7.94	9.43	10.00	9.11	9.05	91.2	8.62	9.53	
Thompson, Elaine (JAM) (1992)	time		6.3	11.4	16.7	22.44	22.44	5 / 2			
	reaction time	0.156						# of strides	11.40	11.04	0.36
		interval		5.1	5.3	5.74					
		velocity	7.94	9.80	9.43	8.71	8.91	98.5	8.77	9.06	
Schippers, Dafne (NED) (1992)	time		6.3	11.4	16.7	22.45	22.45	7 / 3			
	reaction time	0.149						# of strides	11.40	11.05	0.35
		interval		5.1	5.3	5.75					
		velocity	7.94	9.80	9.43	8.70	8.91	93.5	8.77	9.05	
Daniels, Teahna (USA) (1997)	time		6.3	11.5	16.9	22.59	22.59	8 / 4			
	reaction time	0.132						# of strides	11.50	11.09	0.41
		interval		5.2	5.4	5.69					
		velocity	7.94	9.62	9.26	8.79	8.85	92.7	8.70	9.02	
Prandini, Jenna (USA) (1992)	time		6.5	11.5	16.9	22.66	22.66	3 / 5			
	reaction time	0.197						# of strides	11.50	11.16	0.34
		interval		5.0	5.4	5.76					
		velocity	7.69	10.00	9.26	8.68	8.83	97.7	8.70	8.96	
Ta Lou, Marie-Josée (CIV) (1988)	time		6.4	11.4	16.9	22.66	22.66	4 / 6			
	reaction time	0.182						# of strides	11.40	11.26	0.14
		interval		5.0	5.5	5.76					
		velocity	7.81	10.00	9.09	8.68	8.83	100.2	8.77	8.88	
Thomas, Gabrielle (USA) (1996)	time		6.6	11.8	17.2	22.99	22.99	2 / 7			
	reaction time	0.183						# of strides	11.80	11.19	0.61
		interval		5.2	5.4	5.79					
		velocity	7.58	9.62	9.26	8.64	8.70	90.2	8.47	8.94	

2019 Athletissima (Lausanne, SUI)**FINAL**

	date	05-Jul-19	wind	1.0 m/s	Omega Timing (2019) - diamond league race analysis						
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Thomas, Gabrielle (USA) (1996)	time		6.4	11.6	17.0	22.69	22.69	6 / 1			
	reaction time	0.144						# of strides	11.60	11.09	0.51
		interval		5.2	5.4	5.69					
		velocity	7.81	9.62	9.26	8.79	8.81	90.5	8.62	9.02	
Williams, Jodie (GBR) (1993)	time		6.4	11.5	16.9	22.75	22.75	4 / 2			
	reaction time	0.142						# of strides	11.50	11.25	0.25
		interval		5.1	5.4	5.85					
		velocity	7.81	9.80	9.26	8.55	8.79	95.2	8.70	8.89	
Strachan, Anthonique (BAH) (1)	time		6.5	11.7	17.1	22.81	22.81	3 / 3			
	reaction time	0.147						# of strides	11.70	11.11	0.59
		interval		5.2	5.4	5.71					
		velocity	7.69	9.62	9.26	8.76	8.77	86.7	8.55	9.00	
Nelson, Ashleigh (GBR) (1991)	time		6.5	11.6	17.1	22.85	22.85	2 / 4			
	reaction time	0.154					PB	# of strides	11.60	11.25	0.35
		interval		5.1	5.5	5.75					
		velocity	7.69	9.80	9.09	8.70	8.75	94.7	8.62	8.89	
Vaičule, Gunta (LAT) (1995)	time		6.7	11.9	17.3	23.08	23.08	8 / 5			
	reaction time	0.192						# of strides	11.90	11.18	0.72
		interval		5.2	5.4	5.78					
		velocity	7.46	9.62	9.26	8.65	8.67		8.40	8.94	
Atcho, Sarah (SUI) (1995)	time		6.5	11.8	17.3	23.41	23.41	7 / 6			
	reaction time	0.139						# of strides	11.80	11.61	0.19
		interval		5.3	5.5	6.11					
		velocity	7.69	9.43	9.09	8.18	8.54		8.47	8.61	
Safronova, Olga (KAZ) (1991)	time		6.5	11.8	17.3	23.53	23.53	5 / 7			
	reaction time	0.143						# of strides	11.80	11.73	0.07
		interval		5.3	5.5	6.23					
		velocity	7.69	9.43	9.09	8.03	8.50	96.5	8.47	8.53	

Wei Yongli (CHN) (1991)	time	6.6	12.0	17.6	23.68	23.68	1 / 8			
reaction time	0.172	interval	5.4	5.6	6.08		# of strides	12.00	11.68	0.32
		velocity	7.58	9.26	8.93	8.22	8.45	97.0	8.33	8.56

2019 Japanese National Championships (Fukuoka, JPN)

FINAL

	date	30-Jun-19	wind	-0.4 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
Kodama, Mei (JPN) (1999)	time	6.55	11.93	17.60	23.80	23.80	7 / 1				
reaction time	0.158	interval	5.38	5.67	6.20	PB	# of strides	11.93	11.87	0.06	
		velocity	7.63	9.29	8.82	8.06	8.40	101.0	8.38	8.42	
Kageyama, Sakiho (JPN) (2002)	time	6.56	12.12	17.84	23.90	23.90	4 / 2				
reaction time	0.162	interval	5.56	5.72	6.06	PB	# of strides	12.12	11.78	0.34	
		velocity	7.62	8.99	8.74	8.25	8.37	108.0	8.25	8.49	
Saito, Ami (JPN) (1999)	time	6.56	12.02	17.78	24.04	24.04	6 / 3				
reaction time	0.116	interval	5.46	5.76	6.26		# of strides	12.02	12.02	0.00	
		velocity	7.62	9.16	8.68	7.99	8.32	105.7	8.32	8.32	
Idoabigeiru, Fuka (JPN) (2001)	time	6.59	12.06	17.83	24.05	24.06	5 / 4				
reaction time	0.148	interval	5.47	5.77	6.22	PB	# of strides	12.06	11.99	0.07	
		velocity	7.59	9.14	8.67	8.04	8.31	97.5	8.29	8.34	
Wada, Maki (JPN) (1986)	time	6.49	12.03	17.94	24.43	24.43	2 / 5				
reaction time	0.155	interval	5.54	5.91	6.49		# of strides	12.03	12.40	-0.37	
		velocity	7.70	9.03	8.46	7.70	8.19	105.0	8.31	8.06	
Iki, Aiko (JPN) (2000)	time	6.76	12.39	18.22	24.49	24.49	8 / 6				
reaction time	0.163	interval	5.63	5.83	6.27		# of strides	12.39	12.10	0.29	
		velocity	7.40	8.88	8.58	7.97	8.17		8.07	8.26	
Miyake, Naoka (JPN) (1991)	time	6.68	12.27	18.15	24.54	24.54	3 / 7				
reaction time	0.150	interval	5.59	5.88	6.39		# of strides	12.27	12.27	0.00	
		velocity	7.49	8.94	8.50	7.82	8.15	101.5	8.15	8.15	
Mimura, Kanami (JPN) (2001)	time	6.81	12.39	18.20	24.56	24.56	9 / 8				
reaction time	0.211	interval	5.58	5.81	6.36		# of strides	12.39	12.17	0.22	
		velocity	7.34	8.96	8.61	7.86	8.14		8.07	8.22	

2019 Japanese National Multi-Event Championships (Nagano, JPN)

Heptathlon - Heat 3

	date	08-Jun-19	wind	3.2 m/s	Matsubayashi (2019) - research on athlete performance and technique- 2019 data book						
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Yamasaki, Yuki (JPN) (1995)	time	6.81	12.44	18.38	24.81	24.81	6 / 2				
reaction time		interval	5.63	5.94	6.43		# of strides	12.44	12.37	0.07	
		velocity	7.34	8.88	8.42	7.78	8.06		8.04	8.08	
Utsunomiya, Eri (JPN) (1993)	time	6.77	12.46	18.46	24.88	24.88	5 / 3				
reaction time		interval	5.69	6.00	6.42		# of strides	12.46	12.42	0.04	
		velocity	7.39	8.79	8.33	7.79	8.04		8.03	8.05	

2019 Shimane High School Championships (Honshu, JPN)

FINAL

	date	26-May-19	wind	3.2 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
大下 愛梨	time		13.01	19.19	25.69	25.69	5 / 1				
reaction time		interval		6.18	6.50		# of strides	13.01	12.68	0.33	
		velocity		7.69	8.09	7.69	7.79		7.69	7.89	
森山 凜	time		13.26	19.39	25.88	25.88	7 / 2				
reaction time		interval		6.13	6.49		# of strides	13.26	12.62	0.64	
		velocity		7.54	8.16	7.70	7.73		7.54	7.92	
持田 かのん	time		13.40	19.60	26.08	26.08	6 / 3				
reaction time		interval		6.20	6.48		# of strides	13.40	12.68	0.72	
		velocity		7.46	8.06	7.72	7.67		7.46	7.89	

永瀬 望	time	13.41	19.60	26.09	26.09	4 / 4			
	reaction time	interval	6.19	6.49		# of strides	13.41	12.68	0.73
	velocity	7.46	8.08	7.70	7.67		7.46	7.89	
松村 愛	time	13.47	19.80	26.64	26.64	8 / 5			
	reaction time	interval	6.33	6.84		# of strides	13.47	13.17	0.30
	velocity	7.42	7.90	7.31	7.51		7.42	7.59	
日野 彩夏	time	13.59	19.98	26.81	26.81	2 / 6			
	reaction time	interval	6.39	6.83		# of strides	13.59	13.22	0.37
	velocity	7.36	7.82	7.32	7.46		7.36	7.56	
藤原 珠稀	time	13.67	20.15	27.11	27.11	3 / 7			
	reaction time	interval	6.48	6.96		# of strides	13.67	13.44	0.23
	velocity	7.32	7.72	7.18	7.38		7.32	7.44	
山尾 美来	time	13.72	20.27	27.24	27.24	9 / 8			
	reaction time	interval	6.55	6.97		# of strides	13.72	13.52	0.20
	velocity	7.29	7.63	7.17	7.34		7.29	7.40	

2019 Seiko Golden Grand Prix (Osaka, JPN)

FINAL

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

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lalova-Collio, Ivet (BUL) (1984)	time	6.32	11.38	16.72	22.55	22.55	8 / 1			
	reaction time	0.165	interval	5.06	5.34	5.83	# of strides	11.38	11.17	0.21
	velocity	7.91	9.88	9.36	8.58	8.87	97.2	8.79	8.95	
Jefferson, Kyra (USA) (1994)	time	6.43	11.58	17.06	23.00	23.00	6 / 2			
	reaction time	0.176	interval	5.15	5.48	5.94	# of strides	11.58	11.42	0.16
	velocity	7.78	9.71	9.12	8.42	8.70	96.0	8.64	8.76	
Safronova, Olga (KAZ) (1991)	time	6.32	11.45	16.88	23.08	23.08	4 / 3			
	reaction time	0.162	interval	5.13	5.43	6.20	# of strides	11.45	11.63	-0.18
	velocity	7.91	9.75	9.21	8.06	8.67	95.7	8.73	8.60	
Gardner, English (USA) (1992)	time	6.26	11.43	17.05	23.29	23.29	5 / 4			
	reaction time	0.151	interval	5.17	5.62	6.24	# of strides	11.43	11.86	-0.43
	velocity	7.99	9.67	8.90	8.01	8.59	94.0	8.75	8.43	
Owusu-Afriyie, Nana (AUS) (1991)	time	6.42	11.64	17.22	23.34	23.34	9 / 5			
	reaction time	0.170	interval	5.22	5.58	6.12	# of strides	11.64	11.70	-0.06
	velocity	7.79	9.58	8.96	8.17	8.57	97.7	8.59	8.55	
Wada, Maki (JPN) (1986)	time	6.34	11.73	17.52	20.99	23.70	7 / 6			
	reaction time	0.129	interval	5.39	5.79	3.47	# of strides	11.73	9.26	2.47
	velocity	7.89	9.28	8.64	14.41	8.44	101.5	8.53	10.80	
Miyake, Naoka (JPN) (1991)	time	6.67	12.20	18.02	24.31	24.31	2 / 7			
	reaction time	0.173	interval	5.53	5.82	6.29	# of strides	12.20	12.11	0.09
	velocity	7.50	9.04	8.59	7.95	8.23	100.7	8.20	8.26	
Yamada, Miki (JPN) (1999)	time	6.72	12.19	18.10	24.39	24.39	3 / 8			
	reaction time	0.179	interval	5.47	5.91	6.29	# of strides	12.19	12.20	-0.01
	velocity	7.44	9.14	8.46	7.95	8.20	105.7	8.20	8.20	

2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)

A FINAL

date 03-May-19 wind -1.2 m/s Kobayashi (2019) - research on athlete performance and technique- 2019 data book

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Ichikawa, Kana (JPN) (1991)	time	6.70	12.19	17.97	24.23	24.23	5 / 3			
	reaction time	interval	5.49	5.78	6.26	# of strides	12.19	12.04	0.15	
	velocity	7.46	9.11	8.65	7.99	8.25	98.5	8.20	8.31	
Miyake, Naoka (JPN) (1991)	time	6.67	12.25	18.08	24.30	24.30	2 / 4			
	reaction time	interval	5.58	5.83	6.22	# of strides	12.25	12.05	0.20	
	velocity	7.50	8.96	8.58	8.04	8.23	102.7	8.16	8.30	

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

Yamada, Miki (JPN) (1999)	time	6.68	12.17	17.99	24.37	24.37	3 / 5			
	reaction time	interval	5.49	5.82	6.38		# of strides	12.17	12.20	-0.03
	velocity	7.49	9.11	8.59	7.84	8.21	104.0	8.22	8.20	
Hirosawa, Mae (JPN) (1997)	time	6.70	12.34	18.21	24.39	24.39	9 / 6			
	reaction time	interval	5.64	5.87	6.18		# of strides	12.34	12.05	0.29
	velocity	7.46	8.87	8.52	8.09	8.20	99.5	8.10	8.30	

B FINAL date 03-May-19 wind -0.3 m/s *Kobayashi (2019) - research on athlete performance and technique- 2019 data book*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kageyama, Sakiho (JPN) (2002)	time	6.62	12.15	17.91	24.06	24.06	6 / 1			
	reaction time	interval	5.53	5.76	6.15		# of strides	12.15	11.91	0.24
	velocity	7.55	9.04	8.68	8.13	8.31	111.0	8.23	8.40	
Yuasa, Kanako (JPN) (1997)	time	6.58	12.10	17.89	24.10	24.10	5 / 2			
	reaction time	interval	5.52	5.79	6.21		# of strides	12.10	12.00	0.10
	velocity	7.60	9.06	8.64	8.05	8.30	105.5	8.26	8.33	
Saito, Ami (JPN) (1999)	time	6.71	12.20	17.95	24.21	24.21	7 / 3			
	reaction time	interval	5.49	5.75	6.26		# of strides	12.20	12.01	0.19
	velocity	7.45	9.11	8.70	7.99	8.26	105.7	8.20	8.33	
Aoyama, Seika (JPN) (1996)	time	6.85	12.44	18.21	24.42	24.42	3 / 5			
	reaction time	interval	5.59	5.77	6.21		# of strides	12.44	11.98	0.46
	velocity	7.30	8.94	8.67	8.05	8.19	105.2	8.04	8.35	

C FINAL date 03-May-19 wind -0.4 m/s *Kobayashi (2019) - research on athlete performance and technique- 2019 data book*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Yanagiya, Tomomi (JPN) (1999)	time	6.72	12.20	17.93	24.17	24.17	8 / 1			
	reaction time	interval	5.48	5.73	6.24		# of strides	12.20	11.97	0.23
	velocity	7.44	9.12	8.73	8.01	8.27	107.2	8.20	8.35	

2019 Asian Athletics Championships (Doha, QAT)**Heat 3** date 23-Apr-19 wind 2.3 m/s *Takahaski (2019) - race analysis top 200m athletes- domestic and international*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Miyake, Naoka (JPN) (1991)	time	6.68	12.14	17.98	24.36	24.36	9 / 6			
	reaction time 0.170	interval	5.46	5.84	6.38		# of strides	12.14	12.22	-0.08
	velocity	7.49	9.16	8.56	7.84	8.21		8.24	8.18	

Heat 1 date 23-Apr-19 wind 1.0 m/s *Takahaski (2019) - race analysis top 200m athletes- domestic and international*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Yamada, Miku (JPN) (1999)	time	6.59	12.00	17.82	24.09	24.09	2 / 5			
	reaction time 0.152	interval	5.41	5.82	6.27		# of strides	12.00	12.09	-0.09
	velocity	7.59	9.24	8.59	7.97	8.30		8.33	8.27	

2018 Japanese National Junior (U20) Championships (Nagano, JPN)**FINAL** date 21-Oct-18 wind 1.5 m/s *Ryutaro (2018) - research on athlete performance and technique- 2018 data book*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Aono, Shuri (JPN) (2000)	time	6.69	12.05	17.63	23.69	23.69	4 / 1			
	reaction time 0.160	interval	5.36	5.58	6.06		# of strides	12.05	11.64	0.41
	velocity	7.47	9.33	8.96	8.25	8.44		8.30	8.59	
Mimura, Kanami (JPN) (2001)	time	6.76	12.26	17.95	24.10	24.10	5 / 2			
	reaction time 0.205	interval	5.50	5.69	6.15		# of strides	12.26	11.84	0.42
	velocity	7.40	9.09	8.79	8.13	8.30		8.16	8.45	
Usui, Ayane (JPN) (2000)	time	6.72	12.34	18.10	24.22	24.22	8 / 3			
	reaction time 0.163	interval	5.62	5.76	6.12		# of strides	12.34	11.88	0.46
	velocity	7.44	8.90	8.68	8.17	8.26		8.10	8.42	
Iki, Aiko (JPN) (2000)	time	6.75	12.34	18.06	24.23	24.23	3 / 4			
	reaction time 0.194	interval	5.59	5.72	6.17		# of strides	12.34	11.89	0.45
	velocity	7.41	8.94	8.74	8.10	8.25		8.10	8.41	

Yanagiya, Tomomi (JPN) (1999)	time	6.73	12.17	17.92	24.25	24.25	7 / 5				
	reaction time	0.169						# of strides	12.17	12.08	0.09
	interval		5.44	5.75	6.33						
	velocity	7.43	9.19	8.70	7.90	8.25			8.22	8.28	
Saito, Ami (JPN) (1999)	time	6.72	12.26	18.10	24.56	24.56	6 / 6				
	reaction time	0.178						# of strides	12.26	12.30	-0.04
	interval		5.54	5.84	6.46						
	velocity	7.44	9.03	8.56	7.74	8.14			8.16	8.13	
Kodama, Mei (JPN) (1999)	time	6.82	12.52	18.42	24.79	24.79	2 / 7				
	reaction time	0.171						# of strides	12.52	12.27	0.25
	interval		5.70	5.90	6.37						
	velocity	7.33	8.77	8.47	7.85	8.07			7.99	8.15	
Yamada, Miku (JPN) (1999)	time	6.98	12.70	18.62	25.08	25.08	1 / 8				
	reaction time	0.192						# of strides	12.70	12.38	0.32
	interval		5.72	5.92	6.46						
	velocity	7.16	8.74	8.45	7.74	7.97			7.87	8.08	

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

FINAL

	date	21-Oct-18	wind	1.5 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
Kageyama, Sakiho (JPN) (2002)	time	6.64	12.18	18.02	24.32	24.32	6 / 1						
	reaction time	0.198								# of strides	12.18	12.14	0.04
	interval		5.54	5.84	6.30								
	velocity	7.53	9.03	8.56	7.94	8.22					8.21	8.24	
Aoyama, Hanae (JPN) (2002)	time	6.78	12.30	18.11	24.56	24.56	3 / 2						
	reaction time	0.175								# of strides	12.30	12.26	0.04
	interval		5.52	5.81	6.45								
	velocity	7.37	9.06	8.61	7.75	8.14					8.13	8.16	
Taji, Haruka (JPN) (2002)	time	6.87	12.41	18.23	24.58	24.58	5 / 3						
	reaction time	0.179								# of strides	12.41	12.17	0.24
	interval		5.54	5.82	6.35								
	velocity	7.28	9.03	8.59	7.87	8.14					8.06	8.22	
Miura, Yuna (JPN) (2002)	time	6.80	12.35	18.22	24.58	24.58	4 / 4						
	reaction time	0.172								# of strides	12.35	12.23	0.12
	interval		5.55	5.87	6.36								
	velocity	7.35	9.01	8.52	7.86	8.14					8.10	8.18	
Murakami, Hikaru (JPN) (2002)	time	7.01	12.56	18.32	24.59	24.59	8 / 5						
	reaction time	0.252								# of strides	12.56	12.03	0.53
	interval		5.55	5.76	6.27								
	velocity	7.13	9.01	8.68	7.97	8.13					7.96	8.31	
Matsunaga, Tomoko (JPN) (200)	time	6.84	12.49	18.42	24.81	24.81	1 / 6						
	reaction time	0.157								# of strides	12.49	12.32	0.17
	interval		5.65	5.93	6.39								
	velocity	7.31	8.85	8.43	7.82	8.06					8.01	8.12	
Muraki, Mirei (JPN) (2001)	time	6.87	12.56	18.50	24.90	24.90	7 / 7						
	reaction time	0.169								# of strides	12.56	12.34	0.22
	interval		5.69	5.94	6.40								
	velocity	7.28	8.79	8.42	7.81	8.03					7.96	8.10	
Oshiro, Juri (JPN) (2001)	time	6.79	12.45	18.41	24.94	24.94	2 / 8						
	reaction time	0.168								# of strides	12.45	12.49	-0.04
	interval		5.66	5.96	6.53								
	velocity	7.36	8.83	8.39	7.66	8.02					8.03	8.01	

2018 Japanese Corporate Championships (Osaka, JPN)

FINAL

	date	22-Sep-18	wind	0.2 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
Wada, Maki (JPN) (1986)	time	6.43	11.86	17.61	23.87	23.87	7 / 1						
	reaction time	0.148								# of strides	11.86	12.01	-0.15
	interval		5.43	5.75	6.26								
	velocity	7.78	9.21	8.70	7.99	8.38					8.43	8.33	
Miyake, Naoka (JPN) (1991)	time	6.61	12.17	17.97	24.19	24.19	2 / 2						
	reaction time	0.181								# of strides	12.17	12.02	0.15
	interval		5.56	5.80	6.22								
	velocity	7.56	8.99	8.62	8.04	8.27					8.22	8.32	
Fujisawa, Sayaka (JPN) (1991)	time	6.69	12.14	17.93	24.27	24.27	9 / 3						
	reaction time	0.160								# of strides	12.14	12.13	0.01
	interval		5.45	5.79	6.34								
	velocity	7.47	9.17	8.64	7.89	8.24					8.24	8.24	

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

Nagano, Mariko (JPN) (1994)	time	6.56	12.07	17.94	24.38	24.38	6 / 4			
	reaction time	0.166	interval	5.51	5.87	6.44	# of strides	12.07	12.31	-0.24
	velocity	7.62	9.07	8.52	7.76	8.20		8.29	8.12	
Nagura, Chiaki (JPN) (1993)	time	6.64	12.17	18.04	24.38	24.38	8 / 5			
	reaction time	0.146	interval	5.53	5.87	6.34	# of strides	12.17	12.21	-0.04
	velocity	7.53	9.04	8.52	7.89	8.20		8.22	8.19	
Kashiyama, Kaede (JPN) (1994)	time	6.69	12.26	18.10	24.44	24.44	3 / 6			
	reaction time	0.153	interval	5.57	5.84	6.34	# of strides	12.26	12.18	0.08
	velocity	7.47	8.98	8.56	7.89	8.18		8.16	8.21	
Shimada, Yukina (JPN) (1998)	time	6.65	12.35	18.29	24.64	24.64	4 / 7			
	reaction time	0.188	interval	5.70	5.94	6.35	# of strides	12.35	12.29	0.06
	velocity	7.52	8.77	8.42	7.87	8.12		8.10	8.14	
Shimura, Hitomi (JPN) (1990)	time	6.75	12.44	18.46	25.06	25.06	5 / 8			
	reaction time	0.199	interval	5.69	6.02	6.60	# of strides	12.44	12.62	-0.18
	velocity	7.41	8.79	8.31	7.58	7.98		8.04	7.92	

2018 Asian Games (Jakarta, INA)**FINAL**

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

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Odiang, Ofonime (BRN) (1997)	time	6.48	11.64	17.07	22.96	22.96	6 / 1			
	reaction time	0.166	interval	5.16	5.89		# of strides	11.64	11.32	0.32
	velocity	7.72	9.69	9.21	8.49	8.71		8.59	8.83	
Chand, Dutee (IND) (1996)	time	6.38	11.66	17.18	23.20	23.20	3 / 2			
	reaction time	0.149	interval	5.28	6.02		# of strides	11.66	11.54	0.12
	velocity	7.84	9.47	9.06	8.31	8.62		8.58	8.67	
Wei Yongli (CHN) (1991)	time	6.37	11.64	17.20	23.27	23.27	4 / 3			
	reaction time	0.158	interval	5.27	6.07		# of strides	11.64	11.63	0.01
	velocity	7.85	9.49	8.99	8.24	8.59		8.59	8.60	
Sharipova, Nigina (UZB) (1995)	time	6.57	11.85	17.32	23.32	23.32	7 / 4			
	reaction time	0.161	interval	5.28	6.00		# of strides	11.85	11.47	0.38
	velocity	7.61	9.47	9.14	8.33	8.58		8.44	8.72	
Safronova, Olga (KAZ) (1991)	time	6.48	11.74	17.21	23.43	23.43	5 / 5			
	reaction time	0.144	interval	5.26	6.22		# of strides	11.74	11.69	0.05
	velocity	7.72	9.51	9.14	8.04	8.54		8.52	8.55	
Knott, Kristina (PHI) (1995)	time	6.50	11.75	17.37	23.51	23.51	2 / 6			
	reaction time	0.125	interval	5.25	6.14		# of strides	11.75	11.76	-0.01
	velocity	7.69	9.52	8.90	8.14	8.51		8.51	8.50	
Kong Lingwei (CHN) (1995)	time	6.48	11.72	17.28	23.51	23.51	8 / 7			
	reaction time	0.122	interval	5.24	6.23		# of strides	11.72	11.79	-0.07
	velocity	7.72	9.54	8.99	8.03	8.51		8.53	8.48	
Quach Thi Lan (VIE) (1995)	time	6.52	11.91	17.62	23.77	23.77	1 / 8			
	reaction time	0.137	interval	5.39	6.15		# of strides	11.91	11.86	0.05
	velocity	7.67	9.28	8.76	8.13	8.41		8.40	8.43	

2018 Japanese National High School Championships (Nagoya, JPN)**FINAL**

date 05-Aug-18 wind 0.8 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
Iki, Aiko (JPN) (2000)	time	6.20	12.08	17.75	23.78	23.78	5 / 1			
	reaction time		interval	5.88	6.03	PB	# of strides	12.08	11.70	0.38
	velocity	8.06	8.50	8.82	8.29	8.41		8.28	8.55	
Aono, Shuri (JPN) (2000)	time	6.27	12.15	17.76	23.89	23.89	4 / 2			
	reaction time		interval	5.88	6.13		# of strides	12.15	11.74	0.41

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

	velocity	7.97	8.50	8.91	8.16	8.37		8.23	8.52		
Kageyama, Sakiho (JPN)	time	6.20	12.19	17.93	23.93	23.93	6 / 3				
	reaction time		interval	5.99	5.74	6.00	PB	# of strides	12.19	11.74	0.45
	velocity	8.06	8.35	8.71	8.33	8.36		8.20	8.52		
Mimura, Kanami (JPN)	time	6.21	12.07	17.82	24.02	24.02	7 / 4				
	reaction time		interval	5.86	5.75	6.20	PB	# of strides	12.07	11.95	0.12
	velocity	8.05	8.53	8.70	8.06	8.33		8.29	8.37		
Usui, Ayane (JPN) (2000)	time	6.12	12.02	17.85	24.11	24.11	2 / 5				
	reaction time		interval	5.90	5.83	6.26		# of strides	12.02	12.09	-0.07
	velocity	8.17	8.47	8.58	7.99	8.30		8.32	8.27		
Miura, Yuna (JPN) (2002)	time	6.33	12.35	18.07	24.30	24.30	9 / 6				
	reaction time		interval	6.02	5.72	6.23		# of strides	12.35	11.95	0.40
	velocity	7.90	8.31	8.74	8.03	8.23		8.10	8.37		
Kawanaka, Aori (JPN) (2001)	time	6.36	12.39	18.17	24.45	24.45	8 / 7				
	reaction time		interval	6.03	5.78	6.28		# of strides	12.39	12.06	0.33
	velocity	7.86	8.29	8.65	7.96	8.18		8.07	8.29		
Idoabigeiru, Fuka (JPN) (2001)	time	6.27	12.33	18.19	24.51	24.51	3 / 8				
	reaction time		interval	6.06	5.86	6.32		# of strides	12.33	12.18	0.15
	velocity	7.97	8.25	8.53	7.91	8.16		8.11	8.21		

2018 IAAF World Junior Championships (Tampere, FIN)**FINAL**

date 14-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	
Williams, Briana (JAM) (2002)	time	6.36	11.47	16.72	22.50	22.50	3 / 1				
	reaction time	0.191	interval	5.11	5.25	5.78	CR NJR	# of strides	11.47	11.03	0.44
	velocity	7.86	9.78	9.52	8.65	8.89		8.72	9.07		
Williams, Lauren Rain (USA) (1999)	time	6.40	11.55	17.00	23.09	23.09	5 / 2				
	reaction time	0.162	interval	5.15	5.45	6.09		# of strides	11.55	11.54	0.01
	velocity	7.81	9.71	9.17	8.21	8.66		8.66	8.67		
Kotwila, Martyna (POL) (1999)	time	6.57	11.93	17.36	23.21	23.21	4 / 3				
	reaction time	0.181	interval	5.36	5.43	5.85	=PB	# of strides	11.93	11.28	0.65
	velocity	7.61	9.33	9.21	8.55	8.62		8.38	8.87		
Kirkland, Jayla (USA) (1999)	time	6.65	11.93	17.35	23.21	23.21	8 / 4				
	reaction time	0.260	interval	5.28	5.42	5.86	DQ	# of strides	11.93	11.28	0.65
	velocity	7.52	9.47	9.23	8.53	8.62		8.38	8.87		
Miller, Polina (RUS) (2000)	time	6.60	11.83	17.35	23.32	23.32	6 / 5 4				
	reaction time	0.221	interval	5.23	5.52	5.97		# of strides	11.83	11.49	0.34
	velocity	7.58	9.56	9.06	8.38	8.58		8.45	8.70		
Junk, Sophia (GER) (1999)	time	6.67	12.07	17.59	23.55	23.55	1 / 6 5				
	reaction time	0.177	interval	5.40	5.52	5.96		# of strides	12.07	11.48	0.59
	velocity	7.50	9.26	9.06	8.39	8.49		8.29	8.71		
Schwab, Corinna (GER) (1999)	time	6.63	11.92	17.47	23.55	23.55	7 / 7 6				
	reaction time	0.207	interval	5.29	5.55	6.08	=PB	# of strides	11.92	11.63	0.29
	velocity	7.54	9.45	9.01	8.22	8.49		8.39	8.60		
Martins, Lorraine (BRA) (2000)	time	6.65	12.16	17.80	23.91	23.91	2 / 8 7				
	reaction time	0.169	interval	5.51	5.64	6.11		# of strides	12.16	11.75	0.41
	velocity	7.52	9.07	8.87	8.18	8.36		8.22	8.51		

2018 Japanese National Championships (Yamaguchi, JPN)**FINAL**

date 24-Jun-18

wind 1.1 m/s

Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Fukushima, Chisato (JPN) (1988)	time	6.43	11.77	17.45	23.65	23.65	6 / 1			

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

reaction time	0.130	interval	5.34	5.68	6.20		# of strides	11.77	11.88	-0.11
		velocity	7.78	9.36	8.80	8.06	8.46	8.50	8.42	
Ichikawa, Kana (JPN) (1991)	time	6.63	12.02	17.66	23.83	23.83	7 / 2			
reaction time	0.143	interval	5.39	5.64	6.17		# of strides	12.02	11.81	0.21
		velocity	7.54	9.28	8.87	8.10	8.39	8.32	8.47	
Yamada, Miki (JPN) (1999)	time	6.71	12.15	17.79	23.92	23.92	3 / 3			
reaction time	0.176	interval	5.44	5.64	6.13	PB	# of strides	12.15	11.77	0.38
		velocity	7.45	9.19	8.87	8.16	8.36	8.23	8.50	
Maeyama, Miyu (JPN) (1996)	time	6.59	12.04	17.77	24.05	24.05	5 / 4			
reaction time	0.171	interval	5.45	5.73	6.28		# of strides	12.04	12.01	0.03
		velocity	7.59	9.17	8.73	7.96	8.32	8.31	8.33	
Watanabe, Hikaru (JPN) (1996)	time	6.54	11.98	17.71	24.06	24.06	4 / 5			
reaction time	0.143	interval	5.44	5.73	6.35	PB	# of strides	11.98	12.08	-0.10
		velocity	7.65	9.19	8.73	7.87	8.31	8.35	8.28	
Saito, Rina (JPN) (1997)	time	6.64	12.17	17.94	24.19	24.19	2 / 6			
reaction time	0.180	interval	5.53	5.77	6.25	PB	# of strides	12.17	12.02	0.15
		velocity	7.53	9.04	8.67	8.00	8.27	8.22	8.32	
Wada, Maki (JPN) (1986)	time	6.55	12.13	18.15	24.69	24.69	9 / 7			
reaction time	0.152	interval	5.58	6.02	6.54		# of strides	12.13	12.56	-0.43
		velocity	7.63	8.96	8.31	7.65	8.10	8.24	7.96	

2018 Japanese National Multi-Event Championships (Nagano, JPN)

Heptathlon - Heat 3

date 16-Jun-18 wind 2.2 m/s Matsubayashi (2018) - research on athlete performance and technique- 2018 data book

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Yamasaki, Yuki (JPN) (1995)	time	6.82	12.39	18.29	24.68	24.68	7 / 1				
reaction time	interval		5.57	5.90	6.39		# of strides	12.39	12.29	0.10	
	velocity	7.33	8.98	8.47	7.82	8.10		8.07	8.14		
Utsunomiya, Eri (JPN) (1993)	time	6.76	12.41	18.36	24.71	24.71	5 / 2				
reaction time	interval		5.65	5.95	6.35		# of strides	12.41	12.30	0.11	
	velocity	7.40	8.85	8.40	7.87	8.09		8.06	8.13		
Hemphill, Megu (JPN) (1996)	time	6.92	12.61	18.63	25.20	25.20	6 / 4				
reaction time	interval		5.69	6.02	6.57		# of strides	12.61	12.59	0.02	
	velocity	7.23	8.79	8.31	7.61	7.94		7.93	7.94		
Kiryama, Chie (JPN) (1991)	time	6.90	12.71	18.74	25.27	25.27	3 / 5				
reaction time	interval		5.81	6.03	6.53		# of strides	12.71	12.56	0.15	
	velocity	7.25	8.61	8.29	7.66	7.91		7.87	7.96		

2018 Shimane High School Championships (Honshu, JPN)

FINAL

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

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
長戸 友花	time	12.59	25.17	25.17	5 / 1						
reaction time	interval		12.58		# of strides	12.59	12.58	0.01			
	velocity	7.94	7.95	7.95		7.94	7.95				
戸屋 萌南	time	12.69	25.50	25.51	3 / 2						
reaction time	interval		12.81		# of strides	12.69	12.81	-0.12			
	velocity	7.88	7.81	7.84		7.88	7.81				
大下 愛梨	time	12.86	25.88	25.89	4 / 3						
reaction time	interval		13.02		# of strides	12.86	13.02	-0.16			
	velocity	7.78	7.68	7.72		7.78	7.68				
天野 伊織	time	13.35	26.40	26.39	8 / 4						
reaction time	interval		13.05		# of strides	13.35	13.05	0.30			
	velocity	7.49	7.66	7.58		7.49	7.66				

日野 彩夏	time	13.31	26.38	26.40	6 / 5			
	reaction time	interval	13.07		# of strides	13.31	13.07	0.24
	velocity	7.51	7.65	7.58	7.51	7.65		
澁谷 里帆	time	13.54	26.50	26.50	1 / 6			
	reaction time	interval	12.96		# of strides	13.54	12.96	0.58
	velocity	7.39	7.72	7.55	7.39	7.72		
立石 裕香	time	13.41	26.65	26.65	2 / 7			
	reaction time	interval	13.24		# of strides	13.41	13.24	0.17
	velocity	7.46	7.55	7.50	7.46	7.55		
永瀬 望	time	13.57	26.67	26.67	7 / 8			
	reaction time	interval	13.10		# of strides	13.57	13.10	0.47
	velocity	7.37	7.63	7.50	7.37	7.63		

2018 Shizuoka International Meeting (Fukuroi, JPN)

A FINAL		date	03-May-18	wind	1.1 m/s	Takahashi (2018) - 200m Running Performance Analysis of Top Athletes in 2018				
		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Fukushima, Chisato (JPN) (1988)	time	6.37	11.61	17.19	23.35	23.35	4 / 1			
	reaction time	0.176	interval	5.24	5.58	6.16	# of strides	11.61	11.74	-0.13
	velocity	7.85	9.54	8.96	8.12	8.57	105.5	8.61	8.52	
Maeyama, Miyu (JPN) (1996)	time	6.54	11.95	17.62	23.80	23.80	7 / 2			
	reaction time	0.187	interval	5.41	5.67	6.18	=PB # of strides	11.95	11.85	0.10
	velocity	7.65	9.24	8.82	8.09	8.40	96.2	8.37	8.44	
Ichikawa, Kana (JPN) (1991)	time	6.62	12.00	17.69	24.03	24.03	6 / 4			
	reaction time	0.165	interval	5.38	5.69	6.34	# of strides	12.00	12.03	-0.03
	velocity	7.55	9.29	8.79	7.89	8.32	99.0	8.33	8.31	

B FINAL		date	03-May-18	wind	0.7 m/s	Ryutaro (2018) - research on athlete performance and technique- 2018 data book				
		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Nakamura, Mizuki (JPN) (1996)	time	6.78	12.36	18.23	24.62	24.62	7 / 4			
	reaction time	0.184	interval	5.58	5.87	6.39	# of strides	12.36	12.26	0.10
	velocity	7.37	8.96	8.52	7.82	8.12	99.2	8.09	8.16	

Heat 3		date	03-May-18	wind	-0.7 m/s	Ryutaro (2018) - research on athlete performance and technique- 2018 data book				
		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Nakamura, Mizuki (JPN) (1996)	time	6.71	12.24	17.99	24.24	24.24	6 / 3			
	reaction time	0.173	interval	5.53	5.75	6.25	# of strides	12.24	12.00	0.24
	velocity	7.45	9.04	8.70	8.00	8.25	100.0	8.17	8.33	

Heat 2		date	03-May-18	wind	1.4 m/s	Ryutaro (2018) - research on athlete performance and technique- 2018 data book				
		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Ichikawa, Kana (JPN) (1991)	time	6.54	11.90	17.56	23.71	23.71	5 / 1			
	reaction time	0.184	interval	5.36	5.66	6.15	# of strides	11.90	11.81	0.09
	velocity	7.65	9.33	8.83	8.13	8.44	98.0	8.40	8.47	

Heat 1		date	03-May-18	wind	0.6 m/s	Ryutaro (2018) - research on athlete performance and technique- 2018 data book				
		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Aoyama, Seika (JPN) (1996)	time	6.95	12.68	18.59	24.92	24.92	8 / 8			
	reaction time	0.253	interval	5.73	5.91	6.33	# of strides	12.68	12.24	0.44
	velocity	7.19	8.73	8.46	7.90	8.03		7.89	8.17	

2018 Tokyo Combined Event Meeting (Tokyo, JPN)

Heptathlon - Heat 3		date	21-Apr-18	wind	-0.4 m/s	Matsubayashi (2018) - research on athlete performance and technique- 2018 data book				
		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Utsunomiya, Eri (JPN) (1993)	time	6.72	12.37	18.40	24.79	24.79	8 / 1			
	reaction time	interval	5.65	6.03	6.39	PB	# of strides	12.37	12.42	-0.05
	velocity	7.44	8.85	8.29	7.82	8.07		8.08	8.05	
Yamasaki, Yuki (JPN) (1995)	time	6.75	12.47	18.33	25.22	25.22	3 / 2			
	reaction time	interval	5.72	5.86	6.89		# of strides	12.47	12.75	-0.28
	velocity	7.41	8.74	8.53	7.26	7.93		8.02	7.84	

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

Hemphill, Megu (JPN) (1996)	time	6.94	12.71	18.78	25.39	25.39	4 / 4			
	reaction time	interval	5.77	6.07	6.61		# of strides	12.71	12.68	0.03
	velocity	7.20	8.67	8.24	7.56	7.88		7.87	7.89	

Heptathlon - Heat 2

date 21-Apr-18 wind -2.8 m/s *Matsubayashi (2018) - research on athlete performance and technique- 2018 data book*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kiryama, Chie (JPN) (1991)	time	6.87	12.73	18.92	25.80	25.80	4 / 1			
	reaction time	interval	5.86	6.19	6.88		# of strides	12.73	13.07	-0.34
	velocity	7.28	8.53	8.08	7.27	7.75		7.86	7.65	

2017 Weltklasse (Zürich, SUI)**FINAL**

date 24-Aug-17 wind 0.1 m/s *2017.08.25) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Miller-Uibo, Shaunae (BAH) (1991)	time		11.38		21.88	21.88	7 / 1			
	reaction time	0.129	interval		10.50	NR	# of strides	11.38	10.50	0.88
	velocity		8.79		9.52	9.14	90.0	8.79	9.52	

2017 IAAF World Championships (London, GBR)**FINAL**

date 11-Aug-17 wind 0.8 m/s *Pollitt (2018) - biomechanical report for the IAAF World Champs- London 2017- Women's 200m Takahashi (2017) - 200m running performance analysis in the 2017 season*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Schippers, Dafne (NED) (1992)	time	6.22	11.14	16.31	22.05	22.05	6 / 1			<i>Takahashi (2017)</i>	
	reaction time	0.165	interval	4.92	5.17	5.74	# of strides	11.14	10.91	0.23	
	velocity	8.04	10.16	9.67	8.71	9.07	92.2	8.98	9.17		
Ta Lou, Marie-Josée (CIV) (1988)	time	6.17	11.17	16.39	22.08	22.08	4 / 2			<i>Takahashi (2017)</i>	
	reaction time	0.199	interval	5.00	5.22	5.69	NR	# of strides	11.17	10.91	0.26
	velocity	8.10	10.00	9.58	8.79	9.06	98.1	8.95	9.17		
Miller-Uibo, Shaunae (BAH) (1991)	time	6.31	11.37	16.59	22.15	22.15	5 / 3			<i>Takahashi (2017)</i>	
	reaction time	0.147	interval	5.06	5.22	5.56	# of strides	11.37	10.78	0.59	
	velocity	7.92	9.88	9.58	8.99	9.03	90.6	8.80	9.28		
Asher-Smith, Dina (GBR) (1995)	time		11.09	16.34	22.05	22.22	8 / 4			<i>Pollitt (2018)</i>	
	reaction time	0.169	interval	5.25	5.71		# of strides	11.09	10.96	0.13	
	velocity		9.02	9.52	8.76	9.00	96.2	9.02	9.12		
Stevens, Deajah (USA) (1995)	time		11.19	16.47	22.26	22.44	7 / 5			<i>Pollitt (2018)</i>	
	reaction time	0.178	interval	5.28	5.79		# of strides	11.19	11.07	0.12	
	velocity		8.94	9.47	8.64	8.91	88.8	8.94	9.03		
Duncan, Kimberlyn (USA) (1991)	time		11.15	16.46	22.39	22.59	9 / 6			<i>Pollitt (2018)</i>	
	reaction time	0.198	interval	5.31	5.93		# of strides	11.15	11.24	-0.09	
	velocity		8.97	9.42	8.43	8.85	101.4	8.97	8.90		
Emmanuel, Crystal (CAN) (1991)	time		11.23	16.63	22.44	22.60	2 / 7			<i>Pollitt (2018)</i>	
	reaction time	0.158	interval	5.40	5.81		# of strides	11.23	11.21	0.02	
	velocity		8.90	9.26	8.61	8.85	98.2	8.90	8.92		
Gaither, TyNia (BAH) (1993)	time		11.46	16.96	22.91	23.07	3 / 8			<i>Pollitt (2018)</i>	
	reaction time	0.162	interval	5.50	5.95		# of strides	11.46	11.45	0.01	
	velocity		8.73	9.09	8.40	8.67	108.7	8.73	8.73		

