

Women's 400m Hurdles Touchdown Times - by athletics meeting

LAST UPDATE: 5-Mar-25

2024 Chinese National Championships (Quzhou, CHN)

FINAL

date 16-Sep-24

Shandong Athletics Sport Science (2024)

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Kong Yingying (CHN) (2003)	time		6.62	10.96	15.43	20.00	24.57		29.46	34.38	39.49	44.64	49.93		55.87	5 / 1				
	reaction time	0.188							4.89	4.92	5.11	5.15	5.29	5.94	PB		13.38	14.38	15.55	
		interval																		
		velocity		6.80	8.06	7.83	7.66	7.66		7.16	7.11	6.85	6.80	6.62	6.73	7.16		7.85	7.30	6.75
	H1 lead leg	L	strides	23	15	16	16	15	16	16	17	17	17	20.2	188.2					
Lu Zhangwei (CHN) (2001)	time		6.44	10.69	14.98	19.32	23.82		28.62	33.63	38.82	44.31	49.90		56.25	6 / 2				
	reaction time	0.195							4.80	5.01	5.19	5.49	5.59	6.35	PB		12.88	14.31	16.27	
		interval			4.25	4.29	4.34	4.50		7.29	6.99	6.74	6.38	6.26	6.30	7.11		8.15	7.34	6.45
		velocity		6.99	8.24	8.16	8.06	7.78												
	H1 lead leg	R	strides	24	16	16	16	16	17	17	17	18	18	21.2	196.2					
Ding Yirui (CHN) (2002)	time		6.64	10.98	15.43	19.95	24.64		29.68	34.80	40.17	45.69	51.33		57.70	4 / 3				
	reaction time	0.244							5.04	5.12	5.37	5.52	5.64	6.37			13.31	14.85	16.53	
		interval			4.34	4.45	4.52	4.69		6.94	6.84	6.52	6.34	6.21	6.28	6.93		7.89	7.07	6.35
		velocity		6.78	8.06	7.87	7.74	7.46												
	H1 lead leg	L	strides	22	15	15	15	15	16	16	17	17	17	20	185					
Liu Wei (CHN) (2001)	time		6.86	11.36	15.98	20.64	25.39		30.30	35.20	40.35	45.69	51.28		57.76	2 / 4				
	reaction time	0.246							4.91	4.90	5.15	5.34	5.59	6.48	PB		13.78	14.56	16.08	
		interval			4.50	4.62	4.66	4.75		7.13	7.14	6.80	6.55	6.26	6.17	6.93		7.62	7.21	6.53
		velocity		6.56	7.78	7.58	7.51	7.37												
	H1 lead leg	L	strides	23	16	16	16	16	16	16	17	17	17	21	191					
Chen Liying (CHN) (1994)	time		6.69	11.16	15.75	20.32	25.11		30.13	35.27	40.60	46.06	51.93		58.54	8 / 5				
	reaction time	0.185							5.02	5.14	5.33	5.46	5.87	6.61			13.63	14.95	16.66	
		interval			4.47	4.59	4.57	4.79		6.97	6.81	6.57	6.41	5.96	6.05	6.83		7.70	7.02	6.30
		velocity		6.73	7.83	7.63	7.66	7.31												
	H1 lead leg	R	strides	24	16	16	16	16	17	17	17	17	18	21.5	195.5					
Wang Jiuxiang (CHN) (2001)	time		6.86	11.51	16.11	20.77	25.64		30.70	35.82	41.16	46.74	52.40		58.80	7 / 6				
	reaction time	0.217							5.06	5.12	5.34	5.58	5.66	6.40			13.91	15.05	16.58	
		interval			4.65	4.60	4.66	4.87		6.92	6.84	6.55	6.27	6.18	6.25	6.80		7.55	6.98	6.33
		velocity		6.56	7.53	7.61	7.51	7.19												
	H1 lead leg	L	strides	24	16	16	16	16	17	17	17	18	18	21	196					
Tao Xue (CHN) (1999)	time		6.92	11.33	15.90	20.47	25.14		30.10	35.35	40.79	46.40	52.28		59.10	3 / 7				
	reaction time	0.327							4.96	5.25	5.44	5.61	5.88	6.82			13.55	14.88	16.93	
		interval			4.41	4.57	4.57	4.67		7.06	6.67	6.43	6.24	5.95	5.87	6.77		7.75	7.06	6.20
		velocity		6.50	7.94	7.66	7.66	7.49												
	H1 lead leg	L	strides	23	15	15	15	16	16	17	17	17	17	20	188					
Ou Ying (CHN) (2001)	time		6.96	11.46	16.10	20.79	25.57		30.44	35.75	41.07	46.71	52.60		59.12	1 / 8				
	reaction time	0.240							4.87	5.31	5.32	5.64	5.89	6.52			13.83	14.96	16.85	
		interval			4.50	4.64	4.69	4.78		7.19	6.59	6.58	6.21	5.94	6.13	6.77		7.59	7.02	6.23
		velocity		6.47	7.78	7.54	7.46	7.32												
	H1 lead leg	L	strides	23	16	16	16	16	16	17	17	18	18	21	194					

2024 Memorial van damme (Brussels, BEL)

FINAL

date 14-Sep-24

Omega Timing (2024) - diamond league race analysis

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Boi, Femke (NED) (2000)	time		6.27	10.30	14.42	18.63	22.95		27.41	32.01	36.83	41.78	46.72		52.45	5 / 1				
	reaction time	0.213							4.46	4.60	4.82	4.95	4.94	5.73			12.36	13.38	14.71	
		interval			4.03	4.12	4.21	4.32		7.85	7.61	7.26	7.07	7.09	6.98	7.63		8.50	7.85	7.14
		velocity		7.18	8.68	8.50	8.31	8.10												
	H1 lead leg	L	strides	21	14	14	14	14	14	14	15	15	15	19	169					
Cockrell, Anna (USA) (1997)	time		6.21	10.17	14.30	18.58	22.96		27.49	32.18	37.06	42.08	47.37		53.71	4 / 2				
	reaction time	0.168							4.53	4.69	4.88	5.02	5.29	6.34			12.37	13.60	15.19	
		interval			3.96	4.13	4.28	4.38		7.73	7.46	7.17	6.97	6.62	6.31	7.45		8.49	7.72	6.91
		velocity		7.25	8.84	8.47	8.18	7.99												
	H1 lead leg	L	strides	22	14	14	14	14	14	15	15	16	16	19.7	173.7					
Salmon, Shiann (JAM) (1999)	time		6.19	10.28	14.44	18.73	23.12		27.66	32.33	37.21	42.23	47.42		53.99	7 / 3				
	reaction time	0.197							4.54	4.67	4.88	5.02	5.19	6.57			12.54	13.60	15.09	
		interval			4.09	4.16	4.29	4.39		7.71	7.49	7.17	6.97	6.74	6.09	7.41		8.37	7.72	6.96
		velocity		7.27	8.56	8.41	8.16	7.97												
	H1 lead leg	L	strides	22			14		15	15	15	16		20	117					
Little, Shamier (USA) (1995)	time		6.17	10.22	14.34	18.54	22.86		27.38	32.07	37.05	42.36	48.14		55.26	6 / 4				
	reaction time	0.199							4.52	4.69	4.98	5.31	5.78	7.12			12.37	13.53	16.07	
		interval			4.05	4.12	4.20	4.32		7.74	7.46	7.03	6.59	6.06	5.62	7.24		8.49	7.76	6.53
		velocity		7.29	8.64	8.50	8.33	8.10												
	H1 lead leg	R	strides	23			15		15	15	16	16	17	20.7	137.7					
Folorunso, Ayomide (ITA) (1999)	time		6.51	10.80	15.15	19.55	24.04		28.71	33.55	38.53	43.63	48.99		55.37	8 / 5				
	reaction time	0.204							4.67	4.84	4.98	5.10	5.36	6.38			13.04	14.00	15.44	
		interval			4.29	4.35	4.40	4.49		7.49	7.23	7.03	6.86	6.53	6.27	7.22		8.05	7.50	6.80
		velocity		6.91	8.16	8.05	7.95	7.80												
	H1 lead leg	R	strides	23			15		16	16	16	16		20.5	122.5					
Couckuyt, Paulien (BEL) (1999)	time		6.40	10.46	14.66	19.05	23.57		28.31	33.35	38.49	43.76	49.18		55.66	1 / 6				
	reaction time	0.172							4.74	5.04	5.14	5.27	5.42	6.48			12.65	14.30	15.83	
		interval			4.06	4.20	4.39	4.52		7.38	6.94	6.81	6.64	6.46	6.17	7.19		8.30	7.34	6.63
		velocity		7.03	8.62	8.33	7.97	7.74												
	H1 lead leg	L	strides	23			15		16	16	17	17	18	21.2	143.2					

Russell, Janieve (JAM) (1993)	time	6.34	10.40	14.62	18.92	23.37	27.98	32.84	37.96	43.38	49.10		55.94	3 / 7				
	reaction time	0.174	interval	4.06	4.22	4.30	4.45	4.61	4.86	5.12	5.42	5.72	6.84		12.58	13.92	16.26	
			velocity	7.10	8.62	8.29	8.14	7.87	7.59	7.20	6.84	6.46	6.12	5.85	7.15	8.35	7.54	6.46
	H1 lead leg	R	strides	23			15	15	16	16	17	17	20	139				
Knight, Andrenette (JAM) (1993)	time	6.24	10.24	14.41	18.74	23.29	28.07	33.07	38.26	43.79	49.58		56.70	2 / 8				
	reaction time	0.165	interval	4.00	4.17	4.33	4.55	4.78	5.00	5.19	5.53	5.79	7.12		12.50	14.33	16.51	
			velocity	7.21	8.75	8.39	8.08	7.69	7.32	7.00	6.74	6.33	6.04	5.62	7.05	8.40	7.33	6.36
	H1 lead leg	R	strides	23			15	16	16	16	17	17	20.7	140.7				

2024 Weltklasse (Züich, SUI)**FINAL**

date 05-Sep-24

Omega Timing (2024) - diamond league race analysis

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Salmon, Shiann (JAM) (1999)	time	6.23	10.31	14.54	18.81	23.13		27.62	32.29	37.03	41.98	47.04		52.97	6 / 1			
	reaction time	0.176	interval	4.08	4.23	4.27	4.32	4.49	4.67	4.74	4.95	5.06	5.93	PB		12.58	13.48	14.75
			velocity	7.22	8.58	8.27	8.20	8.10	7.80	7.49	7.38	7.07	6.92	6.75	7.55	8.35	7.79	7.12
	H1 lead leg	R	strides	21	14	14	14	14	14	15	15	16	16	19.5	172.5			
Cockrell, Anna (USA) (1997)	time	6.07	9.99	14.10	18.23	22.53		27.09	31.83	36.77	41.75	46.96		53.17	4 / 2			
	reaction time	0.152	interval	3.92	4.11	4.13	4.30	4.56	4.74	4.94	4.98	5.21	6.21			12.16	13.60	15.13
			velocity	7.41	8.93	8.52	8.47	8.14	7.68	7.38	7.09	7.03	6.72	6.44	7.52	8.63	7.72	6.94
	H1 lead leg	L	strides	21	13	13	13	14	14	14	15	15	20	167				
Little, Shamier (USA) (1995)	time	6.12	10.15	14.28	18.43	22.67		27.04	31.64	36.51	41.66	47.09		54.07	5 / 3			
	reaction time	0.174	interval	4.03	4.13	4.15	4.24	4.37	4.60	4.87	5.15	5.43	6.98			12.31	13.21	15.45
			velocity	7.35	8.68	8.47	8.43	8.25	8.01	7.61	7.19	6.80	6.45	5.73	7.40	8.53	7.95	6.80
	H1 lead leg	R	strides	23	15	15	15	15	15	15	16	16	17	20.2	182.2			
Russell, Janieve (JAM) (1993)	time	6.26	10.29	14.47	18.68	23.05		27.58	32.28	37.23	42.45	48.05		54.75	7 / 4			
	reaction time	0.185	interval	4.03	4.18	4.21	4.37	4.53	4.70	4.95	5.22	5.60	6.70			12.42	13.60	15.77
			velocity	7.19	8.68	8.37	8.31	8.01	7.73	7.45	7.07	6.70	6.25	5.97	7.31	8.45	7.72	6.66
	H1 lead leg	R	strides	23	15	15	15	15	15	16	16	17	17	20	184			
Folorunso, Ayomide (ITA) (1993)	time	6.35	10.51	14.74	18.96	23.25		27.77	32.54	37.59	42.96	48.57		55.26	2 / 5			
	reaction time	0.205	interval	4.16	4.23	4.22	4.29	4.52	4.77	5.05	5.37	5.61	6.69			12.61	13.58	16.03
			velocity	7.09	8.41	8.27	8.29	8.16	7.74	7.34	6.93	6.52	6.24	5.98	7.24	8.33	7.73	6.55
	H1 lead leg	R	strides	23	15		15	16	16			18	21	124				
Knight, Andrenette (JAM) (1993)	time	6.20	10.19	14.35	18.60	23.03		27.59	32.38	37.51	42.82	48.47		55.42	3 / 6			
	reaction time	0.176	interval	3.99	4.16	4.25	4.43	4.56	4.79	5.13	5.31	5.65	6.95			12.40	13.78	16.09
			velocity	7.26	8.77	8.41	8.24	7.90	7.68	7.31	6.82	6.59	6.19	5.76	7.22	8.47	7.62	6.53
	H1 lead leg	R	strides	22	15	15		15	15	16	16	17	20	151				
Maraval, Louise (FRA) (2001)	time	6.30	10.47	14.76	19.13	23.71		28.48	33.52	38.71	43.98	49.36		55.54	8 / 7			
	reaction time	0.145	interval	4.17	4.29	4.37	4.58	4.77	5.04	5.19	5.27	5.38	6.18			12.83	14.39	15.84
			velocity	7.14	8.39	8.16	8.01	7.64	7.34	6.94	6.74	6.64	6.51	6.47	7.20	8.18	7.30	6.63
	H1 lead leg	R	strides	23	15	15	15	16	16			17	20	152				
Giger, Yasmin (SUI) (1999)	time	6.34	10.50	14.82	19.21	23.74		28.55	33.51	38.66	44.08	49.75		56.19	1 / 8			
	reaction time	0.155	interval	4.16	4.32	4.39	4.53	4.81	4.96	5.15	5.42	5.67	6.44			12.87	14.30	16.24
			velocity	7.10	8.41	8.10	7.97	7.73	7.28	7.06	6.80	6.46	6.17	6.21	7.12	8.16	7.34	6.47
	H1 lead leg	R	strides	23	15		15	16	16			17	18	20	140			

2024 Golden Gala · Pietro Mennea (Roma, ITA)**FINAL**

date 30-Aug-24

Omega Timing (2024) - diamond league race analysis

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Cockrell, Anna (USA) (1997)	time	6.12	10.02	14.04	18.21	22.62		27.11	31.71	36.54	41.48	46.54		52.59	4 / 1			
	reaction time	0.161	interval	3.90	4.02	4.17	4.41	4.49	4.60	4.83	4.94	5.06	6.05			12.09	13.50	14.83
			velocity	7.35	8.97	8.71	8.39	7.94	7.80	7.61	7.25	7.09	6.92	6.61	7.61	8.68	7.78	7.08
	H1 lead leg	L	strides	22	13		14	14	14	15	15	15	19	141				
Salmon, Shiann (JAM) (1999)	time	6.23	10.23	14.28	18.44	22.80		27.36	32.05	36.92	41.92	47.06		53.20	5 / 2			
	reaction time	0.200	interval	4.00	4.05	4.16	4.36	4.56	4.69	4.87	5.00	5.14	6.14			12.21	13.61	15.01
			velocity	7.22	8.75	8.64	8.41	8.03	7.68	7.46	7.19	7.00	6.81	6.51	7.52	8.60	7.71	7.00
	H1 lead leg	L	strides	22	14		14	15	15	16	16	16	19.5	147.5				
Little, Shamier (USA) (1995)	time	6.28	10.45	14.68	19.12	23.65		28.25	32.91	37.71	42.76	48.01		54.15	8 / 3			
	reaction time	0.234	interval	4.17	4.23	4.44	4.53	4.60	4.66	4.80	5.05	5.25	6.14			12.84	13.79	15.10
			velocity	7.17	8.39	8.27	7.88	7.73	7.61	7.51	7.29	6.93	6.67	6.51	7.39	8.18	7.61	6.95
	H1 lead leg	R	strides	23	15	14	14	15	15	15		16	16	19	162			
Russell, Janieve (JAM) (1993)	time	6.33	10.38	14.56	18.76	23.11		27.67	32.37	37.36	42.72	48.09		54.46	3 / 4			
	reaction time	0.182	interval	4.05	4.18	4.20	4.35	4.56	4.70	4.99	5.36	5.37	6.37			12.43	13.61	15.72
			velocity	7.11	8.64	8.37	8.33	8.05	7.68	7.45	7.01	6.53	6.52	6.28	7.34	8.45	7.71	6.68
	H1 lead leg	R	strides	23	15		15	15	16	17	16	17	19.7	153.7				
Knight, Andrenette (JAM) (1993)	time	6.16	10.19	14.31	18.59	23.12		27.75	32.54	37.54	42.72	48.16		54.90	7 / 5			
	reaction time	0.176	interval	4.03	4.12	4.28	4.53	4.63	4.79	5.00	5.18	5.44	6.74			12.43	13.95	15.62

	velocity	7.31	8.68	8.50	8.18	7.73	7.56	7.31	7.00	6.76	6.43	5.93	7.29	8.45	7.53	6.72
H1 lead leg	R	strides	22	15	15	15	15	16	17	17			147			
Folorunso, Ayomide (ITA)	(1time	6.29	10.45	14.73	19.03	23.41	28.03	32.82	37.83	43.07	48.54		55.00	2 / 6		
reaction time	0.168	interval	4.16	4.28	4.30	4.38	4.62	4.79	5.01	5.24	5.47	6.46		12.74	13.79	15.72
	velocity	7.15	8.41	8.18	8.14	7.99	7.58	7.31	6.99	6.68	6.40	6.19	7.27	8.24	7.61	6.68
H1 lead leg	R	strides	23	15		15	16	16	16	16	17		134			
Maraval, Louise (FRA)	(2001) time	6.28	10.40	14.58	18.92	23.45	28.22	33.17	38.35	43.65	48.93		55.16	6 / 7		
reaction time	0.150	interval	4.12	4.18	4.34	4.53	4.77	4.95	5.18	5.30	5.28	6.23		12.64	14.25	15.76
	velocity	7.17	8.50	8.37	8.06	7.73	7.34	7.07	6.76	6.60	6.63	6.42	7.25	8.31	7.37	6.66
H1 lead leg	R	strides	23	15		15	16	16	17	17			119			
Nielsen, Lina (GBR)	(1996) time	6.29	10.49	14.81	19.19	23.70	28.49	33.54	38.77	44.18	49.62		55.93	1 / 8		
reaction time	0.140	interval	4.20	4.32	4.38	4.51	4.79	5.05	5.23	5.41	5.44	6.31		12.90	14.35	16.08
	velocity	7.15	8.33	8.10	7.99	7.76	7.31	6.93	6.69	6.47	6.43	6.34	7.15	8.14	7.32	6.53
H1 lead leg	L	strides	22	15		15	16	16	16	16	17		117			
Ryzhykova, Anna (UKR)	(19) time	6.57	10.85	15.20	19.67	24.38	29.29	34.32	39.52	44.89	50.52		56.96	9 / 9		
reaction time	0.221	interval	4.28	4.35	4.47	4.71	4.91	5.03	5.20	5.37	5.63	6.44		13.10	14.65	16.20
	velocity	6.85	8.18	8.05	7.83	7.43	7.13	6.96	6.73	6.52	6.22	6.21	7.02	8.02	7.17	6.48
H1 lead leg	R	strides	21	14	14	14	15	15	15				123			

2024 Kamila Skolimowska Memorial (Silesia, POL)

FINAL

date 25-Aug-24

Omega Timing (2024) - diamond league race analysis

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Boi, Femke (NED)	(2000) time	6.28	10.30	14.38	18.63	23.00	27.47	32.14	36.93	41.81	46.67		52.13	6 / 1				
reaction time	0.158	interval	4.02	4.08	4.25	4.37	4.47	4.67	4.79	4.88	4.86	5.46			12.35	13.51	14.53	
	velocity	7.17	8.71	8.58	8.24	8.01	7.83	7.49	7.31	7.17	7.20	7.33	7.67	8.50	7.77	7.23		
H1 lead leg	L	strides	22	14	14	14	14	14	14	15	15	15	18.2	169.2				
Cockrell, Anna (USA)	(1997) time	6.20	10.13	14.20	18.48	22.94	27.51	32.29	37.14	42.04	46.94		52.88	5 / 2				
reaction time	0.167	interval	3.93	4.07	4.28	4.46	4.57	4.78	4.85	4.90	4.90	5.94			12.28	13.81	14.65	
	velocity	7.26	8.91	8.60	8.18	7.85	7.66	7.32	7.22	7.14	7.14	6.73	7.56	8.55	7.60	7.17		
H1 lead leg	L	strides	22	13	13	14	14	14	14	15	15	15	19	168				
Clayton, Rushell (JAM)	(199) time	6.21	10.11	14.11	18.28	22.61	27.15	31.97	37.00	42.00	47.02		53.11	7 / 3				
reaction time	0.131	interval	3.90	4.00	4.17	4.33	4.54	4.82	5.03	5.00	5.02	6.09			12.07	13.69	15.05	
	velocity	7.25	8.97	8.75	8.39	8.08	7.71	7.26	6.96	7.00	6.97	6.57	7.53	8.70	7.67	6.98		
H1 lead leg	L	strides	22	14	14	14	15	15	16	16	16	19	175					
Salmon, Shiann (JAM)	(1999) time	6.31	10.38	14.53	18.87	23.28	27.84	32.51	37.29	42.21	47.25		53.15	8 / 4				
reaction time	0.229	interval	4.07	4.15	4.34	4.41	4.56	4.67	4.78	4.92	5.04	5.90			12.56	13.64	14.74	
	velocity	7.13	8.60	8.43	8.06	7.94	7.68	7.49	7.32	7.11	6.94	6.78	7.53	8.36	7.70	7.12		
H1 lead leg	L	strides	22	14	14	14	15	15	16	16	16	19	175					
Russell, Janieve (JAM)	(1993) time	6.33	10.37	14.49	18.78	23.22	27.76	32.40	37.23	42.20	47.38		53.59	4 / 5				
reaction time	0.160	interval	4.04	4.12	4.29	4.44	4.54	4.64	4.83	4.97	5.18	6.21			12.45	13.62	14.98	
	velocity	7.11	8.66	8.50	8.16	7.88	7.71	7.54	7.25	7.04	6.76	6.44	7.46	8.43	7.71	7.01		
H1 lead leg	R	strides	23	15	15	15	16	16	16	17	17	19.7	184.7					
Knight, Andrenette (JAM)	(1) time	6.18	10.18	14.33	18.57	22.94	27.43	32.19	37.13	42.18	47.39		53.68	3 / 6				
reaction time	0.166	interval	4.00	4.15	4.24	4.37	4.49	4.76	4.94	5.05	5.21	6.29			12.39	13.62	15.20	
	velocity	7.28	8.75	8.43	8.25	8.01	7.80	7.35	7.09	6.93	6.72	6.36	7.45	8.47	7.71	6.91		
H1 lead leg	R	strides	22	15	15	15	15	16	16	16	16	20	181					
Jichová, Nikoleta (CZE)	(200) time	6.42	10.61	14.91	19.33	23.86	28.51	33.44	38.54	43.75	48.97		54.92	1 / 7				
reaction time	0.169	interval	4.19	4.30	4.42	4.53	4.65	4.93	5.10	5.21	5.22	5.95			12.91	14.11	15.53	
	velocity	7.01	8.35	8.14	7.92	7.73	7.53	7.10	6.86	6.72	6.70	6.72	7.28	8.13	7.44	6.76		
H1 lead leg	R	strides	22	15	15	15					16		98					
Ryzhykova, Anna (UKR)	(19) time	6.59	10.80	15.12	19.52	24.07	28.84	33.67	38.69	44.00	49.29		55.44	2 / 8				
reaction time	0.188	interval	4.21	4.32	4.40	4.55	4.77	4.83	5.02	5.31	5.29	6.15			12.93	14.15	15.62	
	velocity	6.83	8.31	8.10	7.95	7.69	7.34	7.25	6.97	6.59	6.62	6.50	7.22	8.12	7.42	6.72		
H1 lead leg	R	strides	21	14	14	14				16			79					
Muhammad, Dalilah (USA)	(1) time	6.30	10.38	14.61	19.05	23.57	28.33	33.39	38.78	44.15	49.50		55.99	9 / 9				
reaction time	0.163	interval	4.08	4.23	4.44	4.52	4.76	5.06	5.39	5.37	5.35	6.49			12.75	14.34	16.11	
	velocity	7.14	8.58	8.27	7.88	7.74	7.35	6.92	6.49	6.52	6.54	6.16	7.14	8.24	7.32	6.52		
H1 lead leg	R	strides	22	14	14	15	15	15	16	16			142					

2024 Athletissima (Lausanne, SUI)

FINAL

date 22-Aug-24

Omega Timing (2024) - diamond league race analysis

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Boi, Femke (NED)	(2000) time	6.25	10.30	14.42	18.61	22.92	27.40	31.98	36.72	41.55	46.53		52.25	5 / 1				
reaction time	0.182	interval	4.05	4.12	4.19	4.31	4.48	4.58	4.74	4.83	4.98	5.72			12.36	13.37	14.55	
	velocity	7.20	8.64	8.50	8.35	8.12	7.81	7.64	7.38	7.25	7.03	6.99	7.66	8.50	7.85	7.22		
H1 lead leg	L	strides	22	14	14	14	14	14	14	15	15	15	18.7	169.7				

Clayton, Rushell (JAM) (1999)	time	6.15	10.03	14.05	18.15	22.45	27.04	31.72	36.55	41.63	46.89	53.32	4 / 2			
	reaction time	0.159	interval	3.88	4.02	4.10	4.59	4.68	4.83	5.08	5.26	6.43		12.00	13.57	15.17
	velocity	7.32	9.02	8.71	8.54	8.14	7.63	7.48	7.25	6.89	6.65	6.22	7.50	8.75	7.74	6.92
	H1 lead leg	L	strides	22	14	14	14	14	15	15	16	16	19	174		
Russell, Janieve (JAM) (1993)	time	6.40	10.45	14.62	18.86	23.25	27.89	32.71	37.55	42.65	47.99	54.48	3 / 3			
	reaction time	0.180	interval	4.05	4.17	4.24	4.64	4.82	4.84	5.10	5.34	6.49		12.46	13.85	15.28
	velocity	7.03	8.64	8.39	8.25	7.97	7.54	7.26	7.23	6.86	6.55	6.16	7.34	8.43	7.58	6.87
	H1 lead leg	R	strides	23	15	15	15	15	16	16	17	20	152			
Knight, Andrenette (JAM) (†)	time	6.29	10.35	14.50	18.79	23.32	28.01	32.84	37.90	43.11	48.50	54.93	7 / 4			
	reaction time	0.182	interval	4.06	4.15	4.29	4.69	4.83	5.06	5.21	5.39	6.43		12.50	14.05	15.66
	velocity	7.15	8.62	8.43	8.16	7.73	7.46	7.25	6.92	6.72	6.49	6.22	7.28	8.40	7.47	6.70
	H1 lead leg	L	strides	22	14	14	15	15	16	16	16	19.5	176.5			
Folorunso, Ayomide (ITA) (†)	time	6.30	10.43	14.58	18.88	23.35	28.00	32.81	37.80	43.02	48.51	55.08	8 / 5			
	reaction time	0.203	interval	4.13	4.15	4.30	4.65	4.81	4.99	5.22	5.49	6.57		12.58	13.93	15.70
	velocity	7.14	8.47	8.43	8.14	7.83	7.53	7.28	7.01	6.70	6.38	6.09	7.26	8.35	7.54	6.69
	H1 lead leg	R	strides	23	15	15	15	16	16	16	17	21	185			
Couckuyt, Paulien (BEL) (19)	time	6.32	10.35	14.53	18.83	23.28	28.05	32.99	38.16	43.48	49.06	55.53	1 / 6			
	reaction time	0.193	interval	4.03	4.18	4.30	4.77	4.94	5.17	5.32	5.58	6.47		12.51	14.16	16.07
	velocity	7.12	8.68	8.37	8.14	7.87	7.34	7.09	6.77	6.58	6.27	6.18	7.20	8.39	7.42	6.53
	H1 lead leg	L	strides	23	15	15	15	16	17	17	21.5	154.5				
Peeters, Cathelijm (NED) (19)	time	6.62	10.77	15.04	19.41	23.94	28.74	33.87	39.26	44.65	50.13	56.28	2 / 7			
	reaction time	0.244	interval	4.15	4.27	4.37	4.80	5.13	5.39	5.39	5.48	6.15		12.79	14.46	16.26
	velocity	6.80	8.43	8.20	8.01	7.73	7.29	6.82	6.49	6.49	6.39	6.50	7.11	8.21	7.26	6.46
	H1 lead leg	R	strides	23	15	15	15	17	17	17	17	134				
Little, Shamier (USA) (1995)	time	6.22	10.36	14.60	19.00	23.57	28.34	33.28	38.86	44.81	51.08	58.57	6 / 8			
	reaction time	0.203	interval	4.14	4.24	4.40	4.77	4.94	5.58	5.95	6.27	7.49		12.78	14.28	17.80
	velocity	7.23	8.45	8.25	7.95	7.66	7.34	7.09	6.27	5.88	5.58	5.34	6.83	8.22	7.35	5.90
	H1 lead leg	R	strides	23	15	15	15	17	18	18	18	136				

2024 Olympic Games (Paris, FRA)

FINAL

date 08-Aug-24

Paris 2024 Olympic Games - Results Book (2024)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin-Levrone, Sydney	time	5.91	9.79	13.81	17.86	22.02	26.29	30.72	35.24	39.89	44.71	50.37	5 / 1					
	reaction time	0.139	interval	3.88	4.02	4.16	4.27	4.43	4.52	4.65	4.82	5.66	WR		11.95	12.86	13.99	
	velocity	7.61	9.02	8.71	8.64	8.41	8.20	7.90	7.74	7.53	7.26	7.07	7.94	8.79	8.16	7.51		
	H1 lead leg	R	strides	22	14	14	14	14	14	15	15	19	170					
Cockrell, Anna (USA) (1997)	time	6.10	9.98	13.94	18.09	22.40	26.72	31.28	35.96	40.84	45.84	51.87	7 / 2					
	reaction time	0.158	interval	3.88	3.96	4.15	4.32	4.56	4.68	4.88	5.00	6.03	PB		11.99	13.19	14.56	
	velocity	7.38	9.02	8.84	8.43	8.12	8.10	7.68	7.48	7.17	7.00	6.63	7.71	8.76	7.96	7.21		
	H1 lead leg	R	strides	22	13	14	14	14	14	15	15	19	169					
Bo, Femke (NED) (2000)	time	6.13	10.00	13.93	17.99	22.16	26.48	31.00	35.74	40.70	45.90	52.15	6 / 3					
	reaction time	0.165	interval	3.87	3.93	4.06	4.32	4.52	4.74	4.96	5.20	6.25		11.86	13.01	14.90		
	velocity	7.34	9.04	8.91	8.62	8.39	8.10	7.74	7.38	7.06	6.73	6.40	7.67	8.85	8.07	7.05		
	H1 lead leg	L	strides	22	14	14	14	14	14	15	15	19	171					
Jones, Jasmine (USA) (2001)	time	6.02	9.99	14.03	18.17	22.45	26.86	31.51	36.21	41.16	46.31	52.29	9 / 4					
	reaction time	0.157	interval	3.97	4.04	4.14	4.41	4.65	4.70	4.95	5.15	5.98	PB		12.15	13.34	14.80	
	velocity	7.48	8.82	8.66	8.45	8.18	7.94	7.53	7.45	7.07	6.80	6.69	7.65	8.64	7.87	7.09		
	H1 lead leg	R	strides	22	14	14	14	14	15	15	16	18.7	156.7					
Clayton, Rushell (JAM) (1999)	time	6.19	10.08	14.07	18.20	22.42	26.81	31.41	36.22	41.20	46.42	52.68	8 / 5					
	reaction time	0.142	interval	3.89	3.99	4.13	4.39	4.60	4.81	4.98	5.22	6.26		12.01	13.21	15.01		
	velocity	7.27	9.00	8.77	8.47	8.29	7.97	7.61	7.28	7.03	6.70	6.39	7.59	8.74	7.95	7.00		
	H1 lead leg	L	strides	22	14	14	14	15	15	15	16	19	158					
Salmon, Shiann (JAM) (1999)	time	6.23	10.34	14.51	18.70	23.02	27.54	32.20	37.01	42.11	47.22	53.29	2 / 6					
	reaction time	0.207	interval	4.11	4.17	4.19	4.52	4.66	4.81	5.10	5.11	6.07		12.47	13.50	15.02		
	velocity	7.22	8.52	8.39	8.35	8.10	7.74	7.51	7.28	6.86	6.85	6.59	7.51	8.42	7.78	6.99		
	H1 lead leg	L	strides	22	14	14	14	15	15	16	16	19	175					
Sutherland, Savannah (CAN)	time	6.32	10.38	14.52	18.70	23.01	27.45	32.13	37.04	42.24	47.53	53.88	3 / 7					
	reaction time	0.157	interval	4.06	4.14	4.18	4.44	4.68	4.91	5.20	5.29	6.35		12.38	13.43	15.40		
	velocity	7.12	8.62	8.45	8.37	8.12	7.88	7.48	7.13	6.73	6.62	6.30	7.42	8.48	7.82	6.82		
	H1 lead leg	R	strides	23	15	15	15	15	15	16	16	16	161					
Maraval, Louise (FRA) (2001)	time	6.26	10.29	14.49	18.81	23.28	27.90	32.68	37.71	42.94	48.25	54.53	4 / 8					
	reaction time	0.166	interval	4.03	4.20	4.32	4.62	4.78	5.03	5.23	5.31	6.28		12.55	13.87	15.57		
	velocity	7.19	8.68	8.33	8.10	7.83	7.58	7.32	6.96	6.69	6.59	6.37	7.34	8.37	7.57	6.74		
	H1 lead leg	R	strides	23	15	15	15	16	16	16	17	17	165					