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

Semi-Final 3

date 10-Aug-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
Ta Lou, Marie-Josée (CIV) (1988)	time	6.23	11.26	16.60	22.50	22.50	5 / 1			<i>Takahashi (2017)</i>
	reaction time	0.198	interval	5.03	5.34	5.90	# of strides	11.26	11.24	0.02
	velocity	8.03	9.94	9.36	8.47	8.89	99.3	8.88	8.90	
Asher-Smith, Dina (GBR) (1995)	time		11.13	16.55	22.58	22.73	4 / 2			<i>Pollitt (2018)</i>
	reaction time	0.153	interval	5.42	6.03		# of strides	11.13	11.45	-0.32
	velocity		8.98	9.23	8.29	8.80	97.4	8.98	8.73	
Emmanuel, Crystal (CAN) (1991)	time		11.20	16.67	22.68	22.85	6 / 3			<i>Pollitt (2018)</i>
	reaction time	0.165	interval	5.47	6.01		# of strides	11.20	11.48	-0.28

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

velocity	8.93	9.14	8.32	8.75	99.7	8.93	8.71
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Gaither, TyNia (BAH) (1993)	time	11.35	16.76	22.70	22.85	7 / 4			<i>Pollitt (2018)</i>
reaction time	0.151	interval	5.41	5.94		# of strides	11.35	11.35	0.00
	velocity	8.81	9.24	8.42	8.75	108.9	8.81	8.81	

Belimbasaki, Maria (GRE) (1991)	time	11.51	17.01	23.01	23.21	8 / 5			<i>Pollitt (2018)</i>
reaction time	0.202	interval	5.50	6.00		# of strides	11.51	11.50	0.01
	velocity	8.69	9.09	8.33	8.62	98.6	8.69	8.70	

Rosa, Vitoria Cristina (BRA) (1991)	time	11.37	16.94	23.14	23.31	9 / 6			<i>Pollitt (2018)</i>
reaction time	0.173	interval	5.57	6.20		# of strides	11.37	11.77	-0.40
	velocity	8.80	8.98	8.06	8.58	95.3	8.80	8.50	

Williams, Jodean (JAM) (1993)	time	11.51	17.08	23.14	23.32	2 / 7			<i>Pollitt (2018)</i>
reaction time	0.182	interval	5.57	6.06		# of strides	11.51	11.63	-0.12
	velocity	8.69	8.98	8.25	8.58	94.4	8.69	8.60	

Raffai, Estelle (FRA) (1998)	time	11.54	17.14	23.27	23.45	3 / 8			<i>Pollitt (2018)</i>
reaction time	0.183	interval	5.60	6.13		# of strides	11.54	11.73	-0.19
	velocity	8.67	8.93	8.16	8.53	95.5	8.67	8.53	

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

Semi-Final 2

date 10-Aug-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
Miller-Uibo, Shaunae (BAH) (1991)	6.39	11.47	16.74	22.49	22.49	7 / 1			<i>Takahashi (2017)</i>
reaction time	0.147	interval	5.08	5.75		# of strides	11.47	11.02	0.45
	velocity	7.82	9.84	9.49	8.70	8.89	89.5	8.72	9.07

Duncan, Kimberlyn (USA) (1991)	time	11.35	16.72	22.55	22.73	4 / 2			<i>Pollitt (2018)</i>
reaction time	0.183	interval	5.37	5.83		# of strides	11.35	11.20	0.15
	velocity	8.81	9.31	8.58	8.80	99.6	8.81	8.93	

Kambundji, Mujinga (SUI) (1992)	time	11.19	16.68	22.87	23.00	5 / 3			<i>Pollitt (2018)</i>
reaction time	0.129	interval	5.49	6.19		# of strides	11.19	11.68	-0.49
	velocity	8.94	9.11	8.08	8.70	102.5	8.94	8.56	

Facey, Simone (JAM) (1985)	time	11.24	16.70	22.83	23.01	6 / 4			<i>Pollitt (2018)</i>
reaction time	0.181	interval	5.46	6.13		# of strides	11.24	11.59	-0.35
	velocity	8.90	9.16	8.16	8.69	101.0	8.90	8.63	

Odiog, Ofonime (BRN) (1997)	time	11.42	16.85	22.96	23.24	8 / 5			<i>Pollitt (2018)</i>
reaction time	0.275	interval	5.43	6.11		# of strides	11.42	11.54	-0.12
	velocity	8.76	9.21	8.18	8.61	95.6	8.76	8.67	

Williams, Bianca (GBR) (1993)	time	11.48	17.09	23.24	23.40	3 / 6			<i>Pollitt (2018)</i>
reaction time	0.161	interval	5.61	6.15		# of strides	11.48	11.76	-0.28
	velocity	8.71	8.91	8.13	8.55	101.4	8.71	8.50	

Hackett, Semoy (TTO) (1988)	time	11.53	17.15	23.39	23.54	2 / 7			<i>Pollitt (2018)</i>
reaction time	0.148	interval	5.62	6.24		# of strides	11.53	11.86	-0.33
	velocity	8.67	8.90	8.01	8.50	98.0	8.67	8.43	

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

Semi-Final 1

date 10-Aug-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
Schippers, Dafne (NED) (1992)	6.26	11.25	16.58	22.49	22.49	5 / 1			<i>Takahashi (2017)</i>
reaction time	0.155	interval	4.99	5.91		# of strides	11.25	11.24	0.01
	velocity	7.99	10.02	9.38	8.46	8.89	93.1	8.89	8.90

Stevens, Deajah (USA) (1995)	time	11.26	16.64	22.55	22.71	6 / 2			<i>Pollitt (2018)</i>
reaction time	0.155	interval	5.38	5.91		# of strides	11.26	11.29	-0.03
	velocity	8.88	9.29	8.46	8.81	88.7	8.88	8.86	

Lalova-Collio, Iveta (BUL) (1984)	time	11.36	16.84	22.81	22.96	7 / 3			<i>Pollitt (2018)</i>
reaction time	0.148	interval	5.48	5.97		# of strides	11.36	11.45	-0.09
	velocity	8.80	9.12	8.38	8.71	99.0	8.80	8.73	

Haase, Rebekka (GER) (1993)	time	11.31	16.84	22.87	23.03	4 / 4				<i>Pollitt (2018)</i>
	reaction time	0.161		5.53	6.03	# of strides	11.31	11.56	-0.25	
	velocity		8.84	9.04	8.29	8.68	98.2	8.84	8.65	
Forbes, Sashalee (JAM) (1996)	time	11.49	16.97	22.93	23.06	3 / 5				<i>Pollitt (2018)</i>
	reaction time	0.164		5.48	5.96	# of strides	11.49	11.44	0.05	
	velocity		8.70	9.12	8.39	8.67	104.6	8.70	8.74	
Atcho, Sarah (SUI) (1995)	time	11.44	16.95	22.99	23.12	8 / 6				<i>Pollitt (2018)</i>
	reaction time	0.134		5.51	6.04	# of strides	11.44	11.55	-0.11	
	velocity		8.74	9.07	8.28	8.65	93.4	8.74	8.66	
Palframan, Justine (RSA) (1993)	time	11.62	17.08	23.05	23.21	2 / 7				<i>Pollitt (2018)</i>
	reaction time	0.146		5.46	5.97	# of strides	11.62	11.43	0.19	
	velocity		8.61	9.16	8.38	8.62	100.0	8.61	8.75	
Strachan, Anthonique (BAH) (1993)	time	11.69	17.17	23.00	23.21	9 / 8				<i>Pollitt (2018)</i>
	reaction time	0.207		5.48	5.83	# of strides	11.69	11.31	0.38	
	velocity		8.55	9.12	8.58	8.62	88.3	8.55	8.84	

Heat 6date 08-Aug-17 wind 0.1 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
Ta Lou, Marie-Josée (CIV) (1988)	6.28	11.37	16.79	22.70	22.70	4 / 1			
reaction time	0.192	5.09	5.42	5.91		# of strides	11.37	11.33	0.04
velocity	7.96	9.82	9.23	8.46	8.81	99.0	8.80	8.83	

Heat 4date 08-Aug-17 wind -0.1 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
Miller-Uibo, Shaunae (BAH) (1993)	6.44	11.63	16.91	22.69	22.69	5 / 1			
reaction time	0.173	5.19	5.28	5.78		# of strides	11.63	11.06	0.57
velocity	7.76	9.63	9.47	8.65	8.81	88.7	8.60	9.04	

Heat 1date 08-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
Schippers, Dafne (NED) (1992)	6.28	11.31	16.63	22.63	22.63	6 / 1			
reaction time	0.146	5.03	5.32	6.00		# of strides	11.31	11.32	-0.01
velocity	7.96	9.94	9.40	8.33	8.84	92.0	8.84	8.83	

2017 Japanese National High School Championships (Yamagata, JPN)**FINAL**date 01-Aug-17 wind -0.2 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
Aono, Akari (JPN) (2000)	6.31	12.26	17.86	23.98	23.98	7 / 1			
reaction time	0.158	5.95	5.60	6.12		# of strides	12.26	11.72	0.54
velocity	7.92	8.40	8.93	8.17	8.34		8.16	8.53	
Okumura, Yuri (JPN) (2000)	6.25	12.29	18.04	24.34	24.34	5 / 2			
reaction time	0.152	6.04	5.75	6.30		# of strides	12.29	12.05	0.24
velocity	8.00	8.28	8.70	7.94	8.22		8.14	8.30	
Yamada, Miki (JPN) (1999)	6.31	12.25	18.02	24.43	24.43	6 / 3			
reaction time	0.184	5.94	5.77	6.41		# of strides	12.25	12.18	0.07
velocity	7.92	8.42	8.67	7.80	8.19		8.16	8.21	
Kodama, Mei (JPN) (1999)	6.27	12.32	18.12	24.44	24.44	3 / 4			
reaction time	0.194	6.05	5.80	6.32		# of strides	12.32	12.12	0.20
velocity	7.97	8.26	8.62	7.91	8.18		8.12	8.25	
Igoshi, Akari (JPN) (2000)	6.30	12.43	18.30	24.56	24.56	9 / 5			
reaction time	0.177	6.13	5.87	6.26		# of strides	12.43	12.13	0.30
velocity	7.94	8.16	8.52	7.99	8.14		8.05	8.24	
Miura, Yuna (JPN) (2002)	6.24	12.29	18.10	24.66	24.66	4 / 6			
reaction time	0.161	6.05	5.81	6.56		# of strides	12.29	12.37	-0.08
velocity	8.01	8.26	8.61	7.62	8.11		8.14	8.08	

Kawanaka, Aori (JPN) (2001)	time	6.33	12.44	18.28	24.79	24.79	8 / 7			
	reaction time	0.167	interval	6.11	5.84	6.51	# of strides	12.44	12.35	0.09
	velocity	7.90	8.18	8.56	7.68	8.07		8.04	8.10	
Saito, Manami (JPN) (1999)	time	6.33	12.49	18.39	24.90	24.90	2 / 8			
	reaction time	0.159	interval	6.16	5.90	6.51	# of strides	12.49	12.41	0.08
	velocity	7.90	8.12	8.47	7.68	8.03		8.01	8.06	

2017 Japanese National Championships (Osaka, JPN)

FINAL

date 25-Jun-17

wind -0.2 m/s

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

Ichikawa, Kana (JPN) (1991)	time	6.52	11.85	17.45	23.63	23.63	6 / 1			
	reaction time	0.158	interval	5.33	5.60	6.18	# of strides	11.85	11.78	0.07
	velocity	7.67	9.38	8.93	8.09	8.46		8.44	8.49	
Imai, Saori (JPN) (1990)	time	6.65	12.07	17.71	23.74	23.74	7 / 2			
	reaction time	0.185	interval	5.42	5.64	6.03	# of strides	12.07	11.67	0.40
	velocity	7.52	9.23	8.87	8.29	8.42		8.29	8.57	
Nakamura, Mizuki (JPN) (1996)	time	6.62	12.00	17.63	23.76	23.76	4 / 3			
	reaction time	0.197	interval	5.38	5.63	6.13	# of strides	12.00	11.76	0.24
	velocity	7.55	9.29	8.88	8.16	8.42		8.33	8.50	
Maeyama, Miyu (JPN) (1996)	time	6.48	11.92	17.60	23.89	23.89	2 / 4			
	reaction time	0.181	interval	5.44	5.68	6.29	# of strides	11.92	11.97	-0.05
	velocity	7.72	9.19	8.80	7.95	8.37		8.39	8.35	
Fukushima, Chisato (JPN) (1988)	time	6.41	11.76	17.55	24.01	24.01	5 / 5			
	reaction time	0.160	interval	5.35	5.79	6.46	# of strides	11.76	12.25	-0.49
	velocity	7.80	9.35	8.64	7.74	8.33		8.50	8.16	
Iki, Ichiko (JPN) (1997)	time	6.75	12.27	17.91	24.11	24.11	9 / 6			
	reaction time	0.187	interval	5.52	5.64	6.20	# of strides	12.27	11.84	0.43
	velocity	7.41	9.06	8.87	8.06	8.30		8.15	8.45	
Shimada, Yukina (JPN) (1998)	time	6.55	12.11	18.05	24.38	24.38	3 / 7			
	reaction time	0.159	interval	5.56	5.94	6.33	# of strides	12.11	12.27	-0.16
	velocity	7.63	8.99	8.42	7.90	8.20		8.26	8.15	
Saito, Ami (JPN) (1999)	time	6.69	12.23	18.05	24.39	24.39	8 / 8			
	reaction time	0.188	interval	5.54	5.82	6.34	# of strides	12.23	12.16	0.07
	velocity	7.47	9.03	8.59	7.89	8.20		8.18	8.22	

2017 NCAA Championships (Eugene, OR)

FINAL

date 10-Jun-17

wind 1.1 m/s

USTFCCCA (2017) - NCAA DI outdoor championship history

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Jefferson, Kyra (USA) (1994)	time		11.5		22.0	22.02	5 / 1			
	reaction time		interval		10.50	PB	# of strides	11.50	10.50	1.00
	velocity		8.70		9.52	9.08	97.2	8.70	9.52	
Washington, Ariana (USA) (1999)	time		11.6		22.4	22.39	8 / 2			
	reaction time		interval		10.80		# of strides	11.60	10.80	0.80
	velocity		8.62		9.26	8.93	80.2	8.62	9.26	
Thomas, Gabrielle (USA) (1996)	time		11.6		22.6	22.61	6 / 3			
	reaction time		interval		11.00		# of strides	11.60	11.00	0.60
	velocity		8.62		9.09	8.85	89.7	8.62	9.09	

2017 Shimane High School Championships (Honshu, JPN)

FINAL

date 28-May-17

wind -1.3 m/s

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

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
石川 結貴	time		12.53		24.81	24.81	7 / 1			
	reaction time		interval		12.28		# of strides	12.53	12.28	0.25
	velocity		7.98		8.14	8.06		7.98	8.14	
大賀 結莉	time		13.07		25.77	25.77	5 / 2			

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

	reaction time	interval		12.70		# of strides	13.07	12.70	0.37
		velocity	7.65	7.87	7.76		7.65	7.87	
戸屋 萌南	time		12.92	25.92	25.92	6 / 3			
	reaction time	interval		13.00		# of strides	12.92	13.00	-0.08
		velocity	7.74	7.69	7.72		7.74	7.69	
前田 瑠音	time		12.83	25.95	25.95	9 / 4			
	reaction time	interval		13.12		# of strides	12.83	13.12	-0.29
		velocity	7.79	7.62	7.71		7.79	7.62	
米田 涼帆	time		13.12	26.21	26.21	4 / 5			
	reaction time	interval		13.09		# of strides	13.12	13.09	0.03
		velocity	7.62	7.64	7.63		7.62	7.64	
大下 愛梨	time		13.33	26.99	26.99	8 / 6			
	reaction time	interval		13.66		# of strides	13.33	13.66	-0.33
		velocity	7.50	7.32	7.41		7.50	7.32	

2017 Seiko Golden Grand Prix (Kawasaki, JPN)

FINAL

date 21-May-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
Lalova-Collio, Iveta (BUL) (1984)	time		6.40	11.61	17.08	22.98	22.98	4 / 1			
	reaction time	0.145		interval	5.21	5.47	5.90	# of strides	11.61	11.37	0.24
			7.81	9.60	9.14	8.47	8.70	97.0	8.61	8.80	
Townsend, Tiffany (USA) (1989)	time		6.40	11.63	17.17	23.31	23.31	5 / 2			
	reaction time	0.159		interval	5.23	5.54	6.14	# of strides	11.63	11.68	-0.05
			7.81	9.56	9.03	8.14	8.58	98.5	8.60	8.56	
Wisil, Toea (PNG) (1988)	time		6.30	11.49	17.10	23.40	23.40	6 / 3			
	reaction time	0.157		interval	5.19	5.61	6.30	# of strides	11.49	11.91	-0.42
			7.94	9.63	8.91	7.94	8.55	103.5	8.70	8.40	
Williams, Charonda (USA) (1987)	time		6.41	11.60	17.19	23.47	23.47	7 / 4			
	reaction time	0.156		interval	5.19	5.59	6.28	# of strides	11.60	11.87	-0.27
			7.80	9.63	8.94	7.96	8.52	97.7	8.62	8.42	
Ichikawa, Kana (JPN) (1991)	time		6.55	11.91	17.51	23.59	23.59	2 / 5			
	reaction time	0.143		interval	5.36	5.60	6.08	# of strides	11.91	11.68	0.23
			7.63	9.33	8.93	8.22	8.48	99.2	8.40	8.56	
Whitney, Kaylin (USA) (1998)	time		6.41	11.79	17.49	23.63	23.63	3 / 6			
	reaction time	0.165		interval	5.38	5.70	6.14	# of strides	11.79	11.84	-0.05
			7.80	9.29	8.77	8.14	8.46	97.5	8.48	8.45	
Imai, Saori (JPN) (1990)	time		6.67	12.20	17.86	23.91	23.91	1 / 7			
	reaction time	0.165		interval	5.53	5.66	6.05	# of strides	12.20	11.71	0.49
			7.50	9.04	8.83	8.26	8.36	99.0	8.20	8.54	

2017 Shizuoka International Meeting (Fukuroi, JPN)

FINAL

date 03-May-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
Fukushima, Chisato (JPN) (1984)	time		6.44	11.83	17.62	23.91	23.91	5 / 1			
	reaction time			interval	5.39	5.79	6.29	# of strides	11.83	12.08	-0.25
			7.76	9.28	8.64	7.95	8.36		8.45	8.28	
Imai, Saori (JPN) (1990)	time		6.78	12.39	18.15	24.21	24.21	4 / 2			
	reaction time			interval	5.61	5.76	6.06	# of strides	12.39	11.82	0.57
			7.37	8.91	8.68	8.25	8.26		8.07	8.46	
Breen, Melissa (AUS) (1990)	time		6.58	12.07	17.93	24.27	24.27	6 / 3			
	reaction time			interval	5.49	5.86	6.34	# of strides	12.07	12.20	-0.13
			7.60	9.11	8.53	7.89	8.24		8.29	8.20	

Ichikawa, Kana (JPN) (1991)	time	6.70	12.16	17.93	24.28	24.28	7 / 4			
	reaction time		interval	5.46	5.77	6.35	# of strides	12.16	12.12	0.04
	velocity	7.46	9.16	8.67	7.87	8.24		8.22	8.25	
Fujisawa, Sayaka (JPN) (1991)	time	6.78	12.32	18.16	24.52	24.52	9 / 5			
	reaction time		interval	5.54	5.84	6.36	# of strides	12.32	12.20	0.12
	velocity	7.37	9.03	8.56	7.86	8.16		8.12	8.20	
Barber, Jade (USA) (1993)	time	6.75	12.30	18.32	24.80	24.80	8 / 6			
	reaction time		interval	5.55	6.02	6.48	# of strides	12.30	12.50	-0.20
	velocity	7.41	9.01	8.31	7.72	8.06		8.13	8.00	
Aoyama, Seika (JPN) (1996)	time	6.79	12.55	18.47	24.83	24.83	3 / 7			
	reaction time		interval	5.76	5.92	6.36	# of strides	12.55	12.28	0.27
	velocity	7.36	8.68	8.45	7.86	8.05		7.97	8.14	
Wada, Maki (JPN) (1986)	time	6.58	12.31	18.40	25.10	25.10	2 / 8			
	reaction time		interval	5.73	6.09	6.70	# of strides	12.31	12.79	-0.48
	velocity	7.60	8.73	8.21	7.46	7.97		8.12	7.82	

2016 Olympic Games (Río de Janeiro, BRA)

FINAL

date 17-Aug-16 wind -0.1 m/s *Butler (2021) - athletics statistics book: games of the XXXII Olympiad- Tokyo 2020*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Thompson, Elaine (JAM) (1992)	time		11.0		21.78	21.78	6 / 1			
	reaction time	0.152	interval		10.78		# of strides	11.00	10.78	0.22
	velocity		9.09		9.28	9.18	97.5	9.09	9.28	
Schippers, Dafne (NED) (1992)	time		11.2		21.88	21.88	4 / 2			
	reaction time	0.141	interval		10.68		# of strides	11.20	10.68	0.52
	velocity		8.93		9.36	9.14	91.7	8.93	9.36	
Bowie, Tori (USA) (1990)	time		11.3		22.15	22.15	5 / 3			
	reaction time	0.143	interval		10.85		# of strides	11.30	10.85	0.45
	velocity		8.85		9.22	9.03	91.5	8.85	9.22	
Ta Lou, Marie Josée (CIV) (1988)	time		11.3		22.21	22.21	3 / 4			
	reaction time	0.153	interval		10.91	NR PB	# of strides	11.30	10.91	0.39
	velocity		8.85		9.17	9.00	98.0	8.85	9.17	
Asher-Smith, Dina (GBR) (1995)	time		11.3		22.31	22.31	2 / 5			
	reaction time	0.135	interval		11.01		# of strides	11.30	11.01	0.29
	velocity		8.85		9.08	8.96	97.0	8.85	9.08	
Ahye, Michelle-Lee (TTO) (1992)	time		11.2		22.34	22.34	7 / 6			
	reaction time	0.158	interval		11.14		# of strides	11.20	11.14	0.06
	velocity		8.93		8.98	8.95	97.5	8.93	8.98	
Stevens, Deajah (USA) (1995)	time		11.5		22.65	22.65	1 / 7			
	reaction time	0.171	interval		11.15		# of strides	11.50	11.15	0.35
	velocity		8.70		8.97	8.83	91.0	8.70	8.97	
Lalova-Collio, Iveta (BUL) (1984)	time		11.3		22.69	22.69	8 / 8			
	reaction time	0.104	interval		11.39		# of strides	11.30	11.39	-0.09
	velocity		8.85		8.78	8.81	98.0	8.85	8.78	

Heat 5

date 15-Aug-16 wind 0.5 m/s *2016.08.15) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Fukushima, Chisato (JPN) (1984)	time		11.46		23.21	23.21	8 / 5			
	reaction time	0.125	interval		11.75		# of strides	11.46	11.75	-0.29
	velocity		8.73		8.51	8.62		8.73	8.51	

2016 Japanese National High School Championships (Okayama, JPN)

FINAL

date 01-Aug-16 wind 1.2 m/s *Kota (2016) - 69th high school championships: JAF scientific committee- biomechanics*

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

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

Saito, Ami (JPN) (1999)	time	6.02	11.83	17.46	23.60	23.60	5 / 1			
reaction time	0.156	interval	5.81	5.63	6.14		# of strides	11.83	11.77	0.06
		velocity	8.31	8.61	8.88	8.14	8.47	8.45	8.50	
Sasaki, Azusa (JPN) (1998)	time	6.07	12.04	17.80	24.00	24.00	6 / 2			
reaction time	0.153	interval	5.97	5.76	6.20	PB	# of strides	12.04	11.96	0.08
		velocity	8.24	8.38	8.68	8.06	8.33	8.31	8.36	
Shibata, Mie (JPN) (1998)	time	6.23	12.30	18.19	24.41	24.41	7 / 3			
reaction time	0.183	interval	6.07	5.89	6.22		# of strides	12.30	12.11	0.19
		velocity	8.03	8.24	8.49	8.04	8.19	8.13	8.26	
Aoki, Rin (JPN) (1998)	time	6.32	12.38	18.21	24.55	24.55	8 / 4			
reaction time	0.177	interval	6.06	5.83	6.34		# of strides	12.38	12.17	0.21
		velocity	7.91	8.25	8.58	7.89	8.15	8.08	8.22	
Shimada, Yukina (JPN) (1998)	time	6.19	12.30	18.25	24.55	24.55	4 / 5			
reaction time	0.179	interval	6.11	5.95	6.30		# of strides	12.30	12.25	0.05
		velocity	8.08	8.18	8.40	7.94	8.15	8.13	8.16	
Hatano, Minami (JPN) (1998)	time	6.32	12.45	18.32	24.56	24.56	9 / 6			
reaction time	0.150	interval	6.13	5.87	6.24		# of strides	12.45	12.11	0.34
		velocity	7.91	8.16	8.52	8.01	8.14	8.03	8.26	
Kishimoto, Wakana (JPN) (1998)	time	6.26	12.36	18.26	24.58	24.58	3 / 7			
reaction time	0.170	interval	6.10	5.90	6.32		# of strides	12.36	12.22	0.14
		velocity	7.99	8.20	8.47	7.91	8.14	8.09	8.18	
Fujii, Ayano (JPN) (1998)	time	6.36	12.54	18.47	24.89	24.89	2 / 8			
reaction time	0.190	interval	6.18	5.93	6.42		# of strides	12.54	12.35	0.19
		velocity	7.86	8.09	8.43	7.79	8.04	7.97	8.10	

2016 London Anniversary Games (London, GBR)

FINAL

date 23-Jul-16 wind -0.8 m/s(2016.07.23) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Schippers, Dafne (NED) (1992)	time			11.29		22.13	22.13	6 / 1			
reaction time	0.144	interval				10.84		# of strides	11.29	10.84	0.45
		velocity		8.86		9.23	9.04		8.86	9.23	
Townsend, Tiffany (USA) (1989)	time			11.45		22.63	22.63	7 / 2			
reaction time	0.191	interval				11.18		# of strides	11.45	11.18	0.27
		velocity		8.73		8.94	8.84		8.73	8.94	

2016 USA Olympic Trials (Eugene, OR)

FINAL

date 10-Jul-16 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
Bowie, Towie (USA) (1990)	time			11.2		22.25	22.25	7 / 1			
reaction time	0.232	interval				11.05		# of strides	11.20	11.05	0.15
		velocity		8.93		9.05	8.99	91.7	8.93	9.05	
Stevens, Deajah (USA) (1995)	time			11.4		22.30	22.30	4 / 2			
reaction time	0.185	interval				10.90		# of strides	11.40	10.90	0.50
		velocity		8.77		9.17	8.97	100.0	8.77	9.17	
Prandini, Jenna (USA) (1992)	time			11.3		22.53	22.53	6 / 3			
reaction time	0.187	interval				11.23		# of strides	11.30	11.23	0.07
		velocity		8.85		8.90	8.88	96.2	8.85	8.90	
Felix, Allyson (USA) (1985)	time			11.5		22.54	22.54	5 / 4			
reaction time	0.187	interval				11.04		# of strides	11.50	11.04	0.46
		velocity		8.70		9.06	8.87	93.0	8.70	9.06	
Washington, Ariana (USA) (199)	time			11.5		22.65	22.65	3 / 5			
reaction time	0.174	interval				11.15		# of strides	11.50	11.15	0.35
		velocity		8.70		8.97	8.83	92.2	8.70	8.97	

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

Thomas, Gabrielle (USA) (1996)	time	11.6	22.72	22.72	8 / 6				
reaction time	0.205	interval		11.12	# of strides	11.60	11.12	0.48	
		velocity	8.62	8.99	8.80	90.0	8.62	8.99	
Townsend, Tiffany (USA) (1989)	time	11.6	22.80	22.80	2 / 7				
reaction time	0.230	interval		11.20	# of strides	11.60	11.20	0.40	
		velocity	8.62	8.93	8.77	97.7	8.62	8.93	
Tarmoh, Jeneba (USA) (1989)	time	11.8	23.72	23.72	1 / 8				
reaction time	0.189	interval		11.92	# of strides	11.80	11.92	-0.12	
		velocity	8.47	8.39	8.43		8.47	8.39	

2016 Japanese National Championships (Nagoya, JPN)

FINAL

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

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Fukushima, Chisato (JPN) (1984)	time	6.25	11.46	16.92	22.88	22.88	/ 1			
reaction time		interval	5.21	5.46	5.96	NR	# of strides	11.46	11.42	0.04
		velocity	8.00	9.60	9.16	8.74		8.73	8.76	
Saito, Ami (JPN) (1999)	time	6.49	11.75	17.33	23.46	23.46	/ 2			
reaction time		interval	5.26	5.58	6.13	NJR	# of strides	11.75	11.71	0.04
		velocity	7.70	9.51	8.96	8.16	8.53	8.51	8.54	
Nagano, Mariko (JPN) (1994)	time	6.57	12.00	17.71	23.96	23.96	/ 5			
reaction time		interval	5.43	5.71	6.25	PB	# of strides	12.00	11.96	0.04
		velocity	7.61	9.21	8.76	8.00	8.35	8.33	8.36	
Banno, Rio (JPN) (1990)	time	6.60	12.06	17.79	24.07	24.07	/ 6			
reaction time		interval	5.46	5.73	6.28		# of strides	12.06	12.01	0.05
		velocity	7.58	9.16	8.73	7.96	8.31	8.29	8.33	
Maeyama, Miyu (JPN) (1996)	time	6.53	12.00	17.80	24.26	24.26	/ 7			
reaction time		interval	5.47	5.80	6.46		# of strides	12.00	12.26	-0.26
		velocity	7.66	9.14	8.62	7.74	8.24	8.33	8.16	

2016 Bislett Games (Oslo, NOR)

FINAL

date 09-Jun-16 wind 0.7 m/s 2016.06.09) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Schippers, Dafne (NED) (1992)	time	6.25	11.15	17.93	21.93	21.93	5 / 1			
reaction time	0.150	interval	4.90	10.78			# of strides	11.15	10.78	0.37
		velocity	8.00	10.20	9.28	9.12		8.97	9.28	

2016 Schweizer Verein Meisterschaften (St. Gallen, SUI)

FINAL

date 21-May-16 wind 0.6m/s Swiss Athletics (2016) - sprint and hurdle analysis

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Atcho, Sarah (SUI) (1995)	time	11.80	17.43	23.57	23.57	23.57	/ 1			
reaction time		interval	5.63	6.14			# of strides	11.80	11.77	0.03
		velocity	8.47	8.88	8.14	8.49		8.47	8.50	
Kora, Salomé (SUI) (1994)	time	11.88	17.58	23.92	23.92	23.92	/ 2			
reaction time		interval	5.70	6.34			# of strides	11.88	12.04	-0.16
		velocity	8.42	8.77	7.89	8.36		8.42	8.31	

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

FINAL

date 07-May-16 wind 1.0 m/s Swiss Athletics (2016) - sprint and hurdle analysis

		50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	50-150m
Sprunger, Léa (SUI) (1990)	time	6.44	11.55	17.06	17.06	/ 1			
reaction time		interval	5.11	5.51	PB	# of strides	11.55		10.62
		velocity	7.76	9.78	9.07	8.79	8.66		9.42
Sprunger, Ellen (SUI) (1986)	time	6.46	11.60	17.18	17.18	/ 2			
reaction time		interval	5.14	5.58	PB	# of strides	11.60		10.72
		velocity	7.74	9.73	8.96	8.73	8.62		9.33

Kora, Salomé (SUI) (1994)	time	6.56	11.75	17.29	17.29	/ 3			
	reaction time	interval	5.19	5.54	PB	# of strides	11.75	10.73	
	velocity	7.62	9.63	9.03	8.68	8.51	9.32		
Atcho, Sarah (SUI) (1995)	time	6.58	11.82	17.48	17.48	/ 4			
	reaction time	interval	5.24	5.66	PB	# of strides	11.82	10.90	
	velocity	7.60	9.54	8.83	8.58	8.46	9.17		
Del Ponte, Ajla (SUI) (1996)	time	6.62	11.96	17.72	17.72	/ 5			
	reaction time	interval	5.34	5.76	PB	# of strides	11.96	11.10	
	velocity	7.55	9.36	8.68	8.47	8.36	9.01		
Golay, Joëlle (SUI) (1987)	time	6.86	12.45	18.35	18.35	/ 6			
	reaction time	interval	5.59	5.90		# of strides	12.45	11.49	
	velocity	7.29	8.94	8.47	8.17	8.03	8.70		

2016 Shizuoka International Athletics Meeting (Fukuroi, JPN)

A FINAL

date 03-May-16 wind -1.5 m/s Takahashi (2016) - performance analysis of the top 200m sprinters in japan & abroad

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Pierre, Barbara (USA) (1987)	time	6.32	11.69	17.52	23.99	23.99	/ 1			
	reaction time	interval	5.37	5.83	6.47		# of strides	11.69	12.30	-0.61
	velocity	7.91	9.31	8.58	7.73	8.34	8.55	8.13		
Breen, Melissa (AUS) (1990)	time	6.53	11.99	17.81	24.15	24.15	/ 2			
	reaction time	interval	5.46	5.82	6.34		# of strides	11.99	12.16	-0.17
	velocity	7.66	9.16	8.59	7.89	8.28	8.34	8.22		
Brennan, Monica (AUS) (1994)	time	6.66	12.16	17.91	24.15	24.15	/ 3			
	reaction time	interval	5.50	5.75	6.24		# of strides	12.16	11.99	0.17
	velocity	7.51	9.09	8.70	8.01	8.28	8.22	8.34		
Ichikawa, Kana (JPN) (1991)	time	6.75	12.26	18.00	24.28	24.28	/ 4			
	reaction time	interval	5.51	5.74	6.28		# of strides	12.26	12.02	0.24
	velocity	7.41	9.07	8.71	7.96	8.24	8.16	8.32		

B FINAL

03-May-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
Saito, Ami (JPN) (1999)	time	6.78	12.31	17.92	23.96	23.96	/ 1			
	reaction time	interval	5.53	5.61	6.04		# of strides	12.31	11.65	0.66
	velocity	7.37	9.04	8.91	8.28	8.35	8.12	8.58		

C FINAL

03-May-16 wind 0.1 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
Nagano, Mariko (JPN) (1994)	time	6.60	12.20	18.01	24.30	24.30	/ 1			
	reaction time	interval	5.60	5.81	6.29		# of strides	12.20	12.10	0.10
	velocity	7.58	8.93	8.61	7.95	8.23	8.20	8.26		

2015 IAAF World Championships (Beijing, CHN)

FINAL

date 28-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
Schippers, Dafne (NED) (1992)	time	6.22	11.13	16.17	21.63	21.63	6 / 1			
	reaction time 0.149	interval	4.91	5.04	5.46	AR	# of strides	11.13	10.50	0.63
	velocity	8.04	10.18	9.92	9.16	9.25	90.5	8.98	9.52	
Thompson, Elaine (JAM) (1992)	time	6.21	11.06	16.12	21.66	21.66	5 / 2			
	reaction time 0.195	interval	4.85	5.06	5.54	PB	# of strides	11.06	10.60	0.46
	velocity	8.05	10.31	9.88	9.03	9.23	95.5	9.04	9.43	
Campbell-Brown, Veronica (JAI)	time	6.12	11.04	16.25	21.97	21.97	2 / 3			
	reaction time 0.142	interval	4.92	5.21	5.72		# of strides	11.04	10.93	0.11
	velocity	8.17	10.16	9.60	8.74	9.10	94.2	9.06	9.15	
McGrone, Candyce (USA) (1989)	time		11.0		22.0	22.01	7 / 4			
	reaction time 0.158	interval			11.00	PB	# of strides	11.00	11.00	0.00
	velocity		9.09		9.09	9.09	96.5	9.09	9.09	

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

Asher-Smith, Dina (GBR) (1995)	time	11.2	22.1	22.07	4 / 5				
reaction time	0.162	interval	10.90	NR PB	# of strides	11.20	10.90	0.30	
		velocity	8.93	9.17	9.06	92.2	8.93	9.17	
Tarmoh, Jeneba (USA) (1989)	time	11.2	22.3	22.31	8 / 6				
reaction time	0.150	interval	11.10		# of strides	11.20	11.10	0.10	
		velocity	8.93	9.01	8.96	90.2	8.93	9.01	
Lalova-Collio, Ivet (BUL) (1984)	time	11.4	22.4	22.41	3 / 7				
reaction time	0.157	interval	11.00		# of strides	11.40	11.00	0.40	
		velocity	8.77	9.09	8.92	92.2	8.77	9.09	
Simpson, Sherone (JAM) (1984)	time	11.4	22.5	22.50	9 / 8				
reaction time	0.148	interval	11.10		# of strides	11.40	11.10	0.30	
		velocity	8.77	9.01	8.89		8.77	9.01	

Heat 5

date 26-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
Fukushima, Chisato (JPN) (1984)	time	6.29	11.54	17.16	23.30	23.30	2 / 5			
reaction time	0.157	interval	5.25	5.62	6.14		# of strides	11.54	11.76	-0.22
		velocity	7.95	9.52	8.90	8.14	8.58	103.7	8.67	8.50

2015 Japanese National High School Championships (Wakayama, JPN)**FINAL**

date 01-Aug-15 wind -3.4 m/s Enomoto (2015) - 68th high school championships: JAF scientific committee- biomechanics

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Kawamura, Tomomi (JPN) (1997)	time	6.14	12.20	18.11	24.57	24.57	6 / 1			
reaction time		interval	6.06	5.91	6.46		# of strides	12.20	12.37	-0.17
		velocity	8.14	8.25	8.46	7.74	8.14	8.20	8.08	
Sugiyama, Sumire (JPN) (1997)	time	6.33	12.44	18.23	24.60	24.60	8 / 2			
reaction time		interval	6.11	5.79	6.37	PB	# of strides	12.44	12.16	0.28
		velocity	7.90	8.18	8.64	7.85	8.13	8.04	8.22	
Edobar, Iyoba (JPN) (1997)	time	6.32	12.43	18.30	24.71	24.71	3 / 3			
reaction time		interval	6.11	5.87	6.41		# of strides	12.43	12.28	0.15
		velocity	7.91	8.18	8.52	7.80	8.09	8.05	8.14	
Miyazaki, Amika (JPN) (1998)	time	6.26	12.38	18.26	24.74	24.74	7 / 4			
reaction time		interval	6.12	5.88	6.48		# of strides	12.38	12.36	0.02
		velocity	7.99	8.17	8.50	7.72	8.08	8.08	8.09	
Shibata, Mie (JPN) (1998)	time	6.29	12.48	18.45	24.79	24.79	4 / 5			
reaction time		interval	6.19	5.97	6.34		# of strides	12.48	12.31	0.17
		velocity	7.95	8.08	8.38	7.89	8.07	8.01	8.12	
Miyake, Marina (JPN) (1997)	time	6.27	12.42	18.37	24.81	24.81	2 / 6			
reaction time		interval	6.15	5.95	6.44		# of strides	12.42	12.39	0.03
		velocity	7.97	8.13	8.40	7.76	8.06	8.05	8.07	
Yuasa, Kanako (JPN) (1997)	time	6.27	12.45	18.40	24.89	24.89	9 / 7			
reaction time		interval	6.18	5.95	6.49		# of strides	12.45	12.44	0.01
		velocity	7.97	8.09	8.40	7.70	8.04	8.03	8.04	
Saito, Manami (JPN) (1999)	time	6.48	12.90	18.85	25.30	25.30	5 / 8			
reaction time		interval	6.42	5.95	6.45		# of strides	12.90	12.40	0.50
		velocity	7.72	7.79	8.40	7.75	7.91	7.75	8.06	

2015 Windsprint (Sundsvall, SWE)**A FINAL**

date 26-Jul-15 wind 0.8 m/s

(2015) - www.windsprint/Splittider/

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hjelmer, Moa (SWE) (1990)	time	12.10			23.57	23.57	3 / 1			
reaction time		interval			11.47		# of strides	12.10	11.47	0.63
		velocity	8.26		8.72	8.49		8.26	8.72	

Williams, Sherika (JAM) (1985)	time	12.10	23.71	23.71	4 / 2			
reaction time	interval		11.61		# of strides	12.10	11.61	0.49
	velocity	8.26	8.61	8.44		8.26	8.61	
Slettum, Elisabeth (NOR) (1986)	time	12.27	23.92	23.92	6 / 3			
reaction time	interval		11.65		# of strides	12.27	11.65	0.62
	velocity	8.15	8.58	8.36		8.15	8.58	
Williams, Christania (JAM) (1991)	time	12.25	24.33	24.33	2 / 4			
reaction time	interval		12.08		# of strides	12.25	12.08	0.17
	velocity	8.16	8.28	8.22		8.16	8.28	
Latvala, Hanna-Maari (FIN) (1987)	time	12.25	24.58	24.58	5 / 5			
reaction time	interval		12.33		# of strides	12.25	12.33	-0.08
	velocity	8.16	8.11	8.14		8.16	8.11	

B FINAL

date 26-Jul-15 wind 1.6 m/s (2015) - www.windsprint/Splittider/

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Tornemark, Pernilla (SWE) (1984)	time	12.60	24.80	24.80	4 / 1					
reaction time	interval		12.20		# of strides	12.60	12.20	0.40		
	velocity	7.94	8.20	8.06		7.94	8.20			
Ström, Malin (SWE) (1986)	time	12.61	24.96	24.96	6 / 2					
reaction time	interval		12.35		# of strides	12.61	12.35	0.26		
	velocity	7.93	8.10	8.01		7.93	8.10			
Montler, Estelle (SWE) (1991)	time	12.90	25.21	25.21	5 / 3					
reaction time	interval		12.31		# of strides	12.90	12.31	0.59		
	velocity	7.75	8.12	7.93		7.75	8.12			
Næss, Heidi Hessian (NOR) (1987)	time	12.87	25.37	25.37	3 / 4					
reaction time	interval		12.50		# of strides	12.87	12.50	0.37		
	velocity	7.77	8.00	7.88		7.77	8.00			

2015 Japanese National Championships (Niigata, JPN)**FINAL**

date 27-Jun-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
Fukushima, Chisato (JPN) (1987)	time	6.40	11.67	17.21	23.23	23.23	4 / 1			
reaction time	0.149 interval		5.27	5.54	6.02		# of strides	11.67	11.56	0.11
	velocity	7.81	9.49	9.03	8.31	8.61	103.0	8.57	8.65	
Fujisawa, Sayaka (JPN) (1991)	time	6.70	12.10	17.70	23.81	23.81	6 / 2			
reaction time	0.178 interval		5.40	5.60	6.11	PB	# of strides	12.10	11.71	0.39
	velocity	7.46	9.26	8.93	8.18	8.40	102.0	8.26	8.54	
Ichikawa, Kana (JPN) (1991)	time	6.79	12.25	17.85	24.07	24.07	7 / 3			
reaction time	0.151 interval		5.46	5.60	6.22		# of strides	12.25	11.82	0.43
	velocity	7.36	9.16	8.93	8.04	8.31	97.5	8.16	8.46	
Nakamura, Mitsugi (JPN) (1996)	time	6.67	12.17	17.85	24.22	24.22	8 / 4			
reaction time	0.157 interval		5.50	5.68	6.37		# of strides	12.17	12.05	0.12
	velocity	7.50	9.09	8.80	7.85	8.26	98.0	8.22	8.30	
Eguchi, Kotomi (JPN) (1997)	time	6.78	12.32	18.05	24.28	24.28	3 / 5			
reaction time	0.182 interval		5.54	5.73	6.23		# of strides	12.32	11.96	0.36
	velocity	7.37	9.03	8.73	8.03	8.24	106.0	8.12	8.36	
Nakano, Makoto (JPN) (1997)	time	6.65	12.20	17.98	24.38	24.38	2 / 6			
reaction time	0.164 interval		5.55	5.78	6.40		# of strides	12.20	12.18	0.02
	velocity	7.52	9.01	8.65	7.81	8.20	112.0	8.20	8.21	
Banno, Rio (JPN) (1990)	time	6.75	12.35	18.15	24.41	24.41	9 / 7			
reaction time	0.156 interval		5.60	5.80	6.26		# of strides	12.35	12.06	0.29
	velocity	7.41	8.93	8.62	7.99	8.19	98.7	8.10	8.29	
Aoyama, Seika (JPN) (1996)	time	7.08	12.79	18.53	24.81	24.81	5 / 8			

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

reaction time	0.245	interval	5.71	5.74	6.28	# of strides	12.79	12.02	0.77	
		velocity	7.06	8.76	8.71	7.96	8.06	102.0	7.82	8.32

2015 NCAA Championships (Eugene, OR)**FINAL**

		date	13-Jun-15	wind	1.9 m/s	USTFCCCA (2017) - NCAA DI outdoor championship history						
				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Bryant, Dezerea (USA) (1993)	time				11.3		22.2	22.18	6 / 1			
	reaction time						10.90	PB	# of strides	11.30	10.90	0.40
					8.85		9.17	9.02		8.85	9.17	
Prandini, Jenna (USA) (1992)	time				11.3		22.2	22.21	3 / 2			
	reaction time						10.90	PB	# of strides	11.30	10.90	0.40
					8.85		9.17	9.00		8.85	9.17	
Brown, Kamaria (USA) (1992)	time				11.4		22.2	22.24	5 / 3			
	reaction time						10.80	PB	# of strides	11.40	10.80	0.60
					8.77		9.26	8.99		8.77	9.26	
Jefferson, Kyra (USA) (1994)	time				11.5		22.2	22.24	4 / 4			
	reaction time						10.70	PB	# of strides	11.50	10.70	0.80
					8.70		9.35	8.99		8.70	9.35	
Akinosun, Morolake (USA) (1999)	time				11.7		22.5	22.52	7 / 5			
	reaction time						10.80	PB	# of strides	11.70	10.80	0.90
					8.55		9.26	8.88		8.55	9.26	

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

		date	10-May-15	wind	1.0 m/s	Takahashi (2015) - 200m race analysis of Japanese and the World best of 2015							
					50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Facey, Simone (JAM) (1985)	time				6.27	11.44	16.85	22.65	22.65	4 / 1			
	reaction time						5.17	5.80		# of strides	11.44	11.21	0.23
					7.97	9.67	9.24	8.62	8.83		8.74	8.92	
Townsend, Tiffany (USA) (1989)	time				6.42	11.61	16.99	22.85	22.85	5 / 2			
	reaction time						5.19	5.86		# of strides	11.61	11.24	0.37
					7.79	9.63	9.29	8.53	8.75		8.61	8.90	
Ta Lou, Marie Josée (CIV) (1988)	time				6.37	11.57	17.02	22.88	22.88	2 / 3			
	reaction time						5.20	5.86		# of strides	11.57	11.31	0.26
					7.85	9.62	9.17	8.53	8.74		8.64	8.84	
Fukushima, Chisato (JPN) (1988)	time				6.26	11.52	17.08	23.11	23.11	6 / 4			
	reaction time						5.26	6.03		# of strides	11.52	11.59	-0.07
					7.99	9.51	8.99	8.29	8.65		8.68	8.63	
Renzhina, Yekaterina (RUS) (1991)	time				6.42	11.72	17.32	23.23	23.23	3 / 5			
	reaction time						5.30	5.91		# of strides	11.72	11.51	0.21
					7.79	9.43	8.93	8.46	8.61		8.53	8.69	
Safronova, Olga (KAZ) (1991)	time				6.45	11.74	17.40	23.74	23.74	7 / 6			
	reaction time						5.29	6.34		# of strides	11.74	12.00	-0.26
					7.75	9.45	8.83	7.89	8.42		8.52	8.33	
Moore, LaShauntea (USA) (1988)	time				6.60	11.97	17.63	23.79	23.79	1 / 7			
	reaction time						5.37	6.16		# of strides	11.97	11.82	0.15
					7.58	9.31	8.83	8.12	8.41		8.35	8.46	
Ichikawa, Kana (JPN) (1991)	time				6.69	12.20	17.84	23.88	23.88	8 / 8			
	reaction time						5.51	6.04		# of strides	12.20	11.68	0.52
					7.47	9.07	8.87	8.28	8.38		8.20	8.56	

2015 Mikio Oda Memorial (Hiroshima, JPN)**FINAL**

		date	18-Apr-15	wind	1.7 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
Fukushima, Chisato (JPN) (1988)	time				6.34	11.73	17.36	23.54	23.54	4 / 1			

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

reaction time	interval	5.39	5.63	6.18		# of strides	11.73	11.81	-0.08	
	velocity	7.89	9.28	8.88	8.09	8.50	99.5	8.53	8.47	
Ichikawa, Kana (JPN) (1991)	time	6.73	12.22	17.88	24.01	24.01	6 / 2			
reaction time	interval		5.49	5.66	6.13		# of strides	12.22	11.79	0.43
	velocity	7.43	9.11	8.83	8.16	8.33	96.7	8.18	8.48	
Doi, Anna (JPN) (1995)	time	6.58	12.05	17.78	24.02	24.02	5 / 3			
reaction time	interval		5.47	5.73	6.24		# of strides	12.05	11.97	0.08
	velocity	7.60	9.14	8.73	8.01	8.33	106.2	8.30	8.35	
Fujisawa, Sayaka (JPN) (1991)	time	6.81	12.37	18.05	24.11	24.11	3 / 4			
reaction time	interval		5.56	5.68	6.06		# of strides	12.37	11.74	0.63
	velocity	7.34	8.99	8.80	8.25	8.30	102.2	8.08	8.52	
Banno, Rio (JPN) (1990)	time	6.80	12.44	18.29	24.40	24.40	8 / 5			
reaction time	interval		5.64	5.85	6.11		# of strides	12.44	11.96	0.48
	velocity	7.35	8.87	8.55	8.18	8.20	98.0	8.04	8.36	
Kim Min-Ji (KOR) (1990)	time	6.71	12.33	18.20	24.47	24.47	7 / 6			
reaction time	interval		5.62	5.87	6.27		# of strides	12.33	12.14	0.19
	velocity	7.45	8.90	8.52	7.97	8.17	103.0	8.11	8.24	
Wada, Maki (JPN) (1986)	time	6.67	12.33	18.23	24.63	24.63	1 / 7			
reaction time	interval		5.66	5.90	6.40		# of strides	12.33	12.30	0.03
	velocity	7.50	8.83	8.47	7.81	8.12	105.5	8.11	8.13	
Miyake, Naoka (JPN) (1991)	time	6.88	12.63	18.55	24.92	24.92	2 / 8			
reaction time	interval		5.75	5.92	6.37		# of strides	12.63	12.29	0.34
	velocity	7.27	8.70	8.45	7.85	8.03	103.7	7.92	8.14	

2014 Windsprint (Sundsvall, SWE)**A FINAL**

date 20-Jul-14

wind 2.7 m/s

Johansen (2014) - www.ssg.se/windsprint/Splittider/

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Williams, Christania (JAM) (1991)	time		11.81		23.22	23.22	4 / 1			
reaction time	interval				11.41		# of strides	11.81	11.41	0.40
	velocity		8.47		8.76	8.61		8.47	8.76	
Okparaebo, Ezinne (NOR) (1988)	time		11.69		23.69	23.69	3 / 2			
reaction time	interval				12.00		# of strides	11.69	12.00	-0.31
	velocity		8.55		8.33	8.44		8.55	8.33	
Nilsson, Pernilla (SWE) (1992)	time		12.16		23.94	23.94	2 / 3			
reaction time	interval				11.78		# of strides	12.16	11.78	0.38
	velocity		8.22		8.49	8.35		8.22	8.49	
Jensen, Christine (NOR) (1994)	time		12.38		24.36	24.36	6 / 4			
reaction time	interval				11.98		# of strides	12.38	11.98	0.40
	velocity		8.08		8.35	8.21		8.08	8.35	

B FINAL

date 20-Jul-14

wind 1.8 m/s

Johansen (2014) - www.ssg.se/windsprint/Splittider/

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Slettum, Elisabeth (NOR) (1986)	time		12.49		24.11	24.11	4 / 1			
reaction time	interval				11.62		# of strides	12.49	11.62	0.87
	velocity		8.01		8.61	8.30		8.01	8.61	
Bamane, Gladys (SWE) (1989)	time		12.55		24.62	24.62	2 / 2			
reaction time	interval				12.07	PB	# of strides	12.55	12.07	0.48
	velocity		7.97		8.29	8.12		7.97	8.29	
Tornemark, Pernilla (SWE) (1986)	time		12.55		24.81	24.81	3 / 3			
reaction time	interval				12.26		# of strides	12.55	12.26	0.29
	velocity		7.97		8.16	8.06		7.97	8.16	
Tomb, Stine (NOR) (1986)	time		12.71		25.33	25.33	5 / 4			
reaction time	interval				12.62		# of strides	12.71	12.62	0.09

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

velocity	7.87	7.92	7.90	7.87	7.92
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C FINAL

date	20-Jul-14	wind	1.6 m/s	Johansen (2014) - www.ssg.se/windsprint/Splittider/						
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		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Morgan, Lynette (SWE) (1991)	time		12.65		24.55	24.55	5 / 1			
	reaction time				11.90	PB	# of strides	12.65	11.90	0.75
	velocity	7.91			8.40	8.15		7.91	8.40	
Hellberg-Jonsén, Sofia (SWE) (1991)	time		12.52		25.07	25.07	2 / 2			
	reaction time				12.55		# of strides	12.52	12.55	-0.03
	velocity	7.99			7.97	7.98		7.99	7.97	
Grønneberg, Alvide (NOR) (1991)	time		12.86		25.15	25.15	4 / 3			
	reaction time				12.29		# of strides	12.86	12.29	0.57
	velocity	7.78			8.14	7.95		7.78	8.14	
Hässel, Julia (SWE) (1994)	time		12.65		25.16	25.16	3 / 4			
	reaction time				12.51		# of strides	12.65	12.51	0.14
	velocity	7.91			7.99	7.95		7.91	7.99	

D FINAL

date	20-Jul-14	wind	2.0 m/s	Johansen (2014) - www.ssg.se/windsprint/Splittider/						
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		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Samuelsson, Jessica (SWE) (1991)	time		12.59		24.57	24.57	4 / 1			
	reaction time				11.98		# of strides	12.59	11.98	0.61
	velocity	7.94			8.35	8.14		7.94	8.35	
Johansson, Malin (SWE) (1992)	time		12.76		24.92	24.92	2 / 2			
	reaction time				12.16	PB	# of strides	12.76	12.16	0.60
	velocity	7.84			8.22	8.03		7.84	8.22	
Sönnerfors, Marie (SWE) (1993)	time		12.85		25.31	25.31	5 / 3			
	reaction time				12.46		# of strides	12.85	12.46	0.39
	velocity	7.78			8.03	7.90		7.78	8.03	
Evensen, Marianne (NOR) (1996)	time		13.34		26.33	26.33	3 / 4			
	reaction time				12.99		# of strides	13.34	12.99	0.35
	velocity	7.50			7.70	7.60		7.50	7.70	

E FINAL

date	20-Jul-14	wind	1.3 m/s	Johansen (2014) - www.ssg.se/windsprint/Splittider/						
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		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Næss, Heidi Hessa (NOR) (1988)	time		13.14		25.42	25.42	5 / 1			
	reaction time				12.28		# of strides	13.14	12.28	0.86
	velocity	7.61			8.14	7.87		7.61	8.14	
Brubak, Mari Gilde (NOR) (1990)	time		13.10		25.51	25.51	3 / 2			
	reaction time				12.41		# of strides	13.10	12.41	0.69
	velocity	7.63			8.06	7.84		7.63	8.06	
Jansson, Ida (SWE) (1995)	time		13.08		25.67	25.67	4 / 3			
	reaction time				12.59		# of strides	13.08	12.59	0.49
	velocity	7.65			7.94	7.79		7.65	7.94	
Ullgren, Moa (SWE) (1996)	time		13.17		26.30	26.30	2 / 4			
	reaction time				13.13		# of strides	13.17	13.13	0.04
	velocity	7.59			7.62	7.60		7.59	7.62	

F FINAL

date	20-Jul-14	wind	0.1 m/s	Johansen (2014) - www.ssg.se/windsprint/Splittider/						
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		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Wallström, Frida (SWE) (1995)	time		13.50		27.22	27.22	3 / 1			
	reaction time				13.72	PB	# of strides	13.50	13.72	-0.22
	velocity	7.41			7.29	7.35		7.41	7.29	
Sögenesand, Emelie (NOR) (1994)	time		13.73		27.94	27.94	4 / 2			
	reaction time				14.21		# of strides	13.73	14.21	-0.48
	velocity	7.28			7.04	7.16		7.28	7.04	

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

Jirhed, Josefine (SWE) (1995)	time	13.95	28.00	28.00	2 / 3				
reaction time	interval		14.05	PB	# of strides	13.95	14.05	-0.10	
	velocity	7.17	7.12	7.14		7.17	7.12		

2014 NCAA Championships (Eugene, OR)**FINAL**

date 14-Jun-14 wind 2.2 m/s

USTFCCCA (2017) - NCAA DI outdoor championship history

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Brown, Kamaria (USA) (1992)	time	11.6	22.6	22.63	5 / 1					
reaction time	interval		11.00	# of strides	11.60	11.00	0.60			
	velocity	8.62	9.09	8.84	8.62	9.09				
Prandini, Jenna (USA) (1992)	time	11.5	22.6	22.63	4 / 2					
reaction time	interval		11.10	# of strides	11.50	11.10	0.40			
	velocity	8.70	9.01	8.84	8.70	9.01				
Ekponé, Olivia (USA) (1993)	time	11.8	22.6	22.64	2 / 3					
reaction time	interval		10.80	# of strides	11.80	10.80	1.00			
	velocity	8.47	9.26	8.83	8.47	9.26				

2013 IAAF World Championships (Moscow, RUS)**FINAL**

date 16-Aug-13 wind -0.3 m/s

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Fraser-Pryce, Shelly-Ann (JAM)	0.156	no information available			22.17	4 / 1		# of strides	100.5	
Ahouré, Murielle (CIV) (1987)	0.180	no information available			22.32	6 / 2		# of strides	99.2	
Okagbare, Blessing (NGR) (1987)	0.154	no information available			22.32	5 / 3		# of strides	90.5	
Miller, Shaunae (BAH) (1994)	0.146	no information available			22.74	7 / 4		# of strides	90.2	
Tarmoh, Jeneba (USA) (1989)	0.161	no information available			22.78	1 / 5		# of strides	94.5	
Williams, Charonda (USA) (1987)	0.155	no information available			22.81	2 / 6		# of strides	96.2	
Ryemyen, Mariya (UKR) (1987)	0.197	no information available			22.84	8 / 7		# of strides	98.2	
Felix, Allyson (USA) (1985)	0.181	no information available			dnf	3 / --				

2013 Windsprint (Sundsvall, SWE)**A FINAL**

date 28-Jul-13 wind 1.6 m/s

(2013) - www.ssg.se/windsprint/Splittider/

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Morrison, Natasha (JAM) (1992)	time	11.68	17.10	23.08	23.08	2 / 1				
reaction time	interval		5.42	5.98	# of strides	11.68	11.40	0.28		
	velocity	8.56	9.23	8.36	8.67	8.56	8.77			
Lee, Muna (USA) (1981)	time	11.96	17.41	23.20	23.20	3 / 2				
reaction time	interval		5.45	5.79	# of strides	11.96	11.24	0.72		
	velocity	8.36	9.17	8.64	8.62	8.36	8.90			
Hjelmar, Moa (SWE) (1990)	time	11.91	17.43	23.28	23.28	4 / 3				
reaction time	interval		5.52	5.85	# of strides	11.91	11.37	0.54		
	velocity	8.40	9.06	8.55	8.59	8.40	8.80			
Katsura, Yuliya (RUS) (1983)	time	12.01	17.71	23.83	23.83	6 / 4				
reaction time	interval		5.70	6.12	# of strides	12.01	11.82	0.19		
	velocity	8.33	8.77	8.17	8.39	8.33	8.46			
Thomas, Vashti (USA) (1990)	time	12.21	18.14	24.55	24.55	5 / 5				
reaction time	interval		5.93	6.41	# of strides	12.21	12.34	-0.13		
	velocity	8.19	8.43	7.80	8.15	8.19	8.10			

B FINAL

date 28-Jul-13 wind -0.1 m/s

(2013) - www.ssg.se/windsprint/Splittider/

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Russell, Carrie (JAM) (1990)	time	11.71	17.28	23.44	23.44	4 / 1				
reaction time	interval		5.57	6.16	# of strides	11.71	11.73	-0.02		
	velocity	8.54	8.98	8.12	8.53	8.54	8.53			
Foster, Amy (IRL) (1988)	time	12.05	17.62	23.61	23.61	5 / 2				
reaction time	interval		5.57	5.99	# of strides	12.05	11.56	0.49		
	velocity	8.30	8.98	8.35	8.47	8.30	8.65			

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DV=Drug Violation

Slettum, Elisabeth (NOR) (1986)	time	12.10	17.68	23.62	23.62	3 / 3			
	reaction time	interval	5.58	5.94		# of strides	12.10	11.52	0.58
		velocity	8.26	8.96	8.47		8.26	8.68	
Busk, Daniella (SWE) (1993)	time	12.18	17.82	23.99	23.99	6 / 4			
	reaction time	interval	5.64	6.17		# of strides	12.18	11.81	0.37
		velocity	8.21	8.87	8.10	8.34	8.21	8.47	

2013 Czech Republic National Championships (Tábor, CZE)

FINAL

	date	16-Jun-13	wind	0.3 m/s	Feher (2013) - Final report from men's & women's Czech Republic national champs						
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Rosolová, Denisa (CZE) (1986)	time	6.54	11.78	17.33	23.25	23.25	5 / 1				
	reaction time	0.205	interval	5.24	5.55	5.92	# of strides	11.78	11.47	0.31	
		velocity	7.65	9.54	9.01	8.45	8.60		8.49	8.72	
Čechová, Katerina (CZE) (1988)	time	6.43	11.73	17.30	23.40	23.40	3 / 2				
	reaction time	0.161	interval	5.30	5.57	6.10	PB	# of strides	11.73	11.67	0.06
		velocity	7.78	9.43	8.98	8.20	8.55		8.53	8.57	
Hejnová, Zuzana (CZE) (1986)	time	6.65	12.00	17.62	23.65	23.65	4 / 3				
	reaction time	0.134	interval	5.35	5.62	6.03	PB	# of strides	12.00	11.65	0.35
		velocity	7.52	9.35	8.90	8.29	8.46		8.33	8.58	
Schmidová, Martina (CZE) (1991)	time	6.72	12.53	17.84	23.97	23.97	7 / 4				
	reaction time	0.241	interval	5.81	5.31	6.13	PB	# of strides	12.53	11.44	1.09
		velocity	7.44	8.61	9.42	8.16	8.34		7.98	8.74	
Seidlová, Klára (CZE) (1994)	time	6.67	12.14	17.89	24.12	24.12	2 / 5				
	reaction time	0.144	interval	5.47	5.75	6.23	# of strides	12.14	11.98	0.16	
		velocity	7.50	9.14	8.70	8.03	8.29		8.24	8.35	
Hrívnová, Pavla (CZE) (1986)	time	6.89	12.12	18.38	24.61	24.61	8 / 6				
	reaction time	0.238	interval	5.23	6.26	6.23	# of strides	12.12	12.49	-0.37	
		velocity	7.26	9.56	7.99	8.03	8.13		8.25	8.01	
Sotáková, Jana (CZE) (1993)	time	6.82	12.43	18.39	24.91	24.91	1 / 7				
	reaction time	0.153	interval	5.61	5.96	6.52	# of strides	12.43	12.48	-0.05	
		velocity	7.33	8.91	8.39	7.67	8.03		8.05	8.01	

Heat 3

	date	16-Jun-13	wind	-0.3 m/s	Feher (2013) - Final report from men's & women's Czech Republic national champs						
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hejnová, Zuzana (CZE) (1986)	time	6.74	12.15	17.83	23.99	23.99	4 / 1				
	reaction time	0.156	interval	5.41	5.68	6.16	# of strides	12.15	11.84	0.31	
		velocity	7.42	9.24	8.80	8.12	8.34		8.23	8.45	
Procházková, Barbora (CZE) (1986)	time	6.64	12.05	18.39	24.06	24.06	5 / 2				
	reaction time	0.215	interval	5.41	6.34	5.67	# of strides	12.05	12.01	0.04	
		velocity	7.53	9.24	7.89	8.82	8.31		8.30	8.33	
Sotáková, Jana (CZE) (1993)	time	6.90	12.45	18.34	24.75	24.75	6 / 3				
	reaction time	0.223	interval	5.55	5.89	6.41	# of strides	12.45	12.30	0.15	
		velocity	7.25	9.01	8.49	7.80	8.08		8.03	8.13	
Janoušová, Jana (CZE) (1995)	time	6.72	12.39	18.30	25.02	25.02	2 / 4				
	reaction time	0.176	interval	5.67	5.91	6.72	# of strides	12.39	12.63	-0.24	
		velocity	7.44	8.82	8.46	7.44	7.99		8.07	7.92	
Mazáčková, Iveta (CZE) (1986)	time	6.67	12.29	17.85	25.04	25.04	3 / 5				
	reaction time	0.241	interval	5.62	5.56	7.19	# of strides	12.29	12.75	-0.46	
		velocity	7.50	8.90	8.99	6.95	7.99		8.14	7.84	

Heat 2

	date	16-Jun-13	wind	-1.1 m/s	Feher (2013) - Final report from men's & women's Czech Republic national champs						
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Rosolová, Denisa (CZE) (1986)	time	6.62	11.94	17.68	24.04	24.04	4 / 1				
	reaction time	0.231	interval	5.32	5.74	6.36	# of strides	11.94	12.10	-0.16	

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DV=Drug Violation

	velocity	7.55	9.40	8.71	7.86	8.32		8.38	8.26	
Hrůnová, Pavla (CZE) (1986)	time	6.94	12.50	18.37	24.83	24.83	5 / 2			
	reaction time	0.255	interval	5.56	5.87	6.46	# of strides	12.50	12.33	0.17
	velocity	7.20	8.99	8.52	7.74	8.05		8.00	8.11	
Humpolíková, Pavla (CZE) (1985)	time	7.05	12.69	18.67	25.10	25.10	6 / 3			
	reaction time	0.268	interval	5.64	5.98	6.43	# of strides	12.69	12.41	0.28
	velocity	7.09	8.87	8.36	7.78	7.97		7.88	8.06	
Hofmanová, Martina (CZE) (1991)	time	6.86	12.50	18.55	25.12	25.12	7 / 4			
	reaction time	0.223	interval	5.64	6.05	6.57	# of strides	12.50	12.62	-0.12
	velocity	7.29	8.87	8.26	7.61	7.96		8.00	7.92	
Boríková, Michaela (CZE) (1995)	time	6.91	12.67	18.76	25.38	25.38	2 / 5			
	reaction time	0.192	interval	5.76	6.09	6.62	# of strides	12.67	12.71	-0.04
	velocity	7.24	8.68	8.21	7.55	7.88		7.89	7.87	
Novotná, Lenka (CZE) (1997)	time	7.28	13.18	19.46	26.36	26.36	8 / 6			
	reaction time	0.277	interval	5.90	6.28	6.90	# of strides	13.18	13.18	0.00
	velocity	6.87	8.47	7.96	7.25	7.59		7.59	7.59	

Heat 1

date 16-Jun-13 wind -1.2 m/s Feher (2013) - Final report from men's & women's Czech Republic national champs

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Čechová, Katerina (CZE) (1988)	time	6.45	11.81	17.63	24.21	24.21	4 / 1			
	reaction time	0.165	interval	5.36	5.82	6.58	# of strides	11.81	12.40	-0.59
	velocity	7.75	9.33	8.59	7.60	8.26		8.47	8.06	
Schmidová, Martina (CZE) (1990)	time	6.77	12.21	18.02	24.38	24.38	5 / 2			
	reaction time	0.305	interval	5.44	5.81	6.36	# of strides	12.21	12.17	0.04
	velocity	7.39	9.19	8.61	7.86	8.20		8.19	8.22	
Seidlová, Klára (CZE) (1994)	time	6.67	12.20	18.03	24.46	24.46	3 / 3			
	reaction time	0.159	interval	5.53	5.83	6.43	# of strides	12.20	12.26	-0.06
	velocity	7.50	9.04	8.58	7.78	8.18		8.20	8.16	
Táborská, Monika (CZE) (1988)	time	6.68	12.20	18.19	24.81	24.81	2 / 4			
	reaction time	0.160	interval	5.52	5.99	6.62	# of strides	12.20	12.61	-0.41
	velocity	7.49	9.06	8.35	7.55	8.06		8.20	7.93	
Štychová, Martina (CZE) (1992)	time	7.04	12.73	18.77	25.32	25.32	6 / 5			
	reaction time	0.214	interval	5.69	6.04	6.55	# of strides	12.73	12.59	0.14
	velocity	7.10	8.79	8.28	7.63	7.90		7.86	7.94	
Mrnová, Markéta (CZE) (1991)	time	7.09	12.87	19.05	25.73	25.73	8 / 6			
	reaction time	0.286	interval	5.78	6.18	6.68	# of strides	12.87	12.86	0.01
	velocity	7.05	8.65	8.09	7.49	7.77		7.77	7.78	
Chládková, Denisa (CZE) (1995)	time	6.98	12.72	18.93	25.93	25.93	7 / 7			
	reaction time	0.295	interval	5.74	6.21	7.00	# of strides	12.72	13.21	-0.49
	velocity	7.16	8.71	8.05	7.14	7.71		7.86	7.57	

2013 European U23 Championships (Tampere, FIN)

FINAL

date 13-Jun-13 wind -0.5 m/s FIDAL - Centro Studi & Ricerche (2013) - www.youtube.com/watch?v=MpQ2zdXjX-w

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hooper, Gloria (ITA) (1992)	time	6.53	11.85	17.28	23.27	23.24	5 / 3			
	reaction time	0.204	interval	5.32	5.99	5.99	# of strides	11.85	11.42	0.43
	velocity	7.66	9.40	9.21	8.35	8.61		8.44	8.76	

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

Jalava (2013) - www.tilastopaja.org

FINAL

date 25-May-13 wind 0.2 m/s Minshull (2013) - world bests for shakes-draxton and felix in manchester

		50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	50-150m
Felix, Allyson (USA) (1985)	time	6.16	11.05	16.36	16.36	2 / 1			Jalava (2013)
	reaction time	interval	4.89	5.31	WB	# of strides	11.05	10.20	
	velocity	8.12	10.22	9.42	9.17		9.05	9.80	

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Onuora, Anyika (GBR) (1984)	time	11.20	16.63	16.63	1 / 2				<i>Minshull (2013)</i>
reaction time	interval		5.43	PB	# of strides	11.20			
	velocity	8.93	9.21	9.02		8.93			
Williams, Lauryn (USA) (1983)	time	11.20	16.64	16.64	3 / 3				<i>Minshull (2013)</i>
reaction time	interval		5.44	PB	# of strides	11.20			
	velocity	8.93	9.19	9.01		8.93			
Williams, Jodie (GBR) (1993)	time	11.32	16.81	16.81	4 / 4				<i>Minshull (2013)</i>
reaction time	interval		5.49	PB	# of strides	11.32			
	velocity	8.83	9.11	8.92		8.83			

2012 Great North CityGames (Newcastle, GBR) (150m straightaway)

FINAL

date 15-Sep-12 wind 1.0 m/s *Jalava (2012) - www.tilastopaja.org*

		50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	50-150m
Onuora, Anyika (GBR) (1984)	time	6.36	11.34	16.70	16.70	3 / 1			
reaction time	interval		4.98	5.36	PB	# of strides	11.34		10.34
	velocity	7.86	10.04	9.33	8.98		8.82		9.67
Mahan, Shayla (USA) (1989)	time	6.27	11.39	16.99	16.99	4 / 2			
reaction time	interval		5.12	5.60	PB	# of strides	11.39		10.72
	velocity	7.97	9.77	8.93	8.83		8.78		9.33
Barber, Mikele (USA) (1980)	time	6.42	11.44	17.02	17.02	2 / 3			
reaction time	interval		5.02	5.58	PB	# of strides	11.44		10.60
	velocity	7.79	9.96	8.96	8.81		8.74		9.43
Adeoye, Margaret (GBR) (1985)	time	6.38	11.54	17.11	17.11	1 / 4			
reaction time	interval		5.16	5.57	PB	# of strides	11.54		10.73
	velocity	7.84	9.69	8.98	8.77		8.67		9.32

2012 Olympic Games (London, GBR)

FINAL

date 08-Aug-12 wind -0.2 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
Felix, Allyson (USA) (1985)	time		11.05		21.88	21.88	7 / 1			
reaction time	0.174 interval				10.83		# of strides	11.05	10.83	0.22
	velocity		9.05		9.23	9.14	98.2	9.05	9.23	
Fraser-Price, Shelly-Ann (JAM)	time		11.15		22.09	22.09	4 / 2			
reaction time	0.169 interval				10.94	PB	# of strides	11.15	10.94	0.21
	velocity		8.97		9.14	9.05	96.2	8.97	9.14	
Jeter, Carmelita (USA) (1979)	time		11.08		22.14	22.14	9 / 3			
reaction time	0.167 interval				11.06		# of strides	11.08	11.06	0.02
	velocity		9.03		9.04	9.03	96.0	9.03	9.04	
Campbell-Brown, Veronica (JAM)	time		11.10		22.38	22.38	5 / 4			
reaction time	0.176 interval				11.28		# of strides	11.10	11.28	-0.18
	velocity		9.01		8.87	8.94	97.2	9.01	8.87	
Richards-Ross, Sanya (USA) (1987)	time		11.35		22.39	22.39	6 / 5			
reaction time	0.171 interval				11.04		# of strides	11.35	11.04	0.31
	velocity		8.81		9.06	8.93	96.7	8.81	9.06	
Ahoure, Murielle (CIV) (1987)	time		11.27		22.57	22.57	8 / 6			
reaction time	0.161 interval				11.30		# of strides	11.27	11.30	-0.03
	velocity		8.87		8.85	8.86	98.7	8.87	8.85	
Soumaré, Myriam (FRA) (1986)	time		11.41		22.63	22.63	2 / 7			
reaction time	0.157 interval				11.22		# of strides	11.41	11.22	0.19
	velocity		8.76		8.91	8.84	98.2	8.76	8.91	
Hackett, Semoy (TRI) (1988)	time		11.45		22.87	22.87	3 / 8			
reaction time	0.150 interval				11.42	DV	# of strides	11.45	11.42	0.03

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

velocity	8.73	8.76	8.75	96.7	8.73	8.76
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2012 Japanese National High School Championships (Niigata, JPN)**FINAL**date 01-Aug-12 wind 0.3 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
Nobayashi, Yumi (JPN) (1995)	time	6.71	12.47	18.04	24.22	24.22	8 / 1			
reaction time	interval		5.76	5.57	6.18	PB	# of strides	12.47	11.75	0.72
	velocity	7.45	8.68	8.98	8.09	8.26		8.02	8.51	
Tsuchihashi, Tomoka (JPN) (1995)	time	6.73	12.43	17.96	24.24	24.24	3 / 2			
reaction time	interval		5.70	5.53	6.28		# of strides	12.43	11.81	0.62
	velocity	7.43	8.77	9.04	7.96	8.25		8.05	8.47	
Niwa, Arisa (JPN) (1995)	time	6.81	12.52	18.09	24.34	24.34	4 / 3			
reaction time	interval		5.71	5.57	6.25		# of strides	12.52	11.82	0.70
	velocity	7.34	8.76	8.98	8.00	8.22		7.99	8.46	
Banno, Rio (JPN) (1990)	time	6.83	12.56	18.14	24.37	24.37	6 / 4			
reaction time	interval		5.73	5.58	6.23		# of strides	12.56	11.81	0.75
	velocity	7.32	8.73	8.96	8.03	8.21		7.96	8.47	
Aoyama, Seika (JPN) (1996)	time	6.80	12.60	18.17	24.38	24.38	7 / 5			
reaction time	interval		5.80	5.57	6.21		# of strides	12.60	11.78	0.82
	velocity	7.35	8.62	8.98	8.05	8.20		7.94	8.49	
Takamori, Maho (JPN) (1996)	time	6.73	12.54	18.17	24.45	24.45	9 / 6			
reaction time	interval		5.81	5.63	6.28		# of strides	12.54	11.91	0.63
	velocity	7.43	8.61	8.88	7.96	8.18		7.97	8.40	
Kitazawa, Saya (JPN) (1996)	time	6.77	12.57	18.20	24.48	24.48	5 / 7			
reaction time	interval		5.80	5.63	6.28		# of strides	12.57	11.91	0.66
	velocity	7.39	8.62	8.88	7.96	8.17		7.96	8.40	
Oki, Sayaka (JPN) (1995)	time	6.99	12.93	18.59	24.72	24.72	2 / 8			
reaction time	interval		5.94	5.66	6.13		# of strides	12.93	11.79	1.14
	velocity	7.15	8.42	8.83	8.16	8.09		7.73	8.48	
Nomura, Mayu (JPN)	time	6.99	12.90	18.54	24.78	24.78	1 / 9			
reaction time	interval		5.91	5.64	6.24		# of strides	12.90	11.88	1.02
	velocity	7.15	8.46	8.87	8.01	8.07		7.75	8.42	

2012 USA Olympic Trials (Eugene, OR)**FINAL**date 30-Jun-12 wind 1.0 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
Felix, Allyson (USA) (1985)	time		11.1		21.69	21.69	6 / 1			
reaction time	0.203 interval				10.59	PB	# of strides	11.10	10.59	0.51
	velocity		9.01		9.44	9.22		9.01	9.44	
Jeter, Carmelita (USA) (1979)	time		11.2		22.11	22.11	8 / 2			
reaction time	0.165 interval				10.91	PB	# of strides	11.20	10.91	0.29
	velocity		8.93		9.17	9.05		8.93	9.17	
Richards-Ross, Sanya (USA) (1985)	time		11.4		22.22	22.22	4 / 3			
reaction time	0.177 interval				10.82		# of strides	11.40	10.82	0.58
	velocity		8.77		9.24	9.00		8.77	9.24	
Duncan, Kimberlyn (USA) (1991)	time		11.5		22.34	22.34	3 / 4			
reaction time	0.190 interval				10.84		# of strides	11.50	10.84	0.66
	velocity		8.70		9.23	8.95		8.70	9.23	
Tarmoh, Jeneba (USA) (1989)	time		11.3		22.35	22.35	7 / 5			
reaction time	0.213 interval				11.05		# of strides	11.30	11.05	0.25
	velocity		8.85		9.05	8.95		8.85	9.05	
Madison, Tianna (USA) (1985)	time		11.3		22.50	22.50	5 / 6			

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

reaction time	0.207	interval		11.20		# of strides	11.30	11.20	0.10
		velocity	8.85	8.93	8.89		8.85	8.93	
Knight, Bianca (USA) (1989)	time		11.5	22.60	22.60	1 / 7			
reaction time	0.210	interval		11.10		# of strides	11.50	11.10	0.40
		velocity	8.70	9.01	8.85		8.70	9.01	
Scott, Aurieyall (USA) (1992)	time		11.5	22.68	22.68	2 / 8			
reaction time	0.192	interval		11.18		# of strides	11.50	11.18	0.32
		velocity	8.70	8.94	8.82		8.70	8.94	

2012 Windsprint (Sundsvall, SWE)**FINAL**date 17-Jun-12 wind 2.2 m/s (2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Jones, Hayley (GBR) (1988)	time			11.75		23.22	23.22	/ 1			
reaction time		interval				11.47		# of strides	11.75	11.47	0.28
		velocity	8.51		4.31	8.61			8.51	8.72	
Hjelmer, Moa (SWE) (1990)	time			11.94		23.32	23.32	/ 2			
reaction time		interval				11.38		# of strides	11.94	11.38	0.56
		velocity	8.38		4.29	8.58			8.38	8.79	
Akinyemi, Folake (NOR) (1990)	time			12.10		23.85	23.85	/ 3			
reaction time		interval				11.75		# of strides	12.10	11.75	0.35
		velocity	8.26		4.19	8.39			8.26	8.51	
Wittstock, Estie (RSA) (1980)	time			12.21		23.90	23.90	/ 4			
reaction time		interval				11.69		# of strides	12.21	11.69	0.52
		velocity	8.19		4.18	8.37			8.19	8.55	
Horn, Carina (RSA) (1989)	time			12.12		24.34	24.34	/ 5			
reaction time		interval				12.22		# of strides	12.12	12.22	-0.10
		velocity	8.25		4.11	8.22			8.25	8.18	

B FINALdate 17-Jun-12 wind 1.9 m/s (2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Cederkvist, Astrid (NOR) (1994)	time			12.34		24.43	24.43	/ 1			
reaction time		interval				12.09		# of strides	12.34	12.09	0.25
		velocity	8.10		4.09	8.19			8.10	8.27	
Östlund, Elin (SWE) (1991)	time			12.55		24.63	24.63	/ 2			
reaction time		interval				12.08		# of strides	12.55	12.08	0.47
		velocity	7.97		4.06	8.12			7.97	8.28	
Slettum, Elisabeth (NOR) (1986)	time			12.83		25.16	25.16	/ 3			
reaction time		interval				12.33		# of strides	12.83	12.33	0.50
		velocity	7.79		3.97	7.95			7.79	8.11	
Tornemark, Pernilla (SWE) (1984)	time			12.81		25.27	25.27	/ 4			
reaction time		interval				12.46		# of strides	12.81	12.46	0.35
		velocity	7.81		3.96	7.91			7.81	8.03	
Isaksen, Iren Vevatne (NOR) (1991)	time			12.70		25.33	25.33	/ 5			
reaction time		interval				12.63		# of strides	12.70	12.63	0.07
		velocity	7.87		3.95	7.90			7.87	7.92	

C FINALdate 17-Jun-12 wind 0.1 m/s (2012) - www.elitlandslag.se/SprintHäck/KortSprint.aspx

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Sneen, Siv (NOR) (1992)	time			12.76		24.99	24.99	/ 1			
reaction time		interval				12.23		# of strides	12.76	12.23	0.53
		velocity	7.84		4.00	8.00			7.84	8.18	
Grønnehaug, Stine Marie (NOR) (1992)	time			12.72		25.28	25.28	/ 2			
reaction time		interval				12.56		# of strides	12.72	12.56	0.16
		velocity	7.86		3.96	7.91			7.86	7.96	

Jensen, Christine Bjelland (NOF)	time	12.86	25.45	25.45	/ 3			
reaction time	interval		12.59		# of strides	12.86	12.59	0.27
	velocity	7.78	3.93	7.86		7.78	7.94	
Panboon, Fanny (SWE) (1995)	time	12.76	25.97	25.97	/ 4			
reaction time	interval		13.21		# of strides	12.76	13.21	-0.45
	velocity	7.84	3.85	7.70		7.84	7.57	
Nilsson, Evelina (SWE) (1994)	time	13.16	26.39	26.39	/ 5			
reaction time	interval		13.23		# of strides	13.16	13.23	-0.07
	velocity	7.60	3.79	7.58		7.60	7.56	

2012 Great CityGames (Manchester, GBR) (200m straightaway)

FINAL

date 20-May-12 wind -0.3 m/s

Jalava (2012) - www.tilastopaja.org

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Richards-Ross, Sanya (USA) (1985)	time	11.63	22.71	22.71	3 / 1					
reaction time	interval		11.08		# of strides	11.63	11.08	0.55		
	velocity	8.60	4.40	8.81		8.60	9.03			
Rosolová, Denisa (CZE) (1986)	time	11.84	23.53	23.53	2 / 2					
reaction time	interval		11.69		# of strides	11.84	11.69	0.15		
	velocity	8.45	4.25	8.50		8.45	8.55			
Adeoye, Margaret (GBR) (1985)	time	11.64	23.56	23.56	1 / 3					
reaction time	interval		11.92		# of strides	11.64	11.92	-0.28		
	velocity	8.59	4.24	8.49		8.59	8.39			
Sanders, Nicola (GBR) (1982)	time	11.90	23.79	23.79	4 / 4					
reaction time	interval		11.89		# of strides	11.90	11.89	0.01		
	velocity	8.40	4.20	8.41		8.40	8.41			

2012 Great CityGames (Manchester, GBR) (150m straightaway)

FINAL

date 20-May-12 wind -0.4 m/s

Jalava (2012) - www.tilastopaja.org

		50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	50-150m
Moore, LaShaunte'a (USA) (1985)	time	11.44	17.05	17.05	3 / 1				
reaction time	interval		5.61	PB	# of strides	11.44			
	velocity	8.74	8.91	8.80		8.74			
Douglas, Montell (GBR) (1986)	time	11.76	17.73	17.73	2 / 2				
reaction time	interval		5.97		# of strides	11.76			
	velocity	8.50	8.38	8.46		8.50			
Tavares, Sónia (POR) (1986)	time	11.84	17.82	17.82	4 / 3				
reaction time	interval		5.98	PB	# of strides	11.84			
	velocity	8.45	8.36	8.42		8.45			
O'Rourke, Derval (IRL) (1981)	time	12.06	18.25	18.25	1 / 4				
reaction time	interval		6.19	PB	# of strides	12.06			
	velocity	8.29	8.08	8.22		8.29			

2011 IAAF World Championships (Daegu, KOR)

FINAL

date 02-Sep-11 wind -1.0 m/s

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

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

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Campbell-Brown, Veronica (JAM) (1985)	time	6.00	11.03	16.34	22.22	22.22	5 / 1			KSSB (2011)
reaction time	0.151 interval		5.03	5.31	5.88		# of strides	11.03	11.19	-0.16
	velocity	8.33	9.94	9.42	8.50	9.00	98.5	9.07	8.94	
Jeter, Carmelita (USA) (1979)	time	6.08	11.15	16.44	22.37	22.37	4 / 2			KSSB (2011)
reaction time	0.178 interval		5.07	5.29	5.93		# of strides	11.15	11.22	-0.07
	velocity	8.22	9.86	9.45	8.43	8.94	98.2	8.97	8.91	
Felix, Allyson (USA) (1985)	time	6.18	11.31	16.62	22.42	22.42	3 / 3			KSSB (2011)
reaction time	0.187 interval		5.13	5.31	5.80		# of strides	11.31	11.11	0.20
	velocity	8.09	9.75	9.42	8.62	8.92	88.2	8.84	9.00	

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

Solomon, Shalonda (USA) (1988)	time	11.4	22.61	22.61	6 / 4				Butler (2013)
reaction time	0.172	interval	11.21		# of strides	11.40	11.21	0.19	
		velocity	8.77	8.92	8.85	96.7	8.77	8.92	
Stewart, Kerron (JAM) (1984)	time	11.4	22.70	22.70	8 / 5				Butler (2013)
reaction time	0.211	interval	11.30		# of strides	11.40	11.30	0.10	
		velocity	8.77	8.85	8.81	93.5	8.77	8.85	
Ferguson-McKenzie, Debbie (B)	time	11.7	22.96	22.96	1 / 6				Butler (2013)
reaction time	0.157	interval	11.26		# of strides	11.70	11.26	0.44	
		velocity	8.55	8.88	8.71	96.5	8.55	8.88	
Stuy, Hrustyna (UKR) (1988)	time	11.7	23.02	23.02	2 / 7				Butler (2013)
reaction time	0.188	interval	11.32		# of strides	11.70	11.32	0.38	
		velocity	8.55	8.83	8.69	96.7	8.55	8.83	
Simpson, Sherone (JAM) (1984)	time	11.5	23.17	23.17	7 / 8				Butler (2013)
reaction time	0.169	interval	11.67		# of strides	11.50	11.67	-0.17	
		velocity	8.70	8.57	8.63	99.0	8.70	8.57	

Semi-Final 1date 01-Sep-11 wind -0.7 m/s *Kyohei (2012) - the run performance of the 2011 world & japanese top 200m sprinters*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Fukushima, Chisato (JPN) (1988)	time	6.46	11.80	17.51	23.52	23.52	1 / 8			
reaction time	0.134	interval	5.34	5.71	6.01		# of strides	11.80	11.72	0.08
		velocity	7.74	9.36	8.76	8.32	8.50	104.0	8.47	8.53

Heat 1date 01-Sep-11 wind -0.1 m/s *Kyohei (2012) - the run performance of the 2011 world & japanese top 200m sprinters*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Fukushima, Chisato (JPN) (1988)	time	6.36	11.58	17.14	23.25	23.25	6 / 5			
reaction time	0.145	interval	5.22	5.56	6.11		# of strides	11.58	11.67	-0.09
		velocity	7.86	9.58	8.99	8.18	8.60	103.7	8.64	8.57

2011 Japanese National High School Championships (Kitakami, JPN)**FINAL**date 06-Aug-11 wind 0.0 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
Kokubo, Haruna (JPN) (1993)	time	6.84	13.30	17.98	24.34	24.34	/ 1			
reaction time		interval	6.46	4.68	6.36		# of strides	13.30	11.04	2.26
		velocity	7.31	7.74	10.68	7.86	8.22	7.52	9.06	
Ito, Mizuki (JPN) (1994)	time	6.64	13.43	18.14	24.47	24.47	/ 2			
reaction time		interval	6.79	4.71	6.33		# of strides	13.43	11.04	2.39
		velocity	7.53	7.36	10.62	7.90	8.17	7.45	9.06	
Yamada, Eri (JPN) (1993)	time	6.67	13.47	18.20	24.63	24.63	/ 3			
reaction time		interval	6.80	4.73	6.43		# of strides	13.47	11.16	2.31
		velocity	7.50	7.35	10.57	7.78	8.12	7.42	8.96	
Doi, Anna (JPN) (1995)	time	6.57	13.66	18.37	24.69	24.69	/ 4			
reaction time		interval	7.09	4.71	6.32		# of strides	13.66	11.03	2.63
		velocity	7.61	7.05	10.62	7.91	8.10	7.32	9.07	
Akashi, Yuri (JPN)	time	7.08	13.58	18.28	24.71	24.71	/ 5			
reaction time		interval	6.50	4.70	6.43		# of strides	13.58	11.13	2.45
		velocity	7.06	7.69	10.64	7.78	8.09	7.36	8.98	
Kimura, Akane (JPN) (1993)	time	6.63	13.60	18.37	24.79	24.79	/ 6			
reaction time		interval	6.97	4.77	6.42		# of strides	13.60	11.19	2.41
		velocity	7.54	7.17	10.48	7.79	8.07	7.35	8.94	
Kitano, Yuki (JPN)	time	7.01	13.60	18.42	24.97	24.97	/ 7			
reaction time		interval	6.59	4.82	6.55		# of strides	13.60	11.37	2.23
		velocity	7.13	7.59	10.37	7.63	8.01	7.35	8.80	
Hashizume, Sakina (JPN) (1993)	time	7.08	13.74	18.57	25.06	25.06	/ 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	6.66	4.83	6.49		# of strides	13.74	11.32	2.42
	velocity	7.06	7.51	10.35	7.70	7.98	7.28	8.83	