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 3

date 06-Aug-24

Paris 2024 Olympic Games - Results Book (2024)

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Boi, Femke (NED) (2000)	time		6.24	10.18	14.24	18.35	22.61		27.03	31.64	36.50	41.55	46.62		52.57	6 / 1			
	reaction time	0.194							4.42	4.61	4.86	5.05	5.07	5.95			12.11	13.29	14.98
									7.92	7.59	7.20	6.93	6.90	6.72	7.61		8.67	7.90	7.01
	H1 lead leg	L	22	14	14	14	14		14	14	15	15	15	18	169				
Cockrell, Anna (USA) (1997)	time		6.14	10.10	14.25	18.59	23.06		27.52	32.13	36.91	41.87	46.91		52.90	7 / 2			
	reaction time	0.178							4.46	4.61	4.78	4.96	5.04	5.99			12.45	13.54	14.78
									7.85	7.59	7.32	7.06	6.94	6.68	7.56		8.43	7.75	7.10
	H1 lead leg	R	22	13	14	14	14		14	14	14	15	15	19	168				
Salmon, Shiann (JAM) (1999)	time		6.13	10.16	14.26	18.45	22.80		27.35	32.04	36.82	41.81	46.95		53.13	5 / 3			
	reaction time	0.182							4.55	4.69	4.78	4.99	5.14	6.18	PB		12.32	13.59	14.91
									7.69	7.46	7.32	7.01	6.81	6.47	7.53		8.52	7.73	7.04
	H1 lead leg	L	22	14	14	14	14		15	15	16	16	16	20	176				
Sutherland, Savannah (CAN)	time		6.26	10.35	14.50	18.76	23.10		27.57	32.21	37.01	42.13	47.56		53.80	4 / 4			
	reaction time	0.145							4.47	4.64	4.80	5.12	5.43	6.24			12.50	13.45	15.35
									7.83	7.54	7.29	6.84	6.45	6.41	7.43		8.40	7.81	6.84
	H1 lead leg	R	23	15	15	15	15		15	15	15	16	16	20	180				
Couckuyt, Paulien (BEL) (19)	time		6.29	10.37	14.56	18.84	23.24		27.84	32.67	37.71	43.00	48.37		54.64	9 / 5			
	reaction time	0.175							4.60	4.83	5.04	5.29	5.37	6.27			12.55	13.83	15.70
									7.61	7.25	6.94	6.62	6.52	6.38	7.32		8.37	7.59	6.69
	H1 lead leg	L	23	15	15	15	15		16					99					
Knight, Jessie (GBR) (1994)	time		6.35	10.52	14.77	19.08	23.55		28.22	33.11	38.29	43.57	48.89		54.90	3 / 6			
	reaction time	0.156							4.67	4.89	5.18	5.28	5.32	6.01			12.73	14.03	15.78
									7.49	7.16	6.76	6.63	6.58	6.66	7.29		8.25	7.48	6.65
	H1 lead leg	R	22	15	15	15	15		15	15	16			128					
Yukich, Alanah (AUS) (1998)	time		6.37	10.51	14.90	19.36	23.91		28.59	33.47	38.68	44.04	49.38		55.49	1 / 7			
	reaction time	0.161							4.68	4.88	5.21	5.36	5.34	6.11			12.99	14.11	15.91
									7.48	7.17	6.72	6.53	6.55	7.21			8.08	7.44	6.60
	H1 lead leg	R	22	15	15	15	15		15	15	16			144					
Ennadi, Noura (MAR) (1999)	time		6.47	10.63	14.83	19.14	23.61		28.27	33.15	38.22	43.52	48.88		55.50	8 / 8			
	reaction time	0.175							4.66	4.88	5.07	5.30	5.36	6.62			12.67	14.01	15.73
									7.51	7.17	6.90	6.60	6.53	6.04	7.21		8.29	7.49	6.68
	H1 lead leg	R	23	15	15	15	15		16		17			116					
Mo Jiadie (CHN) (2000)	time		6.37	10.54	14.92	19.39	24.03		28.75	33.73	38.84	44.07	49.40		55.63	2 / 9			
	reaction time	0.163							4.72	4.98	5.11	5.23	5.33	6.23			13.02	14.34	15.67
									7.42	7.03	6.85	6.69	6.57	6.42	7.19		8.06	7.32	6.70
	H1 lead leg	L	23	15	15	15	16		16	17	17	18		152					

Semi-Final 2

date 06-Aug-24

Paris 2024 Olympic Games - Results Book (2024)

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin-Levrone, Sydney	time		6.03	10.05	14.28	18.62	22.97		27.38	31.90	36.62	41.54	46.49		52.13	7 / 1			
	reaction time	0.154							4.41	4.52	4.72	4.92	4.95	5.64			12.59	13.28	14.59
									7.94	7.74	7.42	7.11	7.07	7.09	7.67		8.34	7.91	7.20
	H1 lead leg	R	22	14	15	15	14		14	14	15	16	15	18	172				
Maraval, Louise (FRA) (2001)	time		6.30	10.42	14.76	19.12	23.52		28.15	32.87	37.76	42.88	47.89		53.83	4 / 2			
	reaction time	0.160							4.63	4.72	4.89	5.12	5.01	5.94			12.82	13.75	15.02
									7.56	7.42	7.16	6.84	6.99	6.73	7.43		8.19	7.64	6.99
	H1 lead leg	R	23	15	15	15	15		16	16	17	17	17	20	186				
Joseph, Rogail (RSA) (2000)	time		6.29	10.56	14.87	19.12	23.46		27.96	32.57	37.46	42.61	47.86		54.12	5 / 3			
	reaction time	0.177							4.50	4.61	4.89	5.15	5.25	6.26	PB		12.83	13.45	15.29
									7.78	7.59	7.16	6.80	6.67	6.39	7.39		8.18	7.81	6.87
	H1 lead leg	L	23	15	15	14	15		15	15	16	16	17	20	181				
Russell, Janieve (JAM) (1993)	time		6.37	10.51	14.84	19.21	23.65		28.27	32.98	37.88	42.99	48.28		54.65	6 / 4			
	reaction time	0.166							4.62	4.71	4.90	5.11	5.29	6.37			12.84	13.77	15.30
									7.58	7.43	7.14	6.85	6.62	6.28	7.32		8.18	7.63	6.86
	H1 lead leg	R	23	15	15	15	15		15	16	16	17	17	20	184				
Folorunso, Ayomide (ITA) (19)	time		6.30	10.42	14.74	19.07	23.43		27.98	32.73	37.71	42.99	48.42		54.92	3 / 5			
	reaction time	0.166							4.55	4.75	4.98	5.28	5.43	6.50			12.77	13.66	15.69
									7.69	7.37	7.03	6.63	6.45	6.15	7.28		8.22	7.69	6.69
	H1 lead leg	R	23	15	15	15	15		16	16	16	17	17	20.7	185.7				
Diallo, Fatoumata (POR) (20)	time		6.34	10.62	15.10	19.58	24.14		28.74	33.44	38.31	43.37	48.56		54.93	8 / 6			
	reaction time	0.168							4.60	4.70	4.87	5.06	5.19	6.37			13.24	13.86	15.12
									7.61	7.45	7.19	6.92	6.74	6.28	7.28		7.93	7.58	6.94
	H1 lead leg	R	23	15	15	15	15		16	16	16	17	17	20	184				

H1 lead leg	R	strides	24	16	16	16	16	16	17	17	17	18	21.2	194.2					
Ryzhykova, Anna (UKR) (1st)	time		6.49	10.66	14.99	19.41	23.87		28.60	33.42	38.43	43.72	49.26		55.65	2 / 7			
reaction time	0.169	interval		4.17	4.33	4.42	4.46		4.73	4.82	5.01	5.29	5.54	6.39			12.92	14.01	15.84
		velocity	6.93	8.39	8.08	7.92	7.85		7.40	7.26	6.99	6.62	6.32	6.26	7.19		8.13	7.49	6.63
H1 lead leg	R	strides	21	14	14	14	14		15	15	15	15	16	20	173				
Claes, Hanne (BEL) (1991)	time		6.33	10.44	14.69	18.97	23.39		27.96	32.80	37.83	43.23	49.12		55.96	9 / 8			
reaction time	0.188	interval		4.11	4.25	4.28	4.42		4.57	4.84	5.03	5.40	5.89	6.84			12.64	13.83	16.32
		velocity	7.11	8.52	8.24	8.18	7.92		7.66	7.23	6.96	6.48	5.94	5.85	7.15		8.31	7.59	6.43
H1 lead leg	R	strides	23	15	15	15	15		16	16	16	18	19	168					

Semi-Final 1

date 06-Aug-24

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			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Clayton, Rushell (JAM) (199)	time		6.13	10.02	14.02	18.11	22.33		26.78	31.48	36.37	41.51	46.79		53.00	5 / 1			
reaction time	0.152	interval		3.89	4.00	4.09	4.22		4.45	4.70	4.89	5.14	5.28	6.21			11.98	13.37	15.31
		velocity	7.34	9.00	8.75	8.56	8.29		7.87	7.45	7.16	6.81	6.63	6.44	7.55		8.76	7.85	6.86
H1 lead leg	L	strides	22	14	14	14	14		15	15	15	16	16	19	174				
Jones, Jasmine (USA) (2001)	time		6.11	10.21	14.36	18.55	22.90		27.35	32.05	37.03	42.23	47.58		53.83	7 / 2			
reaction time	0.166	interval		4.10	4.15	4.19	4.35		4.45	4.70	4.98	5.20	5.35	6.25			12.44	13.50	15.53
		velocity	7.36	8.54	8.43	8.35	8.05		7.87	7.45	7.03	6.73	6.54	6.40	7.43		8.44	7.78	6.76
H1 lead leg	R	strides	22	14	14	14	14		14	15	15	16	16	19	173				
Geldenhuys, Zoney (RSA) (2)	time		6.34	10.54	14.67	18.99	23.39		27.93	32.71	37.73	42.84	48.00		53.90	8 / 3			
reaction time	0.175	interval		4.20	4.13	4.32	4.40		4.54	4.78	5.02	5.11	5.16	5.90	PB		12.65	13.72	15.29
		velocity	7.10	8.33	8.47	8.10	7.95		7.71	7.32	6.97	6.85	6.78	6.78	7.42		8.30	7.65	6.87
H1 lead leg	L	strides	22	15	15	15	15		15	16	16	16	16	19.2	180.2				
Grebo, Shana (FRA) (2000)	time		6.26	10.32	14.59	18.89	23.28		27.92	32.85	37.93	43.18	48.64		54.84	3 / 4			
reaction time	0.195	interval		4.06	4.27	4.30	4.39		4.64	4.93	5.08	5.25	5.46	6.20			12.63	13.96	15.79
		velocity	7.19	8.62	8.20	8.14	7.97		7.54	7.10	6.89	6.67	6.41	6.45	7.29		8.31	7.52	6.65
H1 lead leg	L	strides	23	16	16	16	16		16	17	17	18	18	20.5	193.5				
luel, Amalie (NOR) (1994)	time		6.39	10.49	14.69	18.98	23.41		28.04	32.92	37.99	43.24	48.64		54.88	4 / 5			
reaction time	0.149	interval		4.10	4.20	4.29	4.43		4.63	4.88	5.07	5.25	5.40	6.24			12.59	13.94	15.72
		velocity	7.04	8.54	8.33	8.16	7.90		7.56	7.17	6.90	6.67	6.48	6.41	7.29		8.34	7.53	6.68
H1 lead leg	L	strides	23	15	15	15	15		15	15	15	16	16	19	179				
van den Broeck, Naomi (BEL)	time		6.49	10.73	15.17	19.71	24.30		29.04	34.01	39.03	44.15	49.21		54.94	2 / 6			
reaction time	0.113	interval		4.24	4.44	4.54	4.59		4.74	4.97	5.02	5.12	5.06	5.73			13.22	14.30	15.20
		velocity	6.93	8.25	7.88	7.71	7.63		7.38	7.04	6.97	6.84	6.92	6.98	7.28		7.94	7.34	6.91
H1 lead leg	L	strides	25			17	17					19	19	22	119				
Peeters, Cathelijn (NED) (19)	time		6.63	10.84	15.08	19.42	23.81		28.43	33.38	38.46	43.75	49.25		55.20	9 / 7			
reaction time	0.219	interval		4.21	4.24	4.34	4.39		4.62	4.95	5.08	5.29	5.50	5.95			12.79	13.96	15.87
		velocity	6.79	8.31	8.25	8.06	7.97		7.58	7.07	6.89	6.62	6.36	6.72	7.25		8.21	7.52	6.62
H1 lead leg	R	strides	23	15	15	15	15		15	16	16	18	18	132					
Nielsen, Lina (GBR) (1996)	time		6.22	10.33	14.56	18.89	23.27		27.89	32.79	37.73	42.88	48.08		91.22	6 / 8			
reaction time	0.157	interval		4.11	4.23	4.33	4.38		4.62	4.90	4.94	5.15	5.20	43.14			12.67	13.90	15.29
		velocity	7.23	8.52	8.27	8.08	7.99		7.58	7.14	7.09	6.80	6.73	0.93	4.39		8.29	7.55	6.87
H1 lead leg	L	strides	22	15	15	15	15		16	16	16	16	17	163					

Repechage 3

date 05-Aug-24

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			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Grebo, Shana (FRA) (2000)	time		6.27	10.37	14.44	18.76	23.26		28.02	32.98	38.12	43.48	48.84		54.91	7 / 1			
reaction time	0.196	interval		4.10	4.07	4.32	4.50		4.76	4.96	5.14	5.36	5.36	6.07			12.49	14.22	15.86
		velocity	7.18	8.54	8.60	8.10	7.78		7.35	7.06	6.81	6.53	6.53	6.59	7.28		8.41	7.38	6.62
H1 lead leg	L	strides	23	15	16	16	16		16	17	18	18	18	21	194				
Ryzhykova, Anna (UKR) (1st)	time		6.49	10.76	15.03	19.45	24.03		28.77	33.58	38.56	43.67	48.88		54.95	8 / 2			
reaction time	0.174	interval		4.27	4.27	4.42	4.58		4.74	4.81	4.98	5.11	5.21	6.07			12.96	14.13	15.30
		velocity	6.93	8.20	8.20	7.92	7.64		7.38	7.28	7.03	6.85	6.72	6.59	7.28		8.10	7.43	6.86
H1 lead leg	R	strides	21	14	14	14	14		14	15	15	15	15	19.5	170.5				
Angounou, Linda (CMR) (1st)	time		6.59	10.91	15.28	19.66	24.17		28.79	33.54	38.46	43.63	48.98		55.09	2 / 3			
reaction time	0.186	interval		4.32	4.37	4.38	4.51		4.62	4.75	4.92	5.17	5.35	6.11	NR PB		13.07	13.88	15.44
		velocity	6.83	8.10	8.01	7.99	7.76		7.58	7.37	7.11	6.77	6.54	6.55	7.26		8.03	7.56	6.80
H1 lead leg	R	strides	23			15	15		15	15	15	16	16	19.5	149.5				
Carli, Smith (AUS) (1994)	time		6.32	10.54	14.81	19.20	23.74		28.47	33.30	38.32	43.55	48.92		55.12	4 / 4			
reaction time	0.187	interval		4.22	4.27	4.39	4.54		4.73	4.83	5.02	5.23	5.37	6.20			12.88	14.10	15.62
		velocity	7.12	8.29	8.20	7.97	7.71		7.40	7.25	6.97	6.69	6.52	6.45	7.26		8.15	7.45	6.72
H1 lead leg	L	strides	23	15	15	15	15		16	16	17	17	17	21	187				
Giger, Yasmin (SUI) (1999)	time		6.40	10.69	15.04	19.48	24.04		28.71	33.57	38.55	43.77	49.06		55.18	3 / 5			
reaction time	0.157	interval		4.29	4.35	4.44	4.56		4.67	4.86	4.98	5.22	5.29	6.12			13.08	14.09	15.49

	velocity	7.03	8.16	8.05	7.88	7.68		7.49	7.20	7.03	6.70	6.62	6.54	7.25		8.03	7.45	6.78		
H1 lead leg	R	strides	23	15	15	15	15	15	16	16	17	17	20.2	184.2						
Muraro, Alice (ITA) (2000)	time	6.52	10.81	15.15	19.59	24.25		29.08	34.05	39.15	44.30	49.45		55.48	6 / 6					
reaction time	0.141	interval	4.29	4.34	4.44	4.66		4.83	4.97	5.10	5.15	5.15	6.03			13.07	14.46	15.40		
	velocity	6.90	8.16	8.06	7.88	7.51		7.25	7.04	6.86	6.80	6.80	6.63	7.21		8.03	7.26	6.82		
H1 lead leg	R	strides	23	15	15	15	16	16	16	16	17	17	21	187						
Hoffman, Lauren (PHI) (1999)	time	6.41	10.65	14.99	19.43	24.06		28.91	33.96	39.25	44.90	50.89		58.28	5 / 7					
reaction time	0.180	interval	4.24	4.34	4.44	4.63		4.85	5.05	5.29	5.65	5.99	7.39			13.02	14.53	16.93		
	velocity	7.02	8.25	8.06	7.88	7.56		7.22	6.93	6.62	6.19	5.84	5.41	6.86		8.06	7.23	6.20		
H1 lead leg	L	strides	23	15	15	15	16	16	17	17	18		152							
Repechage 2	date	05-Aug-24													Paris 2024 Olympic Games - Results Book (2024)					
			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Mo Jiadie (CHN) (2000)	time	6.37	10.53	14.84	19.31	23.94		28.73	33.67	38.66	43.72	48.83		54.75	5 / 1					
reaction time	0.231	interval	4.16	4.31	4.47	4.63		4.79	4.94	4.99	5.06	5.11	5.92	PB			12.94	14.36	15.16	
	velocity	7.06	8.41	8.12	7.83	7.56		7.31	7.09	7.01	6.92	6.85	6.76	7.31			8.11	7.31	6.93	
H1 lead leg	L	strides	23	15	15	15	16	16	17	17	17	17	21	189						
Knight, Jessie (GBR) (1994)	time	6.41	10.65	14.97	19.37	23.97		28.77	33.73	38.80	43.99	49.23		55.10	3 / 2					
reaction time	0.175	interval	4.24	4.32	4.40	4.60		4.80	4.96	5.07	5.19	5.24	5.87				12.96	14.36	15.50	
	velocity	7.02	8.25	8.10	7.95	7.61		7.29	7.06	6.90	6.74	6.68	6.81	7.26			8.10	7.31	6.77	
H1 lead leg	R	strides	22	15	15	15	15	15	15	15	16	16	19	178						
Woodruff, Gianna (PAN) (1999)	time	6.47	10.58	14.88	19.25	23.81		28.53	33.46	38.57	43.76	48.96		55.10	2 / 3					
reaction time	0.197	interval	4.11	4.30	4.37	4.56		4.72	4.93	5.11	5.19	5.20	6.14				12.78	14.21	15.50	
	velocity	6.96	8.52	8.14	8.01	7.68		7.42	7.10	6.85	6.74	6.73	6.51	7.26			8.22	7.39	6.77	
H1 lead leg	L	strides	22	14	14	14	14	15	15	16	16	16	19	175						
Jichová, Nikoleta (CZE) (2001)	time	6.36	10.56	14.93	19.40	24.01		28.79	33.79	38.90	44.12	49.29		55.31	6 / 4					
reaction time	0.152	interval	4.20	4.37	4.47	4.61		4.78	5.00	5.11	5.22	5.17	6.02				13.04	14.39	15.50	
	velocity	7.08	8.33	8.01	7.83	7.59		7.32	7.00	6.85	6.70	6.77	6.64	7.23			8.05	7.30	6.77	
H1 lead leg	R	strides	20	15	15	15	15	16	16	16	16	17	20.7	181.7						
Sartori, Rebecca (ITA) (1997)	time	6.34	10.52	14.87	19.29	23.85		28.56	33.79	38.91	44.10	49.38		55.44	7 / 5					
reaction time	0.208	interval	4.18	4.35	4.42	4.56		4.71	5.23	5.12	5.19	5.28	6.06				12.95	14.50	15.59	
	velocity	7.10	8.37	8.05	7.92	7.68		7.43	6.69	6.84	6.74	6.63	6.60	7.22			8.11	7.24	6.74	
H1 lead leg	L	strides	22	15	15	15	15	16	16	16	16	16	19.2	181.2						
Krafzik, Carolina (GER) (1999)	time	6.27	10.33	14.54	18.90	23.48		28.41	33.47	38.60	43.92	49.40		56.02	4 / 6					
reaction time	0.173	interval	4.06	4.21	4.36	4.58		4.93	5.06	5.13	5.32	5.48	6.62				12.63	14.57	15.93	
	velocity	7.18	8.62	8.31	8.03	7.64		7.10	6.92	6.82	6.58	6.39	6.04	7.14			8.31	7.21	6.59	
H1 lead leg	L	strides	23	15	15	15	15	17	17	17	17	17	21.7	189.7						
da Silva, Chayenne (BRA) (2000)	time	6.51	10.88	15.27	19.73	24.35		29.09	34.01	39.16	44.37	49.81		56.56	8 / 7					
reaction time	0.186	interval	4.37	4.39	4.46	4.62		4.74	4.92	5.15	5.21	5.44	6.75				13.22	14.28	15.80	
	velocity	6.91	8.01	7.97	7.85	7.58		7.38	7.11	6.80	6.72	6.43	5.93	7.07			7.94	7.35	6.65	
H1 lead leg	L	strides	23	15	15	15	16	16	17	17	17	17	21	189						
Repechage 1	date	05-Aug-24													Paris 2024 Olympic Games - Results Book (2024)					
			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Folorunso, Ayomide (ITA) (1999)	time	6.37	10.46	14.65	18.91	23.33		27.91	32.71	37.72	42.96	48.50		55.07	4 / 1					
reaction time	0.193	interval	4.09	4.19	4.26	4.42		4.58	4.80	5.01	5.24	5.54	6.57				12.54	13.80	15.79	
	velocity	7.06	8.56	8.35	8.22	7.92		7.64	7.29	6.99	6.68	6.32	6.09	7.26			8.37	7.61	6.65	
H1 lead leg	R	strides	23	15	15	15	15	16	16	16	17	17	22	187						
van den Broeck, Naomi (BEL) (1999)	time	6.48	10.71	15.05	19.52	24.12		28.88	33.86	38.94	44.06	49.20		55.11	7 / 2					
reaction time	0.125	interval	4.23	4.34	4.47	4.60		4.76	4.98	5.08	5.12	5.14	5.91	PB			13.04	14.34	15.34	
	velocity	6.94	8.27	8.06	7.83	7.61		7.35	7.03	6.89	6.84	6.81	6.77	7.26			8.05	7.32	6.84	
H1 lead leg	R	strides	26	17	18	17	17	19	19	19	19	19	22.2	212.2						
Yukich, Alanah (AUS) (1998)	time	6.31	10.44	14.82	19.32	23.90		28.59	33.41	38.49	43.72	49.03		55.11	3 / 2					
reaction time	0.147	interval	4.13	4.38	4.50	4.58		4.69	4.82	5.08	5.23	5.31	6.08				13.01	14.09	15.62	
	velocity	7.13	8.47	7.99	7.78	7.64		7.46	7.26	6.89	6.69	6.59	6.58	7.26			8.07	7.45	6.72	
H1 lead leg	R	strides	22	15	15	15	15	15	15	16	16	16	19.5	179.5						
Claxton, Grace (PUR) (1993)	time	6.39	10.60	14.88	19.28	23.86		28.49	33.39	38.56	43.92	49.48		55.94	6 / 4					
reaction time	0.209	interval	4.21	4.28	4.40	4.58		4.63	4.90	5.17	5.36	5.56	6.46				12.89	14.11	16.09	
	velocity	7.04	8.31	8.18	7.95	7.64		7.56	7.14	6.77	6.53	6.29	6.19	7.15			8.15	7.44	6.53	
H1 lead leg	R	strides	24	16	16	16	16	16	17	17	18	18	22	196						
Kloster, Line (NOR) (1990)	time	6.27	10.38	14.64	18.99	23.48		28.06	32.90	38.13	43.69	49.33		56.73	5 / 5					
reaction time	0.137	interval	4.11	4.26	4.35	4.49		4.58	4.84	5.23	5.56	5.64	7.40				12.72	13.91	16.43	
	velocity	7.18	8.52	8.22	8.05	7.80		7.64	7.23	6.69	6.29	6.21	5.41	7.05			8.25	7.55	6.39	
H1 lead leg	R	strides	22	15	15	15	15	15	15	17	17	17	22	185						
Lehikoinen, Viivi (FIN) (1999)	time	6.50	10.70	15.15	19.76	24.48		29.36	34.55	39.98	45.58	51.28		58.04	2 / 6					

reaction time	0.252	interval		4.20	4.45	4.61	4.72		4.88	5.19	5.43	5.60	5.70	6.76		13.26	14.79	16.73
		velocity	6.92	8.33	7.87	7.59	7.42		7.17	6.74	6.45	6.25	6.14	5.92	6.89	7.92	7.10	6.28
H1 lead leg	R	strides	23	16	15	16	16		16	16	18	18	18		172			
Tkachuk, Viktoriya (UKR) (1st time	6.56	10.89	15.33	19.86	24.59		29.51	34.81	40.38	46.16	52.32		59.40		8 / 7			
reaction time	0.225	interval		4.33	4.44	4.53	4.73		4.92	5.30	5.57	5.78	6.16	7.08		13.30	14.95	17.51
		velocity	6.86	8.08	7.88	7.73	7.40		7.11	6.60	6.28	6.06	5.68	5.65	6.73	7.89	7.02	6.00
H1 lead leg	L	strides	22	15	15	15	15		15	16				113				

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			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin-Levrone, Sydne	time		6.13	10.18	14.39	18.64	23.03		27.53	32.31	37.23	42.26	47.40		53.60	3 / 1			
reaction time	0.163	interval		4.05	4.21	4.25	4.39		4.50	4.78	4.92	5.03	5.14	6.20			12.51	13.67	15.09
		velocity	7.34	8.64	8.31	8.24	7.97		7.78	7.32	7.11	6.96	6.81	6.45	7.46		8.39	7.68	6.96
H1 lead leg	R	strides	22	14	14	14	14		15	15	15	15	16	19	173				
Ennadi, Noura (MAR) (1999)	time		6.72	11.07	15.51	19.99	24.61		29.36	34.23	39.28	44.23	49.36		55.26	4 / 2			
reaction time	0.198	interval		4.35	4.44	4.48	4.62		4.75	4.87	5.05	4.95	5.13	5.90			13.27	14.24	15.13
		velocity	6.70	8.05	7.88	7.81	7.58		7.37	7.19	6.93	7.07	6.82	6.78	7.24		7.91	7.37	6.94
H1 lead leg	R	strides	23	15	15	15	15		15	16	16	17	17	19.7	183.7				
Maraval, Louise (FRA) (2001)	time		6.30	10.44	14.70	19.02	23.52		28.19	33.11	38.32	43.81	49.24		55.32	5 / 3			
reaction time	0.159	interval		4.14	4.26	4.32	4.50		4.67	4.92	5.21	5.49	5.43	6.08			12.72	14.09	16.13
		velocity	7.14	8.45	8.22	8.10	7.78		7.49	7.11	6.72	6.38	6.45	6.58	7.23		8.25	7.45	6.51
H1 lead leg	R	strides	23	15	15	15	15		16	16	17	18	17	20.2	187.2				
Giger, Yasmin (SUI) (1999)	time		6.39	10.59	14.85	19.27	23.82		28.54	33.47	38.60	43.90	49.29		55.44	6 / 4			
reaction time	0.138	interval		4.20	4.26	4.42	4.55		4.72	4.93	5.13	5.30	5.39	6.15			12.88	14.20	15.82
		velocity	7.04	8.33	8.22	7.92	7.69		7.42	7.10	6.82	6.60	6.49	6.50	7.22		8.15	7.39	6.64
H1 lead leg	R	strides	23	15	15	15	15		16	16	17	17	17	0.7	166.7				
Muraro, Alice (ITA) (2000)	time		6.45	10.74	15.21	19.68	24.25		29.04	34.03	39.12	44.29	49.53		55.62	2 / 5			
reaction time	0.149	interval		4.29	4.47	4.47	4.57		4.79	4.99	5.09	5.17	5.24	6.09			13.23	14.35	15.50
		velocity	6.98	8.16	7.83	7.83	7.66		7.31	7.01	6.88	6.77	6.68	6.57	7.19		7.94	7.32	6.77
H1 lead leg	R	strides	23	15	15	15	15		16	16	17	17	17	21	187				
Carli, Smith (AUS) (1994)	time		6.41	10.57	14.79	19.13	23.71		28.44	33.45	38.63	43.92	49.37		55.92	7 / 6			
reaction time	0.306	interval		4.16	4.22	4.34	4.58		4.73	5.01	5.18	5.29	5.45	6.55			12.72	14.32	15.92
		velocity	7.02	8.41	8.29	8.06	7.64		7.40	6.99	6.76	6.62	6.42	6.11	7.15		8.25	7.33	6.60
H1 lead leg	L	strides	23	15	15	15	15		15	16	17	17	17	21	186				
Kloster, Line (NOR) (1990)	time		6.32	10.54	14.85	19.34	23.88		28.58	33.58	38.85	44.57	50.46		57.69	8 / 7			
reaction time	0.158	interval		4.22	4.31	4.49	4.54		4.70	5.00	5.27	5.72	5.89	7.23			13.02	14.24	16.88
		velocity	7.12	8.29	8.12	7.80	7.71		7.45	7.00	6.64	6.12	5.94	5.53	6.93		8.06	7.37	6.22
H1 lead leg	R	strides	22	15	15	15	15		15	15	16		17	145					
Tkachuk, Viktoriya (UKR) (1st time	6.63	11.08	15.60	20.21	24.94		29.75	34.84	40.23	45.82	51.53		58.10		9 / 8				
reaction time	0.241	interval		4.45	4.52	4.61	4.73		4.81	5.09	5.39	5.59	5.71	6.57			13.58	14.63	16.69
		velocity	6.79	7.87	7.74	7.59	7.40		7.28	6.88	6.49	6.26	6.13	6.09	6.88		7.73	7.18	6.29
H1 lead leg	L	strides	22	15	15	15	15		15	16	16			129					

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			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Cockrell, Anna (USA) (1997)	time		6.29	10.39	14.71	19.08	23.54		28.03	32.73	37.56	42.68	47.76		53.91	8 / 1			
reaction time	0.209	interval		4.10	4.32	4.37	4.46		4.49	4.70	4.83	5.12	5.08	6.15			12.79	13.65	15.03
		velocity	7.15	8.54	8.10	8.01	7.85		7.80	7.45	7.25	6.84	6.89	6.50	7.42		8.21	7.69	6.99
H1 lead leg	R	strides	22	13	13	14	14		14	14	14	15	15	19	167				
Nielsen, Lina (GBR) (1996)	time		6.39	10.57	14.93	19.29	23.72		28.41	33.30	38.28	43.44	48.59		54.65	7 / 2			
reaction time	0.163	interval		4.18	4.36	4.36	4.43		4.69	4.89	4.98	5.16	5.15	6.06			12.90	14.01	15.29
		velocity	7.04	8.37	8.03	8.03	7.90		7.46	7.16	7.03	6.78	6.80	6.60	7.32		8.14	7.49	6.87
H1 lead leg	L	strides	23	16	16	15	15		16	16	16	16	16	19	184				
Russell, Janieve (JAM) (1993)	time		6.49	10.60	14.78	19.10	23.52		28.09	32.83	37.84	43.06	48.57		54.67	4 / 3			
reaction time	0.196	interval		4.11	4.18	4.32	4.42		4.57	4.74	5.01	5.22	5.51	6.10			12.61	13.73	15.74
		velocity	6.93	8.52	8.37	8.10	7.92		7.66	7.38	6.99	6.70	6.35	6.56	7.32		8.33	7.65	6.67
H1 lead leg	R	strides	23	15	15	15	15		15	16	16	17	17	20	184				
Claes, Hanne (BEL) (1991)	time		6.38	10.50	14.81	19.16	23.59		28.15	33.10	38.16	43.31	48.59		54.80	9 / 4			
reaction time	0.186	interval		4.12	4.31	4.35	4.43		4.56	4.95	5.06	5.15	5.28	6.21			12.78	13.94	15.49
		velocity	7.05	8.50	8.12	8.05	7.90		7.68	7.07	6.92	6.80	6.63	6.44	7.30		8.22	7.53	6.78
H1 lead leg	R	strides	23	15	15	15	15		16	17	17	17	17	21	188				
Jichová, Nikoleta (CZE) (2001)	time		6.34	10.48	14.72	19.18	23.73		28.43	33.42	38.66	44.03	49.38		55.45	5 / 5			
reaction time	0.151	interval		4.14	4.24	4.46	4.55		4.70	4.99	5.24	5.37	5.35	6.07			12.84	14.24	15.96
		velocity	7.10	8.45	8.25	7.85	7.69		7.45	7.01	6.68	6.52	6.54	6.59	7.21		8.18	7.37	6.58
H1 lead leg	R	strides	22	15	15	15	15		15	16	16	17	17	21	184				

Claxton, Grace (PUR) (1993)	time	6.46	10.82	15.26	19.76	24.34	29.09	34.08	39.16	44.48	49.85	56.29	3 / 6					
	reaction time	0.210	interval	4.36	4.44	4.50	4.75	4.99	5.08	5.32	5.37	6.44		13.30	14.32	15.77		
			velocity	6.97	8.03	7.88	7.78	7.64	7.37	7.01	6.89	6.58	6.52	6.21	7.11	7.89	7.33	6.66
	H1 lead leg	R	strides	24	16	16	16	16	17	17	17	17	18	174				
Lehikoinen, Viivi (FIN) (1999)	time	6.49	10.81	15.20	19.68	24.23	28.96	33.89	39.00	44.33	49.89	56.67	2 / 7					
	reaction time	0.189	interval	4.32	4.39	4.48	4.73	4.93	5.11	5.33	5.56	6.78		13.19	14.21	16.00		
			velocity	6.93	8.10	7.97	7.81	7.69	7.40	7.10	6.85	6.57	6.29	5.90	7.06	7.96	7.39	6.56
	H1 lead leg	L	strides	24		16	16	16	16	17	17	17	18	141				
Hoffman, Lauren (PHI) (1999)	time	6.46	10.66	14.96	19.35	23.86	28.63	33.72	39.07	44.69	50.60	57.84	6 / 8					
	reaction time	0.192	interval	4.20	4.30	4.39	4.77	5.09	5.35	5.62	5.91	7.24		12.89	14.37	16.88		
			velocity	6.97	8.33	8.14	7.97	7.76	7.34	6.88	6.54	6.23	5.92	5.52	6.92	8.15	7.31	6.22
	H1 lead leg	L	strides	23	15	15	15	15	16	17	18	19	19	153				

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		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Boi, Femke (NED) (2000)	time	6.34	10.40	14.52	18.65	22.92	27.41	32.14	37.06	42.14	47.30	53.38	4 / 1					
	reaction time	0.196	interval	4.06	4.12	4.13	4.49	4.73	4.92	5.08	5.16	6.08				12.31	13.49	15.16
			velocity	7.10	8.62	8.50	8.47	8.20	7.80	7.40	7.11	6.89	6.78	6.58	7.49	8.53	7.78	6.93
	H1 lead leg	L	strides	21	14	14	14	14	15	15	15	15	15	18	170			
Salmon, Shiann (JAM) (1999)	time	6.15	10.21	14.38	18.72	23.21	27.81	32.55	37.44	42.54	47.70	53.95	8 / 2					
	reaction time	0.186	interval	4.06	4.17	4.34	4.60	4.74	4.89	5.10	5.16	6.25				12.57	13.83	15.15
			velocity	7.32	8.62	8.39	8.06	7.80	7.61	7.38	7.16	6.86	6.78	6.40	7.41	8.35	7.59	6.93
	H1 lead leg	L	strides	22	15	14	14	14	15	15	16	16	16	20	177			
Geldenhuis, Zeney (RSA) (2000)	time	6.40	10.65	15.10	19.51	24.10	28.80	33.61	38.59	43.74	48.82	54.73	3 / 3					
	reaction time	0.170	interval	4.25	4.45	4.41	4.70	4.81	4.98	5.15	5.08	5.91				13.11	14.10	15.21
			velocity	7.03	8.24	7.87	7.94	7.63	7.45	7.28	7.03	6.80	6.89	6.77	7.31	8.01	7.45	6.90
	H1 lead leg	L	strides	22	15	15	15	15	15	15	16	16	16	19	179			
Ryzhykova, Anna (UKR) (1999)	time	6.47	10.65	14.94	19.27	23.76	28.44	33.29	38.31	43.48	48.85	55.13	6 / 4					
	reaction time	0.187	interval	4.18	4.29	4.33	4.68	4.85	5.02	5.17	5.37	6.28				12.80	14.02	15.56
			velocity	6.96	8.37	8.16	8.08	7.80	7.48	7.22	6.97	6.77	6.52	6.37	7.26	8.20	7.49	6.75
	H1 lead leg	R	strides	21	14	14	14	14	15	15	15	15	16	19.5	172.5			
Knight, Jessie (GBR) (1994)	time	6.43	10.69	15.04	19.41	23.97	28.71	33.69	38.82	44.04	49.35	55.39	5 / 5					
	reaction time	0.171	interval	4.26	4.35	4.37	4.74	4.98	5.13	5.22	5.31	6.04				12.98	14.28	15.66
			velocity	7.00	8.22	8.05	8.01	7.68	7.38	7.03	6.82	6.70	6.59	6.62	7.22	8.09	7.35	6.70
	H1 lead leg	R	strides	22	15	15	15	15	15	15	15	15	15	19	176			
Mo Jiadie (CHN) (2000)	time	6.32	10.49	14.84	19.21	23.79	28.52	33.45	38.55	43.76	49.01	55.43	2 / 6					
	reaction time	0.190	interval	4.17	4.35	4.37	4.73	4.93	5.10	5.21	5.25	6.42				12.89	14.24	15.56
			velocity	7.12	8.39	8.05	8.01	7.64	7.40	7.10	6.86	6.72	6.67	6.23	7.22	8.15	7.37	6.75
	H1 lead leg	L	strides	23	15	15	15	16	16	17	17	17	17	22	190			
Yukich, Alanah (AUS) (1998)	time	6.28	10.37	14.59	18.99	23.51	28.16	33.13	38.27	43.54	48.92	55.46	9 / 7					
	reaction time	0.148	interval	4.09	4.22	4.40	4.65	4.97	5.14	5.27	5.38	6.54				12.71	14.14	15.79
			velocity	7.17	8.56	8.29	7.95	7.74	7.53	7.04	6.81	6.64	6.51	6.12	7.21	8.26	7.43	6.65
	H1 lead leg	R	strides	22	15	15	15	15	15	16	16	16	17	20	182			
Angounou, Linda (CMR) (1999)	time	6.45	10.74	15.10	19.54	24.14	28.83	33.71	38.80	44.12	49.42	55.69	7 / 8					
	reaction time	0.153	interval	4.29	4.36	4.44	4.69	4.88	5.09	5.32	5.30	6.27	NR PB			13.09	14.17	15.71
			velocity	6.98	8.16	8.03	7.88	7.61	7.46	7.17	6.88	6.58	6.60	6.38	7.18	8.02	7.41	6.68
	H1 lead leg	R	strides	23	15	15	15	15	15	15	16	16	16	20.5	181.5			

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		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Jones, Jasmine (USA) (2001)	time	6.14	10.25	14.44	18.66	23.07	27.64	32.40	37.26	42.27	47.43	53.60	5 / 1					
	reaction time	0.173	interval	4.11	4.19	4.22	4.57	4.76	4.86	5.01	5.16	6.17				12.52	13.74	15.03
			velocity	7.33	8.52	8.35	8.29	7.94	7.66	7.35	7.20	6.99	6.78	6.48	7.46	8.39	7.64	6.99
	H1 lead leg	R	strides	22	14	14	14	14	15	15	15	15	15	18.5	171.5			
Joseph, Rogail (RSA) (2000)	time	6.51	10.94	15.24	19.51	23.92	28.51	33.30	38.27	43.30	48.51	54.56	9 / 2					
	reaction time	0.221	interval	4.43	4.30	4.27	4.59	4.79	4.97	5.03	5.21	6.05	PB			13.00	13.79	15.21
			velocity	6.91	7.90	8.14	8.20	7.94	7.63	7.31	7.04	6.96	6.72	6.61	7.33	8.08	7.61	6.90
	H1 lead leg	L	strides	23	15	15	15	15	15	16	16	17	17	20	184			
Sutherland, Savannah (CAN) (1999)	time	6.42	10.59	14.74	18.97	23.46	28.00	32.88	38.07	43.24	48.69	54.80	3 / 3					
	reaction time	0.179	interval	4.17	4.15	4.23	4.54	4.88	5.19	5.17	5.45	6.11				12.55	13.91	15.81
			velocity	7.01	8.39	8.43	8.27	7.80	7.71	7.17	6.74	6.77	6.42	6.55	7.30	8.37	7.55	6.64
	H1 lead leg	R	strides	23	15	15	15	15	15	16	16	16	17	20	183			
Couckuyt, Paulien (BEL) (1999)	time	6.45	10.57	14.83	19.16	23.68	28.48	33.50	38.56	43.68	48.84	54.90	2 / 4					
	reaction time	0.228	interval	4.12	4.26	4.33	4.80	5.02	5.06	5.12	5.16	6.06				12.71	14.34	15.34
			velocity	6.98	8.50	8.22	8.08	7.74	7.29	6.97	6.92	6.84	6.78	6.60	7.29	8.26	7.32	6.84
	H1 lead leg	L	strides	23	15	15	15	15	16	16	17	17	17	20	186			

		time	6.53	10.62	14.86	19.23	23.83	28.54	33.44	38.39	43.59	48.90	54.94	8 / 5	12.70	14.21	15.46
Woodruff, Gianna (PAN) (1991)	reaction time	0.216	interval	4.09	4.24	4.37	4.60	4.71	4.90	4.95	5.20	5.31	6.04		8.27	7.39	6.79
	velocity	6.89	8.56	8.25	8.01	7.61		7.43	7.14	7.07	6.73	6.59	6.62	7.28			
	H1 lead leg	L	strides	22	14	14	15	15	15	15	16	16	19	176			
Folorunso, Ayomide (ITA) (1991)	time	6.36	10.53	14.80	19.19	23.77	28.46	33.34	38.29	43.43	48.74	55.03	7 / 6	12.83	14.15	15.40	
	reaction time	0.195	interval	4.17	4.27	4.39	4.58	4.69	4.88	4.95	5.14	5.31	6.29		8.18	7.42	6.82
	velocity	7.08	8.39	8.20	7.97	7.64	7.46	7.17	7.07	6.81	6.59	6.36	7.27				
	H1 lead leg	R	strides	23	15	15	15	16	16	16	16	17	21	185			
Grebo, Shana (FRA) (2000)	time	6.41	10.60	14.88	19.28	23.91	28.77	33.95	39.25	44.76	50.37	56.70	6 / 7	12.87	14.67	16.42	
	reaction time	0.205	interval	4.19	4.28	4.40	4.63	4.86	5.18	5.30	5.51	5.61	6.33		8.16	7.16	6.39
	velocity	7.02	8.35	8.18	7.95	7.56	7.20	6.76	6.60	6.35	6.24	6.32	7.05				
	H1 lead leg	R	strides	25	16	15	16	17	17	17	18		157				
Krafzik, Carolina (GER) (1991)	time	6.27	10.27	14.36	18.59	23.10	27.91	33.81	39.38	45.16	51.25	58.49	4 / 8	12.32	15.22	17.44	
	reaction time	0.181	interval	4.00	4.09	4.23	4.51	4.81	5.90	5.57	5.78	6.09	7.24		8.52	6.90	6.02
	velocity	7.18	8.75	8.56	8.27	7.76	7.28	5.93	6.28	6.06	5.75	5.52	6.84				
	H1 lead leg	L	strides	23	15	15	15	16	20	19	19		157				

Heat 1

date 04-Aug-24

Paris 2024 Olympic Games - Results Book (2024)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Clayton, Rushell (JAM) (1991)	time	6.15	10.11	14.19	18.38	22.84	27.61	32.54	37.60	42.81	47.98	54.32	7 / 1	12.23	14.16	15.44		
	reaction time	0.148	interval	3.96	4.08	4.19	4.46	4.77	4.93	5.06	5.21	5.17	6.34		8.59	7.42	6.80	
	velocity	7.32	8.84	8.58	8.35	7.85	7.34	7.10	6.92	6.72	6.57	6.31	7.36					
	H1 lead leg	L	strides	22	14	14	14	15	15	15	15	16	19	174				
Diallo, Fatoumata (POR) (2001)	time	6.28	10.47	14.73	18.98	23.38	27.98	32.89	37.94	43.24	48.52	54.75	3 / 2	12.70	13.91	15.63		
	reaction time	0.192	interval	4.19	4.26	4.25	4.40	4.60	4.91	5.05	5.30	5.28	6.23		8.27	7.55	6.72	
	velocity	7.17	8.35	8.22	8.24	7.95	7.61	7.13	6.93	6.60	6.63	6.42	7.31					
	H1 lead leg	R	strides	24	16	16	16	16	17	17	18	18	22	196				
luel, Amalie (NOR) (1994)	time	6.44	10.54	14.68	18.92	23.39	28.06	32.90	37.92	43.17	48.48	54.82	5 / 3	12.48	13.98	15.58		
	reaction time	0.165	interval	4.10	4.14	4.24	4.47	4.67	4.84	5.02	5.25	5.31	6.34		8.41	7.51	6.74	
	velocity	6.99	8.54	8.45	8.25	7.83	7.49	7.23	6.97	6.67	6.59	6.31	7.30					
	H1 lead leg	L	strides	23	15	15	15	15	15	15	16	16	19.5	179.5				
Peeters, Cathelijn (NED) (1991)	time	6.56	10.75	15.00	19.41	23.89	28.55	33.56	38.58	43.75	49.01	54.84	8 / 4	12.85	14.15	15.45		
	reaction time	0.212	interval	4.19	4.25	4.41	4.48	4.66	5.01	5.02	5.17	5.26	5.83		8.17	7.42	6.80	
	velocity	6.86	8.35	8.24	7.94	7.81	7.51	6.99	6.97	6.77	6.65	6.86	7.29					
	H1 lead leg	R	strides	23	15	15	15	15	16	16	16	18	20	184				
van den Broeck, Naomi (BEL) (2001)	time	6.49	10.84	15.22	19.72	24.45	29.42	34.50	39.48	44.66	49.77	55.51	9 / 5	13.23	14.78	15.27		
	reaction time	0.137	interval	4.35	4.38	4.50	4.73	4.97	5.08	4.98	5.18	5.11	5.74		7.94	7.10	6.88	
	velocity	6.93	8.05	7.99	7.78	7.40	7.04	6.89	7.03	6.76	6.85	6.97	7.21					
	H1 lead leg	L	strides	25	16	16	17	17	18	18	19	22	168					
Sartori, Rebecca (ITA) (1997)	time	6.20	10.21	14.37	18.70	23.25	28.06	33.14	38.41	43.87	49.35	55.81	6 / 6	12.50	14.44	16.21		
	reaction time	0.210	interval	4.01	4.16	4.33	4.55	4.81	5.08	5.27	5.46	5.48	6.46		8.40	7.27	6.48	
	velocity	7.26	8.73	8.41	8.08	7.69	7.28	6.89	6.64	6.41	6.39	6.19	7.17					
	H1 lead leg	L	strides	22	15	15	15	16	16	17	17	17	20	185				
da Silva, Chayenne (BRA) (2001)	time	6.36	10.54	14.82	19.17	23.65	28.44	33.48	38.63	44.01	49.54	56.52	4 / 7	12.81	14.31	16.06		
	reaction time	0.156	interval	4.18	4.28	4.35	4.48	4.79	5.04	5.15	5.38	5.53	6.98		8.20	7.34	6.54	
	velocity	7.08	8.37	8.18	8.05	7.81	7.31	6.94	6.80	6.51	6.33	5.73	7.08					
	H1 lead leg	L	strides	23	15	15	15	16	16	17	17	17	21	187				

2024 Japanese National High School Championships (Fukuoka, JPN)

FINAL

date 30-Jul-24

Takushima (2024) - national high school sports festival - biomechanics data

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Hatakeyama, Konomi (JPN) (2006)	time	6.57	11.21	15.92	20.64	25.48	30.63	35.92	41.32	46.71	52.19	58.23	7 / 1	14.07	15.28	16.27		
	reaction time	0.183	interval	4.64	4.71	4.72	4.84	5.15	5.29	5.40	5.39	5.48	6.04	PB	7.46	6.87	6.45	
	velocity	6.85	7.54	7.43	7.42	7.23	6.80	6.62	6.48	6.49	6.39	6.62	6.87					
	H1 lead leg	strides	22	15	15	16	16	17	17	17	17	17	21	190				
Tanaka, Miu (JPN) (2006)	time	6.71	11.18	15.93	20.65	25.51	30.61	36.04	41.41	46.78	52.35	58.75	5 / 2	13.94	15.39	16.31		
	reaction time	0.185	interval	4.47	4.75	4.72	4.86	5.10	5.43	5.37	5.37	5.57	6.40	PB	7.53	6.82	6.44	
	velocity	6.71	7.83	7.37	7.42	7.20	6.86	6.45	6.52	6.52	6.28	6.25	6.81					
	H1 lead leg	strides	23	16	16	16	16	16	16	17	17	17	22	192				
Yajima, Aki (JPN) (2007)	time	6.87	11.56	16.43	21.27	26.16	31.23	36.50	41.86	47.50	53.20	59.49	2 / 3	14.40	15.23	16.70		
	reaction time	0.196	interval	4.69	4.87	4.84	4.89	5.07	5.27	5.36	5.64	5.70	6.29		7.29	6.89	6.29	
	velocity	6.55	7.46	7.19	7.23	7.16	6.90	6.64	6.53	6.21	6.14	6.36	6.72					
	H1 lead leg	strides	23	17	17	17	17	17	17	17	17	19	22	200				
Hata, Yuki (JPN) (2006)	time	6.89	11.46	16.12	20.80	25.69	30.83	36.19	41.64	47.20	52.94	59.62	8 / 4	13.91	15.39	16.75		
	reaction time	0.194	interval	4.57	4.66	4.68	4.89	5.14	5.36	5.45	5.56	5.74	6.68	PB				

	velocity	6.53	7.66	7.51	7.48	7.16		6.81	6.53	6.42	6.29	6.10	5.99	6.71		7.55	6.82	6.27
H1 lead leg	strides	23	17	17	17	17		17	17	17	17	17	22	198				
Katou, Misato (JPN) (2007)	time	6.84	11.44	16.25	21.12	26.11		31.33	36.74	42.19	47.71	53.35		59.76	4 / 5			
reaction time	0.187 interval		4.60	4.81	4.87	4.99		5.22	5.41	5.45	5.52	5.64	6.41			14.28	15.62	16.61
	velocity	6.58	7.61	7.28	7.19	7.01		6.70	6.47	6.42	6.34	6.21	6.24	6.69		7.35	6.72	6.32
H1 lead leg	strides	23	17	17	17	17		17	18	18	19	19	24	206				
Matsuki, Ai (JPN) (2006)	time	6.91	11.54	16.37	21.24	26.21		31.33	36.64	42.08	47.75	53.54		60.06	3 / 6			
reaction time	0.185 interval		4.63	4.83	4.87	4.97		5.12	5.31	5.44	5.67	5.79	6.52			14.33	15.40	16.90
	velocity	6.51	7.56	7.25	7.19	7.04		6.84	6.59	6.43	6.17	6.04	6.13	6.66		7.33	6.82	6.21
H1 lead leg	strides		15	15	17	17		17	17	19	19	19	23	178				
Matsuo, Kazuki (JPN) (2006)	time	6.82	11.44	16.23	21.05	26.01		31.50	37.02	42.56	48.25	53.95		60.16	6 / 7			
reaction time	0.184 interval		4.62	4.79	4.82	4.96		5.49	5.52	5.54	5.69	5.70	6.21			14.23	15.97	16.93
	velocity	6.60	7.58	7.31	7.26	7.06		6.38	6.34	6.32	6.15	6.14	6.44	6.65		7.38	6.57	6.20
H1 lead leg	strides	24	17	17	17	17		17	19	19	19	19	23	208				
Yamaga, Nagi (JPN) (2006)	time	7.09	12.01	17.17	22.27	27.58		33.20	38.81	44.44	50.12	55.84		62.16	9 / 8			
reaction time	0.199 interval		4.92	5.16	5.10	5.31		5.62	5.61	5.63	5.68	5.72	6.32			15.18	16.54	17.03
	velocity	6.35	7.11	6.78	6.86	6.59		6.23	6.24	6.22	6.16	6.12	6.33	6.44		6.92	6.35	6.17
H1 lead leg	strides	22	16	16	16	16		16	17	18	18	18	22	195				

2024 London Athletics Meet (London, GBR)

FINAL

date 20-Jul-24

Omega Timing (2024) - diamond league race analysis

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Boi, Femke (NED) (2000)	time	6.22	10.14	14.10	18.13	22.32		26.71	31.21	35.88	40.70	45.55		51.30	6 / 1			
reaction time	0.175 interval		3.92	3.96	4.03	4.19		4.39	4.50	4.67	4.82	4.85	5.75			11.91	13.08	14.34
	velocity	7.23	8.93	8.84	8.68	8.35		7.97	7.78	7.49	7.26	7.22	6.96	7.80		8.82	8.03	7.32
H1 lead leg	L strides	22	14	14	14	14		14	14	15	15	15	19	170				
Little, Shamier (USA) (1995)	time	6.25	10.31	14.45	18.71	23.11		27.67	32.28	37.01	41.91	46.98		52.78	5 / 2			
reaction time	0.207 interval		4.06	4.14	4.26	4.40		4.56	4.61	4.73	4.90	5.07	5.80			12.46	13.57	14.70
	velocity	7.20	8.62	8.45	8.22	7.95		7.68	7.59	7.40	7.14	6.90	6.90	7.58		8.43	7.74	7.14
H1 lead leg	R strides	23	15	15	15	15		15	15	15			19	147				
Clayton, Rushell (JAM) (199)	time	6.25	10.18	14.20	18.30	22.55		27.07	31.78	36.64	41.70	46.93		53.24	4 / 3			
reaction time	0.132 interval		3.93	4.02	4.10	4.25		4.52	4.71	4.86	5.06	5.23	6.31			12.05	13.48	15.15
	velocity	7.20	8.91	8.71	8.54	8.24		7.74	7.43	7.20	6.92	6.69	6.34	7.51		8.71	7.79	6.93
H1 lead leg	L strides	22	14	14	14	14		15	15	15			19	142				
Knight, Andrenette (JAM) (19)	time	6.29	10.36	14.57	18.96	23.41		27.99	32.69	37.51	42.59	47.64		53.69	8 / 4			
reaction time	0.170 interval		4.07	4.21	4.39	4.45		4.58	4.70	4.82	5.08	5.05	6.05			12.67	13.73	14.95
	velocity	7.15	8.60	8.31	7.97	7.87		7.64	7.45	7.26	6.89	6.93	6.61	7.45		8.29	7.65	7.02
H1 lead leg	R strides	23	15	15	15	15		15	15					113				
Knight, Jessie (GBR) (1994)	time	6.34	10.50	14.77	19.06	23.58		28.30	33.11	38.05	43.12	48.25		54.15	1 / 5			
reaction time	0.159 interval		4.16	4.27	4.29	4.52		4.72	4.81	4.94	5.07	5.13	5.90			12.72	14.05	15.14
	velocity	7.10	8.41	8.20	8.16	7.74		7.42	7.28	7.09	6.90	6.82	6.78	7.39		8.25	7.47	6.94
H1 lead leg	R strides	22	15		15	15		15	15					97				
Peeters, Cathelijn (NED) (19)	time	6.56	10.73	14.97	19.28	23.68		28.23	33.07	38.08	43.36	48.68		54.50	2 / 6			
reaction time	0.196 interval		4.17	4.24	4.31	4.40		4.55	4.84	5.01	5.28	5.32	5.82			12.72	13.79	15.61
	velocity	6.86	8.39	8.25	8.12	7.95		7.69	7.23	6.99	6.63	6.58	6.87	7.34		8.25	7.61	6.73
H1 lead leg	L strides	23	15		15	15		15	16					116				
Salmon, Shiann (JAM) (1999)	time	6.29	10.43	14.75	19.13	23.61		28.28	33.18	38.12	43.15	48.28		54.50	3 / 7			
reaction time	0.169 interval		4.14	4.32	4.38	4.48		4.67	4.90	4.94	5.03	5.13	6.22			12.84	14.05	15.10
	velocity	7.15	8.45	8.10	7.99	7.81		7.49	7.14	7.09	6.96	6.82	6.43	7.34		8.18	7.47	6.95
H1 lead leg	L strides	22	15	15	15	15		16	16					130				
Nielsen, Lina (GBR) (1996)	time	6.28	10.42	14.65	19.08	23.68		28.40	33.27	38.31	43.46	48.62		54.65	7 / 8			
reaction time	0.147 interval		4.14	4.23	4.43	4.60		4.72	4.87	5.04	5.15	5.16	6.03			12.80	14.19	15.35
	velocity	7.17	8.45	8.27	7.90	7.61		7.42	7.19	6.94	6.80	6.78	6.63	7.32		8.20	7.40	6.84
H1 lead leg	L strides	22	15	15	15	15		15	16					113				

2024 Resisprint International (La Chaux-de-Fonds, SUI) (TV Analysis)

A FINAL

date 14-Jul-24

Henson (2024) - Athlete First: 2024 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Boi, Femke (NED) (2000)	time	6.16	10.09	14.16	18.20	22.40		26.68	31.10	35.77	40.50	45.33		50.95	4 / 1			
reaction time	interval		3.93	4.07	4.04	4.20		4.28	4.42	4.67	4.73	4.83	5.62	AR		12.04	12.90	14.23
	velocity	7.31	8.91	8.60	8.66	8.33		8.18	7.92	7.49	7.40	7.25	7.12	7.85		8.72	8.14	7.38
H1 lead leg	L strides	22	14	14	14	14		14	14	15	15	15	19	170				
Adekoya, Kemi (BRN) (1993)	time	6.38	10.45	14.54	18.76	23.17		27.66	32.19	36.95	42.12			53.41	5 / 2			
reaction time	interval		4.07	4.09	4.22	4.41		4.49	4.53	4.76	5.17					12.38	13.43	
	velocity	7.05	8.60	8.56	8.29	7.94		7.80	7.73	7.35	6.77			7.49		8.48	7.82	
H1 lead leg	R strides	23	15	15	15	15		15	15	15	16			144				

2024 USA Olympic Trials (Eugene, OR)

FINAL

date 30-Jun-24

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

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
McLaughlin-Levrone, Sydne	time	6.08	9.99	14.05	18.19	22.45	24.41	26.89	31.44	36.12	40.79	45.44		50.65	5 / 1				
	reaction time		interval	3.91	4.06	4.14	4.26	4.44	4.55	4.68	4.67	4.65	5.21	WR		12.11	13.25	14.00	
		velocity	7.40	8.95	8.62	8.45	8.22	8.19	7.88	7.69	7.48	7.49	7.53	7.68	7.90		8.67	7.92	7.50
	H1 lead leg	R	strides	22	14	14	14	14	15	15	15	15	15	18	171				
Cockrell, Anna (USA) (1997)	time	6.23	10.14	14.22	18.48	22.83	24.85	27.40	32.05	36.86	41.81	46.74		52.64	6 / 2				
	reaction time		interval	3.91	4.08	4.26	4.35	4.57	4.65	4.81	4.95	4.93	5.90	PB		12.25	13.57	14.69	
		velocity	7.22	8.95	8.58	8.22	8.05	8.05	7.66	7.53	7.28	7.07	7.10	6.78	7.60		8.57	7.74	7.15
	H1 lead leg	R	strides	22	14	14	14	15	15	15	15	15	19	172					
Jones, Jasmine (USA) (2001)	time	6.20	10.20	14.40	18.75	23.25	25.20	27.79	32.44	37.26	42.12	46.96		52.77	8 / 3				
	reaction time		interval	4.00	4.20	4.35	4.50	4.54	4.65	4.82	4.86	4.84	5.81	PB		12.55	13.69	14.52	
		velocity	7.26	8.75	8.33	8.05	7.78	7.94	7.71	7.53	7.26	7.20	7.23	6.88	7.58		8.37	7.67	7.23
	H1 lead leg	R	strides	14	15	14	15	15	15	15	15	15	18.2	151.2					
Little, Shamier (USA) (1995)	time	6.32	10.41	14.63	18.94	23.37	25.30	27.79	32.39	37.20	42.28	47.21		52.98	7 / 4				
	reaction time		interval	4.09	4.22	4.31	4.43	4.42	4.60	4.81	5.08	4.93	5.77			12.62	13.45	14.82	
		velocity	7.12	8.56	8.29	8.12	7.90	7.91	7.92	7.61	7.28	6.89	7.10	6.93	7.55		8.32	7.81	7.09
	H1 lead leg	R	strides	23	15	15	15	15	15	15	15	16	16	19.2	179.2				
Glenn, Rachel (USA) (2002)	time	6.33	10.29	14.52	18.82	23.25	25.28	27.85	32.54	37.42	42.41	47.39		53.46	4 / 5				
	reaction time		interval	3.96	4.23	4.30	4.43	4.60	4.69	4.88	4.99	4.98	6.07	PB		12.49	13.72	14.85	
		velocity	7.11	8.84	8.27	8.14	7.90	7.91	7.61	7.46	7.17	7.01	7.03	6.59	7.48		8.41	7.65	7.07
	H1 lead leg	R	strides	21	14	14	14	14	14	14	15	15	15	18.7	168.7				
Muhammad, Dalilah (USA) (2002)	time	6.29	10.40	14.59	18.93	23.45	25.44	28.00	32.71	37.75	43.13	48.33		54.27	9 / 6				
	reaction time		interval	4.11	4.19	4.34	4.52	4.55	4.71	5.04	5.38	5.20	5.94			12.64	13.78	15.62	
		velocity	7.15	8.52	8.35	8.06	7.74	7.86	7.69	7.43	6.94	6.51	6.73	6.73	7.37		8.31	7.62	6.72
	H1 lead leg	R	strides	15	15	15	15	15	15	15	15	16	16	19.2	156.2				
Garrett, Akala (USA) (2005)	time	6.53	10.69	15.02	19.41	23.96	25.96	28.70	33.55	38.74	43.90	48.95		55.01	1 / 7				
	reaction time		interval	4.16	4.33	4.39	4.55	4.74	4.85	5.19	5.16	5.05	6.06			12.88	14.14	15.40	
		velocity	6.89	8.41	8.08	7.97	7.69	7.70	7.38	7.22	6.74	6.78	6.93	6.60	7.27		8.15	7.43	6.82
	H1 lead leg	R	strides	23	15	15	15	15	16	16	17	17	19.5	183.5					
Tate, Cassandra (USA) (1990)	time	6.29	10.30	14.58	18.93	23.40	25.41	28.05	32.82	38.10	43.53	49.02		55.37	2 / 8				
	reaction time		interval	4.01	4.28	4.35	4.47	4.65	4.77	5.28	5.43	5.49	6.35			12.64	13.89	16.20	
		velocity	7.15	8.73	8.18	8.05	7.83	7.87	7.53	7.34	6.63	6.45	6.38	6.30	7.22		8.31	7.56	6.48
	H1 lead leg	R	strides	22	14	14	15	15	15	16	16	16	17	20	180				
Townsend, Sydni (USA) (2000)	time	6.40	10.53	14.82	19.25	23.81	25.90	28.53	33.37	38.47	43.73	49.03		55.47	3 / 9				
	reaction time		interval	4.13	4.29	4.43	4.56	4.72	4.84	5.10	5.26	5.30	6.44			12.85	14.12	15.66	
		velocity	7.03	8.47	8.16	7.90	7.68	7.72	7.42	7.23	6.86	6.65	6.60	6.21	7.21		8.17	7.44	6.70
	H1 lead leg	L	strides	23	16	16	16	17	17	17	17	18	22.5	195.5					

Semi-Final 3

date 29-Jun-24

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

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Cockrell, Anna (USA) (1997)	time	6.22	10.06	14.14	18.48	22.83	24.83	27.33	31.99	36.89	41.91	47.02		52.95	5 / 1				
	reaction time		interval	3.84	4.08	4.34	4.35	4.50	4.66	4.90	5.02	5.11	5.93	PB		12.26	13.51	15.03	
		velocity	7.23	9.11	8.58	8.06	8.05	8.05	7.78	7.51	7.14	6.97	6.85	6.75	7.55		8.56	7.77	6.99
	H1 lead leg	R	strides	22	14	14	14	14	14	15	15	15	15	19	171				
Jones, Jasmine (USA) (2001)	time	6.26	10.31	14.41	18.76	23.04	25.00	27.50	32.16	37.03	41.95	47.07		53.66	6 / 2				
	reaction time		interval	4.05	4.10	4.35	4.28	4.46	4.66	4.87	4.92	5.12	6.59			12.50	13.40	14.91	
		velocity	7.19	8.64	8.54	8.05	8.18	8.00	7.85	7.51	7.19	7.11	6.84	6.07	7.45		8.40	7.84	7.04
	H1 lead leg	R	strides	14	14	14	14	15	15	15	15	16	19	151					
Garrett, Akala (USA) (2005)	time	6.49	10.50	14.58	18.87	23.29	25.28	27.87	32.78	37.92	43.08	48.57		55.34	8 / 3				
	reaction time		interval	4.01	4.08	4.29	4.42	4.58	4.91	5.14	5.16	5.49	6.77			12.38	13.91	15.79	
		velocity	6.93	8.73	8.58	8.16	7.92	7.91	7.64	7.13	6.81	6.78	6.38	5.91	7.23		8.48	7.55	6.65
	H1 lead leg	R	strides	15	15	15	15	16	16	17	17	17	20	163					
Wise, Deshae (USA) (1999)	time	6.54	10.92	15.15	19.69	24.28	26.31	28.93	33.83	38.93	44.22	49.61		55.63	9 / 4				
	reaction time		interval	4.38	4.23	4.54	4.59	4.65	4.90	5.10	5.29	5.39	6.02			13.15	14.14	15.78	
		velocity	6.88	7.99	8.27	7.71	7.63	7.60	7.53	7.14	6.86	6.62	6.49	6.64	7.19		7.98	7.43	6.65
	H1 lead leg	L	strides	16	16	16	16	16	16	16	16	17	17	19.7	165.7				
Wright, Jessica (USA) (2000)	time	6.62	10.60	14.86	19.32	23.89	25.95	28.54	33.50	38.67	44.11	49.57		55.88	4 / 5				
	reaction time		interval	3.98	4.26	4.46	4.57	4.65	4.96	5.17	5.44	5.46	6.31			12.70	14.18	16.07	
		velocity	6.80	8.79	8.22	7.85	7.66	7.71	7.53	7.06	6.77	6.43	6.41	6.34	7.16		8.27	7.40	6.53
	H1 lead leg	L	strides	24	15	16	16	16	16	17	17	18	18	22	195				
Bellamy, Shani'a (USA) (2002)	time	6.41	10.47	14.61	18.90	23.25	25.18	27.76	32.48	37.64	43.15	49.02		56.24	7 / 6				
	reaction time		interval	4.06	4.14	4.29	4.35	4.51	4.72	5.16	5.51	5.87	7.22			12.49	13.58	16.54	