2011 Japanese National Championships (Kumagaya, JPN)

FINAL

	date	12-Jun-11	wind	-0.7 m/s	Kyohei (2012) - the run performance of the 2011 world & japanese top 200m sprinters						
	0.167		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Fukushima, Chisato (JPN) (1988)	time	6.30	11.56	17.24	23.44	23.44		/ 1			
reaction time	interval		5.26	5.68	6.20			# of strides	11.56	11.88	-0.32
	velocity	7.94	9.51	8.80	8.06	8.53			8.65	8.42	
Ichikawa, Kana (JPN) (1991)	time	6.56	11.88	17.54	23.62	23.62		/ 2			
reaction time	interval		5.32	5.66	6.08			# of strides	11.88	11.74	0.14
	velocity	7.62	9.40	8.83	8.22	8.47			8.42	8.52	
Okabe, Nao (JPN) (1988)	time	6.53	11.96	17.76	23.97	23.97		/ 3			
reaction time	interval		5.43	5.80	6.21			# of strides	11.96	12.01	-0.05
	velocity	7.66	9.21	8.62	8.05	8.34			8.36	8.33	
Imai, Saori (JPN) (1990)	time	6.62	12.03	17.82	23.97	23.97		/ 4			
reaction time	interval		5.41	5.79	6.15			# of strides	12.03	11.94	0.09
	velocity	7.55	9.24	8.64	8.13	8.34			8.31	8.38	
Takahashi, Momoko (JPN) (1988)	time	6.69	12.14	17.97	24.15	24.15		/ 5			
reaction time	interval		5.45	5.83	6.18			# of strides	12.14	12.01	0.13
	velocity	7.47	9.17	8.58	8.09	8.28			8.24	8.33	
Nobuoka, Sakie (JPN) (1977)	time	6.66	12.21	18.08	24.39	24.39		/ 6			
reaction time	interval		5.55	5.87	6.31			# of strides	12.21	12.18	0.03
	velocity	7.51	9.01	8.52	7.92	8.20			8.19	8.21	
Miki, Shiori (JPN) (1991)	time	6.80	12.43	18.33	24.65	24.65		/ 7			
reaction time	interval		5.63	5.90	6.32			# of strides	12.43	12.22	0.21
	velocity	7.35	8.88	8.47	7.91	8.11			8.05	8.18	
Wada, Maki (JPN) (1986)	time	6.92	12.92	19.39	26.34	26.34		/ 8			
reaction time	interval		6.00	6.47	6.95			# of strides	12.92	13.42	-0.50
	velocity	7.23	8.33	7.73	7.19	7.59			7.74	7.45	

2011 Great CityGames (Manchester, GBR) (150m straightaway)

FINAL

	date	15-May-11	wind	1.6 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
Oyepitan, Abi (GBR) (1979)	time	6.50	11.72	17.34	17.34		1 / 1			
reaction time	interval		5.22	5.62			# of strides	11.72		10.84
	velocity	7.69	9.58	8.90	8.65			8.53		9.23
Ennis, Jessica (GBR) (1986)	time	6.43	11.72	17.40	17.40		3 / 2			
reaction time	interval		5.29	5.68			# of strides	11.72		10.97
	velocity	7.78	9.45	8.80	8.62			8.53		9.12
Turner, Laura (GBR) (1982)	time	6.36	11.66	17.43	17.43		2 / 3			
reaction time	interval		5.30	5.77	PB		# of strides	11.66		11.07
	velocity	7.86	9.43	8.67	8.61			8.58		9.03
Nelson, Ashleigh (GBR) (1991)	time	6.41	11.78	17.64	17.64		4 / 4			
reaction time	interval		5.37	5.86	PB		# of strides	11.78		11.23
	velocity	7.80	9.31	8.53	8.50			8.49		8.90

2011 Great City Games (Manchester, GBR) (200m straightaway)

FINAL

	date	15-May-11	wind	2.6 m/s	Butler (2011) - Gay's last 100 in Manchester street 150 (www.trackandfieldnews.com)						
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Felix, Allyson (USA) (1985)	time	6.31	11.26	16.48	22.12	22.12		2 / 1			
reaction time	interval		4.95	5.22	5.64			# of strides	11.26	10.86	0.40
	velocity	7.92	10.10	9.58	8.87	9.04			8.88	9.21	
Soumaré, Myriam (FRA) (1986)	time	6.42	11.67	17.26	23.35	23.35		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	interval	5.25	5.59	6.09		# of strides	11.67	11.68	-0.01	
	velocity	7.79	9.52	8.94	8.21	8.57	8.57	8.56		
Maduka, Joice (GBR) (1973)	time	6.60	11.88	17.47	23.67	23.67		1 / 3		
reaction time	interval		5.28	5.59	6.20		# of strides	11.88	11.79	0.09
	velocity	7.58	9.47	8.94	8.06	8.45	8.42	8.48		
Ohuruogu, Christine (GBR) (1993)	time	6.84	12.43	18.26	24.48	24.48		3 / 4		
reaction time	interval		5.59	5.83	6.22		# of strides	12.43	12.05	0.38
	velocity	7.31	8.94	8.58	8.04	8.17	8.05	8.30		

2010 German National Youth Championships (Ulm, GER)

FINAL

date 08-Aug-10 wind -0.2 m/s

Graubner (2010) - <http://www.fgs.uni-halle.de>

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Grompe, Katharina (GER) (1993)	time		12.16	17.88	24.13	24.13	/ 1			
reaction time	interval			5.72	6.25	PB	# of strides	12.16	11.97	0.19
	velocity		8.22	8.74	8.00	8.29		8.22	8.35	
Pähler, Stefanie (GER) (1993)	time		12.48	18.15	24.22	24.22	/ 2			
reaction time	interval			5.67	6.07	PB	# of strides	12.48	11.74	0.74
	velocity		8.01	8.82	8.24	8.26		8.01	8.52	
Haase, Rebekka (GER) (1993)	time		12.48	18.16	24.27	24.27	/ 3			
reaction time	interval			5.68	6.11	PB	# of strides	12.48	11.79	0.69
	velocity		8.01	8.80	8.18	8.24		8.01	8.48	
Frey, Carina (GER) (1994)	time		12.33	18.09	24.41	24.41	/ 4			
reaction time	interval			5.76	6.32	PB	# of strides	12.33	12.08	0.25
	velocity		8.11	8.68	7.91	8.19		8.11	8.28	
Schachtschneider, Maike (GER) (1993)	time		12.51	18.23	24.48	24.48	/ 5			
reaction time	interval			5.72	6.25		# of strides	12.51	11.97	0.54
	velocity		7.99	8.74	8.00	8.17		7.99	8.35	
Holzschuh, Marie (GER) (1994)	time		12.62	18.34	24.54	24.54	/ 6			
reaction time	interval			5.72	6.20		# of strides	12.62	11.92	0.70
	velocity		7.92	8.74	8.06	8.15		7.92	8.39	
Meyer, Lea Madlen (GER) (1993)	time		12.65	18.52	24.86	24.86	/ 7			
reaction time	interval			5.87	6.34		# of strides	12.65	12.21	0.44
	velocity		7.91	8.52	7.89	8.05		7.91	8.19	
John, Viviane (GER) (1993)	time		12.71	18.60	25.14	25.14	/ 8			
reaction time	interval			5.89	6.54		# of strides	12.71	12.43	0.28
	velocity		7.87	8.49	7.65	7.96		7.87	8.05	

B FINAL

date 08-Aug-10 wind 0.7 m/s

Graubner (2010) - <http://www.fgs.uni-halle.de>

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Eich, Katharina (GER) (1993)	time		12.82	18.65	24.86	24.86	/ 1			
reaction time	interval			5.83	6.21		# of strides	12.82	12.04	0.78
	velocity		7.80	8.58	8.05	8.05		7.80	8.31	
Häfele, Sabrina (GER) (1993)	time		12.98	18.89	25.28	25.28	/ 2			
reaction time	interval			5.91	6.39		# of strides	12.98	12.30	0.68
	velocity		7.70	8.46	7.82	7.91		7.70	8.13	
Lutschak, Saskia (GER) (1995)	time		13.05	18.98	25.44	25.44	/ 3			
reaction time	interval			5.93	6.46		# of strides	13.05	12.39	0.66
	velocity		7.66	8.43	7.74	7.86		7.66	8.07	
Holsten, Sarina (GER) (1994)	time		12.92	18.93	25.49	25.49	/ 4			
reaction time	interval			6.01	6.56		# of strides	12.92	12.57	0.35
	velocity		7.74	8.32	7.62	7.85		7.74	7.96	
Müller, Laura (GER) (1995)	time		12.93	19.01	25.50	25.50	/ 5			
reaction time	interval			6.08	6.49		# of strides	12.93	12.57	0.36

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

	velocity	7.73	8.22	7.70	7.84		7.73	7.96	
Brandt, Julia (GER) (1993)	time	13.01	19.02	25.64	25.64	/ 6			
reaction time	interval		6.01	6.62		# of strides	13.01	12.63	0.38
	velocity	7.69	8.32	7.55	7.80		7.69	7.92	

2010 German National Junior Championships (Ulm, GER)**FINAL**

date 07-Aug-10 wind -0.1 m/s

Graubner (2010) - <http://www.fgs.uni-halle.de>

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Günther, Leena (GER) (1991)	time	12.27	17.97	24.00	24.00	24.00	/ 1			
reaction time	interval		5.70	6.03	PB	# of strides	12.27	11.73	0.54	
	velocity	8.15	8.77	8.29	8.33		8.15	8.53		
Riedl, Martina (GER) (1992)	time	12.41	18.21	24.36	24.36	24.36	/ 2			
reaction time	interval		5.80	6.15		# of strides	12.41	11.95	0.46	
	velocity	8.06	8.62	8.13	8.21		8.06	8.37		
Riedl, Julia (GER) (1992)	time	12.43	18.15	24.45	24.45	24.45	/ 3			
reaction time	interval		5.72	6.30		# of strides	12.43	12.02	0.41	
	velocity	8.05	8.74	7.94	8.18		8.05	8.32		
Elsler, Josefina (GER) (1991)	time	12.50	18.33	24.51	24.51	24.51	/ 4			
reaction time	interval		5.83	6.18		# of strides	12.50	12.01	0.49	
	velocity	8.00	8.58	8.09	8.16		8.00	8.33		
Schmidt, Annika (GER)	time	12.64	18.57	25.02	25.02	25.02	/ 5			
reaction time	interval		5.93	6.45		# of strides	12.64	12.38	0.26	
	velocity	7.91	8.43	7.75	7.99		7.91	8.08		
Assel, Anna Lena (GER) (1991)	time	12.83	18.76	25.21	25.21	25.21	/ 6			
reaction time	interval		5.93	6.45		# of strides	12.83	12.38	0.45	
	velocity	7.79	8.43	7.75	7.93		7.79	8.08		
Fretzschner, Isabel (GER) (1992)	time	13.01	19.03	25.30	25.30	25.30	/ 7			
reaction time	interval		6.02	6.27		# of strides	13.01	12.29	0.72	
	velocity	7.69	8.31	7.97	7.91		7.69	8.14		
Wieß, Patricia (GER)	time	13.13	19.15	25.46	25.46	25.46	/ 8			
reaction time	interval		6.02	6.31		# of strides	13.13	12.33	0.80	
	velocity	7.62	8.31	7.92	7.86		7.62	8.11		

B FINAL

date 07-Aug-10 wind -0.2 m/s

Graubner (2010) - <http://www.fgs.uni-halle.de>

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Buckel, Carlotta (GER) (1991)	time	12.39	18.30	24.78	24.78	24.78	/ 1			
reaction time	interval		5.91	6.48		# of strides	12.39	12.39	0.00	
	velocity	8.07	8.46	7.72	8.07		8.07	8.07		
Mathes, Larissa (GER) (1992)	time	12.47	18.41	24.95	24.95	24.95	/ 2			
reaction time	interval		5.94	6.54		# of strides	12.47	12.48	-0.01	
	velocity	8.02	8.42	7.65	8.02		8.02	8.01		
Hablitzel, Sophia (GER) (1991)	time	12.73	18.61	24.96	24.96	24.96	/ 3			
reaction time	interval		5.88	6.35		# of strides	12.73	12.23	0.50	
	velocity	7.86	8.50	7.87	8.01		7.86	8.18		
Kramer, Hannah (GER) (1991)	time	12.72	18.73	25.26	25.26	25.26	/ 4			
reaction time	interval		6.01	6.53		# of strides	12.72	12.54	0.18	
	velocity	7.86	8.32	7.66	7.92		7.86	7.97		
Straub, Regina (GER) (1992)	time	12.83	18.86	25.37	25.37	25.37	/ 5			
reaction time	interval		6.03	6.51		# of strides	12.83	12.54	0.29	
	velocity	7.79	8.29	7.68	7.88		7.79	7.97		

Heat 5

date 07-Aug-10 wind 0.9 m/s

Graubner (2010) - <http://www.fgs.uni-halle.de>

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
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WR=World Rec. AR=Area Rec. OR=Olympic Rec. CR=Championship Rec. NR=National Rec. PB=Personal Best DQ=Disqualified
DV=Drug Violation

Schmidt, Annika (GER)	time	12.52	18.32	24.68	24.68	/ 1			
	reaction time	interval	5.80	6.36	PB	# of strides	12.52	12.16	0.36
	velocity	7.99	8.62	7.86	8.10		7.99	8.22	

Heat 4

date 07-Aug-10 wind 0.9 m/s Graubner (2010) - <http://www.fgs.uni-halle.de>

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Elsler, Josefina (GER) (1991)	time	12.50	18.27	24.47	24.47	/ 1				
	reaction time	interval	5.77	6.20		# of strides	12.50	11.97	0.53	
	velocity	8.00	8.67	8.06	8.17		8.00	8.35		

Heat 3

date 07-Aug-10 wind 1.0 m/s Graubner (2010) - <http://www.fgs.uni-halle.de>

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Riedl, Julia (GER) (1992)	time	12.28	18.02	24.36	24.36	/ 1				
	reaction time	interval	5.74	6.34		# of strides	12.28	12.08	0.20	
	velocity	8.14	8.71	7.89	8.21		8.14	8.28		

Heat 2

date 07-Aug-10 wind 0.3 m/s Graubner (2010) - <http://www.fgs.uni-halle.de>

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Riedl, Martina (GER) (1992)	time	12.32	18.16	24.60	24.60	/ 1				
	reaction time	interval	5.84	6.44		# of strides	12.32	12.28	0.04	
	velocity	8.12	8.56	7.76	8.13		8.12	8.14		

Heat 1

date 07-Aug-10 wind 0.0 m/s Graubner (2010) - <http://www.fgs.uni-halle.de>

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Günther, Leena (GER) (1991)	time	12.55	18.36	24.62	24.62	/ 1				
	reaction time	interval	5.81	6.26		# of strides	12.55	12.07	0.48	
	velocity	7.97	8.61	7.99	8.12		7.97	8.29		

2010 Japanese National High School Championships (Okinawa, JPN)**FINAL**

date 01-Aug-10 wind 1.0 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
Hasegawa, Misato (JPN) (1992)	time	7.07	12.67	18.33	24.48	24.48	/ 1			
	reaction time	interval	5.60	5.66	6.15		# of strides	12.67	11.81	0.86
	velocity	7.07	8.93	8.83	8.13	8.17		7.89	8.47	
Hashizume, Sakina (JPN) (1993)	time	6.84	12.50	18.30	24.53	24.53	/ 2			
	reaction time	interval	5.66	5.80	6.23	PB	# of strides	12.50	12.03	0.47
	velocity	7.31	8.83	8.62	8.03	8.15		8.00	8.31	
Takenaka, Hikaru (JPN) (1993)	time	7.06	12.91	18.74	24.94	24.94	/ 3			
	reaction time	interval	5.85	5.83	6.20		# of strides	12.91	12.03	0.88
	velocity	7.08	8.55	8.58	8.06	8.02		7.75	8.31	

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

date 16-May-10 wind -0.4 m/s Jalava (2010) - www.tilastopaja.org

		50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	50-150m
Ennis, Jessica (GBR) (1986)	time	11.39	16.99		16.99	2 / 1			
	reaction time	interval	5.60			# of strides	11.39		
	velocity	8.78	8.93		8.83		8.78		
Thompson, Shaunna (GBR) (1991)	time	11.47	17.05		17.05	4 / 2			
	reaction time	interval	5.58			# of strides	11.47		
	velocity	8.72	8.96		8.80		8.72		
Ohuruogu, Christine (GBR) (1991)	time	11.44	17.07		17.07	3 / 3			
	reaction time	interval	5.63			# of strides	11.44		
	velocity	8.74	8.88		8.79		8.74		
Barr, Jessica (GBR)		no information available			17.74	1 / 4			

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

date 16-May-10 wind 0.2 m/s Jalava (2010) - www.tilastopaja.org

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Felix, Allyson (USA) (1985)	time	11.31	16.68	22.55	22.55	2 / 1				

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

reaction time	interval		5.37	5.87		# of strides	11.31	11.24	0.07
	velocity	8.84	9.31	8.52	8.87		8.84	8.90	
Ferguson-McKenzie, Debbie (B	time	11.34	16.86	22.96	22.96	3 / 2			
reaction time	interval		5.52	6.10		# of strides	11.34	11.62	-0.28
	velocity	8.82	9.06	8.20	8.71		8.82	8.61	
Freeman, Emily (GBR) (1980)	time	11.62	17.19	23.29	23.29	4 / 3			
reaction time	interval		5.57	6.10		# of strides	11.62	11.67	-0.05
	velocity	8.61	8.98	8.20	8.59		8.61	8.57	
McConnell, Lee (GBR) (1978)	time	11.96	17.60	23.75	23.75	1 / 4			
reaction time	interval		5.64	6.15		# of strides	11.96	11.79	0.17
	velocity	8.36	8.87	8.13	8.42		8.36	8.48	

2009 IAAF World Championships (Berlin, GER)

FINAL

date		21-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
Felix, Allyson (USA) (1985)	time	6.25	11.16	16.37	22.02	22.02	6 / 1			
reaction time	0.173 interval		4.91	5.21	5.65		# of strides	11.16	10.86	0.30
	velocity	8.00	10.18	9.60	8.85	9.08		8.96	9.21	
Campbell-Brown, Veronica (JAI)	time	6.19	11.14	16.49	22.35	22.35	5 / 2			
reaction time	0.184 interval		4.95	5.35	5.86		# of strides	11.14	11.21	-0.07
	velocity	8.08	10.10	9.35	8.53	8.95		8.98	8.92	
Ferguson-McKenzie, Debbie (B	time	6.27	11.29	16.65	22.41	22.41	4 / 3			
reaction time	0.171 interval		5.02	5.36	5.76		# of strides	11.29	11.12	0.17
	velocity	7.97	9.96	9.33	8.68	8.92		8.86	8.99	
Lee, Muna (USA) (1981)	time	6.29	11.25	16.61	22.48	22.48	3 / 4			
reaction time	0.174 interval		4.96	5.36	5.87		# of strides	11.25	11.23	0.02
	velocity	7.95	10.08	9.33	8.52	8.90		8.89	8.90	
McLaughlin, Anneisha (JAM) (1	time	6.37	11.43	16.76	22.62	22.62	8 / 5			
reaction time	0.178 interval		5.06	5.33	5.86		# of strides	11.43	11.19	0.24
	velocity	7.85	9.88	9.38	8.53	8.84		8.75	8.94	
Facey, Simone (JAM) (1985)	time	6.27	11.39	16.80	22.80	22.80	7 / 6			
reaction time	0.163 interval		5.12	5.41	6.00		# of strides	11.39	11.41	-0.02
	velocity	7.97	9.77	9.24	8.33	8.77		8.78	8.76	
Freeman, Emily (GBR) (1980)	time	6.33	11.47	16.96	22.98	22.98	2 / 7			
reaction time	0.141 interval		5.14	5.49	6.02		# of strides	11.47	11.51	-0.04
	velocity	7.90	9.73	9.11	8.31	8.70		8.72	8.69	
Artymata, Eleni (CYP) (1986)	time	6.51	11.70	17.17	23.01	23.05	1 / 8			
reaction time	0.176 interval		5.19	5.47	5.84		# of strides	11.70	11.31	0.39
	velocity	7.68	9.63	9.14	8.56	8.68		8.55	8.84	

Semi-Final 3

date		20-Aug-09		wind 0.5 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
Lee, Muna (USA) (1981)	time	6.26	11.23	16.53	22.30	22.30	4 / 1			
reaction time	0.158 interval		4.97	5.30	5.77		# of strides	11.23	11.07	0.16
	velocity	7.99	10.06	9.43	8.67	8.97		8.90	9.03	
Facey, Simone (JAM) (1985)	time	6.31	11.39	16.78	22.58	22.58	5 / 2			
reaction time	0.162 interval		5.08	5.39	5.80		# of strides	11.39	11.19	0.20
	velocity	7.92	9.84	9.28	8.62	8.86		8.78	8.94	
Williams, Monique (NZL) (1985)	time	6.42	11.51	16.79	22.90	22.90	6 / 3			
reaction time	0.180 interval		5.09	5.28	6.11	NR	# of strides	11.51	11.39	0.12
	velocity	7.79	9.82	9.47	8.18	8.73		8.69	8.78	
Baptiste, Kelly-Ann (TTO) (1986)	time	6.37	11.53	16.98	22.96	22.96	3 / 4			
reaction time	0.156 interval		5.16	5.45	5.98		# of strides	11.53	11.43	0.10

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

velocity	7.85	9.69	9.17	8.36	8.71	8.67	8.75
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Hodge, Virgil (SKN) (1983)	time	6.45	11.57	17.08	23.19	23.19	1 / 5			
	reaction time	0.178	interval	5.12	5.51	6.11	# of strides	11.57	11.62	-0.05
	velocity	7.75	9.77	9.07	8.18	8.62		8.64	8.61	

Gushchina, Yuliya (RUS) (1983)	time	6.35	11.53	17.07	23.24	23.24	7 / 6			
	reaction time	0.175	interval	5.18	5.54	6.17	# of strides	11.53	11.71	-0.18
	velocity	7.87	9.65	9.03	8.10	8.61		8.67	8.54	

Semi-Final 2

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
Felix, Allyson (USA) (1985)	time	6.32	11.34	16.67	22.44	22.44	5 / 1			
	reaction time	0.167	interval	5.02	5.77		# of strides	11.34	11.10	0.24
	velocity	7.91	9.96	9.38	8.67	8.91		8.82	9.01	

McLaughlin, Anneisha (JAM) (1987)	time	6.38	11.39	16.69	22.55	22.55	6 / 2			
	reaction time	0.156	interval	5.01	5.86	PB	# of strides	11.39	11.16	0.23
	velocity	7.84	9.98	9.43	8.53	8.87		8.78	8.96	

Jones-Ferrette, LaVerne (ISV) (1987)	time	6.18	11.26	16.67	22.74	22.74	8 / 3			
	reaction time	0.151	interval	5.08	6.07		# of strides	11.26	11.48	-0.22
	velocity	8.09	9.84	9.24	8.24	8.80		8.88	8.71	

Mothersill, Cydonie (CAY) (1977)	time	6.46	11.54	16.95	22.80	22.80	4 / 4			
	reaction time	0.202	interval	5.08	5.85		# of strides	11.54	11.26	0.28
	velocity	7.74	9.84	9.24	8.55	8.77		8.67	8.88	

Williams, Charonda (USA) (1987)	time	6.46	11.57	17.01	22.81	22.81	3 / 5			
	reaction time	0.194	interval	5.11	5.80		# of strides	11.57	11.24	0.33
	velocity	7.74	9.78	9.19	8.62	8.77		8.64	8.90	

Zaytseva, Olga (RUS) (1984)	time	6.47	11.70	17.25	23.19	23.19	2 / 6			
	reaction time	0.155	interval	5.23	5.94		# of strides	11.70	11.49	0.21
	velocity	7.73	9.56	9.01	8.42	8.62		8.55	8.70	

Semi-Final 1

date 20-Aug-09 wind 0.5 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
Ferguson-McKenzie, Debbie (BHS) (1982)	time	6.19	11.21	16.54	22.24	22.24	6 / 1			
	reaction time	0.133	interval	5.02	5.70		# of strides	11.21	11.03	0.18
	velocity	8.08	9.96	9.38	8.77	8.99		8.92	9.07	

Campbell-Brown, Veronica (JAM) (1987)	time	6.25	11.23	16.52	22.29	22.29	5 / 2			
	reaction time	0.180	interval	4.98	5.77		# of strides	11.23	11.06	0.17
	velocity	8.00	10.04	9.45	8.67	8.97		8.90	9.04	

Freeman, Emily (GBR) (1980)	time	6.29	11.40	16.79	22.64	22.64	3 / 3			
	reaction time	0.163	interval	5.11	5.85	PB	# of strides	11.40	11.24	0.16
	velocity	7.95	9.78	9.28	8.55	8.83		8.77	8.90	

Artymata, Eleni (CYP) (1986)	time	6.46	11.57	16.92	22.64	22.64	8 / 4			
	reaction time	0.192	interval	5.11	5.72	NR	# of strides	11.57	11.07	0.50
	velocity	7.74	9.78	9.35	8.74	8.83		8.64	9.03	

Danois, Johanna (FRA) (1987)	time	6.51	11.69	17.12	23.03	23.03	7 / 5			
	reaction time	0.178	interval	5.18	5.91	PB	# of strides	11.69	11.34	0.35
	velocity	7.68	9.65	9.21	8.46	8.68		8.55	8.82	

Al-Gasara, Rakia (BRN) (1982)	time	6.54	11.75	17.27	23.26	23.26	2 / 6			
	reaction time	0.243	interval	5.21	5.99	DV	# of strides	11.75	11.51	0.24
	velocity	7.65	9.60	9.06	8.35	8.60		8.51	8.69	

Bolsun, Yelena (RUS) (1982)	time	6.44	11.69	17.18	23.27	23.27	1 / 6			
	reaction time	0.121	interval	5.25	6.09		# of strides	11.69	11.58	0.11
	velocity	7.76	9.52	9.11	8.21	8.59		8.55	8.64	

Heat 6

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
Campbell-Brown, Veronica (JAI)	time	6.36	11.47	16.97	23.01	23.01	3 / 1			
	reaction time	0.156	interval	5.11	5.50	6.04	# of strides	11.47	11.54	-0.07
		velocity	7.86	9.78	9.09	8.28	8.69	8.72	8.67	
Freeman, Emily (GBR) (1980)	time	6.33	11.47	16.99	23.10	23.10	7 / 2			
	reaction time	0.178	interval	5.14	5.52	6.11	# of strides	11.47	11.63	-0.16
		velocity	7.90	9.73	9.06	8.18	8.66	8.72	8.60	
Borlée, Olivia (BEL) (1986)	time	6.40	11.61	17.13	23.25	23.25	8 / 3			
	reaction time	0.166	interval	5.21	5.52	6.12	# of strides	11.61	11.64	-0.03
		velocity	7.81	9.60	9.06	8.17	8.60	8.61	8.59	
Ferguson, Sheniqua (BAH) (1981)	time	6.51	11.74	17.32	23.35	23.35	5 / 4			
	reaction time	0.176	interval	5.23	5.58	6.03	# of strides	11.74	11.61	0.13
		velocity	7.68	9.56	8.96	8.29	8.57	8.52	8.61	

Heat 5

date 19-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
Mothersill, Cydonie (CAY) (1974)	time	6.42	11.50	16.86	22.69	22.69	7 / 1			
	reaction time	0.193	interval	5.08	5.36	5.83	# of strides	11.50	11.19	0.31
		velocity	7.79	9.84	9.33	8.58	8.81	8.70	8.94	
McLaughlin, Anneisha (JAM) (1981)	time	6.43	11.52	16.91	22.91	22.91	6 / 2			
	reaction time	0.154	interval	5.09	5.39	6.00	PB # of strides	11.52	11.39	0.13
		velocity	7.78	9.82	9.28	8.33	8.73	8.68	8.78	
Jones-Ferrette, LaVerne (ISV) (1981)	time	6.17	11.24	16.75	22.97	22.97	4 / 3			
	reaction time	0.142	interval	5.07	5.51	6.22	# of strides	11.24	11.73	-0.49
		velocity	8.10	9.86	9.07	8.04	8.71	8.90	8.53	
Anim, Vida (GHA) (1983)	time	6.40	11.64	17.23	23.33	23.33	5 / 4			
	reaction time	0.168	interval	5.24	5.59	6.10	# of strides	11.64	11.69	-0.05
		velocity	7.81	9.54	8.94	8.20	8.57	8.59	8.55	

Heat 4

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
Hooker, Marshevet (USA) (1984)	time	6.28	11.31	16.65	22.51	22.51	8 / 1			
	reaction time	0.181	interval	5.03	5.34	5.86	# of strides	11.31	11.20	0.11
		velocity	7.96	9.94	9.36	8.53	8.88	8.84	8.93	
Ferguson-McKenzie, Debbie (BVI) (1981)	time	6.32	11.34	16.72	22.71	22.71	5 / 2			
	reaction time	0.154	interval	5.02	5.38	5.99	# of strides	11.34	11.37	-0.03
		velocity	7.91	9.96	9.29	8.35	8.81	8.82	8.80	
Artymata, Eleni (CYP) (1986)	time	6.45	11.57	16.98	22.83	22.83	2 / 3			
	reaction time	0.162	interval	5.12	5.41	5.85	NR # of strides	11.57	11.26	0.31
		velocity	7.75	9.77	9.24	8.55	8.76	8.64	8.88	
Bolsun, Yelena (RUS) (1982)	time	6.37	11.50	17.00	23.06	23.06	4 / 4			
	reaction time	0.139	interval	5.13	5.50	6.06	# of strides	11.50	11.56	-0.06
		velocity	7.85	9.75	9.09	8.25	8.67	8.70	8.65	

Heat 3

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
Felix, Allyson (USA) (1985)	time	6.31	11.42	16.94	22.88	22.88	6 / 1			
	reaction time	0.175	interval	5.11	5.52	5.94	# of strides	11.42	11.46	-0.04
		velocity	7.92	9.78	9.06	8.42	8.74	8.76	8.73	
Williams, Monique (NZL) (1985)	time	6.41	11.53	17.01	22.96	22.96	5 / 2			
	reaction time	0.144	interval	5.12	5.48	5.95	NR # of strides	11.53	11.43	0.10
		velocity	7.80	9.77	9.12	8.40	8.71	8.67	8.75	
Williams, Tameka (SKN) (1989)	time	6.51	11.75	17.26	23.27	23.27	8 / 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	0.173	interval	5.24	5.51	6.01		# of strides	11.75	11.52	0.23
		velocity	7.68	9.54	9.07	8.32	8.59	8.51	8.68	
Zaytseva, Olga (RUS) (1984)	time	6.51	11.76	17.32	23.28	23.28	4 / 4			
reaction time	0.178	interval	5.25	5.56	5.96		# of strides	11.76	11.52	0.24
		velocity	7.68	9.52	8.99	8.39	8.59	8.50	8.68	
Al-Gasara, Rakia (BRN) (1982)	time	6.55	11.75	17.30	23.34	23.34	2 / 5			
reaction time	0.231	interval	5.20	5.55	6.04	DV	# of strides	11.75	11.59	0.16
		velocity	7.63	9.62	9.01	8.28	8.57	8.51	8.63	
Power, Adrienne (CAN) (1981)	time	6.50	11.76	17.33	23.38	23.38	3 / 5			
reaction time	0.176	interval	5.26	5.57	6.05		# of strides	11.76	11.62	0.14
		velocity	7.69	9.51	8.98	8.26	8.55	8.50	8.61	

Heat 2

date 19-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
Lee, Muna (USA) (1981)	time	6.37	11.44	16.82	22.76	22.76	7 / 1			
reaction time	0.163	interval	5.07	5.38	5.94		# of strides	11.44	11.32	0.12
		velocity	7.85	9.86	9.29	8.42	8.79	8.74	8.83	
Baptiste, Kelly-Ann (TTO) (1986)	time	6.33	11.47	16.95	23.00	23.00	5 / 2			
reaction time	0.142	interval	5.14	5.48	6.05		# of strides	11.47	11.53	-0.06
		velocity	7.90	9.73	9.12	8.26	8.70	8.72	8.67	
Gushchina, Yuliya (RUS) (1983)	time	6.35	11.51	17.00	23.07	23.07	8 / 3			
reaction time	0.175	interval	5.16	5.49	6.07		# of strides	11.51	11.56	-0.05
		velocity	7.87	9.69	9.11	8.24	8.67	8.69	8.65	
Hodge, Virgil (SKN) (1983)	time	6.43	11.61	17.13	23.34	23.34	1 / 4			
reaction time	0.172	interval	5.18	5.52	6.21		# of strides	11.61	11.73	-0.12
		velocity	7.78	9.65	9.06	8.05	8.57	8.61	8.53	

Heat 1

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
Facey, Simone (JAM) (1985)	time	6.34	11.48	16.87	22.83	22.83	8 / 1			
reaction time	0.170	interval	5.14	5.39	5.96		# of strides	11.48	11.35	0.13
		velocity	7.89	9.73	9.28	8.39	8.76	8.71	8.81	
Williams, Charonda (USA) (1987)	time	6.46	11.61	17.06	23.08	23.08	2 / 2			
reaction time	0.185	interval	5.15	5.45	6.02		# of strides	11.61	11.47	0.14
		velocity	7.74	9.71	9.17	8.31	8.67	8.61	8.72	
Danois, Johanna (FRA) (1987)	time	6.49	11.73	17.24	23.29	23.29	8 / 3			
reaction time	0.134	interval	5.24	5.51	6.05		# of strides	11.73	11.56	0.17
		velocity	7.70	9.54	9.07	8.26	8.59	8.53	8.65	
Fukushima, Chisato (JPN) (1988)	time	6.36	11.63	17.24	23.40	23.40	1 / 4			
reaction time	0.164	interval	5.27	5.61	6.16		# of strides	11.63	11.77	-0.14
		velocity	7.86	9.49	8.91	8.12	8.55	8.60	8.50	
Obregón, Darlenis (COL) (1986)	time	6.55	11.84	17.06	23.42	23.42	3 / 5			
reaction time	0.177	interval	5.29	5.22	6.36		# of strides	11.84	11.58	0.26
		velocity	7.63	9.45	9.58	7.86	8.54	8.45	8.64	
Ográzeanu, Andreea (ROU) (1986)	time	6.55	11.75	17.31	23.42	23.42	7 / 6			
reaction time	0.247	interval	5.20	5.56	6.11		# of strides	11.75	11.67	0.08
		velocity	7.63	9.62	8.99	8.18	8.54	8.51	8.57	

Heptathlon - Heat 4

date 15-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
Nana Djimou, Antoinette (FRA)	time	6.71	12.25	18.22	24.83	24.83	2 / 1			
reaction time	0.170	interval	5.54	5.97	6.61		# of strides	12.25	12.58	-0.33
		velocity	7.45	9.03	8.38	7.56	8.05	8.16	7.95	
Day, Sharon (USA) (1985)	time	6.84	12.48	18.55	25.15	25.15	7 / 3			

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

reaction time	0.232	interval	5.64	6.07	6.60	# of strides	12.48	12.67	-0.19
		velocity	7.31	8.87	8.24	7.95	8.01	7.89	
Grabuste, Aiga (LAT) (1988)	time	6.86	12.46	18.63	25.49	25.49	8 / 4		
reaction time	0.170	interval	5.60	6.17	6.86	# of strides	12.46	13.03	-0.57
		velocity	7.29	8.93	8.10	7.29	8.03	7.67	

Heptathlon - Heat 3date 15-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
Hazel, Louise (GBR) (1985)	time	6.57	12.01	17.82	24.19	24.19	3 / 1			
reaction time	0.187	interval	5.44	5.81	6.37	PB	# of strides	12.01	12.18	-0.17
		velocity	7.61	9.19	8.61	8.27		8.33	8.21	
Oeser, Jennifer (GER) (1983)	time	6.78	12.19	18.00	24.30	24.30	8 / 2			
reaction time	0.194	interval	5.41	5.81	6.30	PB	# of strides	12.19	12.11	0.08
		velocity	7.37	9.24	8.61	8.23		8.20	8.26	
Chudzik, Kamila (POL) (1986)	time	6.80	12.28	18.03	24.33	24.33	7 / 3			
reaction time	0.187	interval	5.48	5.75	6.30	PB	# of strides	12.28	12.05	0.23
		velocity	7.35	9.12	8.70	8.22		8.14	8.30	
Mächtigt, Julia (GER) (1986)	time	6.78	12.31	18.13	24.39	24.39	2 / 4			
reaction time	0.181	interval	5.53	5.82	6.26	# of strides	12.31	12.08	0.23	
		velocity	7.37	9.04	8.59	8.20		8.12	8.28	
Tarasova, Yuliya (UZB) (1986)	time	6.80	12.17	18.06	24.60	24.60	5 / 5			
reaction time	0.194	interval	5.37	5.89	6.54	# of strides	12.17	12.43	-0.26	
		velocity	7.35	9.31	8.49	8.13		8.22	8.05	
Dobrynska, Nataliya (UKR) (1983)	time	6.83	12.39	18.41	25.02	25.02	4 / 6			
reaction time	0.198	interval	5.56	6.02	6.61	# of strides	12.39	12.63	-0.24	
		velocity	7.32	8.99	8.31	7.99		8.07	7.92	
Züblin, Linda (SUI) (1986)	time	6.73	12.31	18.32	25.04	25.04	6 / 7			
reaction time	0.175	interval	5.58	6.01	6.72	# of strides	12.31	12.73	-0.42	
		velocity	7.43	8.96	8.32	7.99		8.12	7.86	

Heptathlon - Heat 2date 15-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
Pickler, Diana (USA) (1983)	time	6.77	12.33	18.29	24.75	24.75	5 / 1			
reaction time	0.173	interval	5.56	5.96	6.46	# of strides	12.33	12.42	-0.09	
		velocity	7.39	8.99	8.39	8.08		8.11	8.05	
De Aniceto, Marisa (FRA) (1986)	time	6.82	12.59	18.72	25.32	25.32	2 / 3			
reaction time	0.187	interval	5.77	6.13	6.60	# of strides	12.59	12.73	-0.14	
		velocity	7.33	8.67	8.16	7.90		7.94	7.86	

Heptathlon - Heat 1date 15-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
Ennis, Jessica (GBR) (1986)	time	6.53	11.76	17.33	23.25	23.25	7 / 1			
reaction time	0.182	interval	5.23	5.57	5.92	# of strides	11.76	11.49	0.27	
		velocity	7.66	9.56	8.98	8.60		8.50	8.70	
Yosypenko, Lyudmyla (UKR) (1986)	time	6.67	12.01	17.64	23.86	23.86	5 / 2			
reaction time	0.177	interval	5.34	5.63	6.22	# of strides	12.01	11.85	0.16	
		velocity	7.50	9.36	8.88	8.38		8.33	8.44	
Tymińska, Karolina (POL) (1984)	time	6.72	12.04	17.75	23.87	23.87	4 / 3			
reaction time	0.174	interval	5.32	5.71	6.12	# of strides	12.04	11.83	0.21	
		velocity	7.44	9.40	8.76	8.38		8.31	8.45	
Melnychenko, Hanna (UKR) (1986)	time	6.53	11.96	17.79	24.11	24.11	2 / 4			
reaction time	0.140	interval	5.43	5.83	6.32	PB	# of strides	11.96	12.15	-0.19
		velocity	7.66	9.21	8.58	8.30		8.36	8.23	
Chernova, Tatyana (RUS) (1988)	time	6.73	12.24	17.99	24.13	24.13	1 / 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	0.127	interval	5.51	5.75	6.14	# of strides	12.24	11.89	0.35
		velocity	7.43	9.07	8.70	8.14	8.29	8.17	8.41
Theisen, Brianne (CAN) (1988)	time	6.88	12.35	18.29	24.62	24.62	8 / 6		
reaction time	0.185	interval	5.47	5.94	6.33	# of strides	12.35	12.27	0.08
		velocity	7.27	9.14	8.42	7.90	8.12	8.10	8.15
Samuelsson, Jessica (SWE) (1982)	time	6.71	12.25	18.22	24.71	24.71	3 / 7		
reaction time	0.208	interval	5.54	5.97	6.49	# of strides	12.25	12.46	-0.21
		velocity	7.45	9.03	8.38	7.70	8.09	8.16	8.03
Wisse, Yvonne (NED) (1982)	time	6.84	12.28	18.26	24.78	24.78	6 / 8		
reaction time	0.173	interval	5.44	5.98	6.52	# of strides	12.28	12.50	-0.22
		velocity	7.31	9.19	8.36	7.67	8.07	8.14	8.00

2009 Japanese National High School Championships (Nara, JPN)

FINAL

date 01-Aug-09 wind 0.3 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
Tashiro, Narumi (JPN) (1991)	time	6.74	12.40	18.18	24.21	24.21	5 / 1			
reaction time	interval		5.66	5.78	6.03	# of strides	12.40	11.81	0.59	
	velocity	7.42	8.83	8.65	8.29	8.26	8.06	8.47		
Igarashi, Yuka (JPN) (1991)	time	6.68	12.25	18.13	24.45	24.45	4 / 2			
reaction time	interval		5.57	5.88	6.32	# of strides	12.25	12.20	0.05	
	velocity	7.49	8.98	8.50	7.91	8.18	8.16	8.20		
Seko, Nodoka (JPN) (1991)	time	6.69	12.30	18.18	24.50	24.50	8 / 3			
reaction time	interval		5.61	5.88	6.32	# of strides	12.30	12.20	0.10	
	velocity	7.47	8.91	8.50	7.91	8.16	8.13	8.20		
Fukuda, Tomomi (JPN) (1991)	time	6.75	12.37	18.26	24.51	24.51	7 / 4			
reaction time	interval		5.62	5.89	6.25	# of strides	12.37	12.14	0.23	
	velocity	7.41	8.90	8.49	8.00	8.16	8.08	8.24		
Hayakari, Narumi (JPN) (1991)	time	6.68	12.28	18.25	24.72	24.72	6 / 5			
reaction time	interval		5.60	5.97	6.47	# of strides	12.28	12.44	-0.16	
	velocity	7.49	8.93	8.38	7.73	8.09	8.14	8.04		
Torihara, Saki (JPN) (1992)	time	6.79	12.50	18.39	24.76	24.76	3 / 6			
reaction time	interval		5.71	5.89	6.37	# of strides	12.50	12.26	0.24	
	velocity	7.36	8.76	8.49	7.85	8.08	8.00	8.16		
Okuno, Yuko (JPN) (1993)	time	6.83	12.50	18.50	24.78	24.78	2 / 7			
reaction time	interval		5.67	6.00	6.28	# of strides	12.50	12.28	0.22	
	velocity	7.32	8.82	8.33	7.96	8.07	8.00	8.14		
Yamada, Akari (JPN) (1992)	time		12.53	18.49	24.81	24.81	1 / 8			
reaction time	interval			5.96	6.32	# of strides	12.53	12.28	0.25	
	velocity		7.98	8.39	7.91	8.06	7.98	8.14		

2009 Great CityGames (Manchester, GBR) (150m straightaway)

FINAL

date 17-May-09 wind 0.1 m/s (2009) - www.greatcitygames.org/Results/2009_gcgm.aspx

		50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	50-150m
Ferguson-McKenzie, Debbie (GBR) (1982)	time	6.16	11.14	16.54	16.54	/ 1			
reaction time	interval		4.98	5.40	PB	# of strides	11.14		10.38
	velocity	8.12	10.04	9.26	9.07		8.98		9.63
Ohuruogu, Christine (GBR) (1991)	time	6.41	11.56	17.10	17.10	/ 2			
reaction time	interval		5.15	5.54		# of strides	11.56		10.69
	velocity	7.80	9.71	9.03	8.77		8.65		9.35
Thompson, Shauna (GBR) (1987)	time	6.40	11.60	17.20	17.20	/ 3			
reaction time	interval		5.20	5.60	PB	# of strides	11.60		10.80
	velocity	7.81	9.62	8.93	8.72		8.62		9.26