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

	velocity	7.02	8.62	8.45	8.16	8.05	7.94	7.76	7.42	6.78	6.35	5.96	5.54	7.11	8.41	7.73	6.35
H1 lead leg	L strides		15	15	15	15		15	16	16	16	17	20.2	160.2			
Spencer, Ashley (USA) (1993)	time	6.53	10.69	14.91	19.36	24.10	26.17	28.88	33.91	39.21	44.73	50.48		57.37	1 / 7		
reaction time	interval		4.16	4.22	4.45	4.74		4.78	5.03	5.30	5.52	5.75	6.89		12.83	14.55	16.57
	velocity	6.89	8.41	8.29	7.87	7.38	7.64	7.32	6.96	6.60	6.34	6.09	5.81	6.97	8.18	7.22	6.34
H1 lead leg	L strides		23	15	15	15		15	16	16		17	20	167			
Young, Milan (USA) (1999)	time	6.39	10.51	14.85	19.28	23.90	26.07	28.79	33.89	39.35	45.33	51.72		59.43	3 / 8		
reaction time	interval		4.12	4.34	4.43	4.62		4.89	5.10	5.46	5.98	6.39	7.71		12.89	14.61	17.83
	velocity	7.04	8.50	8.06	7.90	7.58	7.67	7.16	6.86	6.41	5.85	5.48	5.19	6.73	8.15	7.19	5.89
H1 lead leg	R strides		23	15	15	15		15	15	16		18	21	168			
Watkins, Simone (USA) (200)	time	6.55	10.74	15.14	19.61	24.32	26.49	29.29	34.87	40.57	47.00	53.60		61.33	2 / 9		
reaction time	interval		4.19	4.40	4.47	4.71		4.97	5.58	5.70	6.43	6.60	7.73		13.06	15.26	18.73
	velocity	6.87	8.35	7.95	7.83	7.43	7.55	7.04	6.27	6.14	5.44	5.30	5.17	6.52	8.04	6.88	5.61
H1 lead leg	L strides		23	15	15	15		16	16	17		18	20	170			

Semi-Final 2

date 29-Jun-24

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

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Little, Shamier (USA) (1995)	time	6.34	10.42	14.63	19.00	23.45	25.42	27.87	32.51	37.41	42.72	47.77		53.49	7 / 1			
reaction time	interval		4.08	4.21	4.37	4.45		4.42	4.64	4.90	5.31	5.05	5.72			12.66	13.51	15.26
	velocity	7.10	8.58	8.31	8.01	7.87	7.87	7.92	7.54	7.14	6.59	6.93	6.99	7.48	8.29	7.77	6.88	
H1 lead leg	R strides		23	15	15	15		15	15	15	16	16	19	179				
Glenn, Rachel (USA) (2002)	time	6.33	10.42	14.54	18.90	23.31	25.33	27.83	32.54	37.56	42.66	47.77		53.68	5 / 2			
reaction time	interval		4.09	4.12	4.36	4.41		4.52	4.71	5.02	5.10	5.11	5.91	PB		12.57	13.64	15.23
	velocity	7.11	8.56	8.50	8.03	7.94	7.90	7.74	7.43	6.97	6.86	6.85	6.77	7.45	8.35	7.70	6.89	
H1 lead leg	L strides		21	14	14	13	14	14	15	15	15	15	18.2	168.2				
Townsend, Sydni (USA) (20)	time	6.45	10.51	14.63	18.98	23.46	25.42	27.95	32.73	37.85	43.23	48.69		55.26	8 / 3			
reaction time	interval		4.06	4.12	4.35	4.48		4.49	4.78	5.12	5.38	5.46	6.57			12.53	13.75	15.96
	velocity	6.98	8.62	8.50	8.05	7.81	7.87	7.80	7.32	6.84	6.51	6.41	6.09	7.24	8.38	7.64	6.58	
H1 lead leg	L strides		23	16	16	16		16	17	17	18	18	22.7	195.7				
Bookman, Deonca (USA) (1)	time	6.57	10.67	14.81	19.06	23.40	25.49	28.01	32.82	37.99	43.32	48.75		55.61	6 / 4			
reaction time	interval		4.10	4.14	4.25	4.34		4.61	4.81	5.17	5.33	5.43	6.86			12.49	13.76	15.93
	velocity	6.85	8.54	8.45	8.24	8.06	7.85	7.59	7.28	6.77	6.57	6.45	5.83	7.19	8.41	7.63	6.59	
H1 lead leg	R strides		24	16	16	16		17	18	18	18	19	23.2	201.2				
Mustin, Dominique (USA) (2)	time	6.40	10.60	15.02	19.62	24.18	26.28	28.87	33.69	38.81	44.23	49.55		55.94	4 / 5			
reaction time	interval		4.20	4.42	4.60	4.56		4.69	4.82	5.12	5.42	5.32	6.39			13.22	14.07	15.86
	velocity	7.03	8.33	7.92	7.61	7.68	7.61	7.46	7.26	6.84	6.46	6.58	6.26	7.15	7.94	7.46	6.62	
H1 lead leg	R strides		22	15	15	15		15	15	16	16	16	19.2	179.2				
Glynn, Abbey (USA) (2001)	time	6.51	10.83	14.99	19.43	23.96	26.02	28.54	33.35	38.40	43.74	49.50		56.08	9 / 6			
reaction time	interval		4.32	4.16	4.44	4.53		4.58	4.81	5.05	5.34	5.76	6.58			12.92	13.92	16.15
	velocity	6.91	8.10	8.41	7.88	7.73	7.69	7.64	7.28	6.93	6.55	6.08	6.08	7.13	8.13	7.54	6.50	
H1 lead leg	L strides		15	15	15	15		15	15	15	16	18	139					
Melvin, Chelby (USA) (2003)	time	6.44	10.64	14.99	19.41	23.85	25.92	28.63	33.69	38.91	44.42	49.87		56.31	2 / 7			
reaction time	interval		4.20	4.35	4.42	4.44		4.78	5.06	5.22	5.51	5.45	6.44	PB		12.97	14.28	16.18
	velocity	6.99	8.33	8.05	7.92	7.88	7.72	7.32	6.92	6.70	6.35	6.42	6.21	7.10	8.10	7.35	6.49	
H1 lead leg	R strides		22	15	15	15		16	16	17	17	17	20.2	185.2				
Pulse, Jacy (USA) (2001)	time	6.49	10.72	15.05	19.41	23.86	26.01	28.61	33.53	38.86	44.34	49.88		56.59	3 / 8			
reaction time	interval		4.23	4.33	4.36	4.45		4.75	4.92	5.33	5.48	5.54	6.71			12.92	14.12	16.35
	velocity	6.93	8.27	8.08	8.03	7.87	7.69	7.37	7.11	6.57	6.39	6.32	5.96	7.07	8.13	7.44	6.42	
H1 lead leg	R strides		23	15	15	15		17	17	17	17	17	21	189				
Fair, Chloe (USA) (2001)	time	6.62	10.92	15.26	19.68	24.28	26.51	29.35	34.38	39.61	45.17	50.76		73.14	1 / 9			
reaction time	interval		4.30	4.34	4.42	4.60		5.07	5.03	5.23	5.56	5.59	22.38			13.06	14.70	16.38
	velocity	6.80	8.14	8.06	7.92	7.61	7.54	6.90	6.96	6.69	6.29	6.26	1.79	5.47	8.04	7.14	6.41	
H1 lead leg	L strides		25	16	16	17		17	17	18	18	18	178					

Semi-Final 1

date 29-Jun-24

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

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin-Levrone, Sydne	time	6.16	10.13	14.20	18.40	22.70	24.62	27.10	31.75	36.52	41.53	46.55		52.48	6 / 1			
reaction time	interval		3.97	4.07	4.20	4.30		4.40	4.65	4.77	5.01	5.02	5.93			12.24	13.35	14.80
	velocity	7.31	8.82	8.60	8.33	8.14	8.12	7.95	7.53	7.34	6.99	6.97	6.75	7.62	8.58	7.87	7.09	
H1 lead leg	R strides		22	14	14	14		15	15	15	15	16	18	172				
Muhammad, Dalilah (USA) (time	6.35	10.40	14.53	18.84	23.27	25.23	27.73	32.45	37.39	42.59	47.96		54.16	5 / 2			
reaction time	interval		4.05	4.13	4.31	4.43		4.46	4.72	4.94	5.20	5.37	6.20			12.49	13.61	15.51
	velocity	7.09	8.64	8.47	8.12	7.90	7.93	7.85	7.42	7.09	6.73	6.52	6.45	7.39	8.41	7.71	6.77	
H1 lead leg	R strides		22	15	15	15		15	15	15	16	16	20	179				
Tate, Cassandra (USA) (1990)	time	6.37	10.52	14.79	19.25	23.76	25.72	28.33	32.98	37.87	43.08	48.47		54.66	8 / 3			

reaction time	interval		4.15	4.27	4.46	4.51		4.57	4.65	4.89	5.21	5.39	6.19		12.88	13.73	15.49
	velocity	7.06	8.43	8.20	7.85	7.76	7.78	7.66	7.53	7.16	6.72	6.49	6.46	7.32	8.15	7.65	6.78
H1 lead leg	R	strides	15	15	15	15		15	15	15	16	16	19.2	156.2			
Stubler, Bianca (USA) (1999)	time		6.56	10.72	15.01	19.48	24.16	26.27	28.94	33.86	38.98	44.52	50.02		56.42	2 / 4	
reaction time	interval		4.16	4.29	4.47	4.68		4.78	4.92	5.12	5.54	5.50	6.40		12.92	14.38	16.16
	velocity	6.86	8.41	8.16	7.83	7.48	7.61	7.32	7.11	6.84	6.32	6.36	6.25	7.09	8.13	7.30	6.50
H1 lead leg	R	strides	23	15	15	15	16	16	16	16	17	17	21.5	187.5			
Antkoviak, Hannah (USA) (2	time		6.72	11.01	15.29	19.73	24.38	26.41	29.20	34.29	39.56	45.06	50.45		56.45	7 / 5	
reaction time	interval		4.29	4.28	4.44	4.65		4.82	5.09	5.27	5.50	5.39	6.00		13.01	14.56	16.16
	velocity	6.70	8.16	8.18	7.88	7.53	7.57	7.26	6.88	6.64	6.36	6.49	6.67	7.09	8.07	7.21	6.50
H1 lead leg	L	strides	24	15	15	15	15	15	17	17	17	17	167				
Robinson-Hubbard, Kyla (U	time		6.60	10.74	15.02	19.51	24.08	26.18	28.86	33.83	39.09	44.66	50.10		56.48	4 / 6	
reaction time	interval		4.14	4.28	4.49	4.57		4.78	4.97	5.26	5.57	5.44	6.38		12.91	14.32	16.27
	velocity	6.82	8.45	8.18	7.80	7.66	7.64	7.32	7.04	6.65	6.28	6.43	6.27	7.08	8.13	7.33	6.45
H1 lead leg	L	strides	23	16	16	16	16	16	16	17	17	17	20	190			
Garozzo, Aliya Rae (USA) (2	time		6.57	10.90	15.43	20.02	24.81	27.02	29.94	35.33	40.63	46.20	51.48		57.35	1 / 7	
reaction time	interval		4.33	4.53	4.59	4.79		5.13	5.39	5.30	5.57	5.28	5.87		13.45	15.31	16.15
	velocity	6.85	8.08	7.73	7.63	7.31	7.40	6.82	6.49	6.60	6.28	6.63	6.81	6.97	7.81	6.86	6.50
H1 lead leg	R	strides	23	15	15	15	15	16	16	16	16	16	19	182			
McBride, Allyria (USA) (2004	time		6.82	11.28	15.78	20.38	25.02	27.02	29.70	34.79	39.97	45.60	51.08		57.37	9 / 8	
reaction time	interval		4.46	4.50	4.60	4.64		4.68	5.09	5.18	5.63	5.48	6.29		13.56	14.41	16.29
	velocity	6.60	7.85	7.78	7.61	7.54	7.40	7.48	6.88	6.76	6.22	6.39	6.36	6.97	7.74	7.29	6.45
H1 lead leg	L	strides	16	16	15	15	16	16	16	17	17	17	128				
Robinson, Chanler (USA) (2	time		6.77	11.07	15.53	20.05	24.73	26.88	29.65	34.71	39.99	45.54	51.16		57.44	3 / 9	
reaction time	interval		4.30	4.46	4.52	4.68		4.92	5.06	5.28	5.55	5.62	6.28		13.28	14.66	16.45
	velocity	6.65	8.14	7.85	7.74	7.48	7.44	7.11	6.92	6.63	6.31	6.23	6.37	6.96	7.91	7.16	6.38
H1 lead leg	L	strides	25	16	16	15	16	16	16	16	17	17	20	190			

Heat 5

date 27-Jun-24

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

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Little, Shamier (USA) (1995)	time		6.31	10.44	14.77	19.36	23.95	25.99	28.58	33.40	38.49	43.69	48.76		54.93	5 / 1			
reaction time	interval		4.13	4.33	4.59	4.59		4.63	4.82	5.09	5.20	5.07	6.17		13.05	14.04	15.36		
	velocity	7.13	8.47	8.08	7.63	7.63	7.70	7.56	7.26	6.88	6.73	6.90	6.48	7.28	8.05	7.48	6.84		
H1 lead leg		strides																	
Tate, Cassandra (USA) (1990)	time		6.26	10.40	14.67	19.15	23.71	25.68	28.26	33.01	38.15	43.55	48.89		55.55	8 / 2			
reaction time	interval		4.14	4.27	4.48	4.56		4.55	4.75	5.14	5.40	5.34	6.66		12.89	13.86	15.88		
	velocity	7.19	8.45	8.20	7.81	7.68	7.79	7.69	7.37	6.81	6.48	6.55	6.01	7.20	8.15	7.58	6.61		
H1 lead leg		strides																	
Bellamy, Shani'a (USA) (2002)	time		6.51	10.63	14.89	19.38	23.92	25.99	28.63	33.50	38.62	43.99	49.58		55.91	4 / 3			
reaction time	interval		4.12	4.26	4.49	4.54		4.71	4.87	5.12	5.37	5.59	6.33		12.87	14.12	16.08		
	velocity	6.91	8.50	8.22	7.80	7.71	7.70	7.43	7.19	6.84	6.52	6.26	6.32	7.15	8.16	7.44	6.53		
H1 lead leg		strides																	
Stubler, Bianca (USA) (1999)	time		6.37	10.54	14.68	19.04	23.63	25.81	28.54	33.51	38.89	44.43	50.12		56.99	9 / 4			
reaction time	interval		4.17	4.14	4.36	4.59		4.91	4.97	5.38	5.54	5.69	6.87		12.67	14.47	16.61		
	velocity	7.06	8.39	8.45	8.03	7.63	7.75	7.13	7.04	6.51	6.32	6.15	5.82	7.02	8.29	7.26	6.32		
H1 lead leg		strides																	
Pulse, Jacy (USA) (2001)	time		6.45	10.62	15.01	19.45	24.06	26.33	29.13	34.24	39.65	45.18	50.67		56.99	3 / 5			
reaction time	interval		4.17	4.39	4.44	4.61		5.07	5.11	5.41	5.53	5.49	6.32		13.00	14.79	16.43		
	velocity	6.98	8.39	7.97	7.88	7.59	7.60	6.90	6.85	6.47	6.33	6.38	6.33	7.02	8.08	7.10	6.39		
H1 lead leg		strides																	
Spencer, Ashley (USA) (1993)	time		6.54	10.80	15.09	19.77	24.47	26.57	29.22	34.40	39.73	45.28	50.61		57.04	7 / 6			
reaction time	interval		4.26	4.29	4.68	4.70		4.75	5.18	5.33	5.55	5.33	6.43		13.23	14.63	16.21		
	velocity	6.88	8.22	8.16	7.48	7.45	7.53	7.37	6.76	6.57	6.31	6.57	6.22	7.01	7.94	7.18	6.48		
H1 lead leg		strides																	
Knebes, Riley (USA) (1996)	time		6.46	10.81	15.37	20.00	24.78	26.86	29.55	34.65	40.01	45.36	50.73		57.52	6 / 7			
reaction time	interval		4.35	4.56	4.63	4.78		4.77	5.10	5.36	5.35	5.37	6.79		13.54	14.65	16.08		
	velocity	6.97	8.05	7.68	7.56	7.32	7.45	7.34	6.86	6.53	6.54	6.52	5.89	6.95	7.75	7.17	6.53		
H1 lead leg		strides																	

Heat 4

date 27-Jun-24

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

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Glenn, Rachel (USA) (2002)	time		6.51	10.69	14.93	19.26	23.62	25.65	28.31	33.10	38.18	43.53	48.87		55.03	4 / 1			
reaction time	interval		4.18	4.24	4.33	4.36		4.69	4.79	5.08	5.35	5.34	6.16		12.75	13.84	15.77		
	velocity	6.91	8.37	8.25	8.08	8.03	7.80	7.46	7.31	6.89	6.54	6.55	6.49	7.27	8.24	7.59	6.66		
H1 lead leg	L	strides	22	14	14	14	14	14	15	15	16	16	19	173					

Muhammad, Dalilah (USA)	time	6.50	10.66	14.96	19.41	24.03	26.09	28.71	33.61	38.81	43.99	49.32		55.51	5 / 2			
reaction time	interval		4.16	4.30	4.45	4.62		4.68	4.90	5.20	5.18	5.33	6.19			12.91	14.20	15.71
	velocity	6.92	8.41	8.14	7.87	7.58	7.67	7.48	7.14	6.73	6.76	6.57	6.46	7.21		8.13	7.39	6.68
H1 lead leg	R strides	22	15	15	15	15		15	15	16	16	16	19	179				
Wright, Jessica (USA) (2000)	time	6.85	11.04	15.47	20.09	24.74	26.82	29.54	34.43	39.71	45.05	50.55		56.90	8 / 3			
reaction time	interval		4.19	4.43	4.62	4.65		4.80	4.89	5.28	5.34	5.50	6.35			13.24	14.34	16.12
	velocity	6.57	8.35	7.90	7.58	7.53	7.46	7.29	7.16	6.63	6.55	6.36	6.30	7.03		7.93	7.32	6.51
H1 lead leg	L strides	24	16	16	16	17		17	17	18	18	18	22	199				
Young, Milan (USA) (1999)	time	6.73	11.02	15.48	20.12	24.82	26.89	29.61	34.52	39.73	45.18	50.70		57.29	6 / 4			
reaction time	interval		4.29	4.46	4.64	4.70		4.79	4.91	5.21	5.45	5.52	6.59			13.39	14.40	16.18
	velocity	6.69	8.16	7.85	7.54	7.45	7.44	7.31	7.13	6.72	6.42	6.34	6.07	6.98		7.84	7.29	6.49
H1 lead leg	R strides	22	15	15	15	15		15	15	16	16	17	20	181				
Garozzo, Aliya Rae (USA) (2019)	time	6.67	11.03	15.62	20.53	25.54	27.80	30.69	35.97	41.38	46.87	52.21		58.12	7 / 5			
reaction time	interval		4.36	4.59	4.91	5.01		5.15	5.28	5.41	5.49	5.34	5.91			13.86	15.44	16.24
	velocity	6.75	8.03	7.63	7.13	6.99	7.19	6.80	6.63	6.47	6.38	6.55	6.77	6.88		7.58	6.80	6.47
H1 lead leg	R strides	24	15	16	16	16		16	16	16	16	16	167					
Wilson, Tyra (USA) (2002)	time	6.62	10.91	15.30	19.69	24.20	26.32	29.08	34.45	39.96	45.81	52.11		60.33	3 / 6			
reaction time	interval		4.29	4.39	4.39	4.51		4.88	5.37	5.51	5.85	6.30	8.22			13.07	14.76	17.66
	velocity	6.80	8.16	7.97	7.97	7.76	7.60	7.17	6.52	6.35	5.98	5.56	4.87	6.63		8.03	7.11	5.95
H1 lead leg	L strides	24	16	15	15	15		17	17	17	17	19	172					

Heat 3

date 27-Jun-24

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

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Cockrell, Anna (USA) (1997)	time	6.26	10.09	14.25	18.47	22.84	24.92	27.57	32.53	37.71	43.13	48.53		54.71	3 / 1			
reaction time	interval		3.83	4.16	4.22	4.37		4.73	4.96	5.18	5.42	5.40	6.18			12.21	14.06	16.00
	velocity	7.19	9.14	8.41	8.29	8.01	8.03	7.40	7.06	6.76	6.46	6.48	6.47	7.31		8.60	7.47	6.56
H1 lead leg	strides																	
Garrett, Akala (USA) (2005)	time	6.48	10.60	14.86	19.37	23.99	26.04	28.69	33.58	38.80	44.07	49.48		55.67	5 / 2			
reaction time	interval		4.12	4.26	4.51	4.62		4.70	4.89	5.22	5.27	5.41	6.19			12.89	14.21	15.90
	velocity	6.94	8.50	8.22	7.76	7.58	7.68	7.45	7.16	6.70	6.64	6.47	6.46	7.19		8.15	7.39	6.60
H1 lead leg	strides																	
Antkoviak, Hannah (USA) (2019)	time	6.65	10.89	15.18	19.51	24.05	26.29	29.04	34.12	39.36	44.76	50.23		56.39	9 / 3			
reaction time	interval		4.24	4.29	4.33	4.54		4.99	5.08	5.24	5.40	5.47	6.16			12.86	14.61	16.11
	velocity	6.77	8.25	8.16	8.08	7.71	7.61	7.01	6.89	6.68	6.48	6.40	6.49	7.09		8.16	7.19	6.52
H1 lead leg	strides																	
Mustin, Dominique (USA) (2019)	time	6.56	10.82	15.37	19.98	24.58	26.65	29.24	34.05	39.42	44.90	50.39		56.70	4 / 4			
reaction time	interval		4.26	4.55	4.61	4.60		4.66	4.81	5.37	5.48	5.49	6.31			13.42	14.07	16.34
	velocity	6.86	8.22	7.69	7.59	7.61	7.50	7.51	7.28	6.52	6.39	6.38	6.34	7.05		7.82	7.46	6.43
H1 lead leg	strides																	
Watkins, Simone (USA) (2001)	time	6.61	10.83	15.13	19.64	24.23	26.29	29.03	34.19	39.65	45.23	50.88		57.05	7 / 5			
reaction time	interval		4.22	4.30	4.51	4.59		4.80	5.16	5.46	5.58	5.65	6.17			13.03	14.55	16.69
	velocity	6.81	8.29	8.14	7.76	7.63	7.61	7.29	6.78	6.41	6.27	6.19	6.48	7.01		8.06	7.22	6.29
H1 lead leg	strides																	
Barber, Kaila (USA) (1993)	time	6.44	10.62	14.94	19.58	24.40	26.53	29.26	34.33	39.63	45.20	50.90		57.60	8 / 6			
reaction time	interval		4.18	4.32	4.64	4.82		4.86	5.07	5.30	5.57	5.70	6.70			13.14	14.75	16.57
	velocity	6.99	8.37	8.10	7.54	7.26	7.54	7.20	6.90	6.60	6.28	6.14	5.97	6.94		7.99	7.12	6.34
H1 lead leg	strides																	
Rodriguez, Chloe (USA) (2019)	time	6.99	11.61	16.33	21.20	26.10	28.27	31.03	36.15	41.58	47.23	53.14		60.05	6 / 7			
reaction time	interval		4.62	4.72	4.87	4.90		4.93	5.12	5.43	5.65	5.91	6.91			14.21	14.95	16.99
	velocity	6.44	7.58	7.42	7.19	7.14	7.07	7.10	6.84	6.45	6.19	5.92	5.79	6.66		7.39	7.02	6.18
H1 lead leg	strides																	

Heat 2

date 27-Jun-24

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

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Jones, Jasmine (USA) (2001)	time	6.39	10.59	14.79	19.20	23.52	25.57	28.12	33.00	38.18	43.52	49.14		55.54	5 / 1			
reaction time	interval		4.20	4.20	4.41	4.32		4.60	4.88	5.18	5.34	5.62	6.40			12.81	13.80	16.14
	velocity	7.04	8.33	8.33	7.94	8.10	7.82	7.61	7.17	6.76	6.55	6.23	6.25	7.20		8.20	7.61	6.51
H1 lead leg	strides																	
Townsend, Sydni (USA) (2019)	time	6.52	10.71	15.07	19.61	24.18	26.21	28.79	33.68	38.83	44.15	49.58		55.72	8 / 2			
reaction time	interval		4.19	4.36	4.54	4.57		4.61	4.89	5.15	5.32	5.43	6.14			13.09	14.07	15.90
	velocity	6.90	8.35	8.03	7.71	7.66	7.63	7.59	7.16	6.80	6.58	6.45	6.51	7.18		8.02	7.46	6.60
H1 lead leg	strides																	
Robinson-Hubbard, Kyla (USA) (2019)	time	6.73	10.95	15.32	19.91	24.51	26.60	29.19	34.21	39.47	44.89	50.31		56.54	7 / 3			
reaction time	interval		4.22	4.37	4.59	4.60		4.68	5.02	5.26	5.42	5.42	6.23			13.18	14.30	16.10
	velocity	6.69	8.29	8.01	7.63	7.61	7.52	7.48	6.97	6.65	6.46	6.46	6.42	7.07		7.97	7.34	6.52
H1 lead leg	strides																	

Wise, Deshae (USA) (1999)	time	6.68	11.01	15.44	19.98	24.51	26.57	29.19	34.26	39.64	45.04	50.57		56.84	4 / 4			
	reaction time		4.33	4.43	4.54	4.53		4.68	5.07	5.38	5.40	5.53	6.27			13.30	14.28	16.31
	velocity	6.74	8.08	7.90	7.71	7.73	7.53	7.48	6.90	6.51	6.48	6.33	6.38	7.04		7.89	7.35	6.44
	H1 lead leg																	
Melvin, Chelby (USA) (2003)	time	6.62	10.90	15.22	19.71	24.22	26.36	28.93	33.84	39.27	44.75	50.40		56.97	9 / 5			
	reaction time		4.28	4.32	4.49	4.51		4.71	4.91	5.43	5.48	5.65	6.57			13.09	14.13	16.56
	velocity	6.80	8.18	8.10	7.80	7.76	7.59	7.43	7.13	6.45	6.39	6.19	6.09	7.02		8.02	7.43	6.34
	H1 lead leg																	
Fair, Chloe (USA) (2001)	time	6.75	11.07	15.51	20.08	24.74	26.84	29.50	34.65	40.08	45.64	51.09		57.26	6 / 6			
	reaction time		4.32	4.44	4.57	4.66		4.76	5.15	5.43	5.56	5.45	6.17			13.33	14.57	16.44
	velocity	6.67	8.10	7.88	7.66	7.51	7.45	7.35	6.80	6.45	6.29	6.42	6.48	6.99		7.88	7.21	6.39
	H1 lead leg																	
Dowd, Erin (USA) (1998)	time	6.72	10.92	15.29	19.76	24.27	26.37	29.00	34.07	39.60	45.32	51.44		58.41	3 / 7			
	reaction time		4.20	4.37	4.47	4.51		4.73	5.07	5.53	5.72	6.12	6.97			13.04	14.31	17.37
	velocity	6.70	8.33	8.01	7.83	7.76	7.58	7.40	6.90	6.33	6.12	5.72	5.74	6.85		8.05	7.34	6.04
	H1 lead leg																	

Heat 1

date 27-Jun-24

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

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin-Levrone, Sydne	time	6.08	10.13	14.26	18.54	22.91	24.84	27.35	32.02	36.94	41.87	46.93		53.07	6 / 1			
	reaction time		4.05	4.13	4.28	4.37		4.44	4.67	4.92	4.93	5.06	6.14			12.46	13.48	14.91
	velocity	7.40	8.64	8.47	8.18	8.01	8.05	7.88	7.49	7.11	7.10	6.92	6.51	7.54		8.43	7.79	7.04
	H1 lead leg	R	22	14	14	14	14	15	15	15	15	16	18	172				
Bookman, Deonca (USA) (1987)	time	6.49	10.55	14.79	19.06	23.44	25.47	28.09	33.01	38.31	43.83	49.52		56.25	3 / 2			
	reaction time		4.06	4.24	4.27	4.38		4.65	4.92	5.30	5.52	5.69	6.73			12.57	13.95	16.51
	velocity	6.93	8.62	8.25	8.20	7.99	7.85	7.53	7.11	6.60	6.34	6.15	5.94	7.11		8.35	7.53	6.36
	H1 lead leg	R	24	16	16	16	16	17	17	18	19	19	178					
Glynn, Abbey (USA) (2001)	time	6.43	10.62	14.96	19.52	24.11	26.31	28.88	33.88	39.24	44.65	50.44		56.94	4 / 3			
	reaction time		4.19	4.34	4.56	4.59		4.77	5.00	5.36	5.41	5.79	6.50			13.09	14.36	16.56
	velocity	7.00	8.35	8.06	7.68	7.63	7.60	7.34	7.00	6.53	6.47	6.04	6.15	7.02		8.02	7.31	6.34
	H1 lead leg	L	21	15	15	15	15	15	15	15	16	16	158					
McBride, Allyria (USA) (2004)	time	6.60	10.74	14.96	19.31	23.83	25.76	28.37	33.39	38.69	44.31	50.12		56.96	8 / 4			
	reaction time		4.14	4.22	4.35	4.52		4.54	5.02	5.30	5.62	5.81	6.84			12.71	14.08	16.73
	velocity	6.82	8.45	8.29	8.05	7.74	7.76	7.71	6.97	6.60	6.23	6.02	5.85	7.02		8.26	7.46	6.28
	H1 lead leg	L	23	15	15	15	15	16	16	16			131					
Robinson, Chanler (USA) (2001)	time	6.61	11.07	15.35	19.64	24.53	26.71	29.41	34.61	40.01	45.74	51.38		58.02	9 / 5			
	reaction time		4.46	4.28	4.29	4.89		4.88	5.20	5.40	5.73	5.64	6.64			13.03	14.97	16.77
	velocity	6.81	7.85	8.18	8.16	7.16	7.49	7.17	6.73	6.48	6.11	6.21	6.02	6.89		8.06	7.01	6.26
	H1 lead leg	R	25	16	15	16	16	16	16	17	17	17	171					
Sorensen, Kate (USA) (1999)	time	6.69	11.01	15.49	20.16	25.02	27.26	30.05	35.26	40.61	46.18	51.96		59.04	5 / 6			
	reaction time		4.32	4.48	4.67	4.86		5.03	5.21	5.35	5.57	5.78	7.08			13.47	15.10	16.70
	velocity	6.73	8.10	7.81	7.49	7.20	7.34	6.96	6.72	6.54	6.28	6.06	5.65	6.78		7.80	6.95	6.29
	H1 lead leg	R	22	15	15	15	16	16	17	17	17	18	168					
Watson, Vanessa (USA) (2000)	time	6.47	10.70	15.19	19.81	24.62	26.80	29.59	34.80	40.36	46.15	52.42		60.22	7 / 7			
	reaction time		4.23	4.49	4.62	4.81		4.97	5.21	5.56	5.79	6.27	7.80			13.34	14.99	17.62
	velocity	6.96	8.27	7.80	7.58	7.28	7.46	7.04	6.72	6.29	6.04	5.58	5.13	6.64		7.87	7.00	5.96
	H1 lead leg	R	24	16	16	16	16	17	17	17	18	19	176					