McConnell, Lee (GBR) (1978)	time	6.53	11.67	17.28	17.28	/ 4		
reaction time	interval		5.14	5.61	PB	# of strides	11.67	10.75
	velocity	7.66	9.73	8.91	8.68		8.57	9.30

B FINAL

date 17-May-09 wind 0.3 m/s

Jalava (2009) - www.tilastopaja.org

		50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	50-150m
Onuora, Anyika (GBR) (1984)	time		11.75	17.68	17.68	1 / 1			
reaction time	interval			5.93		# of strides	11.75		
	velocity		8.51	8.43	8.48		8.51		
Fraser, Donna (GBR) (1972)	time		11.89	17.74	17.74	2 / 2			
reaction time	interval			5.85	PB	# of strides	11.89		
	velocity		8.41	8.55	8.46		8.41		
Douglas, Montell (GBR) (1986)	time		11.85	17.78	17.78	3 / 3			
reaction time	interval			5.93		# of strides	11.85		
	velocity		8.44	8.43	8.44		8.44		
Claxton, Sarah (GBR) (1979)	time		12.03	18.13	18.13	4 / 4			
reaction time	interval			6.10	PB	# of strides	12.03		
	velocity		8.31	8.20	8.27		8.31		

Heat 2

date 17-May-09 wind -0.9 m/s

Jalava (2009) - www.tilastopaja.org

		50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	50-150m
Thompson, Shaunna (GBR) (1984)	time		11.73	17.37	17.37	1 / 1			
reaction time	interval			5.64		# of strides	11.73		
	velocity		8.53	8.87	8.64		8.53		
Ohuruogu, Christine (GBR) (1984)	time		11.76	17.40	17.40	2 / 2			
reaction time	interval			5.64		# of strides	11.76		
	velocity		8.50	8.87	8.62		8.50		
Onuora, Anyika (GBR) (1984)	time		11.98	17.98	17.98	3 / 3			
reaction time	interval			6.00		# of strides	11.98		
	velocity		8.35	8.33	8.34		8.35		
Claxton, Sarah (GBR) (1979)	time		12.36	18.51	18.51	4 / 4			
reaction time	interval			6.15		# of strides	12.36		
	velocity		8.09	8.13	8.10		8.09		

Heat 1

date 17-May-09 wind -0.8 m/s

Jalava (2009) - www.tilastopaja.org

		50m	100m	150m	Official Time	Lane / Place	0-100m	100-200m	50-150m
Ferguson-McKenzie, Debbie (GBR) (1972)	time		11.43	16.90	16.90	2 / 1			
reaction time	interval			5.47		# of strides	11.43		
	velocity		8.75	9.14	8.88		8.75		
McConnell, Lee (GBR) (1978)	time		11.90	17.46	17.46	4 / 2			
reaction time	interval			5.56		# of strides	11.90		
	velocity		8.40	8.99	8.59		8.40		
Douglas, Montell (GBR) (1986)	time		11.87	17.83	17.83	3 / 3			
reaction time	interval			5.96		# of strides	11.87		
	velocity		8.42	8.39	8.41		8.42		
Fraser, Donna (GBR) (1972)	time		12.03	17.87	17.87	1 / 4			
reaction time	interval			5.84		# of strides	12.03		
	velocity		8.31	8.56	8.39		8.31		

2008 IAAF World Athletic Final (Stuttgart, GER)**FINAL**

date 13-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
Richards, Sanya (USA) (1985)	time	6.36	11.48	16.83	22.50	22.50	3 / 1			
reaction time	0.156 interval		5.12	5.35	5.67		# of strides	11.48	11.02	0.46
	velocity	7.86	9.77	9.35	8.82	8.89		8.71	9.07	

Hooker, Mashevet (USA) (1984)	time	6.48	11.63	16.94	22.69	22.69	5 / 2			
	reaction time	0.182	interval	5.15	5.31	5.75	# of strides	11.63	11.06	0.57
	velocity	7.72	9.71	9.42	8.70	8.81		8.60	9.04	
Stewart, Kerron (JAM) (1984)	time	6.41	11.51	16.88	22.72	22.72	4 / 3			
	reaction time	0.162	interval	5.10	5.37	5.84	# of strides	11.51	11.21	0.30
	velocity	7.80	9.80	9.31	8.56	8.80		8.69	8.92	
Ferguson-McKenzie, Debbie (B)	time	6.41	11.54	16.95	22.89	22.89	7 / 4			
	reaction time	0.163	interval	5.13	5.41	5.94	# of strides	11.54	11.35	0.19
	velocity	7.80	9.75	9.24	8.42	8.74		8.67	8.81	
Jeter, Carmelita (USA) (1979)	time	6.60	11.83	17.20	22.98	22.98	6 / 5			
	reaction time	0.170	interval	5.23	5.37	5.78	# of strides	11.83	11.15	0.68
	velocity	7.58	9.56	9.31	8.65	8.70		8.45	8.97	
Williams, Lauryn (USA) (1983)	time	6.47	11.79	17.31	23.30	23.30	2 / 6			
	reaction time	0.185	interval	5.32	5.52	5.99	# of strides	11.79	11.51	0.28
	velocity	7.73	9.40	9.06	8.35	8.58		8.48	8.69	
Gushchina, Yulia (RUS) (1983)	time	6.37	11.64	17.24	23.37	23.37	1 / 7			
	reaction time	0.148	interval	5.27	5.60	6.13	# of strides	11.64	11.73	-0.09
	velocity	7.85	9.49	8.93	8.16	8.56		8.59	8.53	
Hurtis-Houairi, Muriel (FRA) (1984)	time	6.57	11.75	17.34	23.43	23.43	8 / 8			
	reaction time	0.148	interval	5.18	5.59	6.09	# of strides	11.75	11.68	0.07
	velocity	7.61	9.65	8.94	8.21	8.54		8.51	8.56	

2008 Olympic Games (Beijing, CHN)**FINAL**

date 21-Aug-08 wind 0.6 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
Campbell-Brown, Veronica (JAI)	time		11.00		21.74	21.74	4 / 1			
	reaction time	0.172	interval		10.74	PB	# of strides	11.00	10.74	0.26
	velocity		9.09		9.31	9.20	96.2	9.09	9.31	
Felix, Allyson (USA) (1985)	time		11.17		21.93	21.93	5 / 2			
	reaction time	0.193	interval		10.76		# of strides	11.17	10.76	0.41
	velocity		8.95		9.29	9.12	89.5	8.95	9.29	
Stewart, Kerron (JAM) (1984)	time		11.15		22.00	22.00	6 / 3			
	reaction time	0.199	interval		10.85		# of strides	11.15	10.85	0.30
	velocity		8.97		9.22	9.09	93.0	8.97	9.22	
Lee, Muna (USA) (1981)	time		11.10		22.01	22.01	9 / 4			
	reaction time	0.176	interval		10.91	PB	# of strides	11.10	10.91	0.19
	velocity		9.01		9.17	9.09	93.2	9.01	9.17	
Hooker, Marshevet (USA) (1984)	time		11.21		22.34	22.34	7 / 5			
	reaction time	0.200	interval		11.13	PB	# of strides	11.21	11.13	0.08
	velocity		8.92		8.98	8.95	92.5	8.92	8.98	
Simpson, Sherone (JAM) (1984)	time		11.32		22.36	22.36	8 / 6			
	reaction time	0.167	interval		11.04		# of strides	11.32	11.04	0.28
	velocity		8.83		9.06	8.94	98.2	8.83	9.06	
Ferguson-McKenzie, Debbie (B)	time		11.46		22.61	22.61	2 / 7			
	reaction time	0.175	interval		11.15		# of strides	11.46	11.15	0.31
	velocity		8.73		8.97	8.85	96.5	8.73	8.97	
Mothersill, Cydonie (CAY) (1978)	time		11.50		22.68	22.68	3 / 8			
	reaction time	0.206	interval		11.18		# of strides	11.50	11.18	0.32
	velocity		8.70		8.94	8.82	98.0	8.70	8.94	

2008 Japanese National High School Championships (Kumagaya, JPN)**FINAL**

date 01-Aug-08 wind -2.4 m/s Abe (2008) - 61st high school championships: JAF scientific committee- biomechanics

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
Imai, Saori (JPN) (1990)	time	6.61	12.17	18.10	24.35	24.35	/ 1			
	reaction time									
	interval		5.56	5.93	6.25		# of strides	12.17	12.18	-0.01
	velocity	7.56	8.99	8.43	8.00	8.21		8.22	8.21	
Seko, Nodoka (JPN) (1991)	time	6.65	12.30	18.31	24.80	24.80	/ 2			
	reaction time									
	interval		5.65	6.01	6.49		# of strides	12.30	12.50	-0.20
	velocity	7.52	8.85	8.32	7.70	8.06		8.13	8.00	
Watanabe, Misato (JPN) (1990)	time	6.72	12.30	18.32	24.81	24.81	/ 3			
	reaction time									
	interval		5.58	6.02	6.49		# of strides	12.30	12.51	-0.21
	velocity	7.44	8.96	8.31	7.70	8.06		8.13	7.99	
Ichikawa, Kana (JPN) (1991)	time	6.78	12.45	18.49	24.90	24.90	/ 4			
	reaction time									
	interval		5.67	6.04	6.41		# of strides	12.45	12.45	0.00
	velocity	7.37	8.82	8.28	7.80	8.03		8.03	8.03	
Banno, Rio (JPN) (1990)	time	6.68	12.37	18.48	24.93	24.93	/ 5			
	reaction time									
	interval		5.69	6.11	6.45		# of strides	12.37	12.56	-0.19
	velocity	7.49	8.79	8.18	7.75	8.02		8.08	7.96	
Iwadate, Hanae (JPN) (1990)	time	6.82	12.48	18.54	24.97	24.97	/ 6			
	reaction time									
	interval		5.66	6.06	6.43		# of strides	12.48	12.49	-0.01
	velocity	7.33	8.83	8.25	7.78	8.01		8.01	8.01	
Kitamura, Chisato (JPN) (1990)	time	6.92	12.68	18.70	25.09	25.09	/ 7			
	reaction time									
	interval		5.76	6.02	6.39		# of strides	12.68	12.41	0.27
	velocity	7.23	8.68	8.31	7.82	7.97		7.89	8.06	
Iwatsubo, Yuki (JPN)	time	6.88	12.57	18.60	25.11	25.11	/ 8			
	reaction time									
	interval		5.69	6.03	6.51		# of strides	12.57	12.54	0.03
	velocity	7.27	8.79	8.29	7.68	7.96		7.96	7.97	

2008 Windsprint (Sundsvall, SWE)**FINAL**

date 06-Jul-08 wind 1.3 m/s

(2008) - www.ssg.se/en/Windsprint/Split-times/

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
McLaughlin, Annesha (JAM) (1990)	time		11.90	17.52	23.67	23.67	5 / 1			
	reaction time									
	interval			5.62	6.15		# of strides	11.90	11.77	0.13
	velocity		8.40	8.90	8.13	8.45		8.40	8.50	
Slettum, Elisabeth (NOR) (1986)	time		12.12	17.81	23.87	23.87	2 / 2			
	reaction time									
	interval			5.69	6.06		# of strides	12.12	11.75	0.37
	velocity		8.25	8.79	8.25	8.38		8.25	8.51	
Harmon, Donita (USA) (1983)	time		12.14	17.86	23.95	23.95	6 / 3			
	reaction time									
	interval			5.72	6.09		# of strides	12.14	11.81	0.33
	velocity		8.24	8.74	8.21	8.35		8.24	8.47	
Pillay, Geraldine (RSA) (1977)	time		12.15	17.89	24.12	24.12	4 / 4			
	reaction time									
	interval			5.74	6.23		# of strides	12.15	11.97	0.18
	velocity		8.23	8.71	8.03	8.29		8.23	8.35	

B FINAL

date 06-Jul-08 wind 1.2 m/s

(2008) - www.ssg.se/en/Windsprint/Split-times/

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Berntsson, Lena (SWE) (1978)	time		12.17	18.08	24.47	24.47	6 / 1			
	reaction time									
	interval			5.91	6.39		# of strides	12.17	12.30	-0.13
	velocity		8.22	8.46	7.82	8.17		8.22	8.13	
Helgesen, Irene (NOR) (1985)	time		12.27	18.21	24.47	24.47	3 / 2			
	reaction time									
	interval			5.94	6.26		# of strides	12.27	12.20	0.07
	velocity		8.15	8.42	7.99	8.17		8.15	8.20	
Neal, Tangelia (USA) (1979)	time		12.25	18.12	24.51	24.51	4 / 3			
	reaction time									
	interval			5.87	6.39		# of strides	12.25	12.26	-0.01
	velocity		8.16	8.52	7.82	8.16		8.16	8.16	

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

Salivaara, Katja (FIN) (1980)	time	12.56	18.71	25.52	25.52	5 / 4			
reaction time	interval		6.15	6.81		# of strides	12.56	12.96	-0.40
	velocity	7.96	8.13	7.34	7.84		7.96	7.72	

2008 USA Olympic Trials (Eugene, OR)**FINAL**

date 06-Jul-08

wind 5.6 m/s

USATF Women's Sprint Development with HPC (2008)

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Felix, Allyson (USA) (1985)	time	6.30	11.28	16.33	21.82	21.82	5 / 1			
reaction time	interval		4.98	5.05	5.49		# of strides	11.28	10.54	0.74
	velocity	7.94	10.04	9.90	9.11	9.17		8.87	9.49	
Lee, Muna (USA) (1981)	time	6.27	11.28	16.38	21.99	21.99	6 / 2			
reaction time	interval		5.01	5.10	5.61		# of strides	11.28	10.71	0.57
	velocity	7.97	9.98	9.80	8.91	9.10		8.87	9.34	
Hooker, Marshvet (USA) (1984)	time	6.29	11.41	16.53	22.20	22.20	7 / 3			
reaction time	interval		5.12	5.12	5.67		# of strides	11.41	10.79	0.62
	velocity	7.95	9.77	9.77	8.82	9.01		8.76	9.27	
Williams, Lauryn (USA) (1983)	time	6.21	11.31	16.62	22.21	22.21	3 / 4			
reaction time	interval		5.10	5.31	5.59		# of strides	11.31	10.90	0.41
	velocity	8.05	9.80	9.42	8.94	9.00		8.84	9.17	
Knight, Bianca (USA) (1989)	time	6.23	11.33	16.58	22.25	22.25	4 / 5			
reaction time	interval		5.10	5.25	5.67		# of strides	11.33	10.92	0.41
	velocity	8.03	9.80	9.52	8.82	8.99		8.83	9.16	
Jeter, Carmelita (USA) (1979)	time	6.38	11.51	16.71	22.35	22.35	2 / 6			
reaction time	interval		5.13	5.20	5.64		# of strides	11.51	10.84	0.67
	velocity	7.84	9.75	9.62	8.87	8.95		8.69	9.23	
Solomon, Shalonda (USA) (1981)	time	6.31	11.46	16.69	22.36	22.36	8 / 7			
reaction time	interval		5.15	5.23	5.67		# of strides	11.46	10.90	0.56
	velocity	7.92	9.71	9.56	8.82	8.94		8.73	9.17	

Semi-Final 2

date 05-Jul-08

wind 0.0 m/s

USATF Women's Sprint Development with HPC (2008)

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Felix, Allyson (USA) (1985)	time	6.34	11.37	16.53	22.22	22.22	6 / 1			
reaction time	interval		5.03	5.16	5.69		# of strides	11.37	10.85	0.52
	velocity	7.89	9.94	9.69	8.79	9.00		8.80	9.22	
Lee, Muna (USA) (1981)	time	6.34	11.40	16.60	22.33	22.33	8 / 2			
reaction time	interval		5.06	5.20	5.73		# of strides	11.40	10.93	0.47
	velocity	7.89	9.88	9.62	8.73	8.96		8.77	9.15	
Solomon, Shalonda (USA) (1981)	time	6.34	11.56	16.76	22.48	22.48	4 / 3			
reaction time	interval		5.22	5.20	5.72		# of strides	11.56	10.92	0.64
	velocity	7.89	9.58	9.62	8.74	8.90		8.65	9.16	
Jeter, Carmelita (USA) (1979)	time	6.41	11.53	16.75	22.61	22.61	7 / 4			
reaction time	interval		5.12	5.22	5.86		# of strides	11.53	11.08	0.45
	velocity	7.80	9.77	9.58	8.53	8.85		8.67	9.03	
Floyd, Ebonie (USA) (1983)	time	6.45	11.75	16.96	22.63	22.63	5 / 5			
reaction time	interval		5.30	5.21	5.67		# of strides	11.75	10.88	0.87
	velocity	7.75	9.43	9.60	8.82	8.84		8.51	9.19	
Durst, Stephanie (USA) (1982)	time	6.35	11.52	16.97	22.99	22.99	2 / 6			
reaction time	interval		5.17	5.45	6.02		# of strides	11.52	11.47	0.05
	velocity	7.87	9.67	9.17	8.31	8.70		8.68	8.72	
Barber, Mikele (USA) (1980)	time	6.50	11.66	17.08	23.04	23.04	3 / 7			
reaction time	interval		5.16	5.42	5.96		# of strides	11.66	11.38	0.28
	velocity	7.69	9.69	9.23	8.39	8.68		8.58	8.79	
Cole, Leslie (USA) (1987)	time	6.69	12.01	17.38	23.24	23.24	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	interval	5.32	5.37	5.86	PB	# of strides	12.01	11.23	0.78
	velocity	7.47	9.40	9.31	8.53	8.61	8.33	8.90	

Semi-Final 1

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
Knight, Bianca (USA) (1989)	time	6.32	11.48	16.72	22.53	22.53	5 / 1			
	reaction time		interval	5.16	5.24	5.81	# of strides	11.48	11.05	0.43
			velocity	7.91	9.69	9.54	8.61	8.88	8.71	9.05
Hooker, Marshvet (USA) (1984)	time	6.44	11.61	16.81	22.55	22.55	4 / 2			
	reaction time		interval	5.17	5.20	5.74	# of strides	11.61	10.94	0.67
			velocity	7.76	9.67	9.62	8.71	8.87	8.61	9.14
Williams, Lauryn (USA) (1983)	time	6.34	11.53	16.76	22.59	22.59	3 / 3			
	reaction time		interval	5.19	5.23	5.83	# of strides	11.53	11.06	0.47
			velocity	7.89	9.63	9.56	8.58	8.85	8.67	9.04
Edwards, Torri (USA) (1977)	time	6.31	11.46	16.76	22.66	22.66	7 / 4			
	reaction time		interval	5.15	5.30	5.90	# of strides	11.46	11.20	0.26
			velocity	7.92	9.71	9.43	8.47	8.83	8.73	8.93
Moore, LaShaunte'a (USA) (1988)	time	6.45	11.77	17.09	23.02	23.02	6 / 5			
	reaction time		interval	5.32	5.32	5.93	# of strides	11.77	11.25	0.52
			velocity	7.75	9.40	9.40	8.43	8.69	8.50	8.89
Anderson, Alexandria (USA) (1988)	time	6.37	11.66	17.10	23.21	23.21	8 / 6			
	reaction time		interval	5.29	5.44	6.11	# of strides	11.66	11.55	0.11
			velocity	7.85	9.45	9.19	8.18	8.62	8.58	8.66
Williams, Charonda (USA) (1987)	time	6.54	11.88	17.45	23.37	23.37	2 / 7			
	reaction time		interval	5.34	5.57	5.92	# of strides	11.88	11.49	0.39
			velocity	7.65	9.36	8.98	8.45	8.56	8.42	8.70
Lucas, Porscha (USA) (1988)	time	6.59	11.99	17.50	23.44	23.44	1 / 8			
	reaction time		interval	5.40	5.51	5.94	# of strides	11.99	11.45	0.54
			velocity	7.59	9.26	9.07	8.42	8.53	8.34	8.73

Quarter-Final 4

date 05-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
Knight, Bianca (USA) (1989)	time	6.26	11.54	16.83	22.81	22.81	6 / 1			
	reaction time		interval	5.28	5.29	5.98	# of strides	11.54	11.27	0.27
			velocity	7.99	9.47	9.45	8.36	8.77	8.67	8.87
Edwards, Torri (USA) (1977)	time	6.25	11.60	16.93	23.09	23.09	7 / 2			
	reaction time		interval	5.35	5.33	6.16	# of strides	11.60	11.49	0.11
			velocity	8.00	9.35	9.38	8.12	8.66	8.62	8.70
Barber, Mikele (USA) (1980)	time	6.55	12.03	17.39	23.33	23.33	5 / 3			
	reaction time		interval	5.48	5.36	5.94	# of strides	12.03	11.30	0.73
			velocity	7.63	9.12	9.33	8.42	8.57	8.31	8.85
Lewis, Mechelle (USA) (1980)	time	6.27	11.76	17.22	23.55	23.55	8 / 4			
	reaction time		interval	5.49	5.46	6.33	# of strides	11.76	11.79	-0.03
			velocity	7.97	9.11	9.16	7.90	8.49	8.50	8.48
Knight, Natalie (USA) (1986)	time	6.54	12.06	17.52	23.57	23.57	4 / 5			
	reaction time		interval	5.52	5.46	6.05	# of strides	12.06	11.51	0.55
			velocity	7.65	9.06	9.16	8.26	8.49	8.29	8.69
Roseby, Hasani (USA) (1982)	time	6.34	11.90	17.53	23.81	23.81	3 / 6			
	reaction time		interval	5.56	5.63	6.28	# of strides	11.90	11.91	-0.01
			velocity	7.89	8.99	8.88	7.96	8.40	8.40	8.40

Quarter-Final 3

date 05-Jul-08

wind 0.0 m/s

USATF Women's Sprint Development with HPC (2008)

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hooker, Marshvet (USA) (1984)	time	6.57	11.69	16.93	22.74	22.74	5 / 1			

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

reaction time	interval	5.12	5.24	5.81		# of strides	11.69	11.05	0.64		
	velocity	7.61	9.77	9.54	8.61	8.80	8.55	9.05			
Jeter, Carmelita (USA) (1979)	time	6.54	11.73	16.93	22.90	22.90	7 / 2				
reaction time	interval		5.19	5.20	5.97		# of strides	11.73	11.17	0.56	
	velocity	7.65	9.63	9.62	8.38	8.73		8.53	8.95		
Williams, Lauryn (USA) (1983)	time	6.47	11.70	17.08	23.12	23.12	4 / 3				
reaction time	interval		5.23	5.38	6.04		# of strides	11.70	11.42	0.28	
	velocity	7.73	9.56	9.29	8.28	8.65		8.55	8.76		
Lucas, Porscha (USA) (1988)	time	6.45	11.88	17.30	23.33	23.33	6 / 4				
reaction time	interval		5.43	5.42	6.03		# of strides	11.88	11.45	0.43	
	velocity	7.75	9.21	9.23	8.29	8.57		8.42	8.73		
Cole, Leslie (USA) (1987)	time	6.69	11.94	17.37	23.36	23.36	8 / 5				
reaction time	interval		5.25	5.43	5.99	PB	# of strides	11.94	11.42	0.52	
	velocity	7.47	9.52	9.21	8.35	8.56		8.38	8.76		
Myrick, Wyllesheia (USA) (1979)	time	6.54	11.81	17.38	23.43	23.43	3 / 6				
reaction time	interval		5.27	5.57	6.05		# of strides	11.81	11.62	0.19	
	velocity	7.65	9.49	8.98	8.26	8.54		8.47	8.61		
Quarter-Final 2	date	05-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
Floyd, Ebonie (USA) (1983)	time		6.62	12.02	17.31	23.05	23.05	6 / 1			
reaction time	interval			5.40	5.29	5.74		# of strides	12.02	11.03	0.99
	velocity		7.55	9.26	9.45	8.71	8.68		8.32	9.07	
Felix, Allyson (USA) (1985)	time		6.51	11.71	17.13	23.09	23.09	5 / 2			
reaction time	interval			5.20	5.42	5.96		# of strides	11.71	11.38	0.33
	velocity		7.68	9.62	9.23	8.39	8.66		8.54	8.79	
Anderson, Alexandria (USA) (1984)	time		6.52	11.81	17.28	23.28	23.28	7 / 3			
reaction time	interval			5.29	5.47	6.00		# of strides	11.81	11.47	0.34
	velocity		7.67	9.45	9.14	8.33	8.59		8.47	8.72	
Williams, Charonda (USA) (1987)	time		6.60	11.94	17.46	23.35	23.35	3 / 4			
reaction time	interval			5.34	5.52	5.89		# of strides	11.94	11.41	0.53
	velocity		7.58	9.36	9.06	8.49	8.57		8.38	8.76	
Wilson, Latonia (USA) (1984)	time		6.56	11.92	17.43	23.54	23.54	4 / 5			
reaction time	interval			5.36	5.51	6.11		# of strides	11.92	11.62	0.30
	velocity		7.62	9.33	9.07	8.18	8.50		8.39	8.61	
Layne, Lynne (USA) (1988)	time		6.67	12.11	17.55	23.75	23.75	8 / 6			
reaction time	interval			5.44	5.44	6.20		# of strides	12.11	11.64	0.47
	velocity		7.50	9.19	9.19	8.06	8.42		8.26	8.59	
Quarter-Final 1	date	05-Jul-08	wind	1.6 m/s				USATF Women's Sprint Development with HPC (2008)			
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Solomon, Shalonda (USA) (1984)	time		6.49	11.57	16.95	22.68	22.68	6 / 1			
reaction time	interval			5.08	5.38	5.73		# of strides	11.57	11.11	0.46
	velocity		7.70	9.84	9.29	8.73	8.82		8.64	9.00	
Moore, LaShaunte'a (USA) (1984)	time		6.49	11.53	16.95	22.72	22.72	8 / 2			
reaction time	interval			5.04	5.42	5.77		# of strides	11.53	11.19	0.34
	velocity		7.70	9.92	9.23	8.67	8.80		8.67	8.94	
Lee, Muna (USA) (1981)	time		6.52	11.52	16.97	22.84	22.84	5 / 3			
reaction time	interval			5.00	5.45	5.87		# of strides	11.52	11.32	0.20
	velocity		7.67	10.00	9.17	8.52	8.76		8.68	8.83	
Durst, Stephanie (USA) (1982)	time		6.49	11.68	17.28	23.27	23.27	7 / 4			
reaction time	interval			5.19	5.60	5.99		# of strides	11.68	11.59	0.09
	velocity		7.70	9.63	8.93	8.35	8.59		8.56	8.63	

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DV=Drug Violation

Hastings, Natasha (USA) (1986)	time	6.52	11.79	17.53	23.55	23.55	3 / 5			
reaction time	interval		5.27	5.74	6.02		# of strides	11.79	11.76	0.03
	velocity	7.67	9.49	8.71	8.31	8.49		8.48	8.50	
Lowery, Santana (USA) (1987)	time	6.52	11.87	17.58	23.84	23.84	4 / 6			
reaction time	interval		5.35	5.71	6.26		# of strides	11.87	11.97	-0.10
	velocity	7.67	9.35	8.76	7.99	8.39		8.42	8.35	

Heat 5

date 04-Jul-08 wind 2.0 m/s USATF Women's Sprint Development with HPC (2008)

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Solomon, Shalonda (USA) (1988)	time	6.34	11.54	16.80	22.51	22.51	7 / 1			
reaction time	interval		5.20	5.26	5.71		# of strides	11.54	10.97	0.57
	velocity	7.89	9.62	9.51	8.76	8.88		8.67	9.12	
Edwards, Torri (USA) (1977)	time	6.44	11.62	16.88	22.87	22.87	8 / 2			
reaction time	interval		5.18	5.26	5.99		# of strides	11.62	11.25	0.37
	velocity	7.76	9.65	9.51	8.35	8.75		8.61	8.89	
Lucas, Porscha (USA) (1988)	time	6.54	11.72	17.28	23.20	23.20	3 / 3			
reaction time	interval		5.18	5.56	5.92		# of strides	11.72	11.48	0.24
	velocity	7.65	9.65	8.99	8.45	8.62		8.53	8.71	
Lowery, Santana (USA) (1987)	time	6.57	11.89	17.40	23.34	23.34	6 / 4			
reaction time	interval		5.32	5.51	5.94	PB	# of strides	11.89	11.45	0.44
	velocity	7.61	9.40	9.07	8.42	8.57		8.41	8.73	
Cox, Shana (USA) (1985)	time	6.70	12.02	17.55	23.50	23.50	5 / 5			
reaction time	interval		5.32	5.53	5.95		# of strides	12.02	11.48	0.54
	velocity	7.46	9.40	9.04	8.40	8.51		8.32	8.71	
Ivery, Lakadron (USA) (1983)	time	6.52	11.78	17.70	23.88	23.88	2 / 6			
reaction time	interval		5.26	5.92	6.18		# of strides	11.78	12.10	-0.32
	velocity	7.67	9.51	8.45	8.09	8.38		8.49	8.26	

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
Jeter, Carmelita (USA) (1979)	time	6.49	11.82	17.23	23.21	23.21	3 / 1			
reaction time	interval		5.33	5.41	5.98		# of strides	11.82	11.39	0.43
	velocity	7.70	9.38	9.24	8.36	8.62		8.46	8.78	
Floyd, Ebonie (USA) (1983)	time	6.60	11.91	17.40	23.49	23.49	7 / 2			
reaction time	interval		5.31	5.49	6.09		# of strides	11.91	11.58	0.33
	velocity	7.58	9.42	9.11	8.21	8.51		8.40	8.64	
Wilson, Latonia (USA) (1984)	time	6.57	11.97	17.45	23.56	23.56	9 / 3			
reaction time	interval		5.40	5.48	6.11		# of strides	11.97	11.59	0.38
	velocity	7.61	9.26	9.12	8.18	8.49		8.35	8.63	
Myrick, Wyllesheia (USA) (1979)	time	6.67	12.08	17.57	23.66	23.66	8 / 4			
reaction time	interval		5.41	5.49	6.09		# of strides	12.08	11.58	0.50
	velocity	7.50	9.24	9.11	8.21	8.45		8.28	8.64	

Heat 3

date 04-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
Felix, Allyson (USA) (1985)	time	6.37	11.54	16.83	22.68	22.68	6 / 1			
reaction time	interval		5.17	5.29	5.85		# of strides	11.54	11.14	0.40
	velocity	7.85	9.67	9.45	8.55	8.82	88.2	8.67	8.98	
Durst, Stephanie (USA) (1982)	time	6.37	11.62	17.17	23.15	23.15	2 / 2			
reaction time	interval		5.25	5.55	5.98		# of strides	11.62	11.53	0.09
	velocity	7.85	9.52	9.01	8.36	8.64	101.0	8.61	8.67	
Knight, Natalie (USA) (1986)	time	6.59	11.91	17.38	23.38	23.38	5 / 3			
reaction time	interval		5.32	5.47	6.00		# of strides	11.91	11.47	0.44
	velocity	7.59	9.40	9.14	8.33	8.55	93.0	8.40	8.72	

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

Roseby, Hasani (USA) (1982)	time	6.33	11.72	17.26	23.45	23.45	8 / 4			
reaction time	interval		5.39	5.54	6.19		# of strides	11.72	11.73	-0.01
	velocity	7.90	9.28	9.03	8.08	8.53	99.2	8.53	8.53	
Layne, Lynne (USA) (1988)	time	6.37	11.66	17.30	23.47	23.47	3 / 5			
reaction time	interval		5.29	5.64	6.17		# of strides	11.66	11.81	-0.15
	velocity	7.85	9.45	8.87	8.10	8.52	99.5	8.58	8.47	
Hastings, Natasha (USA) (1986)	time	6.67	11.91	17.50	23.49	23.49	7 / 6			
reaction time	interval		5.24	5.59	5.99		# of strides	11.91	11.58	0.33
	velocity	7.50	9.54	8.94	8.35	8.51	97.2	8.40	8.64	
Rooks, Cynethia (USA) (1984)	time	6.62	11.96	17.55	23.66	23.66	4 / 7			
reaction time	interval		5.34	5.59	6.11		# of strides	11.96	11.70	0.26
	velocity	7.55	9.36	8.94	8.18	8.45	103.5	8.36	8.55	

Heat 2

date 04-Jul-08 wind 0.0 m/s USATF Women's Sprint Development with HPC (2008)

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Knight, Bianca (USA) (1989)	time	6.35	11.50	16.85	22.74	22.74	5 / 1			
reaction time	interval		5.15	5.35	5.89		# of strides	11.50	11.24	0.26
	velocity	7.87	9.71	9.35	8.49	8.80		8.70	8.90	
Anderson, Alexandria (USA) (1988)	time	6.37	11.66	17.05	23.10	23.10	4 / 2			
reaction time	interval		5.29	5.39	6.05		# of strides	11.66	11.44	0.22
	velocity	7.85	9.45	9.28	8.26	8.66		8.58	8.74	
Barber, Mikele (USA) (1980)	time	6.62	11.88	17.20	23.10	23.10	6 / 3			
reaction time	interval		5.26	5.32	5.90		# of strides	11.88	11.22	0.66
	velocity	7.55	9.51	9.40	8.47	8.66		8.42	8.91	
Moore, LaShaunte'a (USA) (1988)	time	6.50	11.79	17.28	23.17	23.17	3 / 4			
reaction time	interval		5.29	5.49	5.89		# of strides	11.79	11.38	0.41
	velocity	7.69	9.45	9.11	8.49	8.63		8.48	8.79	
Cole, Leslie (USA) (1987)	time	6.64	11.99	17.41	23.37	23.37	7 / 5			
reaction time	interval		5.35	5.42	5.96	PB	# of strides	11.99	11.38	0.61
	velocity	7.53	9.35	9.23	8.39	8.56		8.34	8.79	
Lewis, Mechelle (USA) (1980)	time	6.47	11.72	17.30	23.40	23.40	2 / 6			
reaction time	interval		5.25	5.58	6.10		# of strides	11.72	11.68	0.04
	velocity	7.73	9.52	8.96	8.20	8.55		8.53	8.56	

Heat 1

date 04-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
Hooker, Marshvet (USA) (1984)	time	6.51	11.79	17.10	22.87	22.87	6 / 1			
reaction time	interval		5.28	5.31	5.77		# of strides	11.79	11.08	0.71
	velocity	7.68	9.47	9.42	8.67	8.75	94.0	8.48	9.03	
Lee, Muna (USA) (1981)	time		11.87	17.31	23.27	23.27	7 / 2			
reaction time	interval			5.44	5.96		# of strides	11.87	11.40	0.47
	velocity		8.42	9.19	8.39	8.59	90.0	8.42	8.77	
Williams, Lauryn (USA) (1983)	time		11.91	17.33	23.30	23.30	8 / 3			
reaction time	interval			5.42	5.97		# of strides	11.91	11.39	0.52
	velocity		8.40	9.23	8.38	8.58	100.5	8.40	8.78	
Williams, Charonda (USA) (1987)	time	6.51	11.89	17.37	23.37	23.37	3 / 4			
reaction time	interval		5.38	5.48	6.00		# of strides	11.89	11.48	0.41
	velocity	7.68	9.29	9.12	8.33	8.56	100.0	8.41	8.71	
Kidd, Ashlee (USA) (1985)	time	6.59	12.09	17.66	23.69	23.69	4 / 5			
reaction time	interval		5.50	5.57	6.03		# of strides	12.09	11.60	0.49
	velocity	7.59	9.09	8.98	8.29	8.44	92.0	8.27	8.62	
Miller, Scottesha (USA) (1988)	time	6.62	12.11	17.66	23.92	23.92	5 / 6			

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

reaction time	interval	5.49	5.55	6.26		# of strides	12.11	11.81	0.30
	velocity	7.55	9.11	9.01	7.99	8.36	95.0	8.26	8.47

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

date 22-Jun-08

wind -2.4 m/s

USATF Women's Sprint Development with HPC (2008)

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Townsend, Tiffany (USA) (1989)	time		12.11	17.63	23.60	23.60	4 / 1			
	reaction time			5.52	5.97		# of strides	12.11	11.49	0.62
	interval									
	velocity		8.26	9.06	8.38	8.47		8.26	8.70	
Jordan, Victoria (USA) (1990)	time		12.02	17.62	23.73	23.73	8 / 2			
	reaction time			5.60	6.11		# of strides	12.02	11.71	0.31
	interval									
	velocity		8.32	8.93	8.18	8.43		8.32	8.54	
Purvis, Ashton (USA) (1992)	time		11.99	17.61	23.80	23.80	7 / 3			
	reaction time			5.62	6.19		# of strides	11.99	11.81	0.18
	interval									
	velocity		8.34	8.90	8.08	8.40		8.34	8.47	
McGrone, Candyce (USA) (1989)	time		11.96	17.57	23.84	23.84	6 / 4			
	reaction time			5.61	6.27		# of strides	11.96	11.88	0.08
	interval									
	velocity		8.36	8.91	7.97	8.39		8.36	8.42	
Davis, Jessica (USA) (1992)	time		11.93	17.78	24.02	24.02	9 / 5			
	reaction time			5.85	6.24		# of strides	11.93	12.09	-0.16
	interval									
	velocity		8.38	8.55	8.01	8.33		8.38	8.27	
Collier, Ashley (USA) (1992)	time		12.24	17.95	24.12	24.12	5 / 6			
	reaction time			5.71	6.17		# of strides	12.24	11.88	0.36
	interval									
	velocity		8.17	8.76	8.10	8.29		8.17	8.42	
Floyd, Kalyn (USA) (1989)	time		12.19	17.93	24.29	24.29	3 / 7			
	reaction time			5.74	6.36		# of strides	12.19	12.10	0.09
	interval									
	velocity		8.20	8.71	7.86	8.23		8.20	8.26	
Glenn, Gabrielle (USA) (1989)	time		12.32	18.20	24.36	24.36	1 / 8			
	reaction time			5.88	6.16		# of strides	12.32	12.04	0.28
	interval									
	velocity		8.12	8.50	8.12	8.21		8.12	8.31	

2007 IAAF World Athletic Final (Stuttgart, GER)**FINAL**

date 22-Sep-07

wind 0.5 m/s

Graubner (2007) - <http://www.fgs.uni-halle.de>

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hurtis-Houairi, Muriel (FRA) (1981)	time	6.40	11.43	16.85	22.73	22.73	5 / 1			
	reaction time			5.03	5.88		# of strides	11.43	11.30	0.13
	interval									
	velocity		7.81	9.94	9.23	8.50		8.75	8.85	
Ferguson-McKenzie, Debbie (BFA) (1962)	time	6.29	11.44	16.89	22.74	22.74	4 / 2			
	reaction time			5.15	5.85		# of strides	11.44	11.30	0.14
	interval									
	velocity		7.95	9.71	9.17	8.55		8.74	8.85	
Moore, LaShaunte'a (USA) (1981)	time	6.40	11.52	16.93	22.78	22.78	3 / 3			
	reaction time			5.12	5.85		# of strides	11.52	11.26	0.26
	interval									
	velocity		7.81	9.77	9.24	8.55		8.68	8.88	
Gevaert, Kim (BEL) (1978)	time	6.31	11.43	16.95	22.84	22.84	7 / 4			
	reaction time			5.12	5.89		# of strides	11.43	11.41	0.02
	interval									
	velocity		7.92	9.77	9.06	8.49		8.75	8.76	
Williams, Lauryn (USA) (1983)	time	6.34	11.49	16.96	22.94	22.94	8 / 5			
	reaction time			5.15	5.98		# of strides	11.49	11.45	0.04
	interval									
	velocity		7.89	9.71	9.14	8.36		8.70	8.73	
Maduaka, Joice (GBR) (1973)	time	6.46	11.86	17.44	23.36	23.36	1 / 6			
	reaction time			5.40	5.92		# of strides	11.86	11.50	0.36
	interval									
	velocity		7.74	9.26	8.96	8.45		8.43	8.70	

Durst, Stephanie (USA) (1982)	time	6.41	11.59	17.21	23.50	23.50	6 / 7			
	reaction time	interval	5.18	5.62	6.29		# of strides	11.59	11.91	-0.32
		velocity	7.80	9.65	8.90	7.95	8.51	8.63	8.40	

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

date 31-Aug-07 wind 1.7 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	
Felix, Allyson (USA) (1985)	time	6.19	11.15	16.28	21.81	21.81	5 / 1			<i>Ae (2008)</i>	
	reaction time	0.172	interval	4.96	5.13	5.53	PB	# of strides	11.15	10.66	0.49
		velocity	8.08	10.08	9.75	9.04	9.17	87.5	8.97	9.38	
Campbell, Veronica (JAM) (1982)	time	6.19	11.10	16.43	22.34	22.34	6 / 2			<i>Ae (2008)</i>	
	reaction time	0.161	interval	4.91	5.33	5.91	# of strides	11.10	11.24	-0.14	
		velocity	8.08	10.18	9.38	8.46	8.95	97.2	9.01	8.90	
Jayasinghe, Susanthika (SRI) (1982)	time	6.36	11.45	16.82	22.63	22.63	8 / 3			<i>Ae (2008)</i>	
	reaction time	0.200	interval	5.09	5.37	5.81	# of strides	11.45	11.18	0.27	
		velocity	7.86	9.82	9.31	8.61	8.84	94.7	8.73	8.94	
Edwards, Torri (USA) (1977)	time		11.3		22.65	22.65	3 / 4			<i>Butler (2013)</i>	
	reaction time	0.136	interval		11.35		# of strides	11.30	11.35	-0.05	
		velocity	8.85		8.81	8.83	98.2	8.85	8.81		
Richards, Sanya (USA) (1985)	time		11.5		22.70	22.70	7 / 5			<i>Butler (2013)</i>	
	reaction time	0.239	interval		11.20		# of strides	11.50	11.20	0.30	
		velocity	8.70		8.93	8.81	95.2	8.70	8.93		
Bailey, Aleen (JAM) (1980)	time		11.4		22.72	22.72	4 / 6			<i>Butler (2013)</i>	
	reaction time	0.191	interval		11.32		# of strides	11.40	11.32	0.08	
		velocity	8.77		8.83	8.80	92.7	8.77	8.83		
Moore, LaShauntea (USA) (1982)	time		11.5		22.97	22.97	9 / 7			<i>Butler (2013)</i>	
	reaction time	0.204	interval		11.47		# of strides	11.50	11.47	0.03	
		velocity	8.70		8.72	8.71	94.5	8.70	8.72		
Mothersill, Cydonie (CAY) (1977)	time		11.7		23.08	23.08	2 / 8			<i>Butler (2013)</i>	
	reaction time	0.193	interval		11.38		# of strides	11.70	11.38	0.32	
		velocity	8.55		8.79	8.67	98.0	8.55	8.79		

2007 Japanese National High School Championships (Saga, JPN)**FINAL**

date 04-Aug-07

wind -2.1 m/s

Hitorara (2007) - 60st high school championships: JAF scientific committee- biomechanics

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Tomoko, Inada (JPN)	time	6.75	12.41	18.49	24.90	24.90	5 / 1			
	reaction time	interval	5.66	6.08	6.41		# of strides	12.41	12.49	-0.08
		velocity	7.41	8.83	8.22	7.80	8.03	8.06	8.01	
Sano, Fuyumi (JPN) (1989)	time	6.79	12.58	18.72	25.08	25.08	1 / 2			
	reaction time	interval	5.79	6.14	6.36		# of strides	12.58	12.50	0.08
		velocity	7.36	8.64	8.14	7.86	7.97	7.95	8.00	
Sakiyama, Ayaka (JPN)	time	6.71	12.40	18.55	25.08	25.08	6 / 3			
	reaction time	interval	5.69	6.15	6.53		# of strides	12.40	12.68	-0.28
		velocity	7.45	8.79	8.13	7.66	7.97	8.06	7.89	

2007 Windsprint (Sundsvall, SWE)**FINAL**

date 24-Jul-07

wind 0.6 m/s

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

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Dorobisz, Iwona (POL) (1980)	time		12.03	17.72	23.99	23.99	6 / 1			
	reaction time	interval		5.69	6.27		# of strides	12.03	11.96	0.07
		velocity		8.31	8.79	7.97	8.34	8.31	8.36	
Aruhn, Lena (SWE) (1970)	time		12.15	17.87	24.00	24.00	5 / 2			
	reaction time	interval		5.72	6.13		# of strides	12.15	11.85	0.30
		velocity		8.23	8.74	8.16	8.33	8.23	8.44	

Washington, Demetria (USA) (1	time	12.19	17.89	24.17	24.17	3 / 3			
reaction time	interval		5.70	6.28		# of strides	12.19	11.98	0.21
	velocity	8.20	8.77	7.96	8.27		8.20	8.35	
Cunningham, Nadia (JAM) (197	time	12.25	17.99	24.19	24.19	4 / 4			
reaction time	interval		5.74	6.20		# of strides	12.25	11.94	0.31
	velocity	8.16	8.71	8.06	8.27		8.16	8.38	