2024 Chinese National Grand Prix Final (Rizhao, CHN)

FINAL

date 29-Jun-24

Shandong Athletics Sport Science (2024)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mo Jiadie (CHN) (2000)	time	6.39	10.44	14.56	18.90	23.42		28.22	33.18	38.40	43.76	49.17		55.28	5 / 1			
	reaction time	0.191	4.05	4.12	4.34	4.52		4.80	4.96	5.22	5.36	5.41	6.11			12.51	14.28	15.99
	velocity	7.04	8.64	8.50	8.06	7.74		7.29	7.06	6.70	6.53	6.47	6.55	7.24		8.39	7.35	6.57
	H1 lead leg	L	23	15	15	15		16	16	17	17	18	21	188				
Kong Yingying (CHN) (2003)	time	6.62	10.81	15.10	19.50	24.07		28.98	33.98	39.32	44.78	50.20		56.43	7 / 2			
	reaction time	0.196	4.19	4.29	4.40	4.57		4.91	5.00	5.34	5.46	5.42	6.23	PB		12.88	14.48	16.22
	velocity	6.80	8.35	8.16	7.95	7.66		7.13	7.00	6.55	6.41	6.46	6.42	7.09		8.15	7.25	6.47
	H1 lead leg	L	23	15	15	15		16	16	17	17	17	20.5	186.5				
Lu Zhangwei (CHN) (2001)	time	6.52	10.74	15.08	19.62	24.27		29.22	34.25	39.54	45.04	50.55		56.90	6 / 3			
	reaction time	0.192	4.22	4.34	4.54	4.65		4.95	5.03	5.29	5.50	5.51	6.35			13.10	14.63	16.30
	velocity	6.90	8.29	8.06	7.71	7.53		7.07	6.96	6.62	6.36	6.35	6.30	7.03		8.02	7.18	6.44
	H1 lead leg	R	24	16	16	16		17	17	17	18	18	21.2	196.2				
Tao Xue (CHN) (1999)	time	6.89	11.14	15.48	20.05	24.82		29.78	34.92	40.27	45.74	51.23		57.74	3 / 4			
	reaction time	0.279	4.25	4.34	4.57	4.77		4.96	5.14	5.35	5.47	5.49	6.51	PB		13.16	14.87	16.31

	velocity	6.53	8.24	8.06	7.66	7.34		7.06	6.81	6.54	6.40	6.38	6.14	6.93		7.98	7.06	6.44		
H1 lead leg	L	strides	23	15	15	15	16	16	17	17	17	17	20	188						
Ding Yirui (CHN) (2002)	time	6.64	10.86	15.28	19.87	24.76		29.75	34.83	40.14	45.66	51.47		58.29	4 / 5					
reaction time	0.266	interval	4.22	4.42	4.59	4.89		4.99	5.08	5.31	5.52	5.81	6.82			13.23	14.96	16.64		
	velocity	6.78	8.29	7.92	7.63	7.16		7.01	6.89	6.59	6.34	6.02	5.87	6.86		7.94	7.02	6.31		
H1 lead leg	L	strides	22	15	15	15	16	16	16	16	17	17	20.2	185.2						
Ou Ying (CHN) (2001)	time	6.91	11.31	15.83	20.47	25.32		30.46	35.62	40.96	46.46	52.27		59.02	8 / 6					
reaction time	0.266	interval	4.40	4.52	4.64	4.85		5.14	5.16	5.34	5.50	5.81	6.75			13.56	15.15	16.65		
	velocity	6.51	7.95	7.74	7.54	7.22		6.81	6.78	6.55	6.36	6.02	5.93	6.78		7.74	6.93	6.31		
H1 lead leg	L	strides	23	16	16	16	16	17	17	17	17	18	21.7	194.7						
Heat 3	date	28-Jun-24														Shandong Athletics Sport Science (2024)				
		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Mo Jiadie (CHN) (2000)	time	6.54	10.98	15.40	19.94	24.69		29.83	35.14	40.56	46.12	51.75		58.17	7 / 1					
reaction time	0.221	interval	4.44	4.42	4.54	4.75		5.14	5.31	5.42	5.56	5.63	6.42			13.40	15.20	16.61		
	velocity	6.88	7.88	7.92	7.71	7.37		6.81	6.59	6.46	6.29	6.22	6.23	6.88		7.84	6.91	6.32		
H1 lead leg	L	strides	23	15	15	15	15	16	17	17	18	18	21	190						
Heat 2	date	28-Jun-24														Shandong Athletics Sport Science (2024)				
		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Kong Yingying (CHN) (2003)	time	6.66	11.10	15.66	20.22	24.88		29.86	35.08	40.36	45.76	51.34		58.13	5 / 1					
reaction time	0.196	interval	4.44	4.56	4.56	4.66		4.98	5.22	5.28	5.40	5.58	6.79			13.56	14.86	16.26		
	velocity	6.76	7.88	7.68	7.68	7.51		7.03	6.70	6.63	6.48	6.27	5.89	6.88		7.74	7.07	6.46		
H1 lead leg	L	strides	23	16	16	16	16	16	17	17	17	17	20.5	191.5						
2024 European Athletics Championships (Roma, ITA)	date	11-Jun-24														European Athletics (2024) - 2024 european athletics championships - results book				
		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Bol, Femke (NED) (2000)	time	6.40	10.38	14.48	18.66	22.98		27.43	32.08	36.92	41.91	46.91		52.49	6 / 1					
reaction time	0.180	interval	3.98	4.10	4.18	4.32		4.45	4.65	4.84	4.99	5.00	5.58	CR		12.26	13.42	14.83		
	velocity	7.03	8.79	8.54	8.37	8.10		7.87	7.53	7.23	7.01	7.00	7.17	7.62		8.56	7.82	7.08		
H1 lead leg	L	strides	22	14	14	14	14	14	14	15	15	15	19	170						
Maraval, Louise (FRA) (2001)	time	6.60	10.73	15.05	19.44	23.98		28.73	33.54	38.25	43.44	48.51		54.23	7 / 2					
reaction time	0.211	interval	4.13	4.32	4.39	4.54		4.75	4.81	4.71	5.19	5.07	5.72	PB		12.84	14.10	14.97		
	velocity	6.82	8.47	8.10	7.97	7.71		7.37	7.28	7.43	6.74	6.90	6.99	7.38		8.18	7.45	7.01		
H1 lead leg	R	strides	23	15	15	15	16	16	16	16	17	20	122							
Peeters, Cathelijn (NED) (1996)	time	6.75	10.95	15.20	19.59	24.12		28.69	33.49	38.42	43.50	48.71		54.37	9 / 3					
reaction time	0.266	interval	4.20	4.25	4.39	4.53		4.57	4.80	4.93	5.08	5.21	5.66			12.84	13.90	15.22		
	velocity	6.67	8.33	8.24	7.97	7.73		7.66	7.29	7.10	6.89	6.72	7.07	7.36		8.18	7.55	6.90		
H1 lead leg	R	strides	23	15	15	15	15	15	16	16	17	20	151							
Jichová, Nikoleta (CZE) (2001)	time	6.50	10.68	15.03	19.49	24.00		28.68	33.51	38.59	43.83	49.04		54.91	4 / 4					
reaction time	0.254	interval	4.18	4.35	4.46	4.51		4.68	4.83	5.08	5.24	5.21	5.87			12.99	14.02	15.53		
	velocity	6.92	8.37	8.05	7.85	7.76		7.48	7.25	6.89	6.68	6.72	6.81	7.28		8.08	7.49	6.76		
H1 lead leg	R	strides	22	15	15	15	15	15	15	16	16	20.5	103.5							
Folorunso, Ayomide (ITA) (†1996)	time	6.60	10.82	15.21	19.69	24.27		28.87	33.61	38.53	43.79	49.04		55.20	2 / 5					
reaction time	0.173	interval	4.22	4.39	4.48	4.58		4.60	4.74	4.92	5.26	5.25	6.16			13.09	13.92	15.43		
	velocity	6.82	8.29	7.97	7.81	7.64		7.61	7.38	7.11	6.65	6.67	6.49	7.25		8.02	7.54	6.80		
H1 lead leg	L	strides	23	15	15	15	16	16	16	16	17	21	122							
Kloster, Line (NOR) (1990)	time	6.32	10.40	14.68	19.06	23.55		28.20	32.95	38.08	43.51	49.00		55.29	5 / 6					
reaction time	0.168	interval	4.08	4.28	4.38	4.49		4.65	4.75	5.13	5.43	5.49	6.29			12.74	13.89	16.05		
	velocity	7.12	8.58	8.18	7.99	7.80		7.53	7.37	6.82	6.45	6.38	6.36	7.23		8.24	7.56	6.54		
H1 lead leg	R	strides	22	15	15	15	15	15	15	16	16	17	20	135						
Nielsen, Lina (GBR) (1996)	time	6.55	10.76	15.14	19.57	24.18		29.02	34.00	39.08	44.22	49.52		55.65	8 / 7					
reaction time	0.209	interval	4.21	4.38	4.43	4.61		4.84	4.98	5.08	5.14	5.30	6.13			13.02	14.43	15.52		
	velocity	6.87	8.31	7.99	7.90	7.59		7.23	7.03	6.89	6.81	6.60	6.53	7.19		8.06	7.28	6.77		
H1 lead leg	L	strides	22	15	15	15	16	16	16	16	17	19	151							
Diallo, Fatoumata Binta (POI) (2001)	time	6.42	10.63	14.96	19.38	23.88		28.57	33.58	38.62	43.96	49.44		55.65	3 / 8					
reaction time	0.166	interval	4.21	4.33	4.42	4.50		4.69	5.01	5.04	5.34	5.48	6.21			12.96	14.20	15.86		
	velocity	7.01	8.31	8.08	7.92	7.78		7.46	6.99	6.94	6.55	6.39	6.44	7.19		8.10	7.39	6.62		
H1 lead leg	R	strides	24	16	16	16	17	17	17	18	18	21.5	112.5							
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		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10		
Kloster, Line (NOR) (1990)	time	6.23	10.31	14.67	18.99	23.51		28.12	32.79	37.77	43.22	48.48		54.56	7 / 1					
reaction time	0.171	interval	4.08	4.36	4.32	4.52		4.61	4.67	4.98	5.45	5.26	6.08			12.76	13.80	15.69		
	velocity	7.22	8.58	8.03	8.10	7.74		7.59	7.49	7.03	6.42	6.65	6.58	7.33		8.23	7.61	6.69		
H1 lead leg	R	strides	22	15	15	15	15	15	15	15	16	16	19.5	178.5						
Peeters, Cathelijn (NED) (1996)	time	6.55	10.75	15.09	19.45	23.90		28.54	33.39	38.47	43.73	48.99		54.66	5 / 2					

reaction time	0.229	interval		4.20	4.34	4.36	4.45		4.64	4.85	5.08	5.26	5.26	5.67		12.90	13.94	15.60
		velocity	6.87	8.33	8.06	8.03	7.87		7.54	7.22	6.89	6.65	6.65	7.05	7.32	8.14	7.53	6.73
H1 lead leg	R	strides	23	15	15	15	15		15	16	17	17	17	20	185			
Muraro, Alice (ITA) (2000)	time		6.48	10.69	15.10	19.59	24.28		29.01	33.77	38.68	43.77	48.91		54.73	8 / 3		
reaction time	0.234	interval		4.21	4.41	4.49	4.69		4.73	4.76	4.91	5.09	5.14	5.82	PB	13.11	14.18	15.14
		velocity	6.94	8.31	7.94	7.80	7.46		7.40	7.35	7.13	6.88	6.81	6.87	7.31	8.01	7.40	6.94
H1 lead leg	R	strides	23	15	15	15	16		16	16	16	17	17	20.7	169.7			
Couckuyt, Paulien (BEL) (19	time		6.40	10.62	14.92	19.20	23.74		28.41	33.33	38.33	43.71	49.08		55.24	9 / 4		
reaction time	0.212	interval		4.22	4.30	4.28	4.54		4.67	4.92	5.00	5.38	5.37	6.16		12.80	14.13	15.75
		velocity	7.03	8.29	8.14	8.18	7.71		7.49	7.11	7.00	6.51	6.52	6.49	7.24	8.20	7.43	6.67
H1 lead leg	L	strides	23	15	15	15	15		16	16	17	17	21	170				
Demes, Eileen (GER) (1997)	time		6.37	10.47	14.63	18.94	23.54		28.19	33.00	38.07	43.47	49.18		55.64	4 / 5		
reaction time	0.150	interval		4.10	4.16	4.31	4.60		4.65	4.81	5.07	5.40	5.71	6.46		12.57	14.06	16.18
		velocity	7.06	8.54	8.41	8.12	7.61		7.53	7.28	6.90	6.48	6.13	6.19	7.19	8.35	7.47	6.49
H1 lead leg	R	strides	22	15	15	15	15		15	16	16	16	17	20.7	182.7			
Granat, Moa (SWE) (2004)	time		6.51	10.72	15.06	19.54	24.16		28.88	33.77	38.86	44.19	49.62		55.89	2 / 6		
reaction time	0.204	interval		4.21	4.34	4.48	4.62		4.72	4.89	5.09	5.33	5.43	6.27	PB	13.03	14.23	15.85
		velocity	6.91	8.31	8.06	7.81	7.58		7.42	7.16	6.88	6.57	6.45	6.38	7.16	8.06	7.38	6.62
H1 lead leg	R	strides	23	15	15	15	15		15	16	16	16	17	21	184			
Knight, Jessie (GBR) (1994)	time		6.40	10.61	15.06	19.54	24.20		29.00	33.94	39.11	44.52	49.90		56.01	6 / 7		
reaction time	0.156	interval		4.21	4.45	4.48	4.66		4.80	4.94	5.17	5.41	5.38	6.11		13.14	14.40	15.96
		velocity	7.03	8.31	7.87	7.81	7.51		7.29	7.09	6.77	6.47	6.51	6.55	7.14	7.99	7.29	6.58
H1 lead leg	R	strides	22	15	15	15	15		15	15	15	16	19	162				
Fra, Daniela (ESP) (2000)	0.207	no information available													56.27	3 / 8		

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			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Boi, Femke (NED) (2000)	time		6.24	10.29	14.51	18.76	23.14		27.74	32.39	37.36	42.62	48.04		54.16	5 / 1			
reaction time	0.209	interval		4.05	4.22	4.25	4.38		4.60	4.65	4.97	5.26	5.42	6.12			12.52	13.63	15.65
		velocity	7.21	8.64	8.29	8.24	7.99		7.61	7.53	7.04	6.65	6.46	6.54	7.39		8.39	7.70	6.71
H1 lead leg	L	strides	22	14	14	14	14		14	14	15	16	16	18.5	171.5				
Jichová, Nikoleta (CZE) (200	time		6.45	10.64	15.11	19.51	24.04		28.76	33.62	38.55	43.66	48.73		54.59	7 / 2			
reaction time	0.243	interval		4.19	4.47	4.40	4.53		4.72	4.86	4.93	5.11	5.07	5.86	PB		13.06	14.11	15.11
		velocity	6.98	8.35	7.83	7.95	7.73		7.42	7.20	7.10	6.85	6.90	6.83	7.33		8.04	7.44	6.95
H1 lead leg	R	strides	22	15	15	15	15		16	16	16	16	16	20	150				
luel, Amalie (NOR) (1994)	time		6.45	10.54	14.75	19.05	23.46		28.16	32.99	38.00	43.28	48.60		54.89	4 / 3			
reaction time	0.167	interval		4.09	4.21	4.30	4.41		4.70	4.83	5.01	5.28	5.32	6.29			12.60	13.94	15.61
		velocity	6.98	8.56	8.31	8.14	7.94		7.45	7.25	6.99	6.63	6.58	6.36	7.29		8.33	7.53	6.73
H1 lead leg	L	strides	23	15	15	15	15		15	15	15	16	16	19.2	149.2				
Lehikoinen, Viivi (FIN) (1999)	time		6.41	10.52	14.81	19.16	23.68		28.44	33.22	38.17	43.39	48.70		54.92	6 / 4			
reaction time	0.178	interval		4.11	4.29	4.35	4.52		4.76	4.78	4.95	5.22	5.31	6.22			12.75	14.06	15.48
		velocity	7.02	8.52	8.16	8.05	7.74		7.35	7.32	7.07	6.70	6.59	6.43	7.28		8.24	7.47	6.78
H1 lead leg	R	strides	23	15	15	15	15		16	16	17	17	17	21	187				
Ryzhykova, Anna (UKR) (19	time		6.56	10.75	15.12	19.49	24.05		28.80	33.64	38.52	43.57	48.90		54.95	8 / 5			
reaction time	0.253	interval		4.19	4.37	4.37	4.56		4.75	4.84	4.88	5.05	5.33	6.05			12.93	14.15	15.26
		velocity	6.86	8.35	8.01	8.01	7.68		7.37	7.23	7.17	6.93	6.57	6.61	7.28		8.12	7.42	6.88
H1 lead leg	R	strides	21	14	14	14	14		15	15	15	16	16	19.5	128.5				
Olivieri, Linda (ITA) (1998)	time		6.37	10.56	14.89	19.15	23.77		28.39	33.25	38.13	43.30	48.68		54.99	9 / 6			
reaction time	0.235	interval		4.19	4.33	4.26	4.62		4.62	4.86	4.88	5.17	5.38	6.31	PB		12.78	14.10	15.43
		velocity	7.06	8.35	8.08	8.22	7.58		7.58	7.20	7.17	6.77	6.51	6.34	7.27		8.22	7.45	6.80
H1 lead leg	R	strides	23	15	15	15	15		15	16	16	17	17	21	137				
Mátó, Sára (HUN) (2000)	time		6.46	10.66	15.02	19.43	23.92		28.60	33.50	38.54	43.93	49.17		55.35	2 / 7			
reaction time	0.264	interval		4.20	4.36	4.41	4.49		4.68	4.90	5.04	5.39	5.24	6.18	PB		12.97	14.07	15.67
		velocity	6.97	8.33	8.03	7.94	7.80		7.48	7.14	6.94	6.49	6.68	6.47	7.23		8.10	7.46	6.70
H1 lead leg	L	strides	23	15	15	15	15		16	16	16	16	17	21	170				
Smolińska, Izabela (POL) (19	time		6.46	10.65	15.02	19.50	24.06		28.87	33.87	39.09	44.62	50.25		56.78	3 / 8			
reaction time	0.299	interval		4.19	4.37	4.48	4.56		4.81	5.00	5.22	5.53	5.63	6.53			13.04	14.37	16.38
		velocity	6.97	8.35	8.01	7.81	7.68		7.28	7.00	6.70	6.33	6.22	6.13	7.04		8.05	7.31	6.41
H1 lead leg	L	strides	23	16	16	16	16		17	17	17	19	21.7	145.7					

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			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Maraval, Louise (FRA) (2001)	time		6.41	10.60	14.94	19.32	23.67		28.35	33.09	37.96	43.04	48.28		54.36	6 / 1			
reaction time	0.168	interval		4.19	4.34	4.38	4.35		4.68	4.74	4.87	5.08	5.24	6.08	PB		12.91	13.77	15.19
		velocity	7.02	8.35	8.06	7.99	8.05		7.48	7.38	7.19	6.89	6.68	6.58	7.36		8.13	7.63	6.91

H1 lead leg	R	strides	23	15	15	15	15	16	16	17	17	17	21	187				
Nielsen, Lina (GBR) (1996)	time		6.29	10.47	14.84	19.26	23.75	28.46	33.27	38.27	43.38	48.56		54.43	8 / 2			
reaction time	0.188	interval	4.18	4.37	4.42	4.49		4.71	4.81	5.00	5.11	5.18	5.87	PB		12.97	14.01	15.29
		velocity	7.15	8.37	8.01	7.92	7.80	7.43	7.28	7.00	6.85	6.76	6.81	7.35		8.10	7.49	6.87
H1 lead leg	L	strides	22	15	15	15	15	16	16	16	16	16	20	182				
Folorunso, Ayomide (ITA) (1991)	time		6.37	10.57	14.91	19.23	23.73	28.36	33.11	37.85	42.97	48.24		54.52	7 / 3			
reaction time	0.190	interval	4.20	4.34	4.32	4.50		4.63	4.75	4.74	5.12	5.27	6.28		12.86	13.88	15.13	
		velocity	7.06	8.33	8.06	8.10	7.78	7.56	7.37	7.38	6.84	6.64	6.37	7.34		8.16	7.56	6.94
H1 lead leg	L	strides	23	15	15	15	15	16	16	16	17	17	21	186				
Diallo, Fatoumata Bint	time		6.38	10.60	14.98	19.37	23.83	28.52	33.40	38.29	43.33	48.64		54.65	4 / 4			
reaction time	0.183	interval	4.22	4.38	4.39	4.46		4.69	4.88	4.89	5.04	5.31	6.01	NR PB	12.99	14.03	15.24	
		velocity	7.05	8.29	7.99	7.97	7.85	7.46	7.17	7.16	6.94	6.59	6.66	7.32		8.08	7.48	6.89
H1 lead leg	R	strides	24	16	16	16	16	16	16	17	17	18	21.5	193.5				
Giger, Yasmin (SUI) (1999)	time		6.66	11.01	15.46	19.95	24.57	29.33	34.22	39.10	44.11	49.27		55.05	9 / 5			
reaction time	0.225	interval	4.35	4.45	4.49	4.62		4.76	4.89	4.88	5.01	5.16	5.78	PB	13.29	14.27	15.05	
		velocity	6.76	8.05	7.87	7.80	7.58	7.35	7.16	7.17	6.99	6.78	6.92	7.27		7.90	7.36	6.98
H1 lead leg	R	strides	23	15	15	15	15	16	16	16	16	16	19.5	150.5				
Claes, Hanne (BEL) (1991)	time		6.44	10.65	14.95	19.31	23.84	28.46	33.24	38.33	43.55	49.02		55.36	5 / 6			
reaction time	0.222	interval	4.21	4.30	4.36	4.53		4.62	4.78	5.09	5.22	5.47	6.34		12.87	13.93	15.78	
		velocity	6.99	8.31	8.14	8.03	7.73	7.58	7.32	6.88	6.70	6.40	6.31	7.23		8.16	7.54	6.65
H1 lead leg	R	strides	23	15	15	15	15	16	16	16	17	17	21	186				
Halonen, Kristiina (FIN) (1991)	time		6.64	11.02	15.48	20.00	24.57	29.30	34.08	39.10	44.28	49.59		55.83	3 / 7			
reaction time	0.173	interval	4.38	4.46	4.52	4.57		4.73	4.78	5.02	5.18	5.31	6.24		13.36	14.08	15.51	
		velocity	6.78	7.99	7.85	7.74	7.66	7.40	7.32	6.97	6.76	6.59	6.41	7.16		7.86	7.46	6.77
H1 lead leg	L	strides	23	15	15	15	16	16	16	16	17	17	20.5	169.5				
Ledecká, Daniela (SVK) (1991)	time		6.57	11.02	15.63	20.20	24.83	29.50	34.28	39.14	44.30	49.68		55.83	2 / 8			
reaction time	0.155	interval	4.45	4.61	4.57	4.63		4.67	4.78	4.86	5.16	5.38	6.15	PB	13.63	14.08	15.40	
		velocity	6.85	7.87	7.59	7.66	7.56	7.49	7.32	7.20	6.78	6.51	6.50	7.16		7.70	7.46	6.82
H1 lead leg	R	strides	23	16	16	16	16	16	16	16	17	17	21	173				

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			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Jichová, Nikoleta (CZE) (2001)	time		6.30	10.46	14.84	19.31	23.90		28.58	33.51	38.55	43.81	49.04		54.88	4 / 1			
reaction time	0.197	interval	4.16	4.38	4.47	4.59		4.68	4.93	5.04	5.26	5.23	5.84	=PB		13.01	14.20	15.53	
		velocity	7.14	8.41	7.99	7.83	7.63	7.48	7.10	6.94	6.65	6.69	6.85	7.29		8.07	7.39	6.76	
H1 lead leg		strides																	
Giger, Yasmin (SUI) (1999)	time		6.50	10.79	15.23	19.84	24.63		29.44	34.34	39.32	44.46	49.64		55.33	2 / 2			
reaction time	0.172	interval	4.29	4.44	4.61	4.79		4.81	4.90	4.98	5.14	5.18	5.69			13.34	14.50	15.30	
		velocity	6.92	8.16	7.88	7.59	7.31	7.28	7.14	7.03	6.81	6.76	7.03	7.23		7.87	7.24	6.86	
H1 lead leg		strides																	
Halonen, Kristiina (FIN) (1991)	time		6.55	10.73	15.11	19.61	24.22		28.90	33.69	38.59	43.78	49.15		55.62	3 / 3			
reaction time	0.175	interval	4.18	4.38	4.50	4.61		4.68	4.79	4.90	5.19	5.37	6.47	PB		13.06	14.08	15.46	
		velocity	6.87	8.37	7.99	7.78	7.59	7.48	7.31	7.14	6.74	6.52	6.18	7.19		8.04	7.46	6.79	
H1 lead leg		strides																	
Diallo, Fatoumata Bint	time		6.44	10.80	15.32	19.98	24.72		29.60	34.42	39.40	44.55	49.70		55.81	7 / 4			
reaction time	0.177	interval	4.36	4.52	4.66	4.74		4.88	4.82	4.98	5.15	5.15	6.11			13.54	14.44	15.28	
		velocity	6.99	8.03	7.74	7.51	7.38	7.17	7.26	7.03	6.80	6.80	6.55	7.17		7.75	7.27	6.87	
H1 lead leg		strides																	
Olivieri, Linda (ITA) (1998)	time		6.39	10.63	15.13	19.67	24.34		29.15	34.10	39.09	44.40	49.79		55.95	5 / 5			
reaction time	0.215	interval	4.24	4.50	4.54	4.67		4.81	4.95	4.99	5.31	5.39	6.16			13.28	14.43	15.69	
		velocity	7.04	8.25	7.78	7.71	7.49	7.28	7.07	7.01	6.59	6.49	6.49	7.15		7.91	7.28	6.69	
H1 lead leg		strides																	
Granat, Moa (SWE) (2004)	time		6.49	10.77	15.30	19.86	24.50		29.31	34.13	39.11	44.42	49.70		55.95	8 / 6			
reaction time	0.185	interval	4.28	4.53	4.56	4.64		4.81	4.82	4.98	5.31	5.28	6.25			13.37	14.27	15.57	
		velocity	6.93	8.18	7.73	7.68	7.54	7.28	7.26	7.03	6.59	6.63	6.40	7.15		7.85	7.36	6.74	
H1 lead leg		strides																	
McGrory, Kelly (IRL) (1996)	time		6.48	10.80	15.33	19.87	24.65		29.62	34.63	39.79	45.13	50.62		57.10	9 / 7			
reaction time	0.168	interval	4.32	4.53	4.54	4.78		4.97	5.01	5.16	5.34	5.49	6.48	PB		13.39	14.76	15.99	
		velocity	6.94	8.10	7.73	7.71	7.32	7.04	6.99	6.78	6.55	6.38	6.17	7.01		7.84	7.11	6.57	
H1 lead leg		strides																	
Slettum, Elisabeth (NOR) (1991)	time		6.52	10.78	15.22	19.77	24.59		29.55	34.59	39.89	45.40	50.96		57.16	6 / 8			
reaction time	0.236	interval	4.26	4.44	4.55	4.82		4.96	5.04	5.30	5.51	5.56	6.20			13.25	14.82	16.37	
		velocity	6.90	8.22	7.88	7.69	7.26	7.06	6.94	6.60	6.35	6.29	6.45	7.00		7.92	7.09	6.41	
H1 lead leg		strides																	

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		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Demes, Eileen (GER) (1997)	time		10.67	14.85	19.09	23.65		28.34	33.15	38.24	43.45	48.96		55.25	8 / 1			
	reaction time	0.233						4.69	4.81	5.09	5.21	5.51	6.29	PB			14.06	15.81
	interval			4.18	4.24	4.56		7.46	7.28	6.88	6.72	6.35	6.36	7.24			7.47	6.64
	velocity		7.50	8.37	8.25	7.68												
	H1 lead leg																	
Fra, Daniela (ESP) (2000)	time		10.57	14.87	19.31	23.87		28.54	33.46	38.45	43.76	49.19		55.71	6 / 2			
	reaction time	0.197						4.67	4.92	4.99	5.31	5.43	6.52	PB			14.15	15.73
	interval			4.30	4.44	4.56		7.49	7.11	7.01	6.59	6.45	6.13	7.18			7.42	6.68
	velocity		7.57	8.14	7.88	7.68												
	H1 lead leg																	
Couckuyt, Paulien (BEL) (1991)	time		10.53	14.82	19.27	23.84		28.69	33.66	38.76	44.16	49.55		55.73	3 / 3			
	reaction time	0.205						4.85	4.97	5.10	5.40	5.39	6.18				14.39	15.89
	interval			4.29	4.45	4.57		7.22	7.04	6.86	6.48	6.49	6.47	7.18			7.30	6.61
	velocity		7.60	8.16	7.87	7.66												
	H1 lead leg																	
Ledecká, Daniela (SVK) (1996)	time		11.01	15.56	20.10	24.79		29.49	34.25	39.21	44.46	49.89		56.17	2 / 4			
	reaction time	0.170						4.70	4.76	4.96	5.25	5.43	6.28				14.15	15.64
	interval			4.55	4.54	4.69		7.45	7.35	7.06	6.67	6.45	6.37	7.12			7.42	6.71
	velocity		7.27	7.69	7.71	7.46												
	H1 lead leg																	
Smolińska, Izabela (POL) (1991)	time		10.82	15.23	19.74	24.39		29.21	34.17	39.29	44.65	50.11		56.24	9 / 5			
	reaction time	0.292						4.82	4.96	5.12	5.36	5.46	6.13	PB			14.43	15.94
	interval			4.41	4.51	4.65		7.26	7.06	6.84	6.53	6.41	6.53	7.11			7.28	6.59
	velocity		7.39	7.94	7.76	7.53												
	H1 lead leg																	
Fahr, Annina (SUI) (1993)	time		10.84	15.19	19.71	24.41		29.19	34.05	39.36	44.74	50.03		56.59	5 / 6			
	reaction time	0.208						4.78	4.86	5.31	5.38	5.29	6.56				14.34	15.98
	interval			4.35	4.52	4.70		7.32	7.20	6.59	6.51	6.62	6.10	7.07			7.32	6.57
	velocity		7.38	8.05	7.74	7.45												
	H1 lead leg																	
Gnafáki, Dímitra (GRE) (1997)	time		10.76	15.15	19.67	24.40		29.22	34.24	39.50	44.91	50.31		56.62	4 / 7			
	reaction time	0.172						4.82	5.02	5.26	5.41	5.40	6.31				14.57	16.07
	interval			4.39	4.52	4.73		7.26	6.97	6.65	6.47	6.48	6.34	7.06			7.21	6.53
	velocity		7.43	7.97	7.74	7.40												
	H1 lead leg																	

Heat 1

date 09-Jun-24

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		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mátó, Sára (HUN) (2000)	time		6.42	10.61	14.98	19.41	23.94		28.78	33.75	38.95	44.42	49.73	55.95	2 / 1			
	reaction time	0.214						4.84	4.97	5.20	5.47	5.31	6.22				12.99	14.34
	interval			4.19	4.37	4.43	4.53	7.23	7.04	6.73	6.40	6.59	6.43	7.15			8.08	7.32
	velocity		7.01	8.35	8.01	7.90	7.73											
	H1 lead leg																	
Iuel, Amalie (NOR) (1994)	time		6.56	10.84	15.24	19.70	24.37		29.39	34.46	39.60	44.85	50.08	56.23	4 / 2			
	reaction time	0.174						5.02	5.07	5.14	5.25	5.23	6.15				13.14	14.76
	interval			4.28	4.40	4.46	4.67	6.97	6.90	6.81	6.67	6.69	6.50	7.11			7.99	7.11
	velocity		6.86	8.18	7.95	7.85	7.49											
	H1 lead leg																	
Uusimäki, Hilla (FIN) (1996)	time		6.32	10.48	14.83	19.30	23.96		28.96	33.92	39.13	44.58	50.06	56.40	3 / 3			
	reaction time	0.221						5.00	4.96	5.21	5.45	5.48	6.34				12.98	14.62
	interval			4.16	4.35	4.47	4.66	7.00	7.06	6.72	6.42	6.39	6.31	7.09			8.09	7.18
	velocity		7.12	8.41	8.05	7.83	7.51											
	H1 lead leg																	
Barbosa, Vera (POR) (1989)	time		6.55	10.77	15.28	19.74	24.33		29.17	34.09	39.25	44.63	50.13	56.81	6 / 4			
	reaction time	0.215						4.84	4.92	5.16	5.38	5.50	6.68				13.19	14.35
	interval			4.22	4.51	4.46	4.59	7.23	7.11	6.78	6.51	6.36	5.99	7.04			7.96	7.32
	velocity		6.87	8.29	7.76	7.85	7.63											
	H1 lead leg																	
Gryc, Anna (POL) (1999)	time		6.60	10.96	15.49	20.07	24.86		29.84	34.83	39.94	45.30	50.72	56.91	7 / 5			
	reaction time	0.219						4.98	4.99	5.11	5.36	5.42	6.19	=PB			13.47	14.76
	interval			4.36	4.53	4.58	4.79	7.03	7.01	6.85	6.53	6.46	6.46	7.03			7.80	7.11
	velocity		6.82	8.03	7.73	7.64	7.31											
	H1 lead leg																	
Zupin, Agata (SLO) (1998)	time		6.46	10.72	15.33	20.04	24.88		29.99	35.02	40.26	45.70	51.46	57.83	8 / 6			
	reaction time	0.209						5.11	5.03	5.24	5.44	5.76	6.37				13.58	14.98
	interval			4.26	4.61	4.71	4.84	6.85	6.96	6.68	6.43	6.08	6.28	6.92			7.73	7.01
	velocity		6.97	8.22	7.59	7.43	7.23											
	H1 lead leg																	
Buryak, Mariya (UKR) (2001)	time		6.58	10.94	15.36	19.97	24.85		29.93	35.03	40.44	46.00	51.67	58.40	9 / 7			
	reaction time	0.228						5.08	5.10	5.41	5.56	5.67	6.73				13.39	15.06
	interval			4.36	4.42	4.61	4.88	6.89	6.86	6.47	6.29	6.17	5.94	6.85			7.84	6.97
	velocity		6.84	8.03	7.92	7.59	7.17											
	H1 lead leg																	
Uță, Alexandra Ștefania (ROU) (1991)	time		6.93											dnf	5 / --			
	reaction time	0.183																
	interval																	
	velocity		6.49															
	H1 lead leg																	

2024 NCAA Championships (Eugene, OR) (TV Analysis)

FINAL

date 08-Jun-24

Henson (2024) - Athlete First: 2024 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Jones, Jasmine (USA) (2001)	time	6.42	10.55	14.80	19.22	23.65		28.27	33.03	37.83	42.71	47.59		53.15	5 / 1			
	reaction time		interval	4.13	4.25	4.42	4.43	4.62	4.76	4.80	4.88	4.88	5.56	PB		12.80	13.81	14.56
		7.01	8.47	8.24	7.92	7.90		7.58	7.35	7.29	7.17	7.17	7.19	7.53		8.20	7.60	7.21
	H1 lead leg	R	strides	22	14	14	14	15	15	15	15	15	18.2	171.2				
Sutherland, Savannah (CAN)	time	6.46	10.51	14.64	18.85	23.19		27.69	32.32	37.28	42.33	47.55		53.26	7 / 2			
	reaction time		interval	4.05	4.13	4.21	4.34	4.50	4.63	4.96	5.05	5.22	5.71	NR PB		12.39	13.47	15.23
		6.97	8.64	8.47	8.31	8.06		7.78	7.56	7.06	6.93	6.70	7.01	7.51		8.47	7.80	6.89
	H1 lead leg	R	strides	23	15	15	15	15	15	16	16	16	20	181				
Glenn, Rachel (USA) (2002)	time	6.30	10.42	14.64	18.97	23.36		27.86	32.74	37.70	42.75	47.96		54.11	6 / 3			
	reaction time		interval	4.12	4.22	4.33	4.39	4.50	4.88	4.96	5.05	5.21	6.15			12.67	13.77	15.22
		7.14	8.50	8.29	8.08	7.97		7.78	7.17	7.06	6.93	6.72	6.50	7.39		8.29	7.63	6.90
	H1 lead leg	R	strides	21	14	14	14	14	15	15	15	15	18.7	169.7				
Garrett, Akala (USA) (2005)	time	6.50	10.63	14.89	19.23	23.73		28.40	33.24	38.24	43.21	48.59		54.84	8 / 4			
	reaction time		interval	4.13	4.26	4.34	4.50	4.67	4.84	5.00	4.97	5.38	6.25			12.73	14.01	15.35
		6.92	8.47	8.22	8.06	7.78		7.49	7.23	7.00	7.04	6.51	6.40	7.29		8.25	7.49	6.84
	H1 lead leg	R	strides	15	15	15	15	15	16	16	16	17	140					
Townsend, Sydni (USA) (2001)	time	6.42	10.55	14.76	19.14	23.73		28.36	33.24	38.24	43.37	48.71		55.01	3 / 5			
	reaction time		interval	4.13	4.21	4.38	4.59	4.63	4.88	5.00	5.13	5.34	6.30			12.72	14.10	15.47
		7.01	8.47	8.31	7.99	7.63		7.56	7.17	7.00	6.82	6.55	6.35	7.27		8.25	7.45	6.79
	H1 lead leg	L	strides	23	16	16	16	16	17	17	18	18	22	195				
Grebo, Shana (FRA) (2000)	time	6.42	10.47	14.73	19.31	23.94		28.74	33.58	38.54	43.71	49.13		55.30	4 / 6			
	reaction time		interval	4.05	4.26	4.58	4.63	4.80	4.84	4.96	5.17	5.42	6.17	PB		12.89	14.27	15.55
		7.01	8.64	8.22	7.64	7.56		7.29	7.23	7.06	6.77	6.46	6.48	7.23		8.15	7.36	6.75
	H1 lead leg	L	strides	23	15	15	17	17	17	17	17	18	173					
Matthews, Gabrielle (JAM) (2001)	time	6.42	10.55	14.76	19.18	23.86		28.69	33.82	39.12				55.33	9 / 7			
	reaction time		interval	4.13	4.21	4.42	4.68	4.83	5.13	5.30						12.76	14.64	
		7.01	8.47	8.31	7.92	7.48		7.25	6.82	6.60				7.23		8.23	7.17	
	H1 lead leg	L	strides	15	15	15	16	16	17	17				111				
Glynn, Abbey (USA) (2001)	time	6.67	10.88	15.22	19.68	24.31		28.98	33.82	38.84	44.17	49.71		55.75	2 / 8			
	reaction time		interval	4.21	4.34	4.46	4.63	4.67	4.84	5.02	5.33	5.54	6.04			13.01	14.14	15.89
		6.75	8.31	8.06	7.85	7.56		7.49	7.23	6.97	6.57	6.32	6.62	7.17		8.07	7.43	6.61
	H1 lead leg	L	strides	23	15	15	15	15	15	15	16	16	160					
Bellamy, Shani'a (USA) (2001)	time	6.50	10.63	14.89	19.18	23.65		28.23	33.16	38.24	43.54	49.09		55.78	1 / 9			
	reaction time		interval	4.13	4.26	4.29	4.47	4.58	4.93	5.08	5.30	5.55	6.69			12.68	13.98	15.93
		6.92	8.47	8.22	8.16	7.83		7.64	7.10	6.89	6.60	6.31	5.98			8.28	7.51	6.59
	H1 lead leg	L	strides	23	15	15	15	15	16	16	17	17	164					

2024 Bauhaus Galan (Stockholm, SWE)

FINAL

date 02-Jun-24

Omega Timing (2024) - diamond league race analysis

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Boi, Femke (NED) (2000)	time	6.42	10.49	14.62	18.80	23.09		27.59	32.28	37.18	42.18	47.24		53.07	5 / 1			
	reaction time	0.191	interval	4.07	4.13	4.18	4.29	4.50	4.69	4.90	5.00	5.06	5.83			12.38	13.48	14.96
		7.01	8.60	8.47	8.37	8.16		7.78	7.46	7.14	7.00	6.92	6.86	7.54		8.48	7.79	7.02
	H1 lead leg	L	strides	22	14	14	14	14	14	15	15	15	19	170				
Clayton, Rushell (JAM) (1999)	time	6.26	10.19	14.21	18.30	22.55		27.08	31.93	37.09	42.30	47.56		53.78	6 / 2			
	reaction time	0.142	interval	3.93	4.02	4.09	4.25	4.53	4.85	5.16	5.21	5.26	6.22			12.04	13.63	15.63
		7.19	8.91	8.71	8.56	8.24		7.73	7.22	6.78	6.72	6.65	6.43	7.44		8.72	7.70	6.72
	H1 lead leg	L	strides	22	14	14	14	15	16	16	16	16	19	176				
Knight, Andrenette (JAM) (1991)	time	6.18	10.15	14.22	18.40	22.76		27.29	32.09	37.17	42.46	47.95		54.62	4 / 3			
	reaction time	0.168	interval	3.97	4.07	4.18	4.36	4.53	4.80	5.08	5.29	5.49	6.67			12.22	13.69	15.86
		7.28	8.82	8.60	8.37	8.03		7.73	7.29	6.89	6.62	6.38	6.00	7.32		8.59	7.67	6.62
	H1 lead leg	R	strides	23	15	15	15	15	16	16	17	17	20.7	169.7				
Russell, Janieve (JAM) (1993)	time	6.46	10.47	14.57	18.76	23.09		27.75	32.71	37.90	43.25	48.61		54.99	7 / 4			
	reaction time	0.159	interval	4.01	4.10	4.19	4.33	4.66	4.96	5.19	5.35	5.36	6.38			12.30	13.95	15.90
		6.97	8.73	8.54	8.35	8.08		7.51	7.06	6.74	6.54	6.53	6.27	7.27		8.54	7.53	6.60
	H1 lead leg	R	strides	23	15	15	15	16	16	17	17	17	20.2	186.2				
Ryzhykova, Anna (UKR) (1991)	time	6.54	10.70	14.89	19.16	23.56		28.26	33.11	38.19	43.51	49.09		55.64	1 / 5			
	reaction time	0.194	interval	4.16	4.19	4.27	4.40	4.70	4.85	5.08	5.32	5.58	6.55			12.62	13.95	15.98
		6.88	8.41	8.35	8.20	7.95		7.45	7.22	6.89	6.58	6.27	6.11	7.19		8.32	7.53	6.57
	H1 lead leg	R	strides	21	14	14	14	15	15	15	15	16	20	131				
Folorunso, Ayomide (ITA) (1991)	time	6.41	10.74	15.04	19.39	23.84		28.49	33.29	38.37	43.69	49.28		55.99	2 / 6			

reaction time	0.174	interval	4.33	4.30	4.35	4.45	4.65	4.80	5.08	5.32	5.59	6.71		12.98	13.90	15.99	
		velocity	7.02	8.08	8.14	8.05	7.87	7.53	7.29	6.89	6.58	6.26	5.96	7.14	8.09	7.55	6.57
H1 lead leg	L	strides	23	15				16	16	16	16	18	21	141			
Peeters, Cathelijan (NED) (1996)	time	6.77	10.95	15.20	19.58	24.14	28.88	33.93	39.21	44.57	50.08			56.03	3 / 7		
reaction time	0.279	interval	4.18	4.25	4.38	4.56	4.74	5.05	5.28	5.36	5.51	5.95		12.81	14.35	16.15	
		velocity	6.65	8.37	8.24	7.99	7.68	7.38	6.93	6.63	6.53	6.35	6.72	7.14	8.20	7.32	6.50
H1 lead leg	R	strides	23	15	15	15	16	17	17	17	17	17	152				
Granat, Moa (SWE) (2004)	time	6.52	10.73	15.08	19.61	24.25	28.91	33.86	39.14	44.58	50.07			56.65	8 / 8		
reaction time	0.154	interval	4.21	4.35	4.53	4.64	4.66	4.95	5.28	5.44	5.49	6.58		13.09	14.25	16.21	
		velocity	6.90	8.31	8.05	7.73	7.54	7.51	7.07	6.63	6.43	6.38	6.08	7.06	8.02	7.37	6.48
H1 lead leg	R	strides	23	15	15	15	15	15	15	17	17	17	164				

2024 The Edwin Moses Legends Meet (Atlanta, GA) (TV Analysis)

FINAL

date 31-May-24

Henson (2024) - Athlete First: 2024 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin-Levrone, Sydney	time	6.27	10.44	14.72	18.92	23.35	27.92	32.57	37.30	42.33	47.27			52.70	6 / 1			
reaction time	interval		4.17	4.28	4.20	4.43	4.57	4.65	4.73	5.03	4.94	5.43				12.65	13.65	14.70
	velocity	7.18	8.39	8.18	8.33	7.90	7.66	7.53	7.40	6.96	7.09	7.37	7.59			8.30	7.69	7.14
H1 lead leg	R	strides	22	15	15	15	15	15	15	15	16	16	18	177				
Smith, Michelle (ISV) (2006)	time	6.63	10.98	15.43	19.82	24.41	29.31	34.21		44.43	49.65			55.96	7 / 2			
reaction time	interval		4.35	4.45	4.39	4.59	4.90	4.90		10.22	5.22	6.31	NR PB			13.19	14.39	15.44
	velocity	6.79	8.05	7.87	7.97	7.63	7.14	7.14		6.85	6.70	6.34	7.15			7.96	7.30	6.80
H1 lead leg	R	strides	23	15	15	15	16	16		17	17	17	132					

2024 Bislett Games (Oslo, NOR) (TV Analysis)

FINAL

date 30-May-24

Henson (2024) - Athlete First: 2024 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Clayton, Rushell (JAM) (1999)	time	6.29	10.32	14.35	18.52	22.82	27.46	32.23	37.31	42.42	47.77			54.02	5 / 2			
reaction time	0.147	interval	4.03	4.03	4.17	4.30	4.64	4.77	5.08	5.11	5.35	6.25				12.23	13.71	15.54
	velocity	7.15	8.68	8.68	8.39	8.14	7.54	7.34	6.89	6.85	6.54	6.40	7.40			8.59	7.66	6.76
H1 lead leg	L	strides	22	14	14	14	15	15	16	16	16	16	19.2	175.2				
Knight, Andrenette (JAM) (1994)	time	6.18	10.18	14.25	18.45	22.82	27.56	32.37	37.41	42.66	48.21			54.63	4 / 2			
reaction time	0.172	interval	4.00	4.07	4.20	4.37	4.74	4.81	5.04	5.25	5.55	6.42				12.27	13.92	15.84
	velocity	7.28	8.75	8.60	8.33	8.01	7.38	7.28	6.94	6.67	6.31	6.23	7.32			8.56	7.54	6.63
H1 lead leg	R	strides	23	15	15	15	16	16	16	17	17	20	185					
Russell, Janieve (JAM) (1993)	time	6.45	10.56	14.73	19.03	23.39	28.17	33.11	38.25	43.46	48.88			55.07	6 / 3			
reaction time	0.139	interval	4.11	4.17	4.30	4.36	4.78	4.94	5.14	5.21	5.42	6.19				12.58	14.08	15.77
	velocity	6.98	8.52	8.39	8.14	8.03	7.32	7.09	6.81	6.72	6.46	6.46	7.26			8.35	7.46	6.66
H1 lead leg	R	strides	23	15	15	15	16	16	17	17	17	20	186					
luel, Amalie (NOR) (1996)	time	6.49	10.73	15.00	19.39	24.00	28.81	33.75	38.83	44.07	49.42			55.50	7 / 4			
reaction time	0.129	interval	4.24	4.27	4.39	4.61	4.81	4.94	5.08	5.24	5.35	6.08				12.90	14.36	15.67
	velocity	6.93	8.25	8.20	7.97	7.59	7.28	7.09	6.89	6.68	6.54	6.58	7.21			8.14	7.31	6.70
H1 lead leg	L	strides	23	15	15	15	15	15	15	15	16	16	19	179				
Knight, Jessie (GBR) (1994)	time	6.55	10.79	15.12	19.53		28.87	33.79		44.27	49.65			55.52	2 / 5			
reaction time	0.154	interval	4.24	4.33	4.41		9.34	4.92		10.48	5.38	5.87				12.98	14.26	15.86
	velocity	6.87	8.25	8.08	7.94		7.49	7.11		6.68	6.51	6.81	7.20			8.09	7.36	6.62
H1 lead leg	R	strides	22	15	15	15		15	15	16	16	19.2	163.2					
Ryzhykova, Anna (UKR) (1996)	time	6.55	10.69	14.99	19.39	24.00	28.77	33.61	38.63	43.77	49.21			55.58	8 / 6			
reaction time	0.189	interval	4.14	4.30	4.40	4.61	4.77	4.84	5.02	5.14	5.44	6.37				12.84	14.22	15.60
	velocity	6.87	8.45	8.14	7.95	7.59	7.34	7.23	6.97	6.81	6.43	6.28	7.20			8.18	7.38	6.73
H1 lead leg	R	strides	21	14	14	14	15	15	15	15	15	20	172					
Folorunso, Ayomide (ITA) (1995)	time	6.32	10.35	14.55	18.86	23.26	28.03	32.92	38.12	43.67	49.38			56.06	3 / 7			
reaction time	0.168	interval	4.03	4.20	4.31	4.40	4.77	4.89	5.20	5.55	5.71	6.68				12.54	14.06	16.46
	velocity	7.12	8.68	8.33	8.12	7.95	7.34	7.16	6.73	6.31	6.13	5.99	7.14			8.37	7.47	6.38
H1 lead leg	L	strides	23	15	15	16	16	16	16	17	17	21	187					
Lehikoinen, Viivi (FIN) (1999)	time	6.49	10.69	14.99	19.43		28.74	33.78		44.31	49.82			56.23	1 / 8			
reaction time	0.234	interval	4.20	4.30	4.44		9.31	5.04		10.53	5.51	6.41				12.94	14.35	16.04
	velocity	6.93	8.33	8.14	7.88		7.52	6.94		6.65	6.35	6.24	7.11			8.11	7.32	6.55
H1 lead leg	R	strides	23	15	15	16	16		17		17	18	21	158				

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

FINAL

date 29-May-24

Shandong Athletics Sport Science (2024)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kong Yingying (CHN) (2003)	time	6.72	11.06	15.45	19.99	24.72	29.53	34.58	39.69	44.94	50.35			56.45	3 / 1			
reaction time	0.249	interval	4.34	4.39	4.54	4.73	4.81	5.05	5.11	5.25	5.41	6.10	PB			13.27	14.59	15.77
	velocity	6.70	8.06	7.97	7.71	7.40	7.28	6.93	6.85	6.67	6.47	6.56	7.09			7.91	7.20	6.66
H1 lead leg	L	strides	23	16	15	15	16	16	17	17	17	17	20.2	189.2				

Ding Yirui (CHN) (2002)	time	6.62	10.89	15.30	19.92	24.77	29.75	34.87	40.09	45.58	51.23	57.42	5 / 2			
reaction time	0.313 interval		4.27	4.41	4.62	4.85	4.98	5.12	5.22	5.49	5.65	6.19	PB	13.30	14.95	16.36
	velocity	6.80	8.20	7.94	7.58	7.22	7.03	6.84	6.70	6.38	6.19	6.46	6.97	7.89	7.02	6.42
H1 lead leg	L strides	22	15	15	15	16	16	16	16	17	17	19.5	184.5			
Utsunomiya, Eri (JPN) (1993)	time	6.61	11.01	15.60	20.22	25.02	30.10	35.30	40.56	45.90	51.30	57.52	6 / 3			
reaction time	0.198 interval		4.40	4.59	4.62	4.80	5.08	5.20	5.26	5.34	5.40	6.22		13.61	15.08	16.00
	velocity	6.81	7.95	7.63	7.58	7.29	6.89	6.73	6.65	6.55	6.48	6.43	6.95	7.71	6.96	6.56
H1 lead leg	R strides	23	15	15	15	15	16	16	17	17	17	21	187			
Umehara, Satsuki (JPN) (1993)	time	6.74	11.18	15.83	20.54	25.27	30.25	35.30	40.52	46.00	51.60	58.02	4 / 4			
reaction time	0.198 interval		4.44	4.65	4.71	4.73	4.98	5.05	5.22	5.48	5.60	6.42		13.80	14.76	16.30
	velocity	6.68	7.88	7.53	7.43	7.40	7.03	6.93	6.70	6.39	6.25	6.23	6.89	7.61	7.11	6.44
H1 lead leg	R strides	23	16	16	16	16	17	17	17	18	18	22.2	196.2			
Ou Ying (CHN) (2001)	time	6.99	11.48	16.10	20.72	25.52	30.66	36.10	41.66	47.28	53.02	59.42	7 / 5			
reaction time	0.216 interval		4.49	4.62	4.62	4.80	5.14	5.44	5.56	5.62	5.74	6.40		13.73	15.38	16.92
	velocity	6.44	7.80	7.58	7.58	7.29	6.81	6.43	6.29	6.23	6.10	6.25	6.73	7.65	6.83	6.21
H1 lead leg	L strides	23	16	16	16	16	17	18	18	18	18	21.5	197.5			
Wang Jiuxiang (CHN) (2001)	time	6.74	11.36	16.25	21.15	26.19	31.31	36.48	41.86	47.40	53.10	59.48	8 / 6			
reaction time	0.227 interval		4.62	4.89	4.90	5.04	5.12	5.17	5.38	5.54	5.70	6.38		14.41	15.33	16.62
	velocity	6.68	7.58	7.16	7.14	6.94	6.84	6.77	6.51	6.32	6.14	6.27	6.72	7.29	6.85	6.32
H1 lead leg	L strides	23	17	17	17	17	17	17	18	18	19	22	202			
Chen Liying (CHN) (1994)	time	6.81	11.24	15.83	20.44	25.42	30.71	36.10	41.81	47.97	54.40	61.41	2 / 7			
reaction time	0.216 interval		4.43	4.59	4.61	4.98	5.29	5.39	5.71	6.16	6.43	7.01		13.63	15.66	18.30
	velocity	6.61	7.90	7.63	7.59	7.03	6.62	6.49	6.13	5.68	5.44	5.71	6.51	7.70	6.70	5.74
H1 lead leg	R strides	24	16	16	16	16	17	17	18	20	20	22	202			
Qiu Zhangyan (CHN) (1998)	time	7.17	11.81	16.73	21.76	26.84	31.95	37.33	43.17	49.38		62.07	1 / 8			
reaction time	0.319 interval		4.64	4.92	5.03	5.08	5.11	5.38	5.84	6.21				14.59	15.57	
	velocity	6.28	7.54	7.11	6.96	6.89	6.85	6.51	5.99	5.64		6.44		7.20	6.74	
H1 lead leg	L strides	24	17	17	17	17	17	18	18	20		165				

Heat 3

date 28-May-24

Shandong Athletics Sport Science (2023)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kong Yingying (CHN) (2003)	time	6.62	10.93	15.33	19.84	24.54	29.59	35.08	40.76	46.73	52.72		59.24	4 / 1				
reaction time	0.243 interval		4.31	4.40	4.51	4.70	5.05	5.49	5.68	5.97	5.99	6.52			13.22	15.24	17.64	
	velocity	6.80	8.12	7.95	7.76	7.45	6.93	6.38	6.16	5.86	5.84	6.13	6.75		7.94	6.89	5.95	
H1 lead leg	L strides	23	15	15	15	15	16	17	17	17	17	20	187					

2024 Shimane High School Championships (Izumo, JPN)

FINAL

date 25-May-24

Shimizu (2024) - shimane high school championships 2024 - biomechanics data analysis

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bessho, Miyu (JPN) (2007)	time	7.47	12.40	17.43	22.60	27.73	33.08	38.52	44.13	50.27	56.28		62.59	5 / 1				
reaction time	interval		4.93	5.03	5.17	5.13	5.35	5.44	5.61	6.14	6.01	6.31			15.13	15.92	17.76	
	velocity	6.02	7.10	6.96	6.77	6.82	6.54	6.43	6.24	5.70	5.82	6.34	6.39		6.94	6.60	5.91	
H1 lead leg	strides	24	15	17	17	17	17	17	17	17	19	18	21	199				
Okuni, Chinatsu (JPN)	time	7.47	12.27	17.17	22.30	27.52	33.12	38.93	44.90	51.30	57.63		64.28	6 / 2				
reaction time	interval		4.80	4.90	5.13	5.22	5.60	5.81	5.97	6.40	6.33	6.65			14.83	16.63	18.70	
	velocity	6.02	7.29	7.14	6.82	6.70	6.25	6.02	5.86	5.47	5.53	6.02	6.22		7.08	6.31	5.61	
H1 lead leg	strides	25	17	17	17	17	19	19	19	21	21	23	215					
Matsui, Hinata (JPN)	time	7.33	12.33	17.52	22.80	28.47	34.17	40.08	46.18	52.47	58.85		65.95	8 / 3				
reaction time	interval		5.00	5.19	5.28	5.67	5.70	5.91	6.10	6.29	6.38	7.10			15.47	17.28	18.77	
	velocity	6.14	7.00	6.74	6.63	6.17	6.14	5.92	5.74	5.56	5.49	5.63	6.07		6.79	6.08	5.59	
H1 lead leg	strides	25	18	18	19	19	19	20	20	21	21	25	225					
Kokoro, Hidaka (JPN)	time	7.42	12.48	17.72	23.05	28.67	34.33	40.28	46.47	53.25	60.35		68.45	7 / 4				
reaction time	interval		5.06	5.24	5.33	5.62	5.66	5.95	6.19	6.78	7.10	8.10			15.63	17.23	20.07	
	velocity	6.06	6.92	6.68	6.57	6.23	6.18	5.88	5.65	5.16	4.93	4.94	5.84		6.72	6.09	5.23	
H1 lead leg	strides	26	18	18	18	18	19	19	19	21	21	24.5	221.5					

2024 Meeting International Mohammed VI d'Athlétisme (Marrakech, MAR) (TV Analysis)

FINAL

date 19-May-24

Henson (2024) - Athlete First: 2024 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Clayton, Rushell (JAM) (1993)	time	6.34	10.16	14.23	18.36	22.78	27.36	32.18	37.27	42.55	47.93		53.98	6 / 1				
reaction time	0.158 interval		3.82	4.07	4.13	4.42	4.58	4.82	5.09	5.28	5.38	6.05			12.02	13.82	15.75	
	velocity	7.10	9.16	8.60	8.47	7.92	7.64	7.26	6.88	6.63	6.51	6.61	7.41		8.74	7.60	6.67	
H1 lead leg	L strides	22	14	14	14	15	15	15	16	16	16	19.2	176.2					
Salmon, Shiann (JAM) (1999)	time	6.43	10.61	14.99	19.46	23.99	28.56	33.24	38.02	43.06	48.23		54.27	7 / 2				
reaction time	0.163 interval		4.18	4.38	4.47	4.53	4.57	4.68	4.78	5.04	5.17	6.04			13.03	13.78	14.99	
	velocity	7.00	8.37	7.99	7.83	7.73	7.66	7.48	7.32	6.94	6.77	6.62	7.37		8.06	7.62	7.00	
H1 lead leg	R strides	22	15	15	15	15	15	15	15	16	16	19.7	163.7					

Ryzhykova, Anna (UKR) (1991)	time	6.63	10.66	14.84	19.11	23.58	28.32	33.24	38.27	43.60	48.99	55.09	4 / 3			
	reaction time	0.202	interval	4.03	4.18	4.27	4.47	4.74	4.92	5.03	5.33	5.39	6.10	12.48	14.13	15.75
	velocity	6.79	8.68	8.37	8.20	7.83	7.38	7.11	6.96	6.57	6.49	6.56	7.26	8.41	7.43	6.67
	H1 lead leg	R	strides	21	14	14	14	15	15	16	16	19	158			
Geldenhuis, Zenéy (RSA) (2018)	time	6.53	10.76	15.14	19.61	24.14	28.91	33.79	39.03	44.30	49.54	55.28	1 / 4			
	reaction time	0.163	interval	4.23	4.38	4.47	4.53	4.77	4.88	5.24	5.27	5.24	5.74	13.08	14.18	15.75
	velocity	6.89	8.27	7.99	7.83	7.73	7.34	7.17	6.68	6.64	6.68	6.97	7.24	8.03	7.40	6.67
	H1 lead leg	R	strides	23	15	15	15	15	15	16	16	19	165			
Russell, Janieve (JAM) (1993)	time	6.53	10.56	14.73	19.06	23.53	28.26	33.29	38.47	43.96	49.54	55.74	5 / 5			
	reaction time	0.141	interval	4.03	4.17	4.33	4.47	4.73	5.03	5.18	5.49	5.58	6.20	12.53	14.23	16.25
	velocity	6.89	8.68	8.39	8.08	7.83	7.40	6.96	6.76	6.38	6.27	6.45	7.18	8.38	7.38	6.46
	H1 lead leg	R	strides	23	15	15	15	16	17	17	17	20	170			
Lehikoinen, Viivi (FIN) (1999)	time	6.38	10.41	14.56	18.81	23.34	28.06	33.04	38.17	43.60	49.27	55.81	8 / 6			
	reaction time	0.192	interval	4.03	4.15	4.25	4.53	4.72	4.98	5.13	5.43	5.67	6.54	12.43	14.23	16.23
	velocity	7.05	8.68	8.43	8.24	7.73	7.42	7.03	6.82	6.45	6.17	6.12	7.17	8.45	7.38	6.47
	H1 lead leg	R	strides	23	15	15	16	16	16	17	18	18	21	190		
Ennadi, Noura (MAR) (1999)	time	6.73	11.06	15.49	19.91	24.59	34.35	39.38	44.61	49.94	56.15	3 / 7				
	reaction time	0.177	interval	4.33	4.43	4.42	4.68	4.96	5.03	5.23	5.33	6.21	13.18	14.44	15.59	
	velocity	6.69	8.08	7.90	7.92	7.48	7.17	6.96	6.69	6.57	6.44	7.12	7.97	7.27	6.74	
	H1 lead leg	R	strides	23	15	15	15	15	17	17	17	20.2	169.2			
Knight, Jessie (GBR) (1994)	time	6.58	10.86	15.49	19.71	24.19	28.92	34.04	39.28	44.76	50.44	56.71	2 / 8			
	reaction time	0.163	interval	4.28	4.63	4.22	4.48	4.73	5.12	5.24	5.48	5.68	6.27	13.13	14.33	16.40
	velocity	6.84	8.18	7.56	8.29	7.81	7.40	6.84	6.68	6.39	6.16	6.38	7.05	8.00	7.33	6.40
	H1 lead leg	R	strides	22	14	16	15	15	16	16	16	19.5	164.5			

2023 Asian Games (Hangzhou, CHN)

FINAL

date 03-Oct-23

Shandong Athletics Sport Science (2023)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Adekoya, Kemi (BRN) (1993)	time	6.30	10.30	14.43	18.63	23.03	27.57	32.33	37.43	42.80	48.37	54.45	5 / 1					
	reaction time	0.196	interval	4.00	4.13	4.20	4.40	4.54	4.76	5.10	5.37	5.57	6.08	12.33	13.70	16.04		
	velocity	7.14	8.75	8.47	8.33	7.95	7.71	7.35	6.86	6.52	6.28	6.58	7.35	8.52	7.66	6.55		
	H1 lead leg	R	strides	15	15	15	15	15	15	15	16	17	19.7	157.7				
Mo Jiadie (CHN) (2000)	time	6.46	10.60	14.76	19.03	23.56	28.23	33.13	38.13	43.30	48.77	55.01	9 / 2					
	reaction time	0.197	interval	4.14	4.16	4.27	4.53	4.67	4.90	5.00	5.17	5.47	6.24	12.57	14.10	15.64		
	velocity	6.97	8.45	8.41	8.20	7.73	7.49	7.14	7.00	6.77	6.40	6.41	7.27	8.35	7.45	6.71		
	H1 lead leg	L	strides	23	15	16	16	16	17	17	17	18	22	192				
Ramraj, Vithya (IND) (1998)	time	6.56	10.76	15.13	19.47	24.00	28.73	33.63	38.60	43.86	49.37	55.68	7 / 3					
	reaction time	0.188	interval	4.20	4.37	4.34	4.53	4.73	4.90	4.97	5.26	5.51	6.31	12.91	14.16	15.74		
	velocity	6.86	8.33	8.01	8.06	7.73	7.40	7.14	7.04	6.65	6.35	6.34	7.18	8.13	7.42	6.67		
	H1 lead leg	R	strides	24	16	16	16	17	17	17	18	18	21	196				
Jamal, Aminat Yusuf (BRN)	time	6.33	10.43	14.70	19.00	23.56	28.36	33.43	38.66	44.23	50.06	56.84	8 / 4					
	reaction time	0.188	interval	4.10	4.27	4.30	4.56	4.80	5.07	5.23	5.57	5.83	6.78	12.67	14.43	16.63		
	velocity	7.11	8.54	8.20	8.14	7.68	7.29	6.90	6.69	6.28	6.00	5.90	7.04	8.29	7.28	6.31		
	H1 lead leg	R	strides	22	15	14	14	15	15	16	16	17	17	161				
Hoffman, Lauren (PHI) (1999)	time	6.43	10.46	14.63	18.93	23.60	28.46	33.63	39.03	44.53	50.33	57.21	6 / 5					
	reaction time	0.205	interval	4.03	4.17	4.30	4.67	4.86	5.17	5.40	5.50	5.80	6.88	12.50	14.70	16.70		
	velocity	7.00	8.68	8.39	8.14	7.49	7.20	6.77	6.48	6.36	6.03	5.81	6.99	8.40	7.14	6.29		
	H1 lead leg	L	strides	15	15	15	16	17	18	18	18	19	151					

2023 Prefontaine Classic (Eugene, OR)

FINAL

date 17-Sep-23

Omega Timing (2023) - diamond league race analysis

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bo, Femke (NED) (2000)	time	6.25	10.32	14.46	18.63	22.96	27.45	32.03	36.74	41.54	46.44	51.98	6 / 1					
	reaction time	0.158	interval	4.07	4.14	4.17	4.33	4.49	4.58	4.71	4.80	4.90	5.54	12.38	13.40	14.41		
	velocity	7.20	8.60	8.45	8.39	8.08	7.80	7.64	7.43	7.29	7.14	7.22	7.70	8.48	7.84	7.29		
	H1 lead leg	L	strides	22	14	14	14	14	14	15	15	15	18.2	169.2				
Little, Shamier (USA) (1995)	time	6.09	10.12	14.23	18.41	22.76	27.27	31.89	36.64	41.61	46.92	53.45	5 / 2					
	reaction time	0.169	interval	4.03	4.11	4.18	4.35	4.51	4.62	4.75	4.97	5.31	6.53	12.32	13.48	15.03		
	velocity	7.39	8.68	8.52	8.37	8.05	7.76	7.58	7.37	7.04	6.59	6.13	7.48	8.52	7.79	6.99		
	H1 lead leg	R	strides	23	15	15	14	14	15	15	15	16	20	178				
Clayton, Rushell (JAM) (1991)	time	6.25	10.22	14.25	18.43	22.88	27.51	32.30	37.29	42.36	47.53	53.56	7 / 3					
	reaction time	0.138	interval	3.97	4.03	4.18	4.45	4.63	4.79	4.99	5.07	5.17	6.03	12.18	13.87	15.23		
	velocity	7.20	8.82	8.68	8.37	7.87	7.56	7.31	7.01	6.90	6.77	6.63	7.47	8.62	7.57	6.89		
	H1 lead leg	L	strides	22	14	14	14	14	15	16	16	16	19	176				
Russell, Janieve (JAM) (1993)	time	6.30	10.42	14.57	18.74	23.10	27.69	32.48	37.37	42.27	47.41	53.60	3 / 4					
	reaction time	0.140	interval	4.12	4.15	4.17	4.36	4.59	4.79	4.89	4.90	5.14	6.19	12.44	13.74	14.93		

	velocity	7.14	8.50	8.43	8.39	8.03	7.63	7.31	7.16	7.14	6.81	6.46	7.46	8.44	7.64	7.03
H1 lead leg	R	strides	23	15		15	15	16	16	16	16	20	152			
Cockrell, Anna (USA) (1997)	time	6.07	10.07	14.20	18.41	22.87	27.58	32.45	37.43	42.63	48.04		54.48	4 / 5		
reaction time	0.139	interval	4.00	4.13	4.21	4.46	4.71	4.87	4.98	5.20	5.41	6.44		12.34	14.04	15.59
	velocity	7.41	8.75	8.47	8.31	7.85	7.43	7.19	7.03	6.73	6.47	6.21	7.34	8.51	7.48	6.74
H1 lead leg	R	strides	22	14		14	15	15	15	15	16		126			
Folorunso, Ayomide (ITA) (1997)	time	6.28	10.51	14.83	19.23	23.78	28.48	33.29	38.25	43.37	48.63		54.68	8 / 6		
reaction time	0.182	interval	4.23	4.32	4.40	4.55	4.70	4.81	4.96	5.12	5.26	6.05		12.95	14.06	15.34
	velocity	7.17	8.27	8.10	7.95	7.69	7.45	7.28	7.06	6.84	6.65	6.61	7.32	8.11	7.47	6.84
H1 lead leg	L	strides	23	15	15	15	16	16	16				132			
Woodruff, Gianna (PAN) (1997)	time	6.39	10.53	14.84	19.27	23.82	28.51	33.42	38.45	43.52	48.79		54.95	2 / 7		
reaction time	0.192	interval	4.14	4.31	4.43	4.55	4.69	4.91	5.03	5.07	5.27	6.16		12.88	14.15	15.37
	velocity	7.04	8.45	8.12	7.90	7.69	7.46	7.13	6.96	6.90	6.64	6.49	7.28	8.15	7.42	6.83
H1 lead leg	L	strides	22	14		15	15	15			17		98			
Ryzhykova, Anna (UKR) (1997)	time	6.47	10.66	14.96	19.32	23.83	28.67	33.68	38.71	43.79	48.98		54.98	1 / 8		
reaction time	0.166	interval	4.19	4.30	4.36	4.51	4.84	5.01	5.03	5.08	5.19	6.00		12.85	14.36	15.30
	velocity	6.96	8.35	8.14	8.03	7.76	7.23	6.99	6.96	6.89	6.74	6.67	7.28	8.17	7.31	6.86
H1 lead leg	R	strides	22	14		14	15	15			15		95			
Tkachuk, Viktoriya (UKR) (1997)	time	6.46	10.72	15.06	19.42	23.91	28.57	33.49	38.52	43.73	49.12		55.48	9 / 9		
reaction time	0.218	interval	4.26	4.34	4.36	4.49	4.66	4.92	5.03	5.21	5.39	6.36		12.96	14.07	15.63
	velocity	6.97	8.22	8.06	8.03	7.80	7.51	7.11	6.96	6.72	6.49	6.29	7.21	8.10	7.46	6.72
H1 lead leg	L	strides	22	15	15	15	15	16	16				129			