B FINAL

date 24-Jul-07 wind 2.0 m/s

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

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Ström, Malin (SWE) (1986)	time	12.33	18.15	24.39	24.39	24.39	4 / 1			
reaction time	interval		5.82	6.24			# of strides	12.33	12.06	0.27
	velocity	8.11	8.59	8.01	8.20			8.11	8.29	
Henriksson, Malin (SWE) (1978)	time	12.50	18.43	24.78	24.78	24.78	5 / 2			
reaction time	interval		5.93	6.35			# of strides	12.50	12.28	0.22
	velocity	8.00	8.43	7.87	8.07			8.00	8.14	
Agerbjer, Emma (SWE) (1985)	time	12.52	18.52	24.79	24.79	24.79	3 / 3			
reaction time	interval		6.00	6.27			# of strides	12.52	12.27	0.25
	velocity	7.99	8.33	7.97	8.07			7.99	8.15	
Eurenius, Isabelle (SWE) (1989)	time	12.57	18.55	25.14	25.14	25.14	2 / 4			
reaction time	interval		5.98	6.59		PB	# of strides	12.57	12.57	0.00
	velocity	7.96	8.36	7.59	7.96			7.96	7.96	

C FINAL

date 24-Jul-07 wind 0.2 m/s

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

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Edfors, Cecilia (SWE) (1987)	time	13.20	19.42	26.24	26.24	26.24	5 / 1			
reaction time	interval		6.22	6.82			# of strides	13.20	13.04	0.16
	velocity	7.58	8.04	7.33	7.62			7.58	7.67	
Hamrén, Malin (SWE) (1986)	time	13.20	19.60	26.56	26.56	26.56	4 / 2			
reaction time	interval		6.40	6.96			# of strides	13.20	13.36	-0.16
	velocity	7.58	7.81	7.18	7.53			7.58	7.49	
Eliasson, Emilia (SWE) (1989)	time	13.53	20.06	27.18	27.18	27.18	3 / 3			
reaction time	interval		6.53	7.12			# of strides	13.53	13.65	-0.12
	velocity	7.39	7.66	7.02	7.36			7.39	7.33	

2007 European Cup (Munich, GER)**FINAL**

date 24-Jun-07 wind -2.0 m/s

Graubner (2007) - <http://www.fgs.uni-halle.de>

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hurtis-Houairi, Muriel (FRA) (198	time	11.49	16.91	22.83	22.83	22.83	1 / 1			
reaction time 0.142	interval		5.42	5.92			# of strides	11.49	11.34	0.15
	velocity	8.70	9.23	8.45	8.76			8.70	8.82	
Rusakova, Natalya (RUS) (1980)	time	11.63	16.98	22.92	22.92	22.92	1 / 2			
reaction time 0.172	interval		5.35	5.94			# of strides	11.63	11.29	0.34
	velocity	8.60	9.35	8.42	8.73			8.60	8.86	
Shtanhyeyeva, Iryna (UKR) (197	time	11.77	17.21	23.13	23.13	23.13	1 / 3			
reaction time 0.145	interval		5.44	5.92			# of strides	11.77	11.36	0.41
	velocity	8.50	9.19	8.45	8.65			8.50	8.80	
Halkiá, Faní (GRE) (1979)	time	11.85	17.33	23.30	23.30	23.30	1 / 4			
reaction time 0.159	interval		5.48	5.97		PB	# of strides	11.85	11.45	0.40
	velocity	8.44	9.12	8.38	8.58			8.44	8.73	
Neumiarzhytskaya, Alena (BLR)	time	11.63	17.17	23.32	23.32	23.32	1 / 5			
reaction time 0.213	interval		5.54	6.15			# of strides	11.63	11.69	-0.06
	velocity	8.60	9.03	8.13	8.58			8.60	8.55	
Bejnar, Monika (POL) (1981)	time	11.77	17.33	23.42	23.42	23.42	1 / 6			
reaction time 0.136	interval		5.56	6.09			# of strides	11.77	11.65	0.12

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

	velocity	8.50	8.99	8.21	8.54		8.50	8.58	
Tschirch, Cathleen (GER) (1979)	time	11.85	17.51	23.60	23.60	/ 7			
	reaction time	0.148	interval	5.66	6.09	# of strides	11.85	11.75	0.10
	velocity	8.44	8.83	8.21	8.47		8.44	8.51	
Martín, Eva (ESP) (1985)	time	12.28	18.12	24.46	24.46	/ 8			
	reaction time	0.169	interval	5.84	6.34	# of strides	12.28	12.18	0.10
	velocity	8.14	8.56	7.89	8.18		8.14	8.21	

2006 IAAF World Cup (Athens, GRE) (TV Analysis)

FINAL

	date	17-Sep-06	wind	-0.2 m/s								
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Richards, Sanya (USA) (1985)	time		11.39			22.23	22.23	6 / 1				
	reaction time	0.162	interval			10.84		# of strides	11.39	10.84	0.55	
	velocity		8.78			9.23	9.00		8.78	9.23		
Gevaert, Kim (BEL) (1978)	0.159	no information available				22.72		7 / 2				
Anim, Vida (GHA) (1983)	0.174	no information available				22.81		8 / 3				
Gushchina, Yulia (RUS) (1983)	0.131	no information available				22.96		9 / 4				
Bejhar, Monika (POL) (1981)	0.150	no information available				23.21		3 / 5				
Kubbieva, Guzel (UZB) (1976)	0.142	no information available				23.34		5 / 6				
Mothersill, Cydonie (CAY) (1977)	0.197	no information available				23.50		4 / 7				
Bouda, Hariklia (GRE) (1980)	0.157	no information available				23.52		1 / 8				
Kleeberg, Melanie (AUS) (1981)	0.138	no information available				23.86		2 / 9				

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	
Smith, Rachele (USA) (1981)	time		6.34	11.44	16.73	22.31	22.31	3 / 1				
	reaction time		interval	5.10	5.29	5.58		# of strides	11.44	10.87	0.57	
	velocity		7.89	9.80	9.45	8.96	8.96		8.74	9.20		
Solomon, Shalonda (USA) (1981)	time		6.39	11.57	16.90	22.47	22.47	6 / 2				
	reaction time		interval	5.18	5.33	5.57		# of strides	11.57	10.90	0.67	
	velocity		7.82	9.65	9.38	8.98	8.90		8.64	9.17		
Jenkins, LaTasha (USA) (1977)	time		6.45	11.54	16.87	22.66	22.66	5 / 3				
	reaction time		interval	5.09	5.33	5.79		# of strides	11.54	11.12	0.42	
	velocity		7.75	9.82	9.38	8.64	8.83		8.67	8.99		
Floyd, Ebonie (USA) (1983)	time		6.50	11.66	17.10	22.77	22.77	4 / 4				
	reaction time		interval	5.16	5.44	5.67		# of strides	11.66	11.11	0.55	
	velocity		7.69	9.69	9.19	8.82	8.78		8.58	9.00		
Moore, LaShaunte'a (USA) (1981)	time		6.49	11.62	17.08	23.03	23.03	8 / 5				
	reaction time		interval	5.13	5.46	5.95		# of strides	11.62	11.41	0.21	
	velocity		7.70	9.75	9.16	8.40	8.68		8.61	8.76		
Davis, Janice (USA) (1984)	time		6.34	11.56	17.10	23.20	23.20	2 / 6				
	reaction time		interval	5.22	5.54	6.10		# of strides	11.56	11.64	-0.08	
	velocity		7.89	9.58	9.03	8.20	8.62		8.65	8.59		
Moore, Connie (USA) (1981)	time		6.52	11.66	17.13	23.44	23.44	7 / 7				
	reaction time		interval	5.14	5.47	6.31		# of strides	11.66	11.78	-0.12	
	velocity		7.67	9.73	9.14	7.92	8.53		8.58	8.49		

2006 USATF National Junior Championship (Indianapolis, IN)

FINAL

	date	23-Jun-06	wind	0.9 m/s								
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Mayo, Gabrielle (USA) (1989)	time		6.64	11.70	17.15	22.88	22.88	5 / 1				
	reaction time		interval	5.06	5.45	5.73		# of strides	11.70	11.18	0.52	
	velocity		7.53	9.88	9.17	8.73	8.74		8.55	8.94		
Knight, Bianca (USA) (1989)	time		6.64	11.58	17.08	22.94	22.94	3 / 2				

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

reaction time	interval	4.94	5.50	5.86	PB	# of strides	11.58	11.36	0.22	
	velocity	7.53	10.12	9.09	8.53	8.72	8.64	8.80		
Tarmoh, Jeneba (USA) (1989)	time	6.64	11.73	17.22	23.14	23.14	4 / 3			
reaction time	interval		5.09	5.49	5.92	PB	# of strides	11.73	11.41	0.32
	velocity	7.53	9.82	9.11	8.45	8.64		8.53	8.76	
Lucas, Porscha (USA) (1989)	time	6.64	11.70	17.20	23.22	23.22	6 / 4			
reaction time	interval		5.06	5.50	6.02	PB	# of strides	11.70	11.52	0.18
	velocity	7.53	9.88	9.09	8.31	8.61		8.55	8.68	
Olear, Elizabeth (USA) (1988)	time	6.64	11.76	17.33	23.40	23.40	7 / 5			
reaction time	interval		5.12	5.57	6.07		# of strides	11.76	11.64	0.12
	velocity	7.53	9.77	8.98	8.24	8.55		8.50	8.59	
Young, Jessica (USA) (1987)	time	6.64	12.01	17.60	23.50	23.50	2 / 6			
reaction time	interval		5.37	5.59	5.90	PB	# of strides	12.01	11.49	0.52
	velocity	7.53	9.31	8.94	8.47	8.51		8.33	8.70	
Williams, Sa'de (USA) (1989)	time	6.64	11.99	17.58	23.54	23.54	8 / 7			
reaction time	interval		5.35	5.59	5.96		# of strides	11.99	11.55	0.44
	velocity	7.53	9.35	8.94	8.39	8.50		8.34	8.66	
Mahan, Shayla (USA) (1989)	time		11.88	17.53	23.71	23.71	1 / 8			
reaction time	interval			5.65	6.18		# of strides	11.88	11.83	0.05
	velocity		8.42	8.85	8.09	8.44		8.42	8.45	

2005 IAAF World Championships (Helsinki, FIN)**FINAL**

date 12-Aug-05 wind 0.2 m/s

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Felix, Allyson (USA) (1985)	0.180	no information available				22.16	6 / 1		# of strides	91.0
Smith, Rachelle (USA) (1981)	0.161	no information available				22.31	4 / 2		# of strides	95.2
Arron, Christine (FRA) (1973)	0.184	no information available				22.31	5 / 3		# of strides	90.5
Campbell, Veronica (JAM) (1982)	0.158	no information available				22.38	7 / 4		# of strides	98.7
Colander, LaTasha (USA) (1976)	0.168	no information available				22.66	2 / 5		# of strides	101.0
Gushchina, Yulia (RUS) (1983)	0.166	no information available				22.75	8 / 6		# of strides	90.2
Gevaert, Kim (BEL) (1978)	0.144	no information available				22.86	3 / 7		# of strides	92.7
Mothersill, Cydonie (CAY) (1978)	0.190	no information available				23.00	1 / 8		# of strides	96.2

Semi-Final 1

date 11-Aug-05 wind -2.7 m/s

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

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Arron, Christine (FRA) (1973)	time		11.3		22.45	22.45	6 / 1			
reaction time	0.202 interval				11.15		# of strides	11.30	11.15	0.15
	velocity		8.85		8.97	8.91		8.85	8.97	

2005 USATF National Championship (Carson, CA)**FINAL**

date 26-Jun-05 wind 0.3 m/s

USATF Women's Sprint Development (2005)

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Felix, Allyson (USA) (1985)	time	6.38	11.32	16.70	22.13	22.13	6 / 1			
reaction time	interval		4.94	5.38	5.43		# of strides	11.32	10.81	0.51
	velocity	7.84	10.12	9.29	9.21	9.04	87.2	8.83	9.25	
Smith, Rachelle (USA) (1981)	time	6.41	11.35	17.13	22.22	22.22	7 / 2			
reaction time	interval		4.94	5.78	5.09	PB	# of strides	11.35	10.87	0.48
	velocity	7.80	10.12	8.65	9.82	9.00	95.5	8.81	9.20	
Colander, LaTasha (USA) (1976)	time	6.41	11.41	16.58	22.34	22.34	4 / 3			
reaction time	interval		5.00	5.17	5.76	PB	# of strides	11.41	10.93	0.48
	velocity	7.80	10.00	9.67	8.68	8.95	100.2	8.76	9.15	
Barber, Me'Lisa (USA) (1980)	time	6.36	11.29	16.63	22.37	22.37	5 / 4			
reaction time	interval		4.93	5.34	5.74	PB	# of strides	11.29	11.08	0.21
	velocity	7.86	10.14	9.36	8.71	8.94	99.2	8.86	9.03	
Lee, Muna (USA) (1981)	time	6.38	11.35	17.22	22.46	22.46	9 / 5			

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

reaction time	interval	4.97	5.87	5.24		# of strides	11.35	11.11	0.24	
	velocity	7.84	10.06	8.52	9.54	8.90	92.0	8.81	9.00	
Daigle, Angela (USA) (1976)	time	6.56	11.71		22.86	22.86	2 / 6			
reaction time	interval		5.15		11.15		# of strides	11.71	11.15	0.56
	velocity	7.62	9.71		8.97	8.75	97.0	8.54	8.97	
Solomon, Shalonda (USA) (1981)	time	6.61	11.67	16.62	22.95	22.95	3 / 7			
reaction time	interval		5.06	4.95	6.33		# of strides	11.67	11.28	0.39
	velocity	7.56	9.88	10.10	7.90	8.71	97.7	8.57	8.87	
Carter, Antonette (USA) (1984)	time	6.59	11.76	16.65	23.15	23.15	1 / 8			
reaction time	interval		5.17	4.89	6.50		# of strides	11.76	11.39	0.37
	velocity	7.59	9.67	10.22	7.69	8.64	95.7	8.50	8.78	
Moore, LaShaunte'a (USA) (1981)	time	6.38	11.54	17.22	23.18	23.18	8 / 9			
reaction time	interval		5.16	5.68	5.96		# of strides	11.54	11.64	-0.10
	velocity	7.84	9.69	8.80	8.39	8.63	100.0	8.67	8.59	

2005 USATF National Junior Championship (Carson, CA)

FINAL

	date	24-Jun-05	wind	0.6 m/s		USATF Women's Sprint Development (2005)					
				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m
Tyson, Cleo (USA) (1986)	time			11.55	17.06	22.93	22.93	6 / 1			
reaction time	interval				5.51	5.87		# of strides	11.55	11.38	0.17
	velocity			8.61	9.07	8.52	8.72		8.66	8.79	
Anderson, Alexandria (USA) (1981)	time			11.61	17.11	22.96	22.96	5 / 2			
reaction time	interval				5.50	5.85	PB	# of strides	11.61	11.35	0.26
	velocity			8.61	9.09	8.55	8.71		8.61	8.81	
McCorory, Francena (USA) (1981)	time			11.76	17.32	23.22	23.22	8 / 3			
reaction time	interval				5.56	5.90	PB	# of strides	11.76	11.46	0.30
	velocity			8.61	8.99	8.47	8.61		8.50	8.73	
Jones, Brittany (USA) (1989)	time			11.80	17.35	23.28	23.28	4 / 4			
reaction time	interval				5.55	5.93		# of strides	11.80	11.48	0.32
	velocity			8.47	9.01	8.43	8.59		8.47	8.71	
Knight, Natalie (USA) (1986)	time			11.86	17.40	23.34	23.34	1 / 5			
reaction time	interval				5.54	5.94		# of strides	11.86	11.48	0.38
	velocity			8.61	9.03	8.42	8.57		8.43	8.71	
Smith, Angelique (USA) (1986)	time			12.06	17.58	23.61	23.61	7 / 6			
reaction time	interval				5.52	6.03		# of strides	12.06	11.55	0.51
	velocity			8.61	9.06	8.29	8.47		8.29	8.66	
Knight, Bianca (USA) (1989)	time			11.95	17.54	23.65	23.65	2 / 7			
reaction time	interval				5.59	6.11		# of strides	11.95	11.70	0.25
	velocity			8.61	8.94	8.18	8.46		8.37	8.55	
Grace, Carla (USA) (1986)	time			11.93	17.67	23.90	23.90	3 / 8			
reaction time	interval				5.74	6.23		# of strides	11.93	11.97	-0.04
	velocity			8.38	8.71	8.03	8.37		8.38	8.35	
Carter, Khrystal (USA) (1988)	time			12.05	17.89	24.29	24.29	9 / 9			
reaction time	interval				5.84	6.40		# of strides	12.05	12.24	-0.19
	velocity			8.30	8.56	7.81	8.23		8.30	8.17	

2004 Olympic Games (Athens, GRE)

FINAL

	date	25-Aug-04	wind	0.8 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
Campbell, Veronica (JAM) (1982)	time			11.1		22.1	22.05	4 / 1			
reaction time	interval					11.0		# of strides	11.10	11.00	0.10
	velocity			9.01		9.09	9.07		9.01	9.09	

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

Felix, Allyson (USA) (1985)	time	11.2	22.2	22.18	3 / 2				
reaction time	interval		11.0	WJR	# of strides	11.20	11.00	0.20	
	velocity	8.93	9.09	9.02		8.93	9.09		
Ferguson, Debbie (BAH) (1976)	time	11.3	22.3	22.30	8 / 3				
reaction time	interval		11.0		# of strides	11.30	11.00	0.30	
	velocity	8.85	9.09	8.97		8.85	9.09		
Bailey, Aleen (JAM) (1980)	time	11.4	22.4	22.42	6 / 4				
reaction time	interval		11.0		# of strides	11.40	11.00	0.40	
	velocity	8.77	9.09	8.92		8.77	9.09		
Lalova, Ivet (BUL) (1984)	time	11.4	22.6	22.57	2 / 5				
reaction time	interval		11.2		# of strides	11.40	11.20	0.20	
	velocity	8.77	8.93	8.86		8.77	8.93		
Gevaert, Kim (BEL) (1978)	time	11.5	22.8	22.84	1 / 6				
reaction time	interval		11.3		# of strides	11.50	11.30	0.20	
	velocity	8.70	8.85	8.76		8.70	8.85		
Lee, Muna (USA) (1981)	time	11.6	22.9	22.87	7 / 7				
reaction time	interval		11.3		# of strides	11.60	11.30	0.30	
	velocity	8.62	8.85	8.75		8.62	8.85		
Oyepitan, Abi (GBR) (1979)	time	11.5	22.9	22.87	5 / 7				
reaction time	interval		11.4		# of strides	11.50	11.40	0.10	
	velocity	8.70	8.77	8.75		8.70	8.77		

2004 USA Olympic Trials (Sacramento, CA)

FINAL

		date	18-Jul-04				wind	-1.2 m/s				USATF Women's Sprint Development (2004)		
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential			
Felix, Allyson (USA) (1985)	time		6.34	11.43	16.62	22.28	22.28	6 / 1						
reaction time	interval			5.09	5.19	5.66		# of strides	11.43	10.85	0.58			
	velocity		7.89	9.82	9.63	8.83	8.98	92.2	8.75	9.22				
Lee, Muna (USA) (1981)	time		6.36	11.50	16.75	22.36	22.36	1 / 2						
reaction time	interval			5.14	5.25	5.61	PB	# of strides	11.50	10.86	0.64			
	velocity		7.86	9.73	9.52	8.91	8.94	93.0	8.70	9.21				
Edwards, Torri (USA) (1977)	time		6.24	11.40	16.60	22.39	22.39	4 / 3						
reaction time	interval			5.16	5.20	5.79	DV	# of strides	11.40	10.99	0.41			
	velocity		8.01	9.69	9.62	8.64	8.93	97.2	8.77	9.10				
Moore, LaShaunte'a (USA) (1981)	time		6.44	11.65	16.92	22.64	22.64	5 / 4-3						
reaction time	interval			5.21	5.27	5.72		# of strides	11.65	10.99	0.66			
	velocity		7.76	9.60	9.49	8.74	8.83	95.5	8.58	9.10				
Moore, Connie (USA) (1981)	time		6.43	11.52	16.77	22.65	22.65	7 / 5-4						
reaction time	interval			5.09	5.25	5.88	PB	# of strides	11.52	11.13	0.39			
	velocity		7.78	9.82	9.52	8.50	8.83	102.2	8.68	8.98				
Boone, Rachael (USA) (1981)	time		6.34	11.58	16.90	22.69	22.69	2 / 6-5						
reaction time	interval			5.24	5.32	5.79		# of strides	11.58	11.11	0.47			
	velocity		7.89	9.54	9.40	8.64	8.81	96.7	8.64	9.00				
Miller, Inger (USA) (1972)	time		6.32	11.48	16.76	22.70	22.70	8 / 7-6						
reaction time	interval			5.16	5.28	5.94		# of strides	11.48	11.22	0.26			
	velocity		7.91	9.69	9.47	8.42	8.81	95.7	8.71	8.91				
Durst, Stephanie (USA) (1982)	time		6.26	11.46	16.90	22.99	22.99	3 / 8-7						
reaction time	interval			5.20	5.44	6.09		# of strides	11.46	11.53	-0.07			
	velocity		7.99	9.62	9.19	8.21	8.70	98.7	8.73	8.67				

Semi-Final 3

		date	17-Jul-04				wind	-1.1 m/s				USATF Women's Sprint Development (2004)		
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential			
Moore, LaShaunte'a (USA) (1981)	time		6.47	11.65	16.95	22.63	22.63	5 / 1						

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

reaction time	interval	5.18	5.30	5.68	PB	# of strides	11.65	10.98	0.67	
	velocity	7.73	9.65	9.43	8.80	8.84	8.58	9.11		
Moore, Connie (USA) (1981)	time	6.49	11.55	16.94	22.77	22.77	7 / 2			
reaction time	interval		5.06	5.39	5.83		# of strides	11.55	11.22	0.33
	velocity	7.70	9.88	9.28	8.58	8.78		8.66	8.91	
Miller, Inger (USA) (1972)	time	6.30	11.53	16.93	23.00	23.00	6 / 3			
reaction time	interval		5.23	5.40	6.07		# of strides	11.53	11.47	0.06
	velocity	7.94	9.56	9.26	8.24	8.70		8.67	8.72	
Daigle, Angela (USA) (1976)	time	6.39	11.76	17.15	23.05	23.05	8 / 4			
reaction time	interval		5.37	5.39	5.90		# of strides	11.76	11.29	0.47
	velocity	7.82	9.31	9.28	8.47	8.68		8.50	8.86	
Myrick, Wyllesheia (USA) (1979)	time	6.38	11.57	17.02	23.14	23.14	4 / 5			
reaction time	interval		5.19	5.45	6.12		# of strides	11.57	11.57	0.00
	velocity	7.84	9.63	9.17	8.17	8.64		8.64	8.64	
Williams, Aleah (USA) (1981)	time	6.39	11.70	17.40	23.80	23.80	3 / 6			
reaction time	interval		5.31	5.70	6.40		# of strides	11.70	12.10	-0.40
	velocity	7.82	9.42	8.77	7.81	8.40		8.55	8.26	
Semi-Final 2										
	date	17-Jul-04	wind	-1.2 m/s				USATF Women's Sprint Development (2004)		
		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Felix, Allyson (USA) (1985)	time	6.39	11.55	16.91	22.70	22.70	7 / 1			
reaction time	interval		5.16	5.36	5.79		# of strides	11.55	11.15	0.40
	velocity	7.82	9.69	9.33	8.64	8.81		8.66	8.97	
Lee, Muna (USA) (1981)	time	6.37	11.60	17.02	22.85	22.85	5 / 2			
reaction time	interval		5.23	5.42	5.83		# of strides	11.60	11.25	0.35
	velocity	7.85	9.56	9.23	8.58	8.75		8.62	8.89	
Hall, Monique (USA) (1980)	time	6.51	11.76	17.32	23.44	23.44	3 / 3			
reaction time	interval		5.25	5.56	6.12		# of strides	11.76	11.68	0.08
	velocity	7.68	9.52	8.99	8.17	8.53		8.50	8.56	
Dyer, Tonette (USA) (1982)	time	6.36	11.64	17.27	23.50	23.50	6 / 4			
reaction time	interval		5.28	5.63	6.23		# of strides	11.64	11.86	-0.22
	velocity	7.86	9.47	8.88	8.03	8.51		8.59	8.43	
Ivery, Lakadron (USA) (1983)	time	6.59	12.00	17.68	24.01	24.01	8 / 5			
reaction time	interval		5.41	5.68	6.33		# of strides	12.00	12.01	-0.01
	velocity	7.59	9.24	8.80	7.90	8.33		8.33	8.33	
Semi-Final 1										
	date	17-Jul-04	wind	0.5 m/s				USATF Women's Sprint Development (2004)		
		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Edwards, Torri (USA) (1977)	time	6.26	11.45	16.65	22.38	22.38	5 / 4			
reaction time	interval		5.19	5.20	5.73		# of strides	11.45	10.93	0.52
	velocity	7.99	9.63	9.62	8.73	8.94		8.73	9.15	
Durst, Stephanie (USA) (1982)	time	6.34	11.60	16.87	22.66	22.66	7 / 2 1			
reaction time	interval		5.26	5.27	5.79		# of strides	11.60	11.06	0.54
	velocity	7.89	9.51	9.49	8.64	8.83		8.62	9.04	
Boone, Rachael (USA) (1981)	time	6.32	11.47	16.83	22.69	22.69	6 / 3 2			
reaction time	interval		5.15	5.36	5.86		# of strides	11.47	11.22	0.25
	velocity	7.91	9.71	9.33	8.53	8.81		8.72	8.91	
Pelham, Shaunta (USA) (1978)	time	6.42	11.71	17.17	23.26	23.26	4 / 4 3			
reaction time	interval		5.29	5.46	6.09		# of strides	11.71	11.55	0.16
	velocity	7.79	9.45	9.16	8.21	8.60		8.54	8.66	
Carter, Antonette (USA) (1984)	time	6.52	11.96	17.47	23.45	23.45	8 / 5 4			
reaction time	interval		5.44	5.51	5.98		# of strides	11.96	11.49	0.47
	velocity	7.67	9.19	9.07	8.36	8.53		8.36	8.70	

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DV=Drug Violation

Heat 4		date	wind -0.6 m/s				USATF Women's Sprint Development (2004)				
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Miller, Inger (USA) (1972)	time		6.25	11.43	16.78	22.74	22.74	7 / 1			
	reaction time	interval		5.18	5.35	5.96		# of strides	11.43	11.31	0.12
		velocity		8.00	9.65	9.35	8.39	8.80		8.75	8.84
Boone, Rachael (USA) (1981)	time		6.35	11.57	16.91	22.83	22.83	6 / 2			
	reaction time	interval		5.22	5.34	5.92		# of strides	11.57	11.26	0.31
		velocity		7.87	9.58	9.36	8.45	8.76		8.64	8.88
Moore, LaShaunte'a (USA) (1981)	time		6.52	11.78	17.05	22.83	22.83	4 / 3			
	reaction time	interval		5.26	5.27	5.78		# of strides	11.78	11.05	0.73
		velocity		7.67	9.51	9.49	8.65	8.76		8.49	9.05
Cox, Crystal (USA) (1979)	time		6.41	11.56	16.92	22.84	22.84	5 / 4			
	reaction time	interval		5.15	5.36	5.92		# of strides	11.56	11.28	0.28
		velocity		7.80	9.71	9.33	8.45	8.76		8.65	8.87
Jones, Marion (USA) (1975)	time		6.37	11.52	16.92	22.93	22.93	8 / 5			
	reaction time	interval		5.15	5.40	6.01	DV	# of strides	11.52	11.41	0.11
		velocity		7.85	9.71	9.26	8.32	8.72		8.68	8.76
Heat 3		date	wind -0.1 m/s				USATF Women's Sprint Development (2004)				
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Lee, Muna (USA) (1981)	time		6.32	11.55	16.92	22.66	22.66	5 / 1			
	reaction time	interval		5.23	5.37	5.74		# of strides	11.55	11.11	0.44
		velocity		7.91	9.56	9.31	8.71	8.83		8.66	9.00
Durst, Stephanie (USA) (1982)	time		6.29	11.51	16.90	22.75	22.75	6 / 2			
	reaction time	interval		5.22	5.39	5.85		# of strides	11.51	11.24	0.27
		velocity		7.95	9.58	9.28	8.55	8.79		8.69	8.90
Myrick, Wyllesheia (USA) (1979)	time		6.37	11.63	16.98	22.94	22.94	7 / 3			
	reaction time	interval		5.26	5.35	5.96	PB	# of strides	11.63	11.31	0.32
		velocity		7.85	9.51	9.35	8.39	8.72		8.60	8.84
Daigle, Angela (USA) (1976)	time		6.39	11.71	17.12	22.98	22.98	4 / 4			
	reaction time	interval		5.32	5.41	5.86	PB	# of strides	11.71	11.27	0.44
		velocity		7.82	9.40	9.24	8.53	8.70		8.54	8.87
Heat 2		date	wind -0.3 m/s				USATF Women's Sprint Development (2004)				
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Edwards, Torri (USA) (1977)	time		6.19	11.36	16.63	22.60	22.60	5 / 4			
	reaction time	interval		5.17	5.27	5.97	DV	# of strides	11.36	11.24	0.12
		velocity		8.08	9.67	9.49	8.38	8.85		8.80	8.90
Felix, Allyson (USA) (1985)	time		6.32	11.50	16.79	22.67	22.67	6 / 2 1			
	reaction time	interval		5.18	5.29	5.88		# of strides	11.50	11.17	0.33
		velocity		7.91	9.65	9.45	8.50	8.82		8.70	8.95
Hall, Monique (USA) (1980)	time		6.44	11.79	17.29	23.42	23.42	5 / 3 2			
	reaction time	interval		5.35	5.50	6.13		# of strides	11.79	11.63	0.16
		velocity		7.76	9.35	9.09	8.16	8.54		8.48	8.60
Williams, Aleah (USA) (1981)	time		6.37	11.66	17.24	23.56	23.56	8 / 4 3			
	reaction time	interval		5.29	5.58	6.32		# of strides	11.66	11.90	-0.24
		velocity		7.85	9.45	8.96	7.91	8.49		8.58	8.40
Pelham, Shaunta (USA) (1978)	time		6.39	11.75	17.32	23.62	23.62	7 / 5 4			
	reaction time	interval		5.36	5.57	6.30		# of strides	11.75	11.87	-0.12
		velocity		7.82	9.33	8.98	7.94	8.47		8.51	8.42
Heat 1		date	wind -0.6 m/s				USATF Women's Sprint Development (2004)				
			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

Moore, Connie (USA) (1981)	time	6.37	11.56	16.92	22.91	22.91	6 / 1			
	reaction time	interval	5.19	5.36	5.99		# of strides	11.56	11.35	0.21
	velocity	7.85	9.63	9.33	8.35	8.73		8.65	8.81	
Dyer, Tonette (USA) (1982)	time	6.41	11.70	17.20	23.42	23.42	3 / 2			
	reaction time	interval	5.29	5.50	6.22		# of strides	11.70	11.72	-0.02
	velocity	7.80	9.45	9.09	8.04	8.54		8.55	8.53	
Carter, Antonette (USA) (1984)	time	6.41	11.80	17.37	23.44	23.44	8 / 3			
	reaction time	interval	5.39	5.57	6.07		# of strides	11.80	11.64	0.16
	velocity	7.80	9.28	8.98	8.24	8.53		8.47	8.59	
Ivery, Lakadron (USA) (1983)	time	6.37	11.68	17.25	23.58	23.58	7 / 4			
	reaction time	interval	5.31	5.57	6.33		# of strides	11.68	11.90	-0.22
	velocity	7.85	9.42	8.98	7.90	8.48		8.56	8.40	
Rhett, Amandi (USA) (1982)	time	6.54	11.98	17.71	24.03	24.03	4 / 5			
	reaction time	interval	5.44	5.73	6.32		# of strides	11.98	12.05	-0.07
	velocity	7.65	9.19	8.73	7.91	8.32		8.35	8.30	

2003 IAAF World Championships (Paris, FRA)**FINAL**

date 28-Aug-03 wind -0.3 m/s

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
White, Kelli (USA) (1977)	0.178	no information available			DV	22.05	6 / 4			
Kapachinskaya, Anastasiya (RU)	0.222	no information available			PB	22.38	5 / 2 1			
Edwards, Torri (USA) (1977)	0.144	no information available				22.47	2 / 3 2			
Hurtis, Muriel (FRA) (1979)	0.184	no information available				22.59	4 / 4 3			
Block, Zhanna (UKR) (1972)	0.230	no information available			DV	22.92	3 / 5			
McDonald, Beverly (JAM) (1970)	0.216	no information available				22.95	8 / 7 4			
Safronnikova, Natalya (BLR) (1981)	0.208	no information available				22.98	1 / 7 5			
Kravchenko, Anzhela (UKR) (1983)	0.208	no information available				23.00	7 / 8 6			

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

date 22-Jun-03 wind 0.0 m/s

USATF Women's Sprint Development (2003)

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
White, Kelli (USA) (1977)	time	6.26	11.46	16.63	22.21	22.21	5 / 4			
	reaction time	interval	5.20	5.17	5.58	DV	# of strides	11.46	10.75	0.71
	velocity	7.99	9.62	9.67	8.96	9.00		8.73	9.30	
Edwards, Torri (USA) (1977)	time	6.44	11.58	16.75	22.45	22.45	8 / 2 1			
	reaction time	interval	5.14	5.17	5.70		# of strides	11.58	10.87	0.71
	velocity	7.76	9.73	9.67	8.77	8.91		8.64	9.20	
Felix, Allyson (USA) (1985)	time	6.54	11.79	17.01	22.59	22.59	4 / 3 2			
	reaction time	interval	5.25	5.22	5.58		# of strides	11.79	10.80	0.99
	velocity	7.65	9.52	9.58	8.96	8.85		8.48	9.26	
Jenkins, LaTasha (USA) (1977)	time	6.61	11.85	17.03	22.65	22.65	6 / 4 3			
	reaction time	interval	5.24	5.18	5.62		# of strides	11.85	10.80	1.05
	velocity	7.56	9.54	9.65	8.90	8.83		8.44	9.26	
Miller, Inger (USA) (1972)	time	6.46	11.60	16.95	22.77	22.77	3 / 5 4			
	reaction time	interval	5.14	5.35	5.82		# of strides	11.60	11.17	0.43
	velocity	7.74	9.73	9.35	8.59	8.78		8.62	8.95	
Cox, Crystal (USA) (1979)	time	6.62	11.99	17.27	23.11	23.11	7 / 6 5			
	reaction time	interval	5.37	5.28	5.84		# of strides	11.99	11.12	0.87
	velocity	7.55	9.31	9.47	8.56	8.65		8.34	8.99	
Pelham, Shaunta (USA) (1978)	time	6.66	11.96	17.40	23.32	23.32	2 / 7 6			
	reaction time	interval	5.30	5.44	5.92		# of strides	11.96	11.36	0.60
	velocity	7.51	9.43	9.19	8.45	8.58		8.36	8.80	
Floyd, Ebonie (USA) (1983)	time	6.61	12.01	17.58	23.44	23.44	1 / 8 7			
	reaction time	interval	5.40	5.57	5.86		# of strides	12.01	11.43	0.58

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

velocity	7.56	9.26	8.98	8.53	8.53	8.33	8.75
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2003 USATF National Junior Championships (Palo Alto, CA)**FINAL**

date 21-Jun-03

wind -1.5 m/s

USATF Women's Sprint Development (2003)

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Solomon, Shalonda (USA) (1981)	time	6.59	12.01	17.47	23.37	23.37	6 / 1			
	reaction time		interval	5.42	5.46	5.90	# of strides	12.01	11.36	0.65
		velocity	7.59	9.23	9.16	8.47	8.56	8.33	8.80	
Cox, Shana (USA) (1985)	time	6.67	12.15	17.65	23.67	23.67	7 / 2			
	reaction time		interval	5.48	5.50	6.02	# of strides	12.15	11.52	0.63
		velocity	7.50	9.12	9.09	8.31	8.45	8.23	8.68	
Broaddus, Juanita (USA) (1985)	time	6.71	12.25	17.75	23.76	23.76	4 / 3			
	reaction time		interval	5.54	5.50	6.01	# of strides	12.25	11.51	0.74
		velocity	7.45	9.03	9.09	8.32	8.42	8.16	8.69	
Perkins, Angel (USA) (1984)	time		12.03	17.68	23.82	23.82	1 / 4			
	reaction time		interval	5.65	6.14		# of strides	12.03	11.79	0.24
		velocity	8.31	8.85	8.14	8.40		8.31	8.48	
Smith, Stephanie (USA) (1985)	time	6.92	12.46	18.07	24.00	24.00	3 / 5			
	reaction time		interval	5.54	5.61	5.93	# of strides	12.46	11.54	0.92
		velocity	7.23	9.03	8.91	8.43	8.33	8.03	8.67	
Hastings, Natasha (USA) (1986)	time	6.72	12.37	18.02	24.12	24.12	5 / 6			
	reaction time		interval	5.65	5.65	6.10	# of strides	12.37	11.75	0.62
		velocity	7.44	8.85	8.85	8.20	8.29	8.08	8.51	
Olear, Elizabeth (USA) (1988)	time			18.09	24.42	24.42	2 / 7			
	reaction time		interval		6.33		# of strides			
		velocity		8.29	7.90	8.19				
Carter, Antonette (USA) (1984)	time	6.77	12.51	18.29	24.78	24.78	8 / 8			
	reaction time		interval	5.74	5.78	6.49	# of strides	12.51	12.27	0.24
		velocity	7.39	8.71	8.65	7.70	8.07	7.99	8.15	
McNair, Bianca (USA) (1984)	time	6.99	12.84	18.61	24.99	24.99	9 / 9			
	reaction time		interval	5.85	5.77	6.38	# of strides	12.84	12.15	0.69
		velocity	7.15	8.55	8.67	7.84	8.00	7.79	8.23	

2002 European Championships (Munich, GER)**FINAL**

date 09-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
Hurtis, Muriel (FRA) (1978)	time	6.38	11.41	16.69	22.43	22.43	4 / 1			
	reaction time 0.180		interval	5.03	5.28	5.74	# of strides	11.41	11.02	0.39
		velocity	7.84	9.94	9.47	8.71	8.92	8.76	9.07	
Gevaert, Kim (BEL) (1979)	time	6.37	11.51	16.82	22.53	22.53	3 / 2			
	reaction time 0.152		interval	5.14	5.31	5.71	# of strides	11.51	11.02	0.49
		velocity	7.85	9.73	9.42	8.76	8.88	8.69	9.07	
Levorato, Manuela (ITA) (1977)	time	6.39	11.55	16.92	22.75	22.75	5 / 3			
	reaction time 0.145		interval	5.16	5.37	5.83	# of strides	11.55	11.20	0.35
		velocity	7.82	9.69	9.31	8.58	8.79	8.66	8.93	
Félix, Sylviane (FRA) (1977)	time	6.46	11.73	17.10	22.89	22.89	6 / 4			
	reaction time 0.167		interval	5.27	5.37	5.79	# of strides	11.73	11.16	0.57
		velocity	7.74	9.49	9.31	8.64	8.74	8.53	8.96	
Rockmeier, Gabi (GER) (1973)	time	6.43	11.59	17.02	23.00	23.00	8 / 5			
	reaction time 0.139		interval	5.16	5.43	5.98	# of strides	11.59	11.41	0.18
		velocity	7.78	9.69	9.21	8.36	8.70	8.63	8.76	
Mayr-Krifka, Karin (AUT) (1971)	time	6.39	11.56	17.04	23.06	23.06	2 / 6			

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

reaction time	0.147	interval	5.17	5.48	6.02		# of strides	11.56	11.50	0.06
		velocity	7.82	9.67	9.12	8.31	8.67	8.65	8.70	
Poelman, Jacqueline (NED) (197)	time	6.53	11.83	17.32	23.31	23.31	7 / 7			
reaction time	0.163	interval	5.30	5.49	5.99		# of strides	11.83	11.48	0.35
		velocity	7.66	9.43	9.11	8.35	8.58	8.45	8.71	
Bikar, Alenka (SLO) (1974)	time	6.46	11.75	17.32	23.37	23.37	1 / 8			
reaction time	0.143	interval	5.29	5.57	6.05		# of strides	11.75	11.62	0.13
		velocity	7.74	9.45	8.98	8.26	8.56	8.51	8.61	

Semi-Final 2date 09-Aug-02 wind 0.0 m/s Graubner (2009) - <http://www.fgs.uni-halle.de>

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Gevaert, Kim (BEL) (1978)	time	6.38	11.50	16.93	22.73	22.73	/ 1			
reaction time	0.141	interval	5.12	5.43	5.80		# of strides	11.50	11.23	0.27
		velocity	7.84	9.77	9.21	8.62	8.80	8.70	8.90	
Félix, Sylviane (FRA) (1977)	time	6.48	11.69	17.04	22.78	22.78	/ 2			
reaction time	0.172	interval	5.21	5.35	5.74		# of strides	11.69	11.09	0.60
		velocity	7.72	9.60	9.35	8.71	8.78	8.55	9.02	
Rockmeier, Gabi (GER) (1973)	time	6.48	11.63	17.08	23.07	23.07	/ 3			
reaction time	0.137	interval	5.15	5.45	5.99		# of strides	11.63	11.44	0.19
		velocity	7.72	9.71	9.17	8.35	8.67	8.60	8.74	
Poelman, Jacqueline (NED) (197)	time	6.50	11.69	17.20	23.14	23.14	/ 4			
reaction time	0.152	interval	5.19	5.51	5.94		# of strides	11.69	11.45	0.24
		velocity	7.69	9.63	9.07	8.42	8.64	8.55	8.73	
Graglia, Daniela (ITA) (1976)	time	6.36	11.66	17.24	23.20	23.20	/ 5			
reaction time	0.140	interval	5.30	5.58	5.96	PB	# of strides	11.66	11.54	0.12
		velocity	7.86	9.43	8.96	8.39	8.62	8.58	8.67	
Tabakova, Yuliya (RUS) (1980)	time	6.45	11.70	17.32	23.32	23.32	/ 6			
reaction time	0.144	interval	5.25	5.62	6.00		# of strides	11.70	11.62	0.08
		velocity	7.75	9.52	8.90	8.33	8.58	8.55	8.61	
Kaidantzi, Ólga (GRE) (1979)	time	6.57	11.87	17.39	23.39	23.39	/ 7			
reaction time	0.163	interval	5.30	5.52	6.00		# of strides	11.87	11.52	0.35
		velocity	7.61	9.43	9.06	8.33	8.55	8.42	8.68	
Dia Longo, Fabé (FRA) (1977)	time	6.67	11.92	17.50	23.50	23.50	/ 8			
reaction time	0.156	interval	5.25	5.58	6.00		# of strides	11.92	11.58	0.34
		velocity	7.50	9.52	8.96	8.33	8.51	8.39	8.64	

Semi-Final 1date 09-Aug-02 wind 1.0 m/s Graubner (2009) - <http://www.fgs.uni-halle.de>

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hurtis, Muriel (FRA) (1979)	time	6.40	11.45	16.75	22.46	22.46	/ 1			
reaction time	0.155	interval	5.05	5.30	5.71		# of strides	11.45	11.01	0.44
		velocity	7.81	9.90	9.43	8.76	8.90	8.73	9.08	
Levorato, Manuela (ITA) (1977)	time	6.42	11.68	17.07	22.93	22.93	/ 2			
reaction time	0.139	interval	5.26	5.39	5.86		# of strides	11.68	11.25	0.43
		velocity	7.79	9.51	9.28	8.53	8.72	8.56	8.89	
Mayr-Krifka, Karin (AUT) (1971)	time	6.44	11.59	17.06	22.99	22.99	/ 3			
reaction time	0.170	interval	5.15	5.47	5.93		# of strides	11.59	11.40	0.19
		velocity	7.76	9.71	9.14	8.43	8.70	8.63	8.77	
Bikar, Alenka (SLO) (1974)	time	6.45	11.71	17.23	23.18	23.18	/ 4			
reaction time	0.163	interval	5.26	5.52	5.95		# of strides	11.71	11.47	0.24
		velocity	7.75	9.51	9.06	8.40	8.63	8.54	8.72	
Sheehy, Ciara (IRL) (1980)	time	6.58	11.86	17.44	23.47	23.47	/ 5			
reaction time	0.163	interval	5.28	5.58	6.03		# of strides	11.86	11.61	0.25
		velocity	7.60	9.47	8.96	8.29	8.52	8.43	8.61	

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DV=Drug Violation

Mashova, Ekaterina (BUL) (1974)	time	6.53	11.87	17.49	23.48	23.48	/ 6			
	reaction time	0.141		5.34	5.62	5.99	# of strides	11.87	11.61	0.26
	velocity	7.66	9.36	8.90	8.35	8.52		8.42	8.61	

Khabarova, Irina (RUS) (1966)	time	6.47	11.80	17.37	23.59	23.59	/ 7			
	reaction time	0.187		5.33	5.57	6.22	# of strides	11.80	11.79	0.01
	velocity	7.73	9.38	8.98	8.04	8.48		8.47	8.48	