2023 Memorial van Damme (Brussels, BEL)

FINAL

date 08-Sep-23

Omega Timing (2023) - diamond league race analysis

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bol, Femke (NED) (2000)	time	6.27	10.23	14.33	18.52	22.83	27.32	32.00	36.77	41.61	46.55		52.11	5 / 1				
reaction time	0.203	interval	3.96	4.10	4.19	4.31	4.49	4.68	4.77	4.84	4.94	5.56			12.25	13.48	14.55	
	velocity	7.18	8.84	8.54	8.35	8.12	7.80	7.48	7.34	7.23	7.09	7.19	7.68	8.57	7.79	7.22		
H1 lead leg	L	strides	22	14	14	14	14	14	14	15	15	18.2	169.2					
Russell, Janieve (JAM) (1993)	time	6.33	10.42	14.55	18.78	23.14	27.72	32.46	37.21	42.24	47.56		53.80	7 / 2				
reaction time	0.153	interval	4.09	4.13	4.23	4.36	4.58	4.74	4.75	5.03	5.32	6.24			12.45	13.68	15.10	
	velocity	7.11	8.56	8.47	8.27	8.03	7.64	7.38	7.37	6.96	6.58	6.41	7.43	8.43	7.68	6.95		
H1 lead leg	R	strides	23	15	15		16	16	16	16	17	20	154					
Clayton, Rushell (JAM) (1997)	time	6.19	10.12	14.19	18.38	22.77	27.44	32.25	37.17	42.32	47.77		54.10	6 / 3				
reaction time	0.141	interval	3.93	4.07	4.19	4.39	4.67	4.81	4.92	5.15	5.45	6.33			12.19	13.87	15.52	
	velocity	7.27	8.91	8.60	8.35	7.97	7.49	7.28	7.11	6.80	6.42	6.32	7.39	8.61	7.57	6.77		
H1 lead leg	L	strides	22	14	14	15	15	15	15	16	16	19.5	175.5					
Cockrell, Anna (USA) (1997)	time	6.12	9.98	14.06	18.26	22.65	27.38	32.21	37.15	42.34	47.82		54.29	2 / 4				
reaction time	0.218	interval	3.86	4.08	4.20	4.39	4.73	4.83	4.94	5.19	5.48	6.47			12.14	13.95	15.61	
	velocity	7.35	9.07	8.58	8.33	7.97	7.40	7.25	7.09	6.74	6.39	6.18	7.37	8.65	7.53	6.73		
H1 lead leg	R	strides	22	14	14		15	15	15	15	16	19.7	145.7					
Folorunso, Ayomide (ITA) (1997)	time	6.29	10.42	14.73	19.09	23.61	28.28	33.09	38.06	43.17	48.42		54.42	8 / 5				
reaction time	0.213	interval	4.13	4.31	4.36	4.52	4.67	4.81	4.97	5.11	5.25	6.00			12.80	14.00	15.33	
	velocity	7.15	8.47	8.12	8.03	7.74	7.49	7.28	7.04	6.85	6.67	6.67	7.35	8.20	7.50	6.85		
H1 lead leg	L	strides	24	15	15		16	16	16	16	17	20	155					
Knight, Andrenette (JAM) (1997)	time	6.09	9.97	13.98	18.10	22.43	27.03	31.79	36.78	42.09	47.77		54.75	3 / 6				
reaction time	0.153	interval	3.88	4.01	4.12	4.33	4.60	4.76	4.99	5.31	5.68	6.98			12.01	13.69	15.98	
	velocity	7.39	9.02	8.73	8.50	8.08	7.61	7.35	7.01	6.59	6.16	5.73	7.31	8.74	7.67	6.57		
H1 lead leg	R	strides	24	15	15		16	16	16	17	17	20.2	156.2					
Claes, Hanne (BEL) (1991)	time	6.37	10.45	14.70	19.07	23.57	28.22	33.11	38.19	43.37	48.70		54.95	4 / 7				
reaction time	0.205	interval	4.08	4.25	4.37	4.50	4.65	4.89	5.08	5.18	5.33	6.25			12.70	14.04	15.59	
	velocity	7.06	8.58	8.24	8.01	7.78	7.53	7.16	6.89	6.76	6.57	6.40	7.28	8.27	7.48	6.74		
H1 lead leg	R	strides	23	15	15	15	15	16	16	17	17	21	185					
Tkachuk, Viktoriya (UKR) (1997)	time	6.38	10.49	14.76	19.12	23.59	28.20	33.03	38.04	43.23	48.63		54.98	1 / 8				
reaction time	0.217	interval	4.11	4.27	4.36	4.47	4.61	4.83	5.01	5.19	5.40	6.35			12.74	13.91	15.60	
	velocity	7.05	8.52	8.20	8.03	7.83	7.59	7.25	6.99	6.74	6.48	6.30	7.28	8.24	7.55	6.73		
H1 lead leg	L	strides	22	15	15		15	16	16	16	17	20.5	152.5					

2023 Galà Dei Castelli (Bellinzona, ITA) (TV Analysis)

FINAL

date 04-Sep-23

Henson (2023) - Athlete First: 2023 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bol, Femke (NED) (2000)	time	6.36	10.52	14.68	18.92	23.28	27.80	32.48	37.32	42.28	47.28		52.79	4 / 1				
reaction time		interval	4.16	4.16	4.24	4.36	4.52	4.68	4.84	4.96	5.00	5.51			12.56	13.56	14.80	
	velocity	7.08	8.41	8.41	8.25	8.03	7.74	7.48	7.23	7.06	7.00	7.26	7.58	8.36	7.74	7.09		
H1 lead leg	L	strides	22	14	14	14	14	14	14	15	15	18.2	169.2					

Little, Shamier (USA) (1995)	time	6.44	10.64	14.92	23.48	27.96	32.56	37.28	42.32	47.52	53.64	5 / 2
reaction time	interval		4.20	4.28	8.56	4.48	4.60	4.72	5.04	5.20	6.12	14.96
	velocity	6.99	8.33	8.18	8.18	7.81	7.61	7.42	6.94	6.73	6.54	7.46
H1 lead leg	R strides	23	15	15		15	15	15	16	16	20	150

2023 Xiamen Diamond League (Xiamen, CHN)

FINAL

date 02-Sep-23

Omega Timing (2023) - diamond league race analysis

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Clayton, Rushell (JAM) (199)	time	6.30	10.30	14.40	18.60	22.90	27.50	32.20	37.10	42.20	47.40	53.56	5 / 1					
reaction time	0.138 interval		4.00	4.10	4.20	4.30	4.60	4.70	4.90	5.10	5.20	6.16	12.30	13.60	15.20			
	velocity	7.14	8.75	8.54	8.33	8.14	7.61	7.45	7.14	6.86	6.73	6.49	7.47	8.54	7.72	6.91		
H1 lead leg	R strides	23	14	15	15	15	15	15	16	16	16	19.2	179.2					
Knight, Andrenette (JAM) (1	time	6.18	10.13	14.20	18.43	22.83	27.44	32.21	37.24	42.44	47.64	53.87	7 / 2					
reaction time	0.162 interval		3.95	4.07	4.23	4.40	4.61	4.77	5.03	5.20	5.20	6.23	12.25	13.78	15.43			
	velocity	7.28	8.86	8.60	8.27	7.95	7.59	7.34	6.96	6.73	6.73	6.42	7.43	8.57	7.62	6.80		
H1 lead leg	R strides	23	15	15	15	15	16	16	17	17	17	20	186					
Russell, Janieve (JAM) (1993)	time	6.31	10.37	14.49	18.71	23.06	27.63	32.41	37.36	42.41	47.61	54.01	6 / 3					
reaction time	0.173 interval		4.06	4.12	4.22	4.35	4.57	4.78	4.95	5.05	5.20	6.40	12.40	13.70	15.20			
	velocity	7.13	8.62	8.50	8.29	8.05	7.66	7.32	7.07	6.93	6.73	6.25	7.41	8.47	7.66	6.91		
H1 lead leg	R strides	23	15	15	15	15	16	16	16	16	17	20	184					
Folorunso, Ayomide (ITA) (1	time	6.31	10.45	14.72	19.11	23.61	28.31	33.10	38.05	43.08	48.16	54.08	3 / 4					
reaction time	0.185 interval		4.14	4.27	4.39	4.50	4.70	4.79	4.95	5.03	5.08	5.92	12.80	13.99	15.06			
	velocity	7.13	8.45	8.20	7.97	7.78	7.45	7.31	7.07	6.96	6.89	6.76	7.40	8.20	7.51	6.97		
H1 lead leg	L strides	23	15	15	15	16	16	16	16	16	17	20	185					
Ryzhykova, Anna (UKR) (19	time	6.51	10.65	14.89	19.28	23.79	28.59	33.44	38.37	43.43	48.51	54.35	1 / 5					
reaction time	0.157 interval		4.14	4.24	4.39	4.51	4.80	4.85	4.93	5.06	5.08	5.84	12.77	14.16	15.07			
	velocity	6.91	8.45	8.25	7.97	7.76	7.29	7.22	7.10	6.92	6.89	6.85	7.36	8.22	7.42	6.97		
H1 lead leg	R strides	22	14	14	14	14	15	15	15	15	15	19	172					
Cockrell, Anna (USA) (1997)	time	6.06	9.92	14.02	18.31	22.80	27.58	32.39	37.49	42.71	48.04	54.56	4 / 6					
reaction time	0.182 interval		3.86	4.10	4.29	4.49	4.78	4.81	5.10	5.22	5.33	6.52	12.25	14.08	15.65			
	velocity	7.43	9.07	8.54	8.16	7.80	7.32	7.28	6.86	6.70	6.57	6.13	7.33	8.57	7.46	6.71		
H1 lead leg	R strides	22	14	14	14	14	15	15	15	16	16	19.7	174.7					
Tkachuk, Viktoriya (UKR) (1	time	6.31	10.47	14.77	19.14	23.60	28.21	33.04	38.16	43.48	48.90	55.25	8 / 7					
reaction time	0.201 interval		4.16	4.30	4.37	4.46	4.61	4.83	5.12	5.32	5.42	6.35	12.83	13.90	15.86			
	velocity	7.13	8.41	8.14	8.01	7.85	7.59	7.25	6.84	6.58	6.46	6.30	7.24	8.18	7.55	6.62		
H1 lead leg	L strides	22	15	15	15	15	15	16	16	17	17	146						
Lehikoinen, Viivi (FIN) (1999)	time	6.31	10.42	14.67	19.13	23.74	28.55	33.39	38.48	43.71	49.08	55.44	2 / 8					
reaction time	0.215 interval		4.11	4.25	4.46	4.61	4.81	4.84	5.09	5.23	5.37	6.36	12.82	14.26	15.69			
	velocity	7.13	8.52	8.24	7.85	7.59	7.28	7.23	6.88	6.69	6.52	6.29	7.22	8.19	7.36	6.69		
H1 lead leg	R strides	23	15	15	16	16	16	16	16	17	17	167						
Woodruff, Gianna (PAN) (19	time	6.40	10.40	14.62	18.99	23.53	28.20	33.04	38.11	43.49	48.85	55.45	9 / 9					
reaction time	0.219 interval		4.00	4.22	4.37	4.54	4.67	4.84	5.07	5.38	5.36	6.60	12.59	14.05	15.81			
	velocity	7.03	8.75	8.29	8.01	7.71	7.49	7.23	6.90	6.51	6.53	6.06	7.21	8.34	7.47	6.64		
H1 lead leg	L strides	23	15	15	15	15	15	15	16	16	16	145						

2023 World Athletics Championships (Budapest, HUN) (TV Analysis)

FINAL

date 24-Aug-23

Henson (2023) - Athlete First: 2023 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Boi, Femke (NED) (2000)	time	6.37	10.44	14.41	18.41	22.66	27.03	31.53	36.24	41.07	46.01	51.70	6 / 1					
reaction time	0.202 interval		4.07	3.97	4.00	4.25	4.37	4.50	4.71	4.83	4.94	5.69	12.04	13.12	14.48			
	velocity	7.06	8.60	8.82	8.75	8.24	8.01	7.78	7.43	7.25	7.09	7.03	7.74	8.72	8.00	7.25		
H1 lead leg	L strides	22	14	14	14	14	14	14	15	15	15	18.5	169.5					
Little, Shamier (USA) (1995)	time	6.24	10.41	14.58	18.68	23.02	27.46	31.96	36.64	41.54	46.81	52.80	5 / 2					
reaction time	0.181 interval		4.17	4.17	4.10	4.34	4.44	4.50	4.68	4.90	5.27	5.99	12.44	13.28	14.85			
	velocity	7.21	8.39	8.39	8.54	8.06	7.88	7.78	7.48	7.14	6.64	6.68	7.58	8.44	7.91	7.07		
H1 lead leg	R strides	23	15	15	15	15	15	15	15	15	16	20	164					
Clayton, Rushell (JAM) (199)	time	6.31	10.39	14.42	18.36	22.59	27.06	31.63	36.43	41.47	46.68	52.81	8 / 3					
reaction time	0.147 interval		4.08	4.03	3.94	4.23	4.47	4.57	4.80	5.04	5.21	6.13	PB	12.05	13.27	15.05		
	velocity	7.13	8.58	8.68	8.88	8.27	7.83	7.66	7.29	6.94	6.72	6.53	7.57	8.71	7.91	6.98		
H1 lead leg	L strides	22	14	14	14	14	15	15	15	16	16	20	175					
Adekoya, Kemi (BRN) (1993)	time	6.34	10.41	14.48	18.55	22.82	27.23	31.73	36.64	41.74	47.18	53.09	7 / 4					
reaction time	0.207 interval		4.07	4.07	4.07	4.27	4.41	4.50	4.91	5.10	5.44	5.91	AR	12.21	13.18	15.45		
	velocity	7.10	8.60	8.60	8.60	8.20	7.94	7.78	7.13	6.86	6.43	6.77	7.53	8.60	7.97	6.80		
H1 lead leg	R strides	23	15	15	15	15	15	15	16	16	17	20	182					
Cockrell, Anna (USA) (1997)	time	6.17	10.12	14.11	18.05	22.39	26.92	31.49	36.43	41.47	46.88	53.34	9 / 5					

reaction time	0.189	interval		3.95	3.99	3.94	4.34		4.53	4.57		9.98	5.41	6.46		PB	11.88	13.44	15.39	
		velocity		7.29	8.86	8.77	8.88	8.06		7.73	7.66		7.01	6.47	6.19	7.50		8.84	7.81	6.82
H1 lead leg	R	strides		22	14	14	14	14		15	15		16	20	144					
Folorunso, Ayomide (ITA) (1 time				6.41	10.74	15.01	19.27	23.72		33.13	38.06	43.14	48.34		54.19		2 / 6			
reaction time	0.192	interval			4.33	4.27	4.26	4.45		9.41	4.93	5.08	5.20	5.85			12.86	13.86	15.21	
		velocity		7.02	8.08	8.20	8.22	7.87		7.44	7.10	6.89	6.73	6.84	7.38		8.16	7.58	6.90	
H1 lead leg	L	strides		23	15	15	15	16	16		16	17	20	153						
Russell, Janieve (JAM) (1993 time				6.34	10.44	14.54	18.55	22.79		27.29	32.00	42.21	47.78		54.28		3 / 7			
reaction time	0.152	interval			4.10	4.10	4.01	4.24		4.50	4.71	10.21	5.57	6.50			12.21	13.45	15.78	
		velocity		7.10	8.54	8.54	8.73	8.25		7.78	7.43	6.86	6.28	6.15	7.37		8.60	7.81	6.65	
H1 lead leg	R	strides		23	15	15	15	15	16		16	17	20.5	136.5						
Knight, Andrenette (JAM) (1 time				6.24	10.37	14.44	18.52	22.92		27.49	32.29	37.30	42.67	48.31		55.20		4 / 8		
reaction time	0.158	interval			4.13	4.07	4.08	4.40		4.57	4.80	5.01	5.37	5.64	6.89		12.28	13.77	16.02	
		velocity		7.21	8.47	8.60	8.58	7.95		7.66	7.29	6.99	6.52	6.21	5.81	7.25		8.55	7.63	6.55
H1 lead leg	R	strides		23	15	15	15	15	16		16	17	17	20.7	153.7					

Semi-Final 3

date 22-Aug-23

Henson (2023) - Athlete First: 2023 year end hurdle report

				H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Little, Shamier (USA) (1995) time				6.17	10.14	14.28	18.52	22.92		27.42	32.03	36.80	41.86	46.95		52.81	8 / 1			
reaction time	0.212	interval			3.97	4.14	4.24	4.40		4.50	4.61	4.77	5.06	5.09	5.86			12.35	13.51	14.92
		velocity		7.29	8.82	8.45	8.25	7.95		7.78	7.59	7.34	6.92	6.88	6.83	7.57		8.50	7.77	7.04
H1 lead leg	R	strides		23	15	15	15	15	15	15	15	15	16	16	19.2	179.2				
Adekoya, Kemi (BRN) (1993) time				6.34	10.37	14.48	18.68	22.99		32.10	36.91	41.98	47.35		53.39		6 / 2			
reaction time	0.195	interval			4.03	4.11	4.20	4.31		9.11	4.81	5.07	5.37	6.04	AR			12.34	13.42	15.25
		velocity		7.10	8.68	8.52	8.33	8.12		7.68	7.28	6.90	6.52	6.62	7.49		8.51	7.82	6.89	
H1 lead leg	R	strides		23	15	15	15	15		15	16	17	19.7	150.7						
Russell, Janieve (JAM) (1993) time				6.37	10.48	14.58	18.86	23.22		32.43	37.27	42.32	47.59		53.69		7 / 3			
reaction time	0.180	interval			4.11	4.10	4.28	4.36		9.21	4.84	5.05	5.27	6.10				12.49	13.57	15.16
		velocity		7.06	8.52	8.54	8.18	8.03		7.60	7.23	6.93	6.64	6.56	7.45		8.41	7.74	6.93	
H1 lead leg	R	strides		23	15	15	15	15		16	17	17	20	153						
Folorunso, Ayomide (ITA) (1 time				6.27	10.38	14.61	18.92	23.32		32.60	37.47	42.50	47.76		53.89		5 / 4			
reaction time	0.190	interval			4.11	4.23	4.31	4.40		9.28	4.87	5.03	5.26	6.13	NR			12.65	13.68	15.16
		velocity		7.18	8.52	8.27	8.12	7.95		7.54	7.19	6.96	6.65	6.53	7.42		8.30	7.68	6.93	
H1 lead leg	L	strides		23	15	15	15	16		16	16	17	20.5	153.5						
Peeters, Cathelijn (NED) (1993) time				6.50	10.64	14.91	19.22	23.72		33.36	38.40	43.51	48.71		54.63		4 / 5			
reaction time	0.248	interval			4.14	4.27	4.31	4.50		9.64	5.04	5.11	5.20	5.92				12.72	14.14	15.35
		velocity		6.92	8.45	8.20	8.12	7.78		7.26	6.94	6.85	6.73	6.76	7.32		8.25	7.43	6.84	
H1 lead leg	R	strides		22	15	15	15	15		16	16	16	16	19.2	165.2					
Sutherland, Savannah (CAN) time				6.57	10.77	15.08	19.42	23.86		38.20	43.41	48.88		54.99		2 / 6				
reaction time	0.214	interval			4.20	4.31	4.34	4.44		14.34	5.21	5.47	6.11				12.85			
		velocity		6.85	8.33	8.12	8.06	7.88		7.32	6.72	6.40	6.55	7.27		8.17				
H1 lead leg	R	strides		23	15	15	15	15		16	17	20	136							
Claes, Hanne (BEL) (1991) time				6.34	10.34	14.48	18.72	23.15		27.91	32.84	43.51	49.25		56.06		9 / 7			
reaction time	0.208	interval			4.00	4.14	4.24	4.43		4.76	4.93	10.67	5.74	6.81				12.38	14.12	16.41
		velocity		7.10	8.75	8.45	8.25	7.90		7.35	7.10	6.56	6.10	5.87	7.14		8.48	7.44	6.40	
H1 lead leg	R	strides		23	15	15	15	15	16	16	16	18	21	170						
Demes, Eileen (GER) (1997) time				6.44	10.51	14.71	19.04	23.52		32.96	38.14	43.84	49.88		56.71		3 / 8			
reaction time	0.166	interval			4.07	4.20	4.33	4.48		9.44	5.18	5.70	6.04	6.83				12.60	13.92	16.92
		velocity		6.99	8.60	8.33	8.08	7.81		7.42	6.76	6.14	5.79	5.86	7.05		8.33	7.54	6.21	
H1 lead leg	R	strides		22	14	14	14	14		16	17	17	20	148						

Semi-Final 2

date 22-Aug-23

Henson (2023) - Athlete First: 2023 year end hurdle report

				H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bol, Femke (NED) (2000) time				6.31	10.44	14.45	18.45	22.75		27.20	31.79	36.57	41.60	46.71		52.95	8 / 1			
reaction time	0.199	interval			4.13	4.01	4.00	4.30		4.45	4.59	4.78	5.03	5.11	6.24			12.14	13.34	14.92
		velocity		7.13	8.47	8.73	8.75	8.14		7.87	7.63	7.32	6.96	6.85	6.41	7.55		8.65	7.87	7.04
H1 lead leg	L	strides		22	14	14	14	14	14	14	14	15	15	15	18.5	169.5				
Knight, Andrenette (JAM) (1 time				6.27	10.41	14.51	18.61	22.99		27.49	32.23	37.20	42.30	47.58		53.72		7 / 2		
reaction time	0.163	interval			4.14	4.10	4.10	4.38		4.50	4.74	4.97	5.10	5.28	6.14			12.34	13.62	15.35
		velocity		7.18	8.45	8.54	8.54	7.99		7.78	7.38	7.04	6.86	6.63	6.51	7.45		8.51	7.71	6.84
H1 lead leg	R	strides		23	15	15	15	15	15	15	15	16	16	17	20	182				
Muhammad, Dalilah (USA) (1 time				6.24	10.38	14.48	18.55	22.89		27.42	32.16	37.20	42.49	47.94		54.19		6 / 3		
reaction time	0.169	interval			4.14	4.10	4.07	4.34		4.53	4.74	5.04	5.29	5.45	6.25			12.31	13.61	15.78
		velocity		7.21	8.45	8.54	8.60	8.06		7.73	7.38	6.94	6.62	6.42	6.40	7.38		8.53	7.71	6.65
H1 lead leg	R	strides		22	14	14	15	15	15	15	15	15	16	16	19.7	176.7				

Ryzhykova, Anna (UKR) (1991)	time	6.55	10.84	15.01	19.21	23.66		28.36	33.15	38.07	48.41		54.42	9 / 4			
	reaction time	0.186	interval	4.29	4.17	4.20	4.45	4.70	4.79	4.92	10.34	6.01			12.66	13.94	15.26
		velocity	6.87	8.16	8.39	8.33	7.87	7.45	7.31	7.11	6.77	6.66	7.35		8.29	7.53	6.88
	H1 lead leg	R	strides	22	14	14	14	15	15	15	15	19.2	157.2				
Krafzik, Carolina (GER) (1991)	time	6.33	10.44	14.48	18.58	22.95		27.66	32.56	37.67	42.93	48.35		54.58	5 / 5		
	reaction time	0.192	interval	4.11	4.04	4.10	4.37	4.71	4.90	5.11	5.26	5.42	6.23		12.25	13.98	15.79
		velocity	7.11	8.52	8.66	8.54	8.01	7.43	7.14	6.85	6.65	6.46	6.42	7.33	8.57	7.51	6.65
	H1 lead leg	L	strides	23	15	15	15	17	17	17	17	17	21.7	189.7			
Jichová, Nikoleta (CZE) (2001)	time	6.57	10.88	15.18	19.48	23.99		33.63	38.74	43.97	49.24		55.01	4 / 6			
	reaction time	0.229	interval	4.31	4.30	4.30	4.51		9.64	5.11	5.23	5.27	5.77		12.91	14.15	15.61
		velocity	6.85	8.12	8.14	8.14	7.76		7.26	6.85	6.69	6.64	6.93	7.27	8.13	7.42	6.73
	H1 lead leg	R	strides	22	15	15	15		16	16	16	20.7	150.7				
Kloster, Line (NOR) (1990)	time	6.30	10.57	14.78	19.08	23.52		38.23	43.51	49.08		55.43	2 / 7				
	reaction time	0.152	interval	4.27	4.21	4.30	4.44		14.71	5.28	5.57	6.35		12.78			
		velocity	7.14	8.20	8.31	8.14	7.88		7.14	6.63	6.28	6.30	7.22	8.22			
	H1 lead leg	R	strides	22	14	14	15	15	16	16	17	20	149				
van der Walt, Zenéy (RSA) (2001)	time	6.70	11.11	15.48	19.82	24.42		33.93	44.21	49.51		55.49	3 / 8				
	reaction time	0.212	interval	4.41	4.37	4.34	4.60		9.51	10.28	5.30	5.98		13.12	14.11	15.58	
		velocity	6.72	7.94	8.01	8.06	7.61		7.36	6.81	6.60	6.69	7.21	8.00	7.44	6.74	
	H1 lead leg	L	strides	23	15	15	15		16	16	19.5	134.5					

Semi-Final 1

date 22-Aug-23

Henson (2023) - Athlete First: 2023 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Clayton, Rushell (JAM) (1991)	time	6.34	10.44	14.51	18.48	22.72		27.23	31.90	36.73	41.86	47.19		53.30	5 / 1			
	reaction time	0.190	interval	4.10	4.07	3.97	4.24	4.51	4.67	4.83	5.13	5.33	6.11	PB		12.14	13.42	15.29
		velocity	7.10	8.54	8.60	8.82	8.25	7.76	7.49	7.25	6.82	6.57	6.55	7.50		8.65	7.82	6.87
	H1 lead leg	L	strides	22	14	14	14	15	15	15	16	16	19	174				
Cockrell, Anna (USA) (1997)	time	6.27	10.31	14.38	18.48	22.96		27.76	32.53	37.37	42.45	47.65		53.63	7 / 2			
	reaction time	0.199	interval	4.04	4.07	4.10	4.48	4.80	4.77	4.84	5.08	5.20	5.98	PB		12.21	14.05	15.12
		velocity	7.18	8.66	8.60	8.54	7.81	7.29	7.34	7.23	6.89	6.73	6.69	7.46		8.60	7.47	6.94
	H1 lead leg	R	strides	22	14	14	14	15	15	15	15	16	19	173				
Lehikoinen, Viivi (FIN) (1999)	time	6.42	10.61	14.81	18.88	23.29		27.89	32.66	37.63	42.72	48.04		54.48	4 / 3			
	reaction time	0.200	interval	4.19	4.20	4.07	4.41	4.60	4.77	4.97	5.09	5.32	6.44		12.46	13.78	15.38	
		velocity	7.01	8.35	8.33	8.60	7.94	7.61	7.34	7.04	6.88	6.58	6.21	7.34		8.43	7.62	6.83
	H1 lead leg	R	strides	23	15	15	16	16	16	16	17	17	21	187				
Knight, Jessie (GBR) (1994)	time	6.61	11.01	15.28	19.54	23.99		28.72	33.56	38.50	43.64	48.88		54.51	8 / 4			
	reaction time	0.187	interval	4.40	4.27	4.26	4.45	4.73	4.84	4.94	5.14	5.24	5.63		12.93	14.02	15.32	
		velocity	6.81	7.95	8.20	8.22	7.87	7.40	7.23	7.09	6.81	6.68	7.10	7.34		8.12	7.49	6.85
	H1 lead leg	R	strides	22	14	14	14	15	15	15	16	16	139					
Woodruff, Gianna (PAN) (1991)	time	6.44	10.57	14.68	18.86	23.29		27.92	32.70	37.73	42.86	48.41		54.71	9 / 5			
	reaction time	0.208	interval	4.13	4.11	4.18	4.43	4.63	4.78	5.03	5.27	5.44	6.05		12.42	13.84	15.71	
		velocity	6.99	8.47	8.52	8.37	7.90	7.56	7.32	6.96	6.65	6.35	7.31		8.45	7.59	6.68	
	H1 lead leg	L	strides	22	15	15	15	15	15	16	16	18	128					
Ennadi, Noura (MAR) (1999)	time	6.61	11.07	15.41	19.68	24.25		34.06	39.07	44.21	49.34		55.15	2 / 6				
	reaction time	0.184	interval	4.46	4.34	4.27	4.57	9.81	5.01	5.14	5.13	5.81		13.07	14.38	15.28		
		velocity	6.81	7.85	8.06	8.20	7.66	7.14	6.99	6.81	6.82	6.88	7.25		8.03	7.30	6.87	
	H1 lead leg	L	strides	24	15	15	15	17	17	17	17	105						
Tkachuk, Viktoriya (UKR) (1991)	time	6.40	10.71	15.01	19.25	23.79		28.59	33.63	38.67	43.94	49.38		55.43	6 / 7			
	reaction time	0.209	interval	4.31	4.30	4.24	4.54	4.80	5.04	5.04	5.27	5.44	6.05		12.85	14.38	15.75	
		velocity	7.03	8.12	8.14	8.25	7.71	7.29	6.94	6.94	6.64	6.43	6.61	7.22		8.17	7.30	6.67
	H1 lead leg	L	strides	22	15	15	15	16	16	16	16	17	163					
Sartori, Rebecca (ITA) (1997)	time	6.40	10.71	15.01	19.22	23.72		33.56	38.84	44.41		55.98	3 / 8					
	reaction time	0.213	interval	4.31	4.30	4.21	4.50	9.84	5.28	5.57		11.57		12.82	14.34			
		velocity	7.03	8.12	8.14	8.31	7.78	7.11	6.63	6.28		6.48	7.15		8.19	7.32		
	H1 lead leg	L	strides	22	15	15	15	17	17	17		133						

Heat 5

date 21-Aug-23

Henson (2023) - Athlete First: 2023 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Knight, Jessie (GBR) (1994)	time	6.53	10.97	15.30	19.53	24.03		28.76	33.56	38.53	43.63	48.71		54.27	8 / 1			
	reaction time	0.161	interval	4.44	4.33	4.23	4.50	4.73	4.80	4.97	5.10	5.08	5.56		13.00	14.03	15.15	
		velocity	6.89	7.88	8.08	8.27	7.78	7.40	7.29	7.04	6.86	6.89	7.19	7.37		8.08	7.48	6.93
	H1 lead leg	R	strides	22	14	14	14	15	15	15	15	15	18.5	171.5				
Little, Shamier (USA) (1995)	time	6.17	10.33	14.50	18.70	23.13		27.73	32.46	37.37	42.63	48.13		54.40	4 / 2			
	reaction time	0.215	interval	4.16	4.17	4.20	4.43	4.60	4.73	4.91	5.26	5.50	6.27		12.53	13.76	15.67	
		velocity	7.29	8.41	8.39	8.33	7.90	7.61	7.40	7.13	6.65	6.36	6.38	7.35		8.38	7.63	6.70
	H1 lead leg	R	strides	23	15	15	15	15	15	15	16	17	19.2	180.2				

Ryzhykova, Anna (UKR) (1991)	time	6.53	10.83	14.96	19.23	23.73	28.54	33.43	38.46	43.53	48.73	54.70	7 / 3				
	reaction time	0.186	interval	4.30	4.13	4.27	4.50	4.81	4.89	5.03	5.07	5.20	5.97		12.70	14.20	15.30
	velocity	6.89	8.14	8.47	8.20	7.78	7.28	7.16	6.96	6.90	6.73	6.70	7.31		8.27	7.39	6.86
	H1 lead leg	R	strides	22	14	14	14	15	15	15	15	19	172				
Jichová, Nikoleta (CZE) (2001)	time	6.43	10.83	15.13	19.50	24.16	33.93	39.03	44.16	49.36	55.10	3 / 4					
	reaction time	0.206	interval	4.40	4.30	4.37	4.66	9.77	5.10	5.13	5.20	5.74		13.07	14.43	15.43	
	velocity	7.00	7.95	8.14	8.01	7.51	7.16	6.86	6.82	6.73	6.97	7.26		8.03	7.28	6.80	
	H1 lead leg	R	strides	22	15	15	15	15	16	17	17	21	153				
Ennadi, Noura (MAR) (1999)	time	6.67	11.16	15.50	19.77	24.36	34.03	39.03	44.10	49.26	55.21	2 / 5					
	reaction time	0.178	interval	4.49	4.34	4.27	4.59	9.67	5.00	5.07	5.16	5.95		13.10	14.26	15.23	
	velocity	6.75	7.80	8.06	8.20	7.63	7.24	7.00	6.90	6.78	6.72	7.25		8.02	7.36	6.89	
	H1 lead leg	L	strides	24	15	15	15	17	17	17	20	140					

Heat 4

date 21-Aug-23

Henson (2023) - Athlete First: 2023 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Boi, Femke (NED) (2000)	time	6.27	10.43	14.50	18.43	22.70	27.23	31.90	36.76	41.80	47.00	53.39	4 / 1					
	reaction time	0.206	interval	4.16	4.07	3.93	4.27	4.53	4.67	4.86	5.04	5.20	6.39		12.16	13.47	15.10	
	velocity	7.18	8.41	8.60	8.91	8.20	7.73	7.49	7.20	6.94	6.73	6.26	7.49		8.63	7.80	6.95	
	H1 lead leg	L	strides	22	14	14	14	15	15	15	15	15	18.5	171.5				
Tkachuk, Viktoriya (UKR) (1988)	time	6.37	10.66	15.00	19.23	23.76	28.40	33.26	38.36	43.56	49.03	55.05	6 / 2					
	reaction time	0.201	interval	4.29	4.34	4.23	4.53	28.40	4.86	5.10	5.20	5.47	6.02		12.86	14.03	15.77	
	velocity	7.06	8.16	8.06	8.27	7.73	7.16	7.20	6.86	6.73	6.40	6.64	7.27		8.16	7.48	6.66	
	H1 lead leg	L	strides	22	15	15	15	15	16	16	16	17	20	182				
Claes, Hanne (BEL) (1991)	time	6.43	10.76	15.16	19.43	23.96	38.64	43.86	49.16	55.13	1 / 3							
	reaction time	0.193	interval	4.33	4.40	4.27	4.53	14.68	5.22	5.30	5.97		13.00					
	velocity	7.00	8.08	7.95	8.20	7.73	7.15	6.70	6.60	6.70	7.26		8.08					
	H1 lead leg	R	strides	23	15	15	15	15	17	17	20.5	137.5						
Kloster, Line (NOR) (1990)	time	6.26	10.53	14.70	18.93	23.46	28.16	32.96	38.03	43.46	48.96	55.23	9 / 4					
	reaction time	0.170	interval	4.27	4.17	4.23	4.53	4.70	4.80	5.07	5.43	5.50	6.27		12.67	14.03	16.00	
	velocity	7.19	8.20	8.39	8.27	7.73	7.45	7.29	6.90	6.45	6.36	6.38	7.24		8.29	7.48	6.56	
	H1 lead leg	R	strides	22	14	14	15	15	15	15	16	16	19.5	176.5				
Demes, Eileen (GER) (1997)	time	6.50	10.73	14.90	19.06	23.56	28.20	33.00	38.06	43.30	48.94	55.29	5 / 5					
	reaction time	0.169	interval	4.23	4.17	4.16	4.50	4.64	4.80	5.06	5.24	5.64	6.35	PB	12.56	13.94	15.94	
	velocity	6.92	8.27	8.39	8.41	7.78	7.54	7.29	6.92	6.68	6.21	6.30	7.23		8.36	7.53	6.59	
	H1 lead leg	R	strides	22	14	14	14	15	15	16	16	17	20	178				