Anderson, Shani (GBR) (1975)	time	6.59	11.88	17.49	23.60	23.60	/ 8			
	reaction time	0.145		5.29	5.61	6.11	# of strides	11.88	11.72	0.16
	velocity	7.59	9.45	8.91	8.18	8.47		8.42	8.53	

Heat 4

date	08-Aug-02	wind	-0.8 m/s	Graubner (2009) - http://www.fgs.uni-halle.de						
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		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Gevaert, Kim (BEL) (1978)	time	6.40	11.54	17.00	22.97	22.46	/ 1			
	reaction time	0.164		5.14	5.46	5.97	# of strides	11.54	11.43	0.11
	velocity	7.81	9.73	9.16	8.38	8.90		8.67	8.75	

Heat 3

date	08-Aug-02	wind	0.0 m/s	Graubner (2009) - http://www.fgs.uni-halle.de						
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		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Félix, Sylviane (FRA) (1977)	time	6.44	11.57	17.01	23.03	23.03	/ 1			
	reaction time	0.168		5.13	5.44	6.02	# of strides	11.57	11.46	0.11
	velocity	7.76	9.75	9.19	8.31	8.68		8.64	8.73	

Levorato, Manuela (ITA) (1977)	time	6.45	11.65	17.15	23.10	23.10	/ 2			
	reaction time	0.164		5.20	5.50	5.95	# of strides	11.65	11.45	0.20
	velocity	7.75	9.62	9.09	8.40	8.66		8.58	8.73	

Heat 2

date	08-Aug-02	wind	-0.6 m/s	Graubner (2009) - http://www.fgs.uni-halle.de						
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		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Mayr-Krifka, Karin (AUT) (1971)	time	6.34	11.55	17.07	23.03	23.03	/ 1			
	reaction time	0.141		5.21	5.52	5.96	# of strides	11.55	11.48	0.07
	velocity	7.89	9.60	9.06	8.39	8.68		8.66	8.71	

Heat 1

date	08-Aug-02	wind	-1.1 m/s	Graubner (2009) - http://www.fgs.uni-halle.de						
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		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Hurtis, Muriel (FRA) (1979)	time	6.41	11.54	16.93	22.86	22.86	/ 1			
	reaction time	0.165		5.13	5.39	5.93	# of strides	11.54	11.32	0.22
	velocity	7.80	9.75	9.28	8.43	8.75		8.67	8.83	

Rockmeier, Gabi (GER) (1973)	time	6.53	11.72	17.20	23.24	23.24	/ 2			
	reaction time	0.141		5.19	5.48	6.04	# of strides	11.72	11.52	0.20
	velocity	7.66	9.63	9.12	8.28	8.61		8.53	8.68	

Sheehy, Ciara (IRL) (1980)	time	6.42	11.64	17.16	23.25	23.25	/ 3			
	reaction time	0.163		5.22	5.52	6.09	# of strides	11.64	11.61	0.03
	velocity	7.79	9.58	9.06	8.21	8.60		8.59	8.61	

2001 IAAF World Championships (Edmonton, CAN)**FINAL**

date	10-Aug-01	wind	-0.8 m/s	Butler (2013) - IAAF world championships statistics handbook- moscow 2013						
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		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Jones, Marion (USA) (1975)	time		10.9		22.39	22.39	5 / 4			
	reaction time	0.186			11.5	DV	# of strides	10.90	11.49	-0.59
	velocity		9.17		8.70	8.93	94.5	9.17	8.70	

Ferguson, Debbie (BAH) (1976)	time		11.1		22.52	22.52	4 / 2 - 1			
	reaction time	0.176			11.4		# of strides	11.10	11.42	-0.32
	velocity		9.01		8.76	8.88	96.0	9.01	8.76	

White, Kellie (USA) (1977)	time		11.2		22.56	22.56	3 / 3			
	reaction time	0.147			11.4	DV	# of strides	11.20	11.36	-0.16
	velocity		8.93		8.80	8.87	100.0	8.93	8.80	

Jenkins, LaTasha (USA) (1977)	time		11.3		22.85	22.85	7 / 4 - 2			
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WR=World Rec. AR=Area Rec. OR=Olympic Rec. CR=Championship Rec. NR=National Rec. PB=Personal Best DQ=Disqualified DV=Drug Violation

reaction time	0.157	interval		11.6	# of strides	11.30	11.55	-0.25
		velocity	8.85	8.66	8.75	8.85	8.66	
Mothersill, Cydonie (CAY) (1977)	time		11.3	22.88	22.88	1 / 5 3		
reaction time	0.164	interval		11.6	# of strides	11.30	11.58	-0.28
		velocity	8.85	8.64	8.74	97.0	8.85	8.64
Campbell, Juliet (JAM) (1970)	time		11.3	22.99	22.99	2 / 6 4		
reaction time	0.169	interval		11.7	# of strides	11.30	11.69	-0.39
		velocity	8.85	8.55	8.70	91.0	8.85	8.55
Bikar, Alenka (SLO) (1974)	time		11.3	23.00	23.00	8 / 7 5		
reaction time	0.160	interval		11.7	# of strides	11.30	11.70	-0.40
		velocity	8.85	8.55	8.70		8.85	8.55
Mani, Myriam (CMR) (1977)	time		11.3	23.15	23.15	6 / 8 6		
reaction time	0.140	interval		11.9	# of strides	11.30	11.85	-0.55
		velocity	8.85	8.44	8.64		8.85	8.44

2001 European Cup (Bremen, GER)**FINAL**

		date	24-Jun-01	wind	0.3 m/s						<i>Graubner (2007) - http://www.fgs.uni-halle.de</i>		
				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Safronnikova, Natalia (BLR) (1977)	time		6.38	11.48	16.82	22.68	22.68		/ 1				
reaction time	0.139	interval		5.10	5.34	5.86	NR	# of strides	11.48	11.20	0.28		
		velocity	7.84	9.80	9.36	8.53	8.82		8.71	8.93			
Tirlea, Ionela (ROU) (1976)	time		6.38	11.54	16.98	22.85	22.85		/ 2				
reaction time	0.166	interval		5.16	5.44	5.87		# of strides	11.54	11.31	0.23		
		velocity	7.84	9.69	9.19	8.52	8.75		8.67	8.84			
Goncharenko, Svetlana (RUS) (1977)	time		6.40	11.50	16.92	22.87	22.87		/ 3				
reaction time	0.149	interval		5.10	5.42	5.95		# of strides	11.50	11.37	0.13		
		velocity	7.81	9.80	9.23	8.40	8.75		8.70	8.80			
Rockmeier, Gabi (GER) (1973)	time		6.46	11.65	17.12	23.04	23.04		/ 4				
reaction time	0.137	interval		5.19	5.47	5.92	PB	# of strides	11.65	11.39	0.26		
		velocity	7.74	9.63	9.14	8.45	8.68		8.58	8.78			
Levorato, Manuela (ITA) (1977)	time		6.41	11.62	17.17	23.18	23.18		/ 5				
reaction time	0.122	interval		5.21	5.55	6.01		# of strides	11.62	11.56	0.06		
		velocity	7.80	9.60	9.01	8.32	8.63		8.61	8.65			
Merry, Katharine (GBR) (1974)	time		6.50	11.74	17.24	23.21	23.21		/ 6				
reaction time	0.186	interval		5.24	5.50	5.97		# of strides	11.74	11.47	0.27		
		velocity	7.69	9.54	9.09	8.38	8.62		8.52	8.72			
Dia Longo, Fabé (FRA) (1977)	time		6.56	11.78	17.32	23.29	23.29		/ 7				
reaction time	0.153	interval		5.22	5.54	5.97		# of strides	11.78	11.51	0.27		
		velocity	7.62	9.58	9.03	8.38	8.59		8.49	8.69			
Suchovská, Erika (CZE) (1967)	time		6.64	12.08	17.75	23.79	23.79		/ 8				
reaction time	0.151	interval		5.44	5.67	6.04		# of strides	12.08	11.71	0.37		
		velocity	7.53	9.19	8.82	8.28	8.41		8.28	8.54			

2000 Olympic Games (Sydney, AUS)**FINAL**

		date	28-Sep-00	wind	0.7 m/s						<i>Veney - 200m women from PJ</i>		
				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Jones, Marion (USA) (1975)	time				11.03	16.23	21.84	21.84	4 / 4				
reaction time	0.174	interval				5.20	5.61	DV	# of strides	11.03	10.81	0.22	
		velocity			9.07	9.62	8.91	9.16		9.07	9.25		
Davis-Thompson, Paulien (BAH) (1977)	time				11.3		22.3	22.27	3 / 2 1			<i>Butler (2016)</i>	
reaction time	0.185	interval					11.0	PB	# of strides	11.30	11.00	0.30	
		velocity			8.85		9.09	8.98		8.85	9.09		

reaction time	0.168	interval	5.03	5.32	5.79		# of strides	11.17	11.11	0.06
		velocity	8.14	9.94	9.40	8.64	8.98	8.95	9.00	

Yusuf, Fatima (NGR) (1971)	time	6.30	11.37	16.68	22.42	22.42	7 / 6			
	reaction time	0.147	interval	5.07	5.31	5.74	# of strides	11.37	11.05	0.32
			velocity	7.94	9.86	9.42	8.71	8.92	8.80	9.05

Hewitt, Lauren (AUS) (1978)	time	6.28	11.42	16.80	22.53	22.53	1 / 7				
	reaction time	0.132	interval	5.14	5.38	5.73	PB	# of strides	11.42	11.11	0.31
			velocity	7.96	9.73	9.29	8.73	8.88	8.76	9.00	

Campbell, Juliet (JAM) (1970)	time	6.31	11.50	16.87	22.64	22.64	2 / 8			
	reaction time	0.143	interval	5.19	5.37	5.77	# of strides	11.50	11.14	0.36
			velocity	7.92	9.63	9.31	8.67	8.83	8.70	8.98

Semi-Final 1 (TV analysis) date 25-Aug-99 wind 1.8 m/s Graubner (2008) - <http://www.fgs.uni-halle.de>

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Philipp, Andrea (GER) (1971)	time			11.47		22.25	22.25	8 / 2			
	reaction time	0.139	interval			10.78	PB	# of strides	11.47	10.78	0.69
			velocity	8.72		9.28	8.99		8.72	9.28	

1999 Ericsson (Helsinki, FIN) (TV Analysis)

FINAL

date 10-Jun-99 wind -0.4 m/s Graubner (2008) - <http://www.fgs.uni-halle.de>

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Jones, Marion (USA) (1975)	time			11.12		21.91	21.91	/ 1			
	reaction time		interval			10.79		# of strides	11.12	10.79	0.33
			velocity	8.99		9.27	9.13		8.99	9.27	

1998 IAAF World Cup (Johannesburg, RSA) (Altitude)

FINAL

date 11-Sep-98 wind -0.6 m/s Veney - 200m women from PJ

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Jones, Marion (USA) (1975)	time			6.21	11.08	16.13	21.62	21.62	9 / 1			
	reaction time	0.258	interval		4.87	5.05	5.49	CR / PB	# of strides	11.08	10.54	0.54
			velocity	8.05	10.27	9.90	9.11	9.25		9.03	9.49	
Ogunkoya, Falilat (NGR) (1968)	time			6.37	11.38	16.68	22.25	22.25	2 / 2			
	reaction time	0.159	interval		5.01	5.30	5.57		# of strides	11.38	10.87	0.51
			velocity	7.85	9.98	9.43	8.98	8.99		8.79	9.20	

Pintusevich, Zhana (UKR) (1972)	0.192	no information available					22.35	5 / 3			
McDonald, Beverly (JAM) (1970)	0.204	no information available					22.36	8 / 4			
Privalova, Irina (RUS) (1968)	0.183	no information available					22.61	7 / 5			
Paschke, Melanie (GER) (1970)	0.139	no information available					22.70	4 / 6			
van Heer, Tania (AUS) (1970)	0.147	no information available					22.93	3 / 7			
Yan Jiankui (CHN) (1976)	0.190	no information available					23.19	6 / 8			

1997 IAAF World Championships (Athens, GRE)

FINAL

date 08-Aug-97 wind -0.7 m/s Ritzdorf (1997) - biomechanical research project at the VI th world championships

			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Pintusevich, Zhanna (UKR) (1972)	time			6.00	11.04	16.36	22.20	22.32	5 / 1			
	reaction time	0.124	interval		5.04	5.32	5.84		# of strides	11.04	11.16	-0.12
			velocity	8.33	9.92	9.40	8.56	8.96		9.06	8.96	
									97.5			
Jayasinghe, Susanthika (SRI) (1971)	time			6.05	11.07	16.39	22.21	22.39	4 / 2			
	reaction time	0.181	interval		5.02	5.32	5.82		# of strides	11.07	11.14	-0.07
			velocity	8.26	9.96	9.40	8.59	8.93		9.03	8.98	
									95.0			
Ottey, Merlene (JAM) (1960)	time			5.99	10.99	16.23	22.25	22.40	3 / 3			
	reaction time	0.146	interval		5.00	5.24	6.02		# of strides	10.99	11.26	-0.27
			velocity	8.35	10.00	9.54	8.31	8.93		9.10	8.88	
									95.0			
Leshchova, Yekaterina (RUS) (1972)	time			6.21	11.31	16.71	22.35	22.50	7 / 4			
	reaction time	0.149	interval		5.10	5.40	5.64		# of strides	11.31	11.04	0.27
			velocity	8.05	9.80	9.26	8.87	8.89		8.84	9.06	
									94.2			

Miller, Inger (USA) (1972)	time	6.08	11.12	16.48	22.38	22.52	6 / 5			
reaction time	0.142	interval	5.04	5.36	5.90		# of strides	11.12	11.26	-0.14
		velocity	8.22	9.92	9.33	8.47	8.88	97.2	8.99	8.88
Trandenkova, Marina (RUS) (1991)	time	6.25	11.39	16.75	22.51	22.65	1 / 6			
reaction time	0.138	interval	5.14	5.36	5.76		# of strides	11.39	11.12	0.27
		velocity	8.00	9.73	9.33	8.68	8.83	100.5	8.78	8.99
Gainsford-Taylor, Melinda (AUS) (1971)	time	6.24	11.30	16.68	22.58	22.73	2 / 7			
reaction time	0.150	interval	5.06	5.38	5.90		# of strides	11.30	11.28	0.02
		velocity	8.01	9.88	9.29	8.47	8.80	94.2	8.85	8.87
Félix, Sylviane (FRA) (1977)	time	6.37	11.57	16.93	22.65	22.81	8 / 8			
reaction time	0.157	interval	5.20	5.36	5.72		# of strides	11.57	11.08	0.49
		velocity	7.85	9.62	9.33	8.74	8.77		8.64	9.03

1997 European Cup (Munich, GER)

FINAL

	date	22-Jun-97	wind	-0.2 m/s								
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Arron, Christine (FRA) (1973)	time		6.35	11.42	16.80	22.89	22.89	/ 1				
reaction time				5.07	5.38	6.09		# of strides	11.42	11.47	-0.05	
				7.87	9.86	9.29	8.21	8.74	8.76	8.72		
Philipp, Andrea (GER) (1971)	time		6.49	11.72	17.13	22.98	22.98	/ 2				
reaction time				5.23	5.41	5.85	=PB	# of strides	11.72	11.26	0.46	
				7.70	9.56	9.24	8.55	8.70	8.53	8.88		
Trandenkova, Marina (RUS) (1991)	time		6.42	11.66	17.13	23.16	23.16	/ 3				
reaction time				5.24	5.47	6.03		# of strides	11.66	11.50	0.16	
				7.79	9.54	9.14	8.29	8.64	8.58	8.70		
Safronnikova, Natallia (BLR) (1975)	time		6.57	11.87	17.38	23.36	23.36	/ 4				
reaction time				5.30	5.51	5.98		# of strides	11.87	11.49	0.38	
				7.61	9.43	9.07	8.36	8.56	8.42	8.70		
de Angeli, Virna (ITA) (1976)	time		6.68	12.04	17.55	23.58	23.58	/ 5				
reaction time				5.36	5.51	6.03		# of strides	12.04	11.54	0.50	
				7.49	9.33	9.07	8.29	8.48	8.31	8.67		
Jacobs, Simone (GBR) (1966)	time		6.50	11.74	17.32	23.62	23.62	/ 6				
reaction time				5.24	5.58	6.30		# of strides	11.74	11.88	-0.14	
				7.69	9.54	8.96	7.94	8.47	8.52	8.42		
Lysakova, Olga (UKR) (1971)	time		6.66	12.11	17.86	24.14	24.14	/ 7				
reaction time				5.45	5.75	6.28		# of strides	12.11	12.03	0.08	
				7.51	9.17	8.70	7.96	8.29	8.26	8.31		
Bumbescu, Monika (ROU) (1977)	time		6.70	12.18	17.95	24.29	24.29	/ 8				
reaction time				5.48	5.77	6.34		# of strides	12.18	12.11	0.07	
				7.46	9.12	8.67	7.89	8.23	8.21	8.26		

1996 Olympic Games (Atlanta, GA)

FINAL

	date	01-Aug-96	wind	0.3 m/s								
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Pérec, Marie-José (FRA) (1968)	time			11.38	16.61	22.12	22.12	3 / 1				
reaction time	0.174				5.23	5.51		# of strides	11.38	10.74	0.64	
					8.79	9.56	9.07	9.04	8.79	9.31		
Ottey, Merlene (JAM) (1960)	time			11.28	16.51	22.24	22.24	5 / 2				
reaction time	0.194				5.23	5.73		# of strides	11.28	10.96	0.32	
					8.87	9.56	8.73	8.99	8.87	9.12		
Onyali-Omagbemi, Mary (NGR)	time			11.37	16.63	22.38	22.38	4 / 3				
reaction time	0.231				5.26	5.75		# of strides	11.37	11.01	0.36	
					8.80	9.51	8.70	8.94	8.80	9.08		

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

Miller, Inger (USA) (1972)	time	11.36	16.63	22.41	22.41	7 / 4			
reaction time	0.172	interval	5.27	5.78		# of strides	11.36	11.05	0.31
		velocity	8.80	9.49	8.65	8.92	8.80	9.05	
Malchugina, Galina (URS) (1962)	time	11.56	16.83	22.45	22.45	6 / 5			
reaction time	0.198	interval	5.27	5.62		# of strides	11.56	10.89	0.67
		velocity	8.65	9.49	8.90	8.91	8.65	9.18	
Sturup, Chandra (BAH) (1971)	time	11.32	16.68	22.54	22.54	8 / 6			
reaction time	0.165	interval	5.36	5.86		# of strides	11.32	11.22	0.10
		velocity	8.83	9.33	8.53	8.87	8.83	8.91	
Cuthbert, Juliet (JAM) (1964)	time	11.51		22.60	22.60	1 / 7			
reaction time	0.175	interval		11.09		# of strides	11.51	11.09	0.42
		velocity	8.69	9.02	8.85		8.69	9.02	
Guidry-White, Carlette (USA) (1977)	time	11.41	16.70	22.61	22.61	2 / 8			
reaction time	0.207	interval	5.29	5.91		# of strides	11.41	11.20	0.21
		velocity	8.76	9.45	8.46	8.85	8.76	8.93	

Semi-Final 1

date 01-Aug-96 wind 0.4 m/s

Vazel (2011) - speed reserve in the 400m

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Pérec, Marie-José (FRA) (1968)	time		11.28		22.07	22.07	4 / 1			
reaction time	0.185	interval			10.79		# of strides	11.28	10.79	0.49
		velocity	8.87		9.27	9.06		8.87	9.27	

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

date 29-Jun-96 wind -1.3 m/s

USATF Women's Sprint Development (1996)

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Perry, Nanceen (USA) (1977)	time	6.65	11.96	17.50	23.52	23.52	4 / 1			
reaction time		interval	5.31	5.54	6.02		# of strides	11.96	11.56	0.40
		velocity	7.52	9.42	9.03	8.50		8.36	8.65	
Cox, Crystal (USA) (1979)	time	6.65	11.86	17.50	23.69	23.69	5 / 2			
reaction time		interval	5.21	5.64	6.19		# of strides	11.86	11.83	0.03
		velocity	7.52	9.60	8.87	8.08	8.44	8.43	8.45	
Anderson, Andrea (USA) (1977)	time	6.61	11.96	17.56	23.85	23.85	6 / 3			
reaction time		interval	5.35	5.60	6.29		# of strides	11.96	11.89	0.07
		velocity	7.56	9.35	8.93	7.95	8.39	8.36	8.41	
Simmons, Alexia (USA) (1977)	time	6.71	11.98	17.80	24.18	24.18	7 / 4			
reaction time		interval	5.27	5.82	6.38	PB	# of strides	11.98	12.20	-0.22
		velocity	7.45	9.49	8.59	7.84	8.27	8.35	8.20	
Carmichael, Nicole (USA) (1977)	time	6.86	12.34		25.01	25.01	8 / 5			
reaction time		interval	5.48		12.67		# of strides	12.34	12.67	-0.33
		velocity	7.29	9.12	7.89	8.00		8.10	7.89	
Rivers, Theodoesha (USA) (1977)	time	6.95	12.61		25.07	25.07	3 / 6			
reaction time		interval	5.66		12.46		# of strides	12.61	12.46	0.15
		velocity	7.19	8.83	8.03	7.98		7.93	8.03	

1996 USA Olympic Trials (Atlanta, GA)**FINAL**

date 23-Jun-96 wind -0.6 m/s

USATF Women's Sprint Development (1996)

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Guidry-White, Carlette (USA) (1977)	time		11.22	16.43	22.14	22.14	3 / 1			
reaction time		interval		5.21	5.71	PB	# of strides	11.22	10.92	0.30
		velocity	8.91	9.60	8.76	9.03		8.91	9.16	
Young-Stone, Dannette (USA) (1977)	time		11.27	16.48	22.18	22.18	5 / 2			
reaction time	0.168	interval		5.21	5.70	PB	# of strides	11.27	10.91	0.36
		velocity	8.87	9.60	8.77	9.02		8.87	9.17	

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

Miller, Inger (USA) (1972)	time	11.28	16.52	22.25	22.25	8 / 3			
reaction time	0.167	interval	5.24	5.73	=PB	# of strides	11.28	10.97	0.31
		velocity	8.87	9.54	8.73	8.99	8.87	9.12	
Torrence, Gwen (USA) (1965)	time	11.29	16.53	22.25	22.25	4 / 4			
reaction time		interval	5.24	5.72		# of strides	11.29	10.96	0.33
		velocity	8.86	9.54	8.74	8.99	8.86	9.12	
Feagin, Zundra (USA) (1973)	time	11.33	16.57	22.33	22.33	6 / 5			
reaction time		interval	5.24	5.76		# of strides	11.33	11.00	0.33
		velocity	8.83	9.54	8.68	8.96	8.83	9.09	
Mondie-Milner, Celena (USA) (1972)	time	11.62	16.93	22.55	22.55	7 / 6			
reaction time		interval	5.31	5.62		# of strides	11.62	10.93	0.69
		velocity	8.61	9.42	8.90	8.87	8.61	9.15	
Taplin, Cheryl (USA) (1972)	time	11.37	16.77	22.59	22.59	2 / 7			
reaction time		interval	5.40	5.82	PB	# of strides	11.37	11.22	0.15
		velocity	8.80	9.26	8.59	8.85	8.80	8.91	
Jett, Kisha (USA) (1975)	time	11.60	17.02	23.09	23.09	1 / 8			
reaction time		interval	5.42	6.07		# of strides	11.60	11.49	0.11
		velocity	8.62	9.23	8.24	8.66	8.62	8.70	

Semi-Final 2

date 22-Jun-96 wind 0.5 m/s USATF Women's Sprint Development (1996)

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Young-Stone, Dannette (USA) (1972)	time	11.39	16.68	22.31	22.31	22.31	3 / 1			
reaction time		interval	5.29	5.63	PB	# of strides	11.39	10.92	0.47	
		velocity	8.78	9.45	8.88	8.96	8.78	9.16		
Torrence, Gwen (USA) (1965)	time	11.49	16.75	22.35	22.35	22.35	6 / 2			
reaction time		interval	5.26	5.60		# of strides	11.49	10.86	0.63	
		velocity	8.70	9.51	8.93	8.95	8.70	9.21		
Miller, Inger (USA) (1972)	time	11.52	16.83	22.45	22.45	22.45	5 / 3			
reaction time		interval	5.31	5.62		# of strides	11.52	10.93	0.59	
		velocity	8.68	9.42	8.90	8.91	8.68	9.15		
Taplin, Cheryl (USA) (1972)	time	11.67	17.18	22.95	22.95	22.95	4 / 4			
reaction time		interval	5.51	5.77		# of strides	11.67	11.28	0.39	
		velocity	8.57	9.07	8.67	8.71	8.57	8.87		
Perry, Nanceen (USA) (1977)	time	11.96	17.43	23.46	23.46	23.46	2 / 5			
reaction time		interval	5.47	6.03		# of strides	11.96	11.50	0.46	
		velocity	8.36	9.14	8.29	8.53	8.36	8.70		
Mayo, Treshell (USA) (1974)	time	11.89	17.46	23.49	23.49	23.49	1 / 6			
reaction time		interval	5.57	6.03		# of strides	11.89	11.60	0.29	
		velocity	8.41	8.98	8.29	8.51	8.41	8.62		
Harris, Flirtisha (USA) (1972)	time	12.07	17.80	24.00	24.00	24.00	8 / 7			
reaction time		interval	5.73	6.20		# of strides	12.07	11.93	0.14	
		velocity	8.29	8.73	8.06	8.33	8.29	8.38		

Semi-Final 1

date 22-Jun-96 wind -0.5 m/s USATF Women's Sprint Development (1996)

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Guidry-White, Carlette (USA) (1972)	time	11.35	16.49	22.29	22.29	22.29	5 / 1			
reaction time		interval	5.14	5.80	PB	# of strides	11.35	10.94	0.41	
		velocity	8.81	9.73	8.62	8.97	8.81	9.14		
Feagin, Zundra (USA) (1973)	time	11.55	16.64	22.35	22.35	22.35	3 / 2			
reaction time		interval	5.09	5.71		# of strides	11.55	10.80	0.75	
		velocity	8.66	9.82	8.76	8.95	8.66	9.26		
Mondie-Milner, Celena (USA) (1972)	time	11.62	16.84	22.59	22.59	22.59	4 / 3			
reaction time		interval	5.22	5.75		# of strides	11.62	10.97	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	8.61	9.58	8.70	8.85		8.61	9.12	
Jett, Kisha (USA) (1975)	time	11.65	16.93	22.94	22.94	6 / 4			
reaction time	interval		5.28	6.01		# of strides	11.65	11.29	0.36
	velocity	8.58	9.47	8.32	8.72		8.58	8.86	
Burkett, Aspen (USA) (1976)	time	12.03	17.46	23.36	23.36	8 / 5			
reaction time	interval		5.43	5.90		# of strides	12.03	11.33	0.70
	velocity	8.31	9.21	8.47	8.56		8.31	8.83	
Roberts, Tameka (USA) (1974)	time	11.88	17.29	23.39	23.39	7 / 6			
reaction time	interval		5.41	6.10		# of strides	11.88	11.51	0.37
	velocity	8.42	9.24	8.20	8.55		8.42	8.69	
Williams, Angela (USA) (1980)	time	11.98	17.35	23.40	23.40	2 / 7			
reaction time	interval		5.37	6.05	PB	# of strides	11.98	11.42	0.56
	velocity	8.35	9.31	8.26	8.55		8.35	8.76	
Jones, Esther (USA) (1969)	time	12.00	17.43	23.47	23.47	1 / 8			
reaction time	interval		5.43	6.04		# of strides	12.00	11.47	0.53
	velocity	8.33	9.21	8.28	8.52		8.33	8.72	

1995 IAAF World Championships (Göteborg, SWE)

FINAL

date 10-Aug-95 wind -2.2 m/s

Veney - 200m women from PJ

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Torrence, Gwen (USA) (1965)	time	11.14	16.17	21.77	21.77	21.77	6 / 4			
reaction time	interval		5.03	5.60	DQ		# of strides	11.14	10.63	0.51
	velocity	8.98	9.94	8.93	9.19		96.0	8.98	9.41	
Ottey, Merlene (JAM) (1960)	time	11.12	16.37	22.12	22.12	22.12	4 / 2 1			
reaction time 0.157	interval		5.25	5.75			# of strides	11.12	11.00	0.12
	velocity	8.99	9.52	8.70	9.04		91.5	8.99	9.09	
Privalova, Irina (RUS) (1968)	time	11.17	16.40	22.12	22.12	22.12	5 / 3 2			
reaction time 0.189	interval		5.23	5.72			# of strides	11.17	10.95	0.22
	velocity	8.95	9.56	8.74	9.04		92.2	8.95	9.13	
Malchugina, Galina (URS) (1962)	time	11.35	16.57	22.37	22.37	22.37	3 / 4 3			
reaction time	interval		5.22	5.80			# of strides	11.35	11.02	0.33
	velocity	8.81	9.58	8.62	8.94		97.7	8.81	9.07	
Paschke, Melanie (GER) (1970)	time	11.43	16.71	22.60	22.60	22.60	7 / 5 4			
reaction time	interval		5.28	5.89			# of strides	11.43	11.17	0.26
	velocity	8.75	9.47	8.49	8.85		100.0	8.75	8.95	
Knoll, Silke (GER) (1967)	time	11.57	16.86	22.66	22.66	22.66	2 / 6 5			
reaction time	interval		5.29	5.80			# of strides	11.57	11.09	0.48
	velocity	8.64	9.45	8.62	8.83		103.5	8.64	9.02	
Onyali, Mary (NGR) (1968)	time	11.39	16.73	22.71	22.71	22.71	8 / 7 6			
reaction time	interval		5.34	5.98			# of strides	11.39	11.32	0.07
	velocity	8.78	9.36	8.36	8.81		95.0	8.78	8.83	
Trandenkova, Marina (RUS) (1968)	time	11.68	17.06	22.84	22.84	22.84	1 / 8 7			
reaction time	interval		5.38	5.78	PB		# of strides	11.68	11.16	0.52
	velocity	8.56	9.29	8.65	8.76		101.5	8.56	8.96	

1995 USATF National Championships (Sacramento, CA)

FINAL

date 18-Jun-95 wind 2.3 m/s

USATF Women's Sprint Development (1995)

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Torrence, Gwen (USA) (1965)	time	6.23	11.25	16.46	22.03	22.03	5 / 1			
reaction time	interval		5.02	5.21	5.57		# of strides	11.25	10.78	0.47
	velocity	8.03	9.96	9.60	8.98	9.08		8.89	9.28	
Guidry, Carlette (USA) (1968)	time	6.25	11.40	16.74	22.57	22.57	3 / 2			

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

reaction time	interval	5.15	5.34	5.83		# of strides	11.40	11.17	0.23	
	velocity	8.00	9.71	9.36	8.86		8.77	8.95		
Mondie-Milner, Celena (USA) (1	time	6.31	11.61	16.96	22.76	22.76	4 / 3			
reaction time	interval		5.30	5.35	5.80		# of strides	11.61	11.15	0.46
	velocity	7.92	9.43	9.35	8.62	8.79		8.61	8.97	
Burkett, Aspen (USA) (1976)	time	6.37	11.68	17.06	22.77	22.77	6 / 4			
reaction time	interval		5.31	5.38	5.71		# of strides	11.68	11.09	0.59
	velocity	7.85	9.42	9.29	8.76	8.78		8.56	9.02	
Gaines, Chryste (USA) (1970)	time	6.40	11.53	17.03	23.07	23.07	7 / 5			
reaction time	interval		5.13	5.50	6.04		# of strides	11.53	11.54	-0.01
	velocity	7.81	9.75	9.09	8.28	8.67		8.67	8.67	
Walton, Sue (USA) (1972)	time	6.45	11.76	17.30	23.28	23.28	8 / 6			
reaction time	interval		5.31	5.54	5.98		# of strides	11.76	11.52	0.24
	velocity	7.75	9.42	9.03	8.36	8.59		8.50	8.68	
Feagin, Zundra (USA) (1973)	time	6.40	11.73	17.25	23.28	23.28	2 / 7			
reaction time	interval		5.33	5.52	6.03		# of strides	11.73	11.55	0.18
	velocity	7.81	9.38	9.06	8.29	8.59		8.53	8.66	
Young-Stone, Dannette (USA)	time	6.50	11.83	17.32	23.31	23.31	1 / 8			
reaction time	interval		5.33	5.49	5.99		# of strides	11.83	11.48	0.35
	velocity	7.69	9.38	9.11	8.35	8.58		8.45	8.71	

1993 IAAF World Championships (Stuttgart, GER)**FINAL**

date 19-Aug-93

wind 0.0 m/s

Veney - 200m women from PJ

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Ottey, Merlene (JAM) (1960)	time	6.21	11.15	16.33	21.98	21.98	4 / 1			
reaction time	0.219 interval		4.94	5.18	5.65		# of strides	11.15	10.83	0.32
	velocity	8.05	10.12	9.65	8.85	9.10		8.97	9.23	
Torrence, Gwen (USA) (1965)	time	6.30	11.28	16.44	22.00	22.00	6 / 2			
reaction time	0.244 interval		4.98	5.16	5.56		# of strides	11.28	10.72	0.56
	velocity	7.94	10.04	9.69	8.99	9.09		8.87	9.33	
Privalova, Irina (RUS) (1968)	time	6.25	11.30	16.54	22.13	22.13	3 / 3			
reaction time	0.206 interval		5.05	5.24	5.59		# of strides	11.30	10.83	0.47
	velocity	8.00	9.90	9.54	8.94	9.04		8.85	9.23	
Pérec, Marie-José (FRA) (1968)	time	6.32	11.36	16.52	22.20	22.20	7 / 4			
reaction time	0.194 interval		5.04	5.16	5.68		# of strides	11.36	10.84	0.52
	velocity	7.91	9.92	9.69	8.80	9.01		8.80	9.23	
Onyali, Mary (NGR) (1968)	time	6.30	11.36	16.66	22.32	22.32	2 / 5			
reaction time	0.216 interval		5.06	5.30	5.66		# of strides	11.36	10.96	0.40
	velocity	7.94	9.88	9.43	8.83	8.96		8.80	9.12	
Voronova-Pomoshnikova, Natal	time	6.41	11.48	16.82	22.50	22.50	8 / 6			
reaction time	0.262 interval		5.07	5.34	5.68		# of strides	11.48	11.02	0.46
	velocity	7.80	9.86	9.36	8.80	8.89		8.71	9.07	
Malchugina, Galina (RUS) (1962	time	6.33	11.33	16.65	22.50	22.50	5 / 7			
reaction time	0.249 interval		5.00	5.32	5.85		# of strides	11.33	11.17	0.16
	velocity	7.90	10.00	9.40	8.55	8.89		8.83	8.95	
Young-Stone, Dannette (USA)	time	6.66	11.88	17.26	23.04	23.04	1 / 8			
reaction time	0.189 interval		5.22	5.38	5.78		# of strides	11.88	11.16	0.72
	velocity	7.51	9.58	9.29	8.65	8.68		8.42	8.96	

1992 Olympic Games (Barcelona, ESP)**FINAL**

date 06-Aug-92

wind -0.6 m/s (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

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

Torrence, Gwen (USA) (1965)	time	11.27	21.81	21.81	6 / 1			
	reaction time		interval	10.54	# of strides	11.27	10.54	0.73
	velocity	8.87	9.49	9.17	98.5	8.87	9.49	
Cuthbert, Juliet (JAM) (1964)	time	11.3	22.0	22.02	4 / 2			
	reaction time		interval	10.70	# of strides	11.30	10.70	0.60
	velocity	8.85	9.35	9.08	97.0	8.85	9.35	
Ottey, Merlene (JAM) (1960)	time	11.2	22.1	22.09	5 / 3			
	reaction time		interval	10.90	# of strides	11.20	10.90	0.30
	velocity	8.93	9.17	9.05	93.7	8.93	9.17	
Privalova, Irina (EUN) (1968)	time	11.2	22.2	22.19	3 / 4			
	reaction time		interval	11.00	# of strides	11.20	11.00	0.20
	velocity	8.93	9.09	9.01	93.7	8.93	9.09	
Guidry, Carlette (USA) (1968)	time	11.4	22.3	22.30	7 / 5			
	reaction time		interval	10.90	# of strides	11.40	10.90	0.50
	velocity	8.77	9.17	8.97	91.0	8.77	9.17	
Jackson, Grace (JAM) (1961)	time	11.6	22.6	22.58	8 / 6			
	reaction time		interval	11.00	# of strides	11.60	11.00	0.60
	velocity	8.62	9.09	8.86		8.62	9.09	
Finn, Michelle (USA) (1965)	time	11.4	22.6	22.61	2 / 7			
	reaction time		interval	11.20	# of strides	11.40	11.20	0.20
	velocity	8.77	8.93	8.85	95.2	8.77	8.93	
Malchugina, Galina (EUN) (1962)	time	11.5	22.6	22.63	1 / 8			
	reaction time		interval	11.10	# of strides	11.50	11.10	0.40
	velocity	8.70	9.01	8.84	101.5	8.70	9.01	

Semi-Final 2

		date	05-Aug-92		wind						Veney - 200m women from PJ		
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
Torrence, Gwen (USA) (1965)	time		11.26	16.35	21.72	21.72	3 / 1						
	reaction time			5.09	5.37	PB	# of strides	11.26	10.46	0.80			
	velocity		8.88	9.82	9.31	9.21	97.0	8.88	9.56				
Finn, Michelle (USA) (1965)	time		11.24	16.59	22.39	22.39	4 / 4						
	reaction time			5.35	5.80	PB	# of strides	11.24	11.15	0.09			
	velocity		8.90	9.35	8.62	8.93	95.0	8.90	8.97				

1992 Ingolstadt**FINAL**

		date	19-Jul-92		wind						Graubner (2008) - http://www.fgs.uni-halle.de		
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
Knoll, Silke (GER) (1967)	time		11.51			22.29	22.29	/ 1					
	reaction time					10.78	PB	# of strides	11.51	10.78	0.73		
	velocity		8.69			9.28	8.97		8.69	9.28			

1991 IAAF World Championships (Tokyo, JPN)**FINAL**

		date	30-Aug-91		wind						Butler (2013) - IAAF world championships statistics handbook- moscow 2013		
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
Krabbe, Katrin (GER) (1969)	time		11.07			22.09	22.09	3 / 1					
	reaction time					11.02		# of strides	11.07	11.02	0.05		
	velocity		9.03			9.07	9.05	92.0	9.03	9.07			
Torrence, Gwen (USA) (1965)	time		11.30			22.16	22.16	4 / 2					
	reaction time					10.86		# of strides	11.30	10.86	0.44		
	velocity		8.85			9.21	9.03	98.0	8.85	9.21			
Ottey, Merlene (JAM) (1960)	time		11.17			22.21	22.21	5 / 3					
	reaction time					11.04		# of strides	11.17	11.04	0.13		
	velocity		8.95			9.06	9.00	93.7	8.95	9.06			
Privalova, Irina (URS) (1968)	time		11.25			22.28	22.28	7 / 4					

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

reaction time	interval		11.03		# of strides	11.25	11.03	0.22
	velocity	8.89	9.07	8.98	91.5	8.89	9.07	
Malchugina, Galina (URS) (1962)	time	11.50	22.66	22.66	1 / 5			
reaction time	interval		11.16		# of strides	11.50	11.16	0.34
	velocity	8.70	8.96	8.83	100.0	8.70	8.96	
Young, Dannette (USA) (1964)	time	11.48	22.87	22.87	6 / 6			
reaction time	interval		11.39		# of strides	11.48	11.39	0.09
	velocity	8.71	8.78	8.75	101.2	8.71	8.78	
Davis-Thompson, Pauline (BAH)	time	11.67	22.90	22.90	2 / 7			
reaction time	interval		11.23		# of strides	11.67	11.23	0.44
	velocity	8.57	8.90	8.73	96.2	8.57	8.90	
Vinogradova, Yelena (URS) (1963)	time	11.60	23.10	23.10	8 / 8			
reaction time	interval		11.50		# of strides	11.60	11.50	0.10
	velocity	8.62	8.70	8.66		8.62	8.70	

1991 European Cup (Frankfurt, GER)**FINAL**

		date	wind -3.4 m/s				Federle (2003) - http://www.fgs.uni-halle.de				
		30-Jun-91	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Privalova, Irina (URS) (1968)	time		11.50	22.48	22.48	22.48	/ 1				
reaction time	interval			10.98			# of strides	11.50	10.98	0.52	
	velocity		8.70	9.11	8.90			8.70	9.11		
Thomas, Andrea (GER) (1963)	time		11.56	23.08	23.08	23.08	/ 2				
reaction time	interval			11.52			# of strides	11.56	11.52	0.04	
	velocity		8.65	8.68	8.67			8.65	8.68		
Nestoret, Maguy (FRA) (1969)	time		11.74	23.22	23.22	23.22	/ 3				
reaction time	interval			11.48			# of strides	11.74	11.48	0.26	
	velocity		8.52	8.71	8.61			8.52	8.71		
Jacobs, Simone (GBR) (1966)	time		11.71	23.78	23.78	23.78	/ 4				
reaction time	interval			12.07			# of strides	11.71	12.07	-0.36	
	velocity		8.54	8.29	8.41			8.54	8.29		
Ilieva, Tsvetanka (BUL) (1963)	time		12.24	24.04	24.04	24.04	/ 5				
reaction time	interval			11.80			# of strides	12.24	11.80	0.44	
	velocity		8.17	8.47	8.32			8.17	8.47		
Smolarek, Joanna (POL) (1965)	time		12.02	24.05	24.05	24.05	/ 6				
reaction time	interval			12.03			# of strides	12.02	12.03	-0.01	
	velocity		8.32	8.31	8.32			8.32	8.31		
Kozáry, Ágnes (HUN) (1966)	time		12.15	24.21	24.21	24.21	/ 7				
reaction time	interval			12.06			# of strides	12.15	12.06	0.09	
	velocity		8.23	8.29	8.26			8.23	8.29		
Solcan, Elena (ROU) (1970)	time		12.20	24.30	24.30	24.30	/ 8				
reaction time	interval			12.10			# of strides	12.20	12.10	0.10	
	velocity		8.20	8.26	8.23			8.20	8.26		

1991 German National Championships (Hannover, GER)**FINAL**

		date	wind -1.4 m/s				Graubner (2008) - http://www.fgs.uni-halle.de				
		28-Jul-91	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Krabbe, Katrin (GER) (1969)	time		6.17	11.20	16.46	22.12	22.12	/ 1			
reaction time	interval			5.03	5.26	5.66		# of strides	11.20	10.92	0.28
	velocity		8.10	9.94	9.51	8.83	9.04		8.93	9.16	

1989 IAAF World Cup (Barcelona, ESP)**FINAL**

		date	wind 0.2 m/s				Pascua (1990) - <i>atletismo (I) carreras y marcha</i>				
		08-Sep-89	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Möller, Silke (GDR) (1964)	time		11.28	16.70	22.46	22.46	22.46	/ 1			

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

reaction time	0.203	interval		5.42	5.76		# of strides	11.28	11.18	0.10
		velocity	8.87	9.23	8.68	8.90		8.87	8.94	
Onyali, Mary (NGR) (1968)	time		11.56	17.00	22.82	22.82	/ 2			
reaction time	0.253	interval		5.44	5.82		# of strides	11.56	11.26	0.30
		velocity	8.65	9.19	8.59	8.76		8.65	8.88	
Jackson, Grace (JAM) (1961)	time		11.98	17.38	22.87	22.87	/ 3			
reaction time	0.212	interval		5.40	5.49		# of strides	11.98	10.89	1.09
		velocity	8.35	9.26	9.11	8.75		8.35	9.18	
Young, Dannette (USA) (1964)	time		11.74	17.28	23.08	23.08	/ 4			
reaction time		interval		5.54	5.80		# of strides	11.74	11.34	0.40
		velocity	8.52	9.03	8.62	8.67		8.52	8.82	
Malchugina, Galina (URS) (1962)	time		11.44	17.06	23.12	23.12	/ 5			
reaction time		interval		5.62	6.06		# of strides	11.44	11.68	-0.24
		velocity	8.74	8.90	8.25	8.65		8.74	8.56	
Bily, Laurence (FRA) (1963)	time		11.64	17.22	23.20	23.20	/ 6			
reaction time		interval		5.58	5.98		# of strides	11.64	11.56	0.08
		velocity	8.59	8.96	8.36	8.62		8.59	8.65	
Broadrick, Susanne (AUS) (1961)	time		12.04	17.94	24.05	24.05	/ 7			
reaction time		interval		5.90	6.11		# of strides	12.04	12.01	0.03
		velocity	8.31	8.47	8.18	8.32		8.31	8.33	
Zhang Xiaoqiong (CHN) (1966)	time		12.22	18.06	24.25	24.25	/ 8			
reaction time		interval		5.84	6.19		# of strides	12.22	12.03	0.19
		velocity	8.18	8.56	8.08	8.25		8.18	8.31	
Lacambra, Blanca (ESP) (1965)	time		12.26	18.20	24.44	24.44	/ 9			
reaction time		interval		5.94	6.24		# of strides	12.26	12.18	0.08
		velocity	8.16	8.42	8.01	8.18		8.16	8.21	

1988 Olympic Games (Seoul, KOR)**FINAL**date 29-Sep-88 wind 1.3 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
Griffith-Joyner, Florence (USA)	time		6.29	11.18	16.10	21.34	21.34	5 / 1			
reaction time	0.205	interval		4.89	4.92	5.24	WR	# of strides	11.18	10.16	1.02
		velocity	7.95	10.22	10.16	9.54	9.37	91.8	8.94	9.84	
Jackson, Grace (JAM) (1961)	time		6.32	11.32	16.38	21.72	21.72	6 / 2			
reaction time	0.195	interval		5.00	5.06	5.34	PB	# of strides	11.32	10.40	0.92
		velocity	7.91	10.00	9.88	9.36	9.21	83.3	8.83	9.62	
Drechsler, Heike (GDR) (1964)	time		6.29	11.36	16.51	21.95	21.95	1 / 3			
reaction time	0.172	interval		5.07	5.15	5.44		# of strides	11.36	10.59	0.77
		velocity	7.95	9.86	9.71	9.19	9.11	89.5	8.80	9.44	
Ottey, Merlene (JAM) (1960)	time		6.20	11.19	16.34	21.99	21.99	3 / 4			
reaction time	0.180	interval		4.99	5.15	5.65	PB	# of strides	11.19	10.80	0.39
		velocity	8.06	10.02	9.71	8.85	9.10	90.4	8.94	9.26	
Möller, Silke (GDR) (1964)	time		6.28	11.25	16.46	22.09	22.09	4 / 5			
reaction time	0.186	interval		4.97	5.21	5.63		# of strides	11.25	10.84	0.41
		velocity	7.96	10.06	9.60	8.88	9.05	103.0	8.89	9.23	
Torrence, Gwen (USA) (1965)	time		6.33	11.38	16.56	22.17	22.17	8 / 6			
reaction time	0.187	interval		5.05	5.18	5.61		# of strides	11.38	10.79	0.59
		velocity	7.90	9.90	9.65	8.91	9.02	102.3	8.79	9.27	
Azarashvili, Maya (URS) (1964)	time		6.34	11.41	16.68	22.33	22.33	2 / 7			
reaction time	0.170	interval		5.07	5.27	5.65		# of strides	11.41	10.92	0.49
		velocity	7.89	9.86	9.49	8.85	8.96	101.0	8.76	9.16	

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

Malchugina, Galina (URS) (1962)	time	6.41	11.54	16.77	22.42	22.42	7 / 8			
reaction time	0.208	interval	5.13	5.23	5.65	PB	# of strides	11.54	10.88	0.66
		velocity	7.80	9.75	9.56	8.85	98.0	8.67	9.19	

Semi-Final 2

date 29-Sep-88

wind 1.8 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
Jackson, Grace (JAM) (1961)	time	6.36	11.37	16.60	22.13	22.13	4 / 1			
reaction time	0.194	interval	5.01	5.23	5.53	PB	# of strides	11.37	10.76	0.61
		velocity	7.86	9.98	9.56	9.04		8.80	9.29	
Drechsler, Heike (GDR) (1964)	time	6.23	11.33	16.63	22.27	22.27	5 / 2			
reaction time	0.147	interval	5.10	5.30	5.64		# of strides	11.33	10.94	0.39
		velocity	8.03	9.80	9.43	8.87	8.98	8.83	9.14	
Torrence, Gwen (USA) (1965)	time	6.58	11.66	16.94	22.53	22.53	6 / 3			
reaction time	0.264	interval	5.08	5.28	5.59		# of strides	11.66	10.87	0.79
		velocity	7.60	9.84	9.47	8.94	8.88	8.58	9.20	
Malchugina, Galina (URS) (1962)	time	6.37	11.41	16.74	22.55	22.53	7 / 4			
reaction time	0.200	interval	5.04	5.33	5.81		# of strides	11.41	11.14	0.27
		velocity	7.85	9.92	9.38	8.61	8.88	8.76	8.98	
Georgieva, Nadezhda (BUL) (1964)	time	6.44	11.53	16.93	22.67	22.67	3 / 5			
reaction time	0.231	interval	5.09	5.40	5.74		# of strides	11.53	11.14	0.39
		velocity	7.76	9.82	9.26	8.71	8.82	8.67	8.98	
Dunn, Paula (GBR) (1964)	time	6.40	11.73	17.30	23.14	23.14	1 / 6			
reaction time	0.171	interval	5.33	5.57	5.84		# of strides	11.73	11.41	0.32
		velocity	7.81	9.38	8.98	8.56	8.64	8.53	8.76	
Siwek, Agnieszka (POL) (1962)	time	6.57	11.79	17.32	23.20	23.20	8 / 7			
reaction time	0.317	interval	5.22	5.53	5.88		# of strides	11.79	11.41	0.38
		velocity	7.61	9.58	9.04	8.50	8.62	8.48	8.76	
Anliker-Aebi, Regula (SUI) (1964)	time	6.55	11.81	17.45	23.33	23.33	2 / 8			
reaction time	0.199	interval	5.26	5.64	5.88		# of strides	11.81	11.52	0.29
		velocity	7.63	9.51	8.87	8.50	8.57	8.47	8.68	

Semi-Final 1

date 29-Sep-88

wind 1.7 m/s

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

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Griffith-Joyner, Florence (USA) (1988)	time	6.33	11.29	16.36	21.56	21.56	5 / 1			
reaction time	0.156	interval	4.96	5.07	5.20	WR	# of strides	11.29	10.27	1.02
		velocity	7.90	10.08	9.86	9.62	91.5	8.86	9.74	
Ottey, Merlene (JAM) (1960)	time	6.36	11.42	16.63	22.07	22.07	3 / 2			
reaction time	0.176	interval	5.06	5.21	5.44		# of strides	11.42	10.65	0.77
		velocity	7.86	9.88	9.60	9.19	9.06	8.76	9.39	
Möller, Silke (GDR) (1964)	time	6.34	11.33	16.54	22.15	22.15	7 / 3			
reaction time	0.205	interval	4.99	5.21	5.61		# of strides	11.33	10.82	0.51
		velocity	7.89	10.02	9.60	8.91	9.03	8.83	9.24	
Azarashvili, Maya (URS) (1964)	time	6.30	11.37	16.65	22.33	22.33	6 / 4			
reaction time	0.168	interval	5.07	5.28	5.68		# of strides	11.37	10.96	0.41
		velocity	7.94	9.86	9.47	8.80	8.96	8.80	9.12	
Onyali, Mary (NGR) (1968)	time	6.39	11.53	16.83	22.43	22.43	2 / 5			
reaction time	0.213	interval	5.14	5.30	5.60	PB	# of strides	11.53	10.90	0.63
		velocity	7.82	9.73	9.43	8.93	8.92	8.67	9.17	
Krabbe, Katrin (GDR) (1969)	time	6.33	11.51	16.89	22.59	22.59	4 / 6			
reaction time	0.194	interval	5.18	5.38	5.70		# of strides	11.51	11.08	0.43
		velocity	7.90	9.65	9.29	8.77	8.85	8.69	9.03	
Davis-Thompson, Pauline (BAH) (1964)	time	6.61	11.77	17.10	22.67	22.67	8 / 7			
reaction time	0.320	interval	5.16	5.33	5.57	PB	# of strides	11.77	10.90	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	7.56	9.69	9.38	8.98	8.82	8.50	9.17
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Thomas, Andrea (FRG) (1963)	time	6.39	11.61	17.10	22.91	22.91	1 / 8			
reaction time	0.164	interval	5.22	5.49	5.81		# of strides	11.61	11.30	0.31
	velocity	7.82	9.58	9.11	8.61	8.73	95.2	8.61	8.85	

1988 USA Olympic Trials (Indianapolis, IN)**FINAL**

date 23-Jul-88 wind 1.3 m/s

Veney - 200m women from PJ

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Griffith-Joyner, Florence (USA) (1959)		no information available				21.85	/ 1			
Marshall, Pam (USA) (1960)	time		11.43	16.59	21.93	21.93	/ 2			
reaction time	interval		5.16	5.34	PB		# of strides	11.43	10.50	0.93
	velocity		8.75	9.69	9.36	9.12		8.75	9.52	
Torrence, Gwen (USA) (1965)		no information available				22.02	/ 3			
Brisco, Valerie (USA) (1960)		no information available				22.11	/ 4			
Brown, Alice (USA) (1960)	time		11.39	16.68	22.39	22.39	/ 5			
reaction time	interval		5.29	5.71	PB		# of strides	11.39	11.00	0.39
	velocity		8.78	9.45	8.76	8.93		8.78	9.09	
Young, Dannette (USA) (1964)		no information available				22.52	/ 6			
Vereen, Wenda (USA) (1966)		no information available				22.93	/ 7			
Williams, Diane (USA) (1960)		no information available				22.95	/ 8			

1987 IAAF World Championships (Rome, ITA)

Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)

FINAL

date 03-Sep-87 wind 1.2 m/s

Veney - 200m women from PJ

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Gladisch-Möller, Silke (GDR) (1957)	time	6.13	11.09	16.18	21.74	21.74	3 / 1			
reaction time	0.155	interval	4.96	5.09	5.56	CR / PB	# of strides	11.09	10.65	0.44
	velocity	8.16	10.08	9.82	8.99	9.20	101.5	9.02	9.39	
Griffith-Joyner, Florence (USA) (1959)	time	6.14	11.39	16.50	21.96	21.96	5 / 2			
reaction time	0.141	interval	5.25	5.11	5.46	PB	# of strides	11.39	10.57	0.82
	velocity	8.14	9.52	9.78	9.16	9.11	95.0	8.78	9.46	
Ottey, Merlene (JAM) (1960)	time	6.24	11.35	16.49	22.06	22.06	4 / 3			
reaction time	0.177	interval	5.11	5.14	5.57	PB	# of strides	11.35	10.71	0.64
	velocity	8.01	9.78	9.73	8.98	9.07	92.0	8.81	9.34	
Marshall, Pam (USA) (1960)	time	6.37	11.57	16.75	22.18	22.18	1 / 4			
reaction time	0.195	interval	5.20	5.18	5.43		# of strides	11.57	10.61	0.96
	velocity	7.85	9.62	9.65	9.21	9.02	90.5	8.64	9.43	
Torrence, Gwen (USA) (1965)	time		11.69	16.92	22.40	22.40	8 / 5			
reaction time	interval		5.23	5.48	PB		# of strides	11.69	10.71	0.98
	velocity		8.55	9.56	9.12	8.93		8.55	9.34	
Onyali, Mary (NGR) (1968)	time		11.67	16.90	22.52	22.52	6 / 6			
reaction time	interval		5.23	5.62	PB		# of strides	11.67	10.85	0.82
	velocity		8.57	9.56	8.90	8.88		8.57	9.22	
Kasprzyk, Ewa (POL) (1957)	time		11.68	16.92	22.52	22.52	2 / 7			
reaction time	interval		5.24	5.60			# of strides	11.68	10.84	0.84
	velocity		8.56	9.54	8.93	8.88	101.2	8.56	9.23	
Georgieva, Nadezhda (BUL) (1957)	time		11.68	16.91	22.55	22.55	7 / 8			
reaction time	interval		5.23	5.64			# of strides	11.68	10.87	0.81
	velocity		8.56	9.56	8.87	8.87		8.56	9.20	

Semi-Final 2

date 03-Sep-87 wind -1.9 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
Griffith-Joyner, Florence (USA) (1959)	time	6.39	11.42	16.77	22.38	22.38	5 / 1			
reaction time	0.208	interval	5.03	5.35	5.61		# of strides	11.42	10.96	0.46

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

velocity	7.82	9.94	9.35	8.91	8.94	95.5	8.76	9.12
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Semi-Final 1

date	03-Sep-87	wind	-1.0 m/s	<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>					
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		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Ottey, Merlene (JAM) (1960)	time	6.43	11.60	16.84	22.43	22.43	7 / 1			
	reaction time	0.277					# of strides	11.60	10.83	0.77
	velocity	7.78	9.67	9.54	8.94	8.92	92.2	8.62	9.23	
Gladisch-Möller, Silke (GDR) (1962)	time	6.37	11.40	16.73	22.54	22.54	6 / 2			
	reaction time	0.263					# of strides	11.40	11.14	0.26
	velocity	7.85	9.94	9.38	8.61	8.87	99.0	8.77	8.98	

Heat 4

date	01-Sep-87	wind	-0.6 m/s	<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>					
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		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Griffith-Joyner, Florence (USA)	time	6.37	11.49	16.84	22.56	22.56	4 / 1			
	reaction time	0.229					# of strides	11.49	11.07	0.42
	velocity	7.85	9.77	9.35	8.74	8.87	95.0	8.70	9.03	
Ottey, Merlene (JAM) (1960)	time	6.46	11.78	17.28	23.19	23.19	5 / 3			
	reaction time	0.170					# of strides	11.78	11.41	0.37
	velocity	7.74	9.40	9.09	8.46	8.62	90.5	8.49	8.76	

Heat 1

date	01-Sep-87	wind	-3.4 m/s	<i>Moravec (1990) - time analysis of the sprints - Rome 1987 Scientific Report (2nd ed)</i>					
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		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Gladisch-Möller, Silke (GDR) (1962)	time	6.38	11.42	16.59	22.44	22.44	8 / 1			
	reaction time	0.280					# of strides	11.42	11.02	0.40
	velocity	7.84	9.92	9.67	8.55	8.91		8.76	9.07	

1986 European Championships (Stuttgart, FRG)**FINAL**

date	29-Aug-86	wind	-0.8 m/s	<i>Veney - 200m women from PJ</i>					
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		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Drechsler, Heike (GDR) (1964)	time		11.00	16.14	21.71	21.71	4 / 1			
	reaction time	0.190		5.14	5.57	AR	# of strides	11.00	10.71	0.29
	velocity		9.09	9.73	8.98	9.21		9.09	9.34	
Cazier, Marie-Christine (FRA) (1962)	time		11.36		22.32	22.32	3 / 2			
	reaction time	0.196			10.96	PB	# of strides	11.36	10.96	0.40
	velocity		8.80		9.12	8.96		8.80	9.12	
Gladisch-Möller, Silke (GDR) (1962)	time		11.26		22.49	22.64	6 / 3			
	reaction time	0.233			11.23		# of strides	11.26	11.23	0.03
	velocity		8.88		8.90	8.83		8.88	8.90	
Molokova, Marina (URS) (1962)	time		11.45		22.71	22.71	8 / 4			
	reaction time	0.281			11.26		# of strides	11.45	11.26	0.19
	velocity		8.73		8.88	8.81		8.73	8.88	
Kasprzyk, Ewa (POL) (1957)	time		11.43		22.73	22.73	5 / 5			
	reaction time	0.224			11.30		# of strides	11.43	11.30	0.13
	velocity		8.75		8.85	8.80		8.75	8.85	
Bochina, Natalya (URS) (1962)	time		11.68		22.87	22.87	7 / 6			
	reaction time	0.242			11.19		# of strides	11.68	11.19	0.49
	velocity		8.56		8.94	8.75		8.56	8.94	
Günther-Reiger, Sabine (GDR) (1962)	time		11.63		22.98	22.98	1 / 7			
	reaction time	0.163			11.35		# of strides	11.63	11.35	0.28
	velocity		8.60		8.81	8.70		8.60	8.81	
Zhirova, Marina (URS) (1963)	time		11.66		23.18	23.18	2 / 8			
	reaction time	0.199			11.52		# of strides	11.66	11.52	0.14
	velocity		8.58		8.68	8.63		8.58	8.68	

1986 IAAF World Junior Championships (Athens, GRE)**FINAL**

date	19-Jul-86	wind	0.6 m/s	<i>Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints</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
Ogunkoya, Falilat (NGR) (1968)	time		11.68	17.25	23.11	23.11	/ 1			
	reaction time									
	interval			5.57	5.86	CR	# of strides	11.68	11.43	0.25
	velocity		8.56	8.98	8.53	8.65		8.56	8.75	
Onyali, Mary (NGR) (1968)	time		11.82	17.17	23.30	23.30	/ 2			
	reaction time									
	interval			5.35	6.13		# of strides	11.82	11.48	0.34
	velocity		8.46	9.35	8.16	8.58		8.46	8.71	
Krabbe, Katrin (GDR) (1969)	time		11.56	17.27	23.31	23.31	/ 3			
	reaction time									
	interval			5.71	6.04		# of strides	11.56	11.75	-0.19
	velocity		8.65	8.76	8.28	8.58		8.65	8.51	
Guidry, Carlette (USA) (1968)			no information available			23.46	/ 4			
Kovaloyova, Oksana (URS)			no information available			23.60	/ 5			
Cordes, Ina (FRG) (1968)			no information available			23.65	/ 6			
Leroy, Muriel (FRA) (1968)			no information available			23.69	/ 7			

1985 IAAF World Cup (Canberra, AUS)**FINAL**

date 04-Oct-85

wind -0.7 m/s

Venev - 200m women from PJ

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Koch, Marita (GDR) (1957)	time		11.23	16.41	21.90	21.90	2 / 1			
	reaction time									
	interval			5.18	5.49		# of strides	11.23	10.67	0.56
	velocity		8.90	9.65	9.11	9.13		8.90	9.37	
Jackson, Grace (JAM) (1961)	time		11.56		22.61	22.61	5 / 2			
	reaction time									
	interval				11.05		# of strides	11.56	11.05	0.51
	velocity		8.65		9.05	8.85		8.65	9.05	
Zhirova, Marina (URS) (1963)	time		11.5		22.67	22.67	8 / 3			
	reaction time									
	interval				11.17		# of strides	11.50	11.17	0.33
	velocity		8.70		8.95	8.82		8.70	8.95	
Kasprzyk, Ewa (POL) (1957)	time		11.7		23.05	23.05	6 / 4			
	reaction time									
	interval				11.35		# of strides	11.70	11.35	0.35
	velocity		8.55		8.81	8.68		8.55	8.81	
Marshall, Pam (USA) (1960)	time		12.0		23.15	23.15	7 / 5			
	reaction time									
	interval				11.15		# of strides	12.00	11.15	0.85
	velocity		8.33		8.97	8.64		8.33	8.97	
Chapman, Maree (AUS) (1963)	time		12.0		23.71	23.71	4 / 6			
	reaction time									
	interval				11.71		# of strides	12.00	11.71	0.29
	velocity		8.33		8.54	8.44		8.33	8.54	
Uba, Rufina (NGR) (1959)	time		12.2		24.03	24.03	2 / 7			
	reaction time									
	interval				11.83		# of strides	12.20	11.83	0.37
	velocity		8.20		8.45	8.32		8.20	8.45	
Rao, Vandana (IND) (1963)	time		12.5		24.38	24.38	3 / 8			
	reaction time									
	interval				11.88		# of strides	12.50	11.88	0.62
	velocity		8.00		8.42	8.20		8.00	8.42	

1984 Olympic Games (Los Angeles, CA)**FINAL**

date 09-Aug-84

wind 0.1 m/s

Vogel (1984) - olympische spiele in los angeles

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Brisco-Hooks, Valerie (USA) (1959)	time		11.20		21.81	21.81	7 / 1			
	reaction time	0.200								
	interval				10.61	OR / PB	# of strides	11.20	10.61	0.59
	velocity		8.93		9.43	9.17	96.0	8.93	9.43	
Griffith, Florence (USA) (1959)	time		11.17		22.04	22.04	4 / 2			
	reaction time	0.185								
	interval				10.87	PB	# of strides	11.17	10.87	0.30
	velocity		8.95		9.20	9.07	93.0	8.95	9.20	
Ottey, Merlene (JAM) (1960)	time		11.26		22.09	22.09	2 / 3			

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

reaction time	0.193	interval		10.83	PB	# of strides	11.26	10.83	0.43
		velocity	8.88	9.23	9.05	92.0	8.88	9.23	
Smallwood-Cook, Kathy (GBR)	time		11.37	22.10	22.10	3 / 4			
reaction time	0.142	interval		10.73	NR	# of strides	11.37	10.73	0.64
		velocity	8.80	9.32	9.05	90.0	8.80	9.32	
Jackson, Grace (JAM) (1961)	time		11.44	22.18	22.20	8 / 5			
reaction time	0.243	interval		10.74	PB	# of strides	11.44	10.74	0.70
		velocity	8.74	9.31	9.01		8.74	9.31	
Givens, Randy (USA) (1962)	time		11.51	22.36	22.36	5 / 6			
reaction time	0.184	interval		10.85		# of strides	11.51	10.85	0.66
		velocity	8.69	9.22	8.94	98.0	8.69	9.22	
Bacoul, Rose-Aimée (FRA) (1955)	time		11.48	22.78	22.78	6 / 7			
reaction time	0.256	interval		11.30		# of strides	11.48	11.30	0.18
		velocity	8.71	8.85	8.78		8.71	8.85	
Gaschet, Liliane (FRA) (1962)	time		11.67	22.86	22.86	1 / 8			
reaction time	0.192	interval		11.19		# of strides	11.67	11.19	0.48
		velocity	8.57	8.94	8.75		8.57	8.94	

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

	date	21-Jul-84	wind	0.3 m/s	<i>Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen</i>						
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Koch, Marita (GDR) (1957)	time			11.06		21.71	21.71	/ 1			
reaction time		interval				10.65	WR	# of strides	11.06	10.65	0.41
		velocity		9.04		9.39	9.21		9.04	9.39	
Wöckel, Bärbel (GDR) (1955)	time			11.27		21.85	21.85	/ 2			
reaction time		interval				10.58	PB	# of strides	11.27	10.58	0.69
		velocity		8.87		9.45	9.15		8.87	9.45	

1984 East German National Championships (Erfurt, GDR)**FINAL**

	date	03-Jun-84	wind	0.4 m/s	<i>Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen</i>						
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Göhr, Marlies (GDR) (1958)	time			11.18		21.74	21.74	/ 1			
reaction time		interval				10.56	PB	# of strides	11.18	10.56	0.62
		velocity		8.94		9.47	9.20		8.94	9.47	

1983 IAAF World Championships (Helsinki, FIN)**FINAL**

	date	14-Aug-83	wind	1.5 m/s	<i>Moravec (1986) - IAAF biomechanical research - Athens 1986 - sprints</i>						
			50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Koch, Marita (GDR) (1957)	time			11.28	16.53	22.13	22.13	6 / 1			
reaction time	0.225	interval			5.25	5.60	CR	# of strides	11.28	10.85	0.43
		velocity		8.87	9.52	8.93	9.04	99.0	8.87	9.22	
Ottey, Merlene (JAM) (1960)	time			11.42	16.64	22.19	22.19	7 / 2			
reaction time	0.165	interval			5.22	5.55		# of strides	11.42	10.77	0.65
		velocity		8.76	9.58	9.01	9.01	93.5	8.76	9.29	
Smallwood-Cook, Kathy (GBR)	time			11.55	16.78	22.37	22.37	3 / 3			
reaction time	0.213	interval			5.23	5.59		# of strides	11.55	10.82	0.73
		velocity		8.66	9.56	8.94	8.94	91.0	8.66	9.24	
Griffith, Florence (USA) (1959)	time			11.56	16.80	22.46	22.46	1 / 4			
reaction time	0.161	interval			5.24	5.66		# of strides	11.56	10.90	0.66
		velocity		8.65	9.54	8.83	8.90	97.5	8.65	9.17	
Jackson, Grace (JAM) (1961)	time			11.67	16.97	22.63	22.63	8 / 5			
reaction time	0.164	interval			5.30	5.66	PB	# of strides	11.67	10.96	0.71
		velocity		8.57	9.43	8.83	8.84	85.2	8.57	9.12	
Nuneva, Anelia (BUL) (1962)	time			11.58	16.94	22.68	22.68	5 / 6			

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DV=Drug Violation

reaction time	0.201	interval		5.36	5.74	PB	# of strides	11.58	11.10	0.48
		velocity		8.64	9.33	8.71	8.82	100.5	8.64	9.01

Bailey, Angela (CAN) (1962)	time			11.66	17.09	22.93	22.93	2 / 7			
	reaction time	0.237	interval		5.43	5.84		# of strides	11.66	11.27	0.39
			velocity		8.58	9.21	8.56	8.72	102.5	8.58	8.87

Kasprzyk, Ewa (POL) (1957)	time			11.71	17.14	23.03	23.03	4 / 8			
	reaction time	0.202	interval		5.43	5.89		# of strides	11.71	11.32	0.39
			velocity		8.54	9.21	8.49	8.68	107.2	8.54	8.83

1982 European Championships (Athens, GRE)

FINAL

date 09-Sep-82 wind 0.9 m/s *Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen*

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Wöckel, Bärbel (GDR) (1955)	no information available				22.04	/ 1			

Smallwood, Kathy (GBR) (1960)	time			11.44	22.13	22.13	/ 2			
	reaction time		interval		10.69	NUR	# of strides	11.44	10.69	0.75
			velocity		8.74	9.35	9.04	8.74	9.35	

1982 GDR vs. USA (Karl-Marx-Stadt, GDR)

FINAL

date 09-Sep-82 wind 0.9 m/s *Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen*

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
???	no information available				???	/ 1			

Walther, Gesine (GDR) (1962)	time			11.27	22.24	22.24	/ 2			
	reaction time		interval		10.97	PB	# of strides	11.27	10.97	0.30
			velocity		8.87	9.12	8.99	8.87	9.12	

1981 IAAF World Cup (Rome, ITA)

FINAL

date 04-Sep-81 wind 0.7 m/s *Veney - 200m women from PJ*

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential	
Ashford, Evelyn (USA) (1957)		11.10		22.18	22.18	/ 1				
	reaction time		interval		11.08		# of strides	11.10	11.08	0.02
			velocity		9.01	9.03	9.02	9.01	9.03	

Kratochvilova, Jarmila (TCH) (1951)	no information available				22.93	/ 2			
Wöckel, Bärbel (GDR) (1955)	no information available				23.03	/ 3			
Taylor, Angella (CAN) (1958)	no information available				22.93	/ 4			
Bochina, Natalya (URS) (1962)	no information available				23.03	/ 5			
Masullo, Marisa (ITA) (1959)	no information available				22.93	/ 6			
Edwards, Helen (AUS) (1958)	no information available				23.03	/ 7			
Afriyie, Hannah (GHA) (1951)	no information available				22.93	/ 8			
Koniski, Emiko (JPN)	no information available				23.03	/ 9			

1980 Olympic Games (Moscow, URS)

FINAL

date 30-Jul-80 wind 1.4 m/s *Veney - 200m women from PJ*

	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential		
Eckert-Wöckel, Bärbel (GDR) (1955)		11.46	16.59	22.03	22.03	1 / 1					
	reaction time	0.140	interval		5.13	5.44	OR	# of strides	11.46	10.57	0.89
			velocity		8.73	9.75	9.19	9.08	101.5	8.73	9.46

Bochina, Natalya (URS) (1962)	time			11.43	16.70	22.19	22.19	6 / 2			
	reaction time	0.166	interval		5.27	5.49	AJR	# of strides	11.43	10.76	0.67
			velocity		8.75	9.49	9.11	9.01	95.2	8.75	9.29

Ottey, Merlene (JAM) (1960)	time			11.51	16.71	22.20	22.20	3 / 3			
	reaction time	0.157	interval		5.20	5.49	PB	# of strides	11.51	10.69	0.82
			velocity		8.69	9.62	9.11	9.01	89.7	8.69	9.35

Müller, Romy (GDR) (1958)	time			11.59	16.90	22.47	22.47	8 / 4			
	reaction time	0.128	interval		5.31	5.57	PB	# of strides	11.59	10.88	0.71
			velocity		8.63	9.42	8.98	8.90	8.63	9.19	

Smallwood, Kathy (GBR) (1960)	time			11.79	17.06	22.61	22.61	7 / 5		
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WR=World Rec. AR=Area Rec. OR=Olympic Rec. CR=Championship Rec. NR=National Rec. PB=Personal Best DQ=Disqualified
DV=Drug Violation

reaction time	0.176	interval	5.27	5.55		# of strides	11.79	10.82	0.97
		velocity	8.48	9.49	9.01	8.85	8.48	9.24	
Callender, Beverley (GBR) (1956)	time		11.82	17.08	22.72	22.72	5 / 6		
reaction time	0.171	interval	5.26	5.64	PB	# of strides	11.82	10.90	0.92
		velocity	8.46	9.51	8.87	8.80	8.46	9.17	
Boyd, Denise (AUS) (1952)	time		11.66	17.05	22.76	22.76	4 / 7		
reaction time	0.144	interval	5.39	5.71		# of strides	11.66	11.10	0.56
		velocity	8.58	9.28	8.76	8.79	8.58	9.01	
Lannaman, Sonia (GBR) (1956)	time		11.81	17.16	22.80	22.80	2 / 8		
reaction time	0.154	interval	5.35	5.64		# of strides	11.81	10.99	0.82
		velocity	8.47	9.35	8.87	8.77	8.47	9.10	

1979 World Cup (Montreal, CAN)**FINAL**date 24-Aug-79 wind -0.2 m/s *Tabatshnik (1986) - sprinting - versatility or specialization?*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Ashford, Evelyn (USA) (1957)		no information available				21.83	/ 1			
Koch, Marita (GDR) (1957)		no information available				23.23	/ 2			
Kondratyeva, Lyudmila (URS) (1957)	time	11.56	16.88	22.66	22.66		/ 3			
reaction time	interval		5.32	5.78		# of strides	11.56	11.10	0.46	
	velocity	8.65	8.89	8.65	8.83		8.65	9.01		
Richter, Annegret (FRG) (1950)		no information available				22.78	/ 4			
Taylor, Angella (CAN) (1958)		no information available				22.83	/ 5			
Afriyie, Hannah (GHA) (1951)		no information available				23.61	/ 6			
Robertson, Kim (NZL) (1957)		no information available				23.78	/ 7			
Kalhara, Sumiko (JPN) (1956)		no information available				24.60	/ 8			

1979 East German Club Cup (Karl-Marx-Stadt, GDR)**FINAL**date 27-May-79 wind 2.6 m/s *Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Koch, Marita (GDR) (1957)	time	11.24			21.85	21.85	/ 1			
reaction time	interval				10.61		# of strides	11.24	10.61	0.63
	velocity	8.90			9.43	9.15		8.90	9.43	

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
Kondratyeva, Lyudmila (URS) (1957)	time				CR / NR	22.52	7 / 1		# of strides	101.7
Göhr, Marlies (GDR) (1958)	time	11.49			22.53	22.53	3 / 2			
reaction time	0.208	interval			11.04		# of strides	11.49	11.04	0.45
	velocity	8.70			9.06	8.88	109.5	8.70	9.06	
Bodendorf, Carla (GDR) (1953)		no information available				22.64	5 / 3		# of strides	105.5
Hamann, Monika (GDR) (1954)		no information available				22.76	4 / 4		# of strides	104.0
Rega, Chantal (FRA) (1955)		no information available				22.77	8 / 5		# of strides	102.5
Maslakova, Ludmilla (URS) (1952)		no information available				22.89	6 / 6		# of strides	96.7
Haglund, Linda (SWE) (1956)		no information available				23.07	2 / 7		# of strides	98.7
Ivanova, Lilyana (BUL) (1956)		no information available				23.23	1 / 8		# of strides	99.5

1976 Olympic Games (Montreal, CAN)**FINAL**date 28-Jul-76 wind 0.0 m/s *Butler (2016) - IAAF statistics handbook- special edition: Games of the XXXI Olympiad- Rio 2016*
Breizer (1984) - sprint competition analysis

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Eckert-Wöckel, Bärbel (GDR) (1956)	time	11.32	16.82	22.37	22.37	22.37	2 / 1			<i>Breizer (1984)</i>
reaction time	interval		5.50	5.55	OR	# of strides	11.32	11.05	0.27	
	velocity	8.83	9.09	9.01	8.94		8.83	9.05		
Richter, Annegret (FRG) (1956)	time	11.2			22.4	22.39	5 / 2			<i>Butler (2016)</i>
reaction time	interval				11.20		# of strides	11.20	11.20	0.00
	velocity	8.93			8.93	8.93		8.93	8.93	

Stecher, Renate (GDR) (1950)	time	11.37	17.01	22.47	22.47	8 / 3				<i>Breizer (1984)</i>
reaction time	interval		5.64	5.46		# of strides	11.37	11.10	0.27	
	velocity	8.80	8.87	9.16	8.90		8.80	9.01		
Bodendorf, Carla (GDR) (1953)	time	11.39	16.90	22.64	22.64	4 / 4				<i>Breizer (1984)</i>
reaction time	interval		5.51	5.74		# of strides	11.39	11.25	0.14	
	velocity	8.78	9.07	8.71	8.83		8.78	8.89		
Helten, Inge (FRG) (1950)	time	11.45	17.02	22.68	22.68	7 / 5				<i>Breizer (1984)</i>
reaction time	interval		5.57	5.66		# of strides	11.45	11.23	0.22	
	velocity	8.73	8.98	8.83	8.82		8.73	8.90		
Prorochenko, Tatyana (URS) (1951)	time	11.5	23.0	23.03	23.03	1 / 6				<i>Butler (2016)</i>
reaction time	interval			11.50		# of strides	11.50	11.50	0.00	
	velocity	8.70		8.70	8.68		8.70	8.70		
Robertson, Denise (AUS) (1952)	time	11.5	23.1	23.05	23.05	3 / 7				<i>Butler (2016)</i>
reaction time	interval			11.60		# of strides	11.50	11.60	-0.10	
	velocity	8.70	8.62	8.68	8.70		8.70	8.62		
Rega, Chantal (FRA) (1952)	time	11.5	23.1	23.09	23.09	6 / 8				<i>Butler (2016)</i>
reaction time	interval			11.60		# of strides	11.50	11.60	-0.10	
	velocity	8.70	8.62	8.66	8.70		8.70	8.62		

*Breizer (1984) - sprint competition analysis***Semi-Final 2**date 28-Jul-76 wind 0.0 m/s *Lamare (1976) - les jeux de la XXI olympia, Montreal 1976*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Eckert-Wöckel, Bärbel (GDR) (1951)	time	11.52			22.71	22.71	5 / 1			<i>Lamare (1976)</i>
reaction time	interval				11.19		# of strides	11.52	11.19	0.33
	velocity	8.68			8.94	8.81		8.68	8.94	
Robertson, Denise (AUS) (1952)	time	11.43	17.13	22.91	22.91	22.91	7 / 3			<i>Breizer (1984)</i>
reaction time	interval		5.70	5.78	PB		# of strides	11.43	11.48	-0.05
	velocity	8.75	8.77	8.65	8.73	8.73		8.75	8.71	
Réga, Chantal (FRA) (1955)	time	11.60	17.21	23.00	23.00	23.00	5 / 4			<i>Breizer (1984)</i>
reaction time	interval		5.61	5.79	PB		# of strides	11.60	11.40	0.20
	velocity	8.62	8.91	8.64	8.70	8.70		8.62	8.77	

Semi-Final 1date 28-Jul-76 wind 0.0 m/s *Lamare (1976) - les jeux de la XXI olympia, Montreal 1976*

		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Stecher, Renate (GDR) (1950)	time	11.50			22.68	22.68	1 / 1			
reaction time	interval				11.18		# of strides	11.50	11.18	0.32
	velocity	8.70			8.94	8.82		8.70	8.94	

1976 USA Olympic Trials (Eugene, OR)**FINAL**date 24-Jun-76 wind 2.3 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
Morehead, Brenda (USA) (1957)	time	11.4			22.5	22.49	1 / 1			
reaction time	interval				11.1		# of strides	11.40	11.10	0.30
	velocity	8.77			9.01	8.89		8.77	9.01	
Cheeseborough, Chandra (USA) (1954)	time	11.5			22.6	22.64	1 / 2			
reaction time	interval				11.1		# of strides	11.50	11.10	0.40
	velocity	8.70			9.01	8.83		8.70	9.01	
Edwards, Debra (USA) (1954)	time	11.8			22.8	22.74	1 / 3			
reaction time	interval				11.0		# of strides	11.80	11.00	0.80
	velocity	8.47			9.09	8.80		8.47	9.09	
Jiles, Pam (USA) (1955)						23.16	1 / 4			
Greene, Pam (USA)						23.33	1 / 5			
Hancock, Freida (USA)						23.44	1 / 6			
Cordy, Linda (USA)						23.51	1 / 7			
Day, Beverly (USA)						23.54	1 / 8			

1973 East German Spitzenklasse (Dresden, GDR)**FINAL**

		date	21-Jul-73	wind	1.6 m/s	<i>Breizer (1984) - sprint competition analysis</i>						
				50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Stecher, Renate (GDR) (1950)	time				11.32	16.86	22.38	22.38				
	reaction time	interval				5.54	5.52	WR	# of strides	11.32	11.06	0.26
		velocity			8.83	9.03	9.06	8.94		8.83	9.04	

1972 Olympic Games (Munich, FRG)**FINAL**

		date	09-Jul-72	wind	1.1 m/s	<i>Gundlach (1973) - beobachtungsergebnisse in der leichtathletik</i>							
					50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Stecher, Renate (GDR) (1950)	time				11.28	16.54	22.40	22.40	22.40	6 / 1			
	reaction time	interval					5.26	5.86	=WR	# of strides	11.28	11.12	0.16
		velocity			8.87	9.51	8.53	8.93	8.93	105.0	8.87	8.99	
Boyle, Raelene (AUS) (1951)	time				11.48	16.72	22.45	22.45	22.45	4 / 2			
	reaction time	interval					5.24	5.73		# of strides	11.48	10.97	0.51
		velocity			8.71	9.54	8.73	8.91	8.91	105.0	8.71	9.12	
Szewinska, Irena (POL) (1946)	time				11.66	17.02	22.74	22.74	22.74	5 / 3			
	reaction time	interval					5.36	5.72		# of strides	11.66	11.08	0.58
		velocity			8.58	9.33	8.74	8.80	8.80	89.2	8.58	9.03	
Streidt, Ellen (GDR) (1952)	time				11.64	17.04	22.75	22.75	22.75	3 / 4			
	reaction time	interval					5.40	5.71		# of strides	11.64	11.11	0.53
		velocity			8.59	9.26	8.76	8.79	8.79	102.2	8.59	9.00	
Heinich, Christina (GDR) (1952)	time				11.73	17.08	22.89	22.89	22.89	7 / 5			
	reaction time	interval					5.35	5.81		# of strides	11.73	11.16	0.57
		velocity			8.53	9.35	8.61	8.74	8.74	100.0	8.53	8.96	
Kroniger, Annegret (FRG) (1952)	time				11.67	17.10	22.89	22.89	22.89	1 / 5			
	reaction time	interval					5.43	5.79		# of strides	11.67	11.22	0.45
		velocity			8.57	9.21	8.64	8.74	8.74	95.5	8.57	8.91	
Annum, Alice (GHA) (1948)	time				11.54	17.00	22.99	22.99	22.99	8 / 7			
	reaction time	interval					5.46	5.99		# of strides	11.54	11.45	0.09
		velocity			8.67	9.16	8.35	8.70	8.70	102.2	8.67	8.73	
Allwood, Rose (JAM) (1952)	time				11.61	17.14	23.11	23.11	23.11	2 / 8			
	reaction time	interval					5.53	5.97		# of strides	11.61	11.50	0.11
		velocity			8.61	9.04	8.38	8.65	8.65	92.2	8.61	8.70	

1969 European Championships (Athens, GRE)**Heat 2**

		date	18-Sep-69	wind	-2.0 m/s	<i>(1964) - einschätzung der einzelnen leichtathletischen disziplinen</i>							
					50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Samotyosova, Lyudmila (URS)	time							24.3	24.2	1 / 2			
	reaction time	interval						12.40		# of strides	11.90	12.40	-0.50
		velocity						8.40	8.26		8.40	8.06	

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

		date	18-Oct-68	wind	2.0 m/s								
					50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Szewinska, Irena (POL) (1946)					no information available			WR	22.5	7 / 1	(22.58)	# of strides	99.5
Boyle, Raelene (AUS) (1951)					no information available				22.7	6 / 2	(22.74)	# of strides	103.5
Lamy, Jennifer (AUS) (1949)					no information available				22.8	5 / 3	(22.88)	# of strides	100.0
Ferrell, Barbara (USA) (1947)					no information available				22.9	1 / 4	(22.93)		
Montandon, Nicole (FRA) (1948)					no information available				23.0	4 / 5	(23.08)		
Tyus, Wyomia (USA) (1945)					no information available				23.0	3 / 6	(23.08)		
Bailes, Margaret (USA) (1951)					no information available				23.1	2 / 7	(23.18)		
Stöck, Jutta (FRG) (1941)					no information available				23.2	8 / 8	(23.25)		

1964 Olympic Games (Tokyo, JPN)**FINAL**

		date	19-Oct-64	wind	0.8 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

McGuire, Edith (USA) (1944)	no information available	OR	23.0	2 / 1	(23.05)
Kirszenstein, Irena (POL) (1946)	no information available		23.1	4 / 2	(23.13)
Black, Marilyn (AUS) (1944)	no information available		23.1	8 / 3	(23.18)
Morris, Una (JAM) (1947)	no information available		23.5	1 / 4	(23.58)
Samotysova, Lyudmila (URS) (1939)	no information available		23.5	6 / 5	(23.59)
Sobotta, Barbara (POL) (1936)	no information available		23.9	3 / 6	(23.97)
Simpson, Janet (GBR) (1944)	no information available		23.9	5 / 7	(23.98)
Arden, Daphne (GBR) (1941)	no information available		24.0	7 / 8	(24.01)

1963 International Sportweek (Tokyo, JPN)**FINAL**

date	13-Oct-63	wind	???	(1964) - einschätzung der einzelnen leichtathletischen disziplinen						
		50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Popkova, Vera (URS) (1943)	time	★	12.0	★	24.3	24.30	/ 2			
	reaction time				12.3		# of strides	12.00	12.30	-0.30
	interval				8.13	8.23		8.33	8.13	
	velocity									

1960 Olympic Games (Rome, ITA)**FINAL**

date	05-Sep-60	wind	against	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Rudolph, Wilma (USA) (1940)				no information available				24.0	1 / 1	(24.13)	# of strides	95.2
Heine, Jutta (EUA/FRG) (1940)				no information available				24.4	5 / 2	(24.58)		
Hyman, Dorthy (GBR) (1941)				no information available				24.7	4 / 3	(24.82)		
Itkina, Mariya (URS) (1932)				no information available				24.7	3 / 4	(24.85)		
Janiszewska, Barbara (POL) (1936)				no information available				24.8	6 / 5	(24.96)		
Leone, Guiseppina (ITA) (1934)				no information available				24.9	2 / 6	(25.01)		

1956 Olympic Games (Melbourne, AUS)**FINAL**

date	30-Nov-56	wind	legal	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Cuthbert, Betty (AUS) (1938)				no information available			=OR	23.4	5 / 1	(23.55)	# of strides	98.2
Stubnick, Christa (EUA/GDR) (1933)				no information available				23.7	6 / 2	(23.89)	# of strides	103.0
Mathews, Marlene (AUS) (1934)				no information available				23.8	1 / 3	(24.10)	# of strides	105.0
Croker, Norma (AUS) (1934)				no information available				24.0	4 / 4	(24.22)	# of strides	97.0
Paul, June (GBR) (1934)				no information available				24.3	2 / 5	(24.30)	# of strides	104.0
Köhler, Gisela (GDR) (1931)				no information available				24.3	3 / 6	(24.68)	# of strides	104.7

1952 Olympic Games (Helsinki, FIN)**FINAL**

date	26-Jul-52	wind	legal	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Jackson, Marjorie (AUS) (1931)				no information available				23.7	2 / 1	(23.89)		
Brouwer, Bertha (NED) (1930)				no information available				24.2	3 / 2	(24.25)		
Khnykina, Nadezhda (URS) (1933)				no information available				24.2	6 / 3	(24.37)		
Cripps, Winsome (AUS) (1931)				no information available				24.2	5 / 4	(24.40)		
Klein, Helga (FRG) (1931)				no information available				24.6	7 / 5	(24.72)		
Hasenjager, Daphne (RSA) (1929)				no information available				24.6	4 / 6	(24.72)		

1948 Olympic Games (London, GBR)**FINAL**

date	06-Aug-48	wind	0.0 m/s	50m	100m	150m	200m	Official Time	Lane / Place	0-100m	100-200m	Differential
Blankers-Koen, Fanny (NED) (1918)				no information available				24.4	2 / 1		# of strides	98.5
Williamson, Audrey (GBR) (1926)				no information available				25.1	5 / 2			
Patterson, Audrey (USA) (1926)				no information available				25.2	6 / 3			
Strickland, Shirley (AUS) (1925)				no information available				25.2e	3 / 4			
Walker, Margaret (GBR) (1925)				no information available				25.4e	4 / 5			
Robb, Daphne (RSA) (1929)				no information available				25.5e	7 / 6			