Heat 3

date 21-Aug-23

Henson (2023) - Athlete First: 2023 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Adekoya, Kemi (BRN) (1993)	time	6.40	10.30	14.36	18.37	22.73	27.30	31.90	36.73	42.00	47.38	53.56	8 / 1					
	reaction time	0.191	interval	3.90	4.06	4.01	4.36	4.57	4.60	4.83	5.27	5.38	6.18	AR	11.97	13.53	15.48	
	velocity	7.03	8.97	8.62	8.73	8.03	7.66	7.61	7.25	6.64	6.51	6.47	7.47		8.77	7.76	6.78	
	H1 lead leg	R	strides	23	15	15	15	15	15	16	17	17	19.5	182.5				
Knight, Andrenette (JAM) (1987)	time	6.20	10.00	14.03	18.13	22.50	27.16	31.98	36.96	42.23	47.60	54.21	5 / 2					
	reaction time	0.165	interval	3.80	4.03	4.10	4.37	4.66	4.82	4.98	5.27	5.37	6.61		11.93	13.85	15.62	
	velocity	7.26	9.21	8.68	8.54	8.01	7.51	7.26	7.03	6.64	6.52	6.05	7.38		8.80	7.58	6.72	
	H1 lead leg	R	strides	23	15	15	15	16	16	16	17	16	20	184				
Folorunso, Ayomide (ITA) (1993)	time	6.43	10.40	14.70	18.90	23.36	28.03	32.80	37.63	42.73	47.97	54.30	9 / 3					
	reaction time	0.189	interval	3.97	4.30	4.20	4.46	4.67	4.77	4.83	5.10	5.24	6.33		12.47	13.90	15.17	
	velocity	7.00	8.82	8.14	8.33	7.85	7.49	7.34	7.25	6.86	6.68	6.32	7.37		8.42	7.55	6.92	
	H1 lead leg	L	strides	23	15	15	16	16	16	16	16	17	20.2	185.2				
Peeters, Cathelijin (NED) (1991)	time	6.60	10.53	14.66	18.80	23.23	27.83	38.00	43.40	48.83	54.95	2 / 4						
	reaction time	0.247	interval	3.93	4.13	4.14	4.43	4.60	10.17	5.40	5.43	6.12		12.20				
	velocity	6.82	8.91	8.47	8.45	7.90	7.61	6.88	6.48	6.45	6.54	7.28		8.61				
	H1 lead leg	R	strides	22	15	15	15	155	16	17	17	19.7	291.7					
van der Walt, Zenéy (RSA) (1988)	time	6.58	10.70	15.03	19.37	23.96	28.63	33.40	38.36	43.67	48.96	55.21	7 / 5					
	reaction time	0.203	interval	4.12	4.33	4.34	4.59	4.67	4.77	4.96	5.31	5.29	6.25		12.79	14.03	15.56	
	velocity	6.84	8.50	8.08	8.06	7.63	7.49	7.34	7.06	6.59	6.62	6.40	7.25		8.21	7.48	6.75	
	H1 lead leg	L	strides	23	15	15	15	15	15	16	16	16	19.2	180.2				

Heat 2

date 21-Aug-23

Henson (2023) - Athlete First: 2023 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Russell, Janieve (JAM) (1993)	time	6.47	10.73	14.93	19.03	23.43	28.13	32.93	37.83	42.86	48.20	54.53	4 / 1					
	reaction time	0.164	interval	4.26	4.20	4.10	4.40	4.70	4.80	4.90	5.03	5.34	6.33		12.56	13.90	15.27	
	velocity	6.96	8.22	8.33	8.54	7.95	7.45	7.29	7.14	6.96	6.55	6.32	7.34		8.36	7.55	6.88	
	H1 lead leg	R	strides	23	15	15	15	16	16	16	16	17	20	184				
Cockrell, Anna (USA) (1997)	time	6.33	10.36	14.43	18.75	23.33	28.00	32.83	37.83	43.06	48.46	54.68	9 / 2					

reaction time	0.211	interval		4.03	4.07	4.32	4.58		4.67	4.83	5.00	5.23	5.40	6.22		12.42	14.08	15.63
		velocity	7.11	8.68	8.60	8.10	7.64		7.49	7.25	7.00	6.69	6.48	6.43	7.32	8.45	7.46	6.72
H1 lead leg	R	strides	22	14	14	15	15		15	15	15	16	16	19.2	176.2			
Woodruff, Gianna (PAN) (19		time	6.46	10.80	15.00	19.23	23.80		28.50	33.40	38.37	43.60	49.03		55.31	2 / 3		
reaction time	0.171	interval		4.34	4.20	4.23	4.57		4.70	4.90	4.97	5.23	5.43	6.28		12.77	14.17	15.63
		velocity	6.97	8.06	8.33	8.27	7.66		7.45	7.14	7.04	6.69	6.45	6.37	7.23	8.22	7.41	6.72
H1 lead leg	L	strides	22	15	15	15	15		15	16	16	17	17	19.7	182.7			
Sutherland, Savannah (CAN		time	6.80	11.26	15.63	19.93	24.43		29.23	34.20	39.23	44.57	50.00		55.85	5 / 4		
reaction time	0.227	interval		4.46	4.37	4.30	4.50		4.80	4.97	5.03	5.34	5.43	5.85		13.13	14.27	15.80
		velocity	6.62	7.85	8.01	8.14	7.78		7.29	7.04	6.96	6.55	6.45	6.84	7.16	8.00	7.36	6.65
H1 lead leg	R	strides	23	15	15	15	15		16	16	16	17	17	20	185			

Heat 1

date 21-Aug-23

Henson (2023) - Athlete First: 2023 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Clayton, Rushell (JAM) (199		time	6.20	10.20	14.40	18.50	22.63		27.16	31.86	36.87	42.10	47.63		53.97	3 / 1			
reaction time	0.156	interval		4.00	4.20	4.10	4.13		4.53	4.70	5.01	5.23	5.53	6.34			12.30	13.36	15.77
		velocity	7.26	8.75	8.33	8.54	8.47		7.73	7.45	6.99	6.69	6.33	6.31	7.41		8.54	7.86	6.66
H1 lead leg	L	strides	22	14	14	14	14		15	15	16	16	17	19.7	176.7				
Muhammad, Dalilah (USA) (time	6.03	10.03	14.37	18.67	23.03		27.60	32.36	37.27	42.46	47.80		54.21	5 / 2			
reaction time	0.156	interval		4.00	4.34	4.30	4.36		4.57	4.76	4.91	5.19	5.34	6.41			12.64	13.69	15.44
		velocity	7.46	8.75	8.06	8.14	8.03		7.66	7.35	7.13	6.74	6.55	6.24	7.38		8.31	7.67	6.80
H1 lead leg	R	strides	22	15	15	15	15		15	15	15	16	16	19	178				
Krafzik, Carolina (GER) (199		time	6.10	10.00	14.17	18.30	22.57		27.36	32.36	37.36	42.60	48.00		54.53	8 / 3			
reaction time	0.190	interval		3.90	4.17	4.13	4.27		4.79	5.00	5.00	5.24	5.40	6.53			12.20	14.06	15.64
		velocity	7.38	8.97	8.39	8.47	8.20		7.31	7.00	7.00	6.68	6.48	6.13	7.34		8.61	7.47	6.71
H1 lead leg	L	strides	23	15	15	15	15		17	17	17	17	17	21.7	172.7				
Lehikoinen, Viivi (FIN) (1999)		time	6.23	10.30	14.70		23.46		28.20	33.03	38.00	43.20	48.50		54.65	2 / 4			
reaction time	0.181	interval		4.07	4.40		8.76		4.74	4.83	4.97	5.20	5.30	6.15					15.47
		velocity	7.22	8.60	7.95		7.99		7.38	7.25	7.04	6.73	6.60	6.50	7.32				6.79
H1 lead leg	R	strides	23	15	15		15		16	16	16	17	17	20	154				
Sartori, Rebecca (ITA) (1997)		time	6.26	10.36	14.80	19.15	23.50		28.26	33.20	38.23	43.40	48.77		54.82	4 / 5			
reaction time	0.203	interval		4.10	4.44	4.35	4.35		4.76	4.94	5.03	5.17	5.37	6.05	PB		12.89	14.05	15.57
		velocity	7.19	8.54	7.88	8.05	8.05		7.35	7.09	6.96	6.77	6.52	6.61	7.30		8.15	7.47	6.74
H1 lead leg	L	strides	22	15	15	15	15		16	16	16	16	17	19.7	182.7				

2023 Japanese National High School Championships (Sapporo, JPN)

FINAL

date 04-Aug-23

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

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Takino, Mirai (JPN)		time	6.77	11.13	15.67	20.42	25.21		30.28	35.55	40.81	46.15	51.62		57.45	4 / 1			
reaction time	0.236	interval		4.36	4.54	4.75	4.79		5.07	5.27	5.26	5.34	5.47	5.83			13.65	15.13	16.07
		velocity	6.65	8.03	7.71	7.37	7.31		6.90	6.64	6.65	6.55	6.40	6.86	6.96		7.69	6.94	6.53
H1 lead leg		strides	22	15	15	16	16		17	17	17	17	17	21	190				
Chiba, Shiori (JPN)		time	6.92	11.46	16.12	20.92	25.76		30.71	35.80	40.97	46.30	51.67		57.85	5 / 2			
reaction time	0.252	interval		4.54	4.66	4.80	4.84		4.95	5.09	5.17	5.33	5.37	6.18			14.00	14.88	15.87
		velocity	6.50	7.71	7.51	7.29	7.23		7.07	6.88	6.77	6.57	6.52	6.47	6.91		7.50	7.06	6.62
H1 lead leg		strides	23	16	16	16	16		16	16	17	17	17	22	192				
Simizu, Serina (JPN)		time	6.86	11.34	16.03	20.82	25.69		30.73	35.99	41.32	46.96	53.04		59.74	6 / 3			
reaction time	0.334	interval		4.48	4.69	4.79	4.87		5.04	5.26	5.33	5.64	6.08	6.70			13.96	15.17	17.05
		velocity	6.56	7.81	7.46	7.31	7.19		6.94	6.65	6.57	6.21	5.76	5.97	6.70		7.52	6.92	6.16
H1 lead leg		strides	23	17	17	17	17		17	17	17	17	19	22	200				
Tsukuda, Huayue (JPN)		time	7.29	12.06	16.98	21.96	27.01		32.25	37.54	42.88	48.42	53.92		60.05	7 / 4			
reaction time	0.262	interval		4.77	4.92	4.98	5.05		5.24	5.29	5.34	5.54	5.50	6.13			14.67	15.58	16.38
		velocity	6.17	7.34	7.11	7.03	6.93		6.68	6.62	6.55	6.32	6.36	6.53	6.66		7.16	6.74	6.41
H1 lead leg		strides	23	17	17	17	17		17	17	17	17	17	22	198				
Harada, Emily (JPN)		time	6.96	11.56	16.27	21.04	25.93		31.08	36.52	42.11	47.93	53.84		60.56	8 / 5			
reaction time	0.241	interval		4.60	4.71	4.77	4.89		5.15	5.44	5.59	5.82	5.91	6.72			14.08	15.48	17.32
		velocity	6.47	7.61	7.43	7.34	7.16		6.80	6.43	6.26	6.01	5.92	5.95	6.61		7.46	6.78	6.06
H1 lead leg		strides	23	17	17	17	17		17	18	18	19	19	24	206				
Fuho, Saeki (JPN)		time	6.86	11.31	16.00	20.94	25.96		31.13	36.47	42.18	47.98	53.99		60.75	9 / 6			
reaction time	0.260	interval		4.45	4.69	4.94	5.02		5.17	5.34	5.71	5.80	6.01	6.76			14.08	15.53	17.52
		velocity	6.56	7.87	7.46	7.09	6.97		6.77	6.55	6.13	6.03	5.82	5.92	6.58		7.46	6.76	5.99
H1 lead leg		strides		15	15	17	17		17	17	19	19	19	23	178				
Ishihara, Ryoka (JPN)		time	6.87	11.39	16.08	20.90	25.91		31.13	36.79	42.53	48.47	54.52		60.99	3 / 7			
reaction time	0.255	interval		4.52	4.69	4.82	5.01		5.22	5.66	5.74	5.94	6.05	6.47			14.03	15.89	17.73
		velocity	6.55	7.74	7.46	7.26	6.99		6.70	6.18	6.10	5.89	5.79	6.18	6.56		7.48	6.61	5.92
H1 lead leg		strides	24	17	17	17	17		17	19	19	19	19	23	208				

Suezaki, Nanami (JPN)	time	6.81	11.29	15.95	20.72	25.66	30.80	36.34	42.18	48.18	54.42	61.38	2 / 8			
reaction time	0.209 interval		4.48	4.66	4.77	4.94	5.14	5.54	5.84	6.00	6.24	6.96		13.91	15.62	18.08
	velocity	6.61	7.81	7.51	7.34	7.09	6.81	6.32	5.99	5.83	5.61	5.75	6.52	7.55	6.72	5.81
H1 lead leg	strides	22	16	16	16	16	16	17	18	18	18	22	195			

2023 London Athletics Meet (London, GBR)

FINAL

date 23-Jul-23

Omega Timing (2023) - diamond league race analysis

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Boi, Femke (NED) (2000)	time	6.25	10.26	14.30	18.43	22.65	27.05	31.58	36.26	41.09	45.88	51.45	51.45	6 / 1				
reaction time	0.187 interval		4.01	4.04	4.13	4.22	4.40	4.53	4.68	4.83	4.79	5.57	AR PB		12.18	13.15	14.30	
	velocity	7.20	8.73	8.66	8.47	8.29	7.95	7.73	7.48	7.25	7.31	7.18	7.77		8.62	7.98	7.34	
H1 lead leg	L strides	22	14	14	14	14	14	14	15	15	15	19	170					
Russell, Janieve (JAM) (1993)	time	6.33	10.46	14.62	18.91	23.27	27.85	32.60	37.40	42.33	47.49	53.75	53.75	5 / 2				
reaction time	0.148 interval		4.13	4.16	4.29	4.36	4.58	4.75	4.80	4.93	5.16	6.26			12.58	13.69	14.89	
	velocity	7.11	8.47	8.41	8.16	8.03	7.64	7.37	7.29	7.10	6.78	6.39	7.44		8.35	7.67	7.05	
H1 lead leg	R strides	23	15	15	15	15	16	16	16	16	17	20	184					
Little, Shamier (USA) (1995)	time	6.20	10.29	14.44	18.70	23.07	27.69	32.46	37.30	42.52	47.80	53.76	53.76	4 / 3				
reaction time	0.174 interval		4.09	4.15	4.26	4.37	4.62	4.77	4.84	5.22	5.28	5.96			12.50	13.76	15.34	
	velocity	7.26	8.56	8.43	8.22	8.01	7.58	7.34	7.23	6.70	6.63	6.71	7.44		8.40	7.63	6.84	
H1 lead leg	R strides	23	15	15	15	15	15	15	15	16	16	20	180					
Clayton, Rushell (JAM) (199)	time	6.28	10.27	14.42	18.69	23.12	27.72	32.46	37.36	42.43	47.75	53.97	53.97	3 / 4				
reaction time	0.131 interval		3.99	4.15	4.27	4.43	4.60	4.74	4.90	5.07	5.32	6.22			12.41	13.77	15.29	
	velocity	7.17	8.77	8.43	8.20	7.90	7.61	7.38	7.14	6.90	6.58	6.43	7.41		8.46	7.63	6.87	
H1 lead leg	L strides	22	15	15	15	15	15	15	15	16	16	19	178					
Knight, Jessie (GBR) (1994)	time	6.40	10.62	14.86	19.17	23.61	28.30	33.08	38.08	43.13	48.24	54.09	54.09	7 / 5				
reaction time	0.182 interval		4.22	4.24	4.31	4.44	4.69	4.78	5.00	5.05	5.11	5.85	=PB		12.77	13.91	15.16	
	velocity	7.03	8.29	8.25	8.12	7.88	7.46	7.32	7.00	6.93	6.85	6.84	7.40		8.22	7.55	6.93	
H1 lead leg	R strides	22	14	14	14	14	15	15	15	15	15	19	157					
Tkachuk, Viktoriya (UKR) (19	time	6.33	10.50	14.77	19.07	23.46	28.02	32.80	37.72	42.80	48.02	54.25	54.25	2 / 6				
reaction time	0.152 interval		4.17	4.27	4.30	4.39	4.56	4.78	4.92	5.08	5.22	6.23			12.74	13.73	15.22	
	velocity	7.11	8.39	8.20	8.14	7.97	7.68	7.32	7.11	6.89	6.70	6.42	7.37		8.24	7.65	6.90	
H1 lead leg	L strides	22	15	15	15	15	15	15	16	16	16	20.2	150.2					
Ryzhykova, Anna (UKR) (19	time	6.37	10.42	14.61	18.84	23.18	27.83	32.67	37.61	42.76	48.12	54.53	54.53	1 / 7				
reaction time	0.166 interval		4.05	4.19	4.23	4.34	4.65	4.84	4.94	5.15	5.36	6.41			12.47	13.83	15.45	
	velocity	7.06	8.64	8.35	8.27	8.06	7.53	7.23	7.09	6.80	6.53	6.24	7.34		8.42	7.59	6.80	
H1 lead leg	R strides	22	14	14	14	14	15	15	15	16	16	20	144					
Woodruff, Gianna (PAN) (19	time	6.37	10.35	14.44	18.73	23.19	27.90	32.71	37.67	42.92	48.38	55.52	55.52	8 / 8				
reaction time	0.201 interval		3.98	4.09	4.29	4.46	4.71	4.81	4.96	5.25	5.46	7.14			12.36	13.98	15.67	
	velocity	7.06	8.79	8.56	8.16	7.85	7.43	7.28	7.06	6.67	6.41	5.60	7.20		8.50	7.51	6.70	
H1 lead leg	L strides	23	15	15	15	15	15	15	16	17	21	167						

2023 USATF National Championships (Eugene, OR) (TV Analysis)

FINAL

date 09-Jul-23

Henson (2023) - Athlete First: 2023 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Little, Shamier (USA) (1995)	time	6.27	10.24	14.38	18.68	23.09	27.59	32.36	37.24	42.24	47.48	53.34	53.34	5 / 1				
reaction time	interval		3.97	4.14	4.30	4.41	4.50	4.77	4.88	5.00	5.24	5.86			12.41	13.68	15.12	
	velocity	7.18	8.82	8.45	8.14	7.94	7.78	7.34	7.17	7.00	6.68	6.83	7.50		8.46	7.68	6.94	
H1 lead leg	R strides	23	15	15	15	15	15	16	16	16	16	20.2	182.2					
Muhammad, Dalilah (USA) (time	6.24	10.21	14.41	18.72	23.19	27.76	32.36	37.24	42.24	47.44	53.53	53.53	4 / 2				
reaction time	interval		3.97	4.20	4.31	4.47	4.57	4.60	4.88	5.00	5.20	6.09			12.48	13.64	15.08	
	velocity	7.21	8.82	8.33	8.12	7.83	7.66	7.61	7.17	7.00	6.73	6.57	7.47		8.41	7.70	6.96	
H1 lead leg	R strides	22	15	15	15	15	15	15	15	16	16	19.5	178.5					
Cockrell, Anna (USA) (1997)	time	6.24	10.21	14.51	18.95	23.52	28.16	32.83	37.70	42.87	48.08	54.24	54.24	6 / 3				
reaction time	interval		3.97	4.30	4.44	4.57	4.64	4.67	4.87	5.17	5.21	6.16			12.71	13.88	15.25	
	velocity	7.21	8.82	8.14	7.88	7.66	7.54	7.49	7.19	6.77	6.72	6.49	7.37		8.26	7.56	6.89	
H1 lead leg	R strides	22	14	14	14	14	15	15	15	16	16	20	175					
Bellamy, Shani'a (USA) (200	time	6.24	10.71	15.08	19.55	24.12	28.86	33.70	38.87	44.04	55.64	55.64	55.64	3 / 4				
reaction time	interval		4.47	4.37	4.47	4.57	4.74	4.84	5.17	5.17	11.60				13.31	14.15		
	velocity	7.21	7.83	8.01	7.83	7.66	7.38	7.23	6.77	6.77	6.47	7.19	114		7.89	7.42		
H1 lead leg	L strides	23	15	15	15	15	15	15	16	16	114							
Tate, Cassandra (USA) (1990	time	6.44	10.51	14.78	19.28	23.82	28.46	33.23	38.40	56.09	56.09	56.09	56.09	7 / 5				
reaction time	interval		4.07	4.27	4.50	4.54	4.64	4.77	5.17	5.17	17.69				12.84	13.95		
	velocity	6.99	8.60	8.20	7.78	7.71	7.54	7.34	6.77	6.77	5.94	7.13	125		8.18	7.53		
H1 lead leg	R strides	22	14	14	15	15	15	15	15	15	125							
Hoffman, Lauren (USA) (199	time	6.54	10.64	14.95	19.42	23.99	28.73	33.66	38.77	56.13	56.13	56.13	56.13	8 / 6				

reaction time	interval		4.10	4.31	4.47	4.57		4.74	4.93	5.11		17.36			12.88	14.24
	velocity	6.88	8.54	8.12	7.83	7.66		7.38	7.10	6.85		6.05	7.13		8.15	7.37
H1 lead leg	L	strides	23	15	15	16	16		16	18	18		137			
Langley-Walker, Madison (U	time		6.54	10.88	15.48	20.02	24.75		29.83	40.24				56.94	2 / 7	
reaction time	interval			4.34	4.60	4.54	4.73		5.08	10.41		16.70			13.48	
	velocity	6.88	8.06	7.61	7.71	7.40		6.89	6.72			6.29	7.02		7.79	
H1 lead leg	R	strides	24	16	17	16	16						89			
Barber, Kaila (USA) (1993)	time		6.44	10.64	15.05	19.65	24.32		29.26	39.57				57.51	1 / 8	
reaction time	interval			4.20	4.41	4.60	4.67		4.94	10.31		17.94			13.21	
	velocity	6.99	8.33	7.94	7.61	7.49		7.09	6.79		17	5.85	6.96		7.95	
H1 lead leg	R	strides	23	15	15	15	15						100			

2023 Bauhaus Galan (Stockholm, SWE)**National FINAL**

date 02-Jul-23

Omega Timing (2023) - diamond league race analysis

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Krafzik, Carolina (GER) (199)	time		6.24	10.31	14.49	18.83	23.37		28.15	33.09	38.17	43.50	49.09		55.71	5 / 1			
reaction time	0.178 interval			4.07	4.18	4.34	4.54		4.78	4.94	5.08	5.33	5.59	6.62			12.59	14.26	16.00
	velocity	7.21	8.60	8.37	8.06	7.71		7.32	7.09	6.89	6.57	6.26	6.04	7.18			8.34	7.36	6.56
H1 lead leg		strides																	
Granat, Moa (SWE) (2004)	time		6.41	10.61	14.97	19.44	24.01		28.75	33.74	38.97	44.47	50.29		57.34	4 / 2			
reaction time	0.144 interval			4.20	4.36	4.47	4.57		4.74	4.99	5.23	5.50	5.82	7.05			13.03	14.30	16.55
	velocity	7.02	8.33	8.03	7.83	7.66		7.38	7.01	6.69	6.36	6.01	5.67	6.98			8.06	7.34	6.34
H1 lead leg		strides																	
Zupin, Agata (SLO) (1998)	time		6.31	10.60	14.99	19.53	24.24		29.08	34.14	39.49	45.24	51.26		58.18	7 / 3			
reaction time	0.164 interval			4.29	4.39	4.54	4.71		4.84	5.06	5.35	5.75	6.02	6.92			13.22	14.61	17.12
	velocity	7.13	8.16	7.97	7.71	7.43		7.23	6.92	6.54	6.09	5.81	5.78	6.88			7.94	7.19	6.13
H1 lead leg		strides																	
Korzuch, Julia (POL) (1995)	time		6.67	11.13	15.63	20.23	24.98		29.94	35.14	40.54	46.15	52.08		58.94	3 / 4			
reaction time	0.138 interval			4.46	4.50	4.60	4.75		4.96	5.20	5.40	5.61	5.93	6.86			13.56	14.91	16.94
	velocity	6.75	7.85	7.78	7.61	7.37		7.06	6.73	6.48	6.24	5.90	5.83	6.79			7.74	7.04	6.20
H1 lead leg		strides																	
Karlsson, Hanna (SWE) (200)	time		6.77	11.27	15.84	20.56	25.50		30.64	35.92	41.48	47.32	53.34		60.37	6 / 5			
reaction time	0.163 interval			4.50	4.57	4.72	4.94		5.14	5.28	5.56	5.84	6.02	7.03			13.79	15.36	17.42
	velocity	6.65	7.78	7.66	7.42	7.09		6.81	6.63	6.29	5.99	5.81	5.69	6.63			7.61	6.84	6.03
H1 lead leg		strides																	
Svantesson, Ebba (SWE) (19)	time		6.70	11.32	16.01	20.76	25.75		31.01	36.48	42.17	48.06	54.20		61.38	2 / 6			
reaction time	0.176 interval			4.62	4.69	4.75	4.99		5.26	5.47	5.69	5.89	6.14	7.18			14.06	15.72	17.72
	velocity	6.72	7.58	7.46	7.37	7.01		6.65	6.40	6.15	5.94	5.70	5.57	6.52			7.47	6.68	5.93
H1 lead leg		strides																	
Landin, Tyra (SWE) (2002)	time		6.89	11.53	16.34	21.27	26.33		31.45	36.69	42.20	48.04	54.43		61.90	8 / 7			
reaction time	0.174 interval			4.64	4.81	4.93	5.06		5.12	5.24	5.51	5.84	6.39	7.47			14.38	15.42	17.74
	velocity	6.53	7.54	7.28	7.10	6.92		6.84	6.68	6.35	5.99	5.48	5.35	6.46			7.30	6.81	5.92
H1 lead leg		strides																	
Sund, Maja (SWE) (2001)	time		7.12	11.99	17.00	22.12	27.33		32.79	38.49	44.26	50.42	56.44		63.29	1 / 8			
reaction time	0.171 interval			4.87	5.01	5.12	5.21		5.46	5.70	5.77	6.16	6.02	6.85			15.00	16.37	17.95
	velocity	6.32	7.19	6.99	6.84	6.72		6.41	6.14	6.07	5.68	5.81	5.84	6.32			7.00	6.41	5.85
H1 lead leg		strides																	

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

date 30-Jun-23

Omega Timing (2023) - diamond league race analysis

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bol, Femke (NED) (2000)	time		6.14	10.09	14.11	18.16	22.38		26.76	31.43	36.35	41.36	46.61		52.76	5 / 1			
reaction time	0.169 interval			3.95	4.02	4.05	4.22		4.38	4.67	4.92	5.01	5.25	6.15			12.02	13.27	15.18
	velocity	7.33	8.86	8.71	8.64	8.29		7.99	7.49	7.11	6.99	6.67	6.50	7.58			8.74	7.91	6.92
H1 lead leg	L	strides	22	14	14	14	14		14	14	15	15	15	19.7	170.7				
Lehikoinen, Viivi (FIN) (1999)	time		6.29	10.29	14.42	18.59	22.96		27.55	32.31	37.38	42.67	48.08		54.67	4 / 2			
reaction time	0.208 interval			4.00	4.13	4.17	4.37		4.59	4.76	5.07	5.29	5.41	6.59			12.30	13.72	15.77
	velocity	7.15	8.75	8.47	8.39	8.01		7.63	7.35	6.90	6.62	6.47	6.07	7.32			8.54	7.65	6.66
H1 lead leg	R	strides	23	15					16	16	16	17	17	21	141				
Folorunso, Ayomide (ITA) (1)	time		6.26	10.41	14.66	19.04	23.53		28.17	33.01	38.07	43.23	48.66		55.12	8 / 3			
reaction time	0.222 interval			4.15	4.25	4.38	4.49		4.64	4.84	5.06	5.16	5.43	6.46			12.78	13.97	15.65
	velocity	7.19	8.43	8.24	7.99	7.80		7.54	7.23	6.92	6.78	6.45	6.19	7.26			8.22	7.52	6.71
H1 lead leg	L	strides	23	15		15			15	16	16	17	17	21	155				
Knight, Jessie (GBR) (1994)	time		6.42	10.66	15.02	19.36	23.85		28.48	33.36	38.52	43.79	49.13		55.13	3 / 4			
reaction time	0.178 interval			4.24	4.36	4.34	4.49		4.63	4.88	5.16	5.27	5.34	6.00			12.94	14.00	15.77
	velocity	7.01	8.25	8.03	8.06	7.80		7.56	7.17	6.78	6.64	6.55	6.67	7.26			8.11	7.50	6.66

H1 lead leg	R	strides	22	14		14	15	15	16	16	19	131							
Ryzhykova, Anna (UKR) (19)	time		6.46	10.60	14.87	19.22	23.71		28.44	33.37	38.48	43.73	49.21		55.41	2 / 5			
reaction time	0.175	interval		4.14	4.27	4.35	4.49		4.73	4.93	5.11	5.25	5.48	6.20			12.76	14.15	15.84
		velocity	6.97	8.45	8.20	8.05	7.80		7.40	7.10	6.85	6.67	6.39	6.45	7.22		8.23	7.42	6.63
H1 lead leg	R	strides	22	14		14	15	15	15	16	16	19	131						
Tkachuk, Viktoriya (UKR) (19)	time		6.24	10.36	14.59	18.93	23.40		28.01	32.85	38.00	43.44	49.07		55.69	7 / 6			
reaction time	0.196	interval		4.12	4.23	4.34	4.47		4.61	4.84	5.15	5.44	5.63	6.62			12.69	13.92	16.22
		velocity	7.21	8.50	8.27	8.06	7.83		7.59	7.23	6.80	6.43	6.22	6.04	7.18		8.27	7.54	6.47
H1 lead leg	L	strides	22	15		15	15	15	15	15	16	18	17	21	169				
Nielsen, Lina (GBR) (1996)	time		6.31	10.46	14.87	19.35	23.94		28.71	33.77	39.21	44.74	50.29		56.62	1 / 7			
reaction time	0.141	interval		4.15	4.41	4.48	4.59		4.77	5.06	5.44	5.53	5.55	6.33			13.04	14.42	16.52
		velocity	7.13	8.43	7.94	7.81	7.63		7.34	6.92	6.43	6.33	6.31	6.32	7.06		8.05	7.28	6.36
H1 lead leg	L	strides	22	15		15	15	15	15	15	16	16	16	114					
Woodruff, Gianna (PAN) (19)	time		6.42	10.48	14.75	19.13	23.61		28.11	32.91	38.70	44.01	49.67		56.68	6 / 8			
reaction time	0.227	interval		4.06	4.27	4.38	4.48		4.50	4.80	5.79	5.31	5.66	7.01			12.71	13.78	16.76
		velocity	7.01	8.62	8.20	7.99	7.81		7.78	7.29	6.04	6.59	6.18	5.71	7.06		8.26	7.62	6.26
H1 lead leg	L	strides	22	15	15			15	15	17	17	17	17	133					

2023 Bislett Games (Oslo, NOR)

FINAL

date 15-Jun-23

Omega Timing (2023) - diamond league race analysis

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bo, Femke (NED) (2000)	time		6.29	10.36	14.52	18.74	23.05		27.48	32.11	36.92	41.78	46.69		52.30	5 / 1			
reaction time	0.172	interval		4.07	4.16	4.22	4.31		4.43	4.63	4.81	4.86	4.91	5.61			12.45	13.37	14.58
		velocity	7.15	8.60	8.41	8.29	8.12		7.90	7.56	7.28	7.20	7.13	7.13	7.65		8.43	7.85	7.20
H1 lead leg	L	strides	22	14	14	14	14	14	14	14	15	15	15	18.5	169.5				
Clayton, Rushell (JAM) (199)	time		6.34	10.36	14.47	18.72	23.10		27.70	32.46	37.42	42.53	47.76		53.84	6 / 2			
reaction time	0.141	interval		4.02	4.11	4.25	4.38		4.60	4.76	4.96	5.11	5.23	6.08			12.38	13.74	15.30
		velocity	7.10	8.71	8.52	8.24	7.99		7.61	7.35	7.06	6.85	6.69	6.58	7.43		8.48	7.64	6.86
H1 lead leg	L	strides	22	15	14	14	15	15	15	15	16	16	16	20	178				
Woodruff, Gianna (PAN) (19)	time		6.36	10.44	14.72	19.15	23.66		28.29	33.11	38.17	43.30	48.43		54.46	4 / 3			
reaction time	0.198	interval		4.08	4.28	4.43	4.51		4.63	4.82	5.06	5.13	5.13	6.03			12.79	13.96	15.32
		velocity	7.08	8.58	8.18	7.90	7.76		7.56	7.26	6.92	6.82	6.82	6.63	7.34		8.21	7.52	6.85
H1 lead leg	L	strides	22	15	15	15	15	15	15	15	16	16	17	19	180				
Russell, Janieve (JAM) (1993)	time		6.39	10.53	14.73	19.08	23.55		28.27	33.05	38.08	43.27	48.56		54.91	3 / 4			
reaction time	0.135	interval		4.14	4.20	4.35	4.47		4.72	4.78	5.03	5.19	5.29	6.35			12.69	13.97	15.51
		velocity	7.04	8.45	8.33	8.05	7.83		7.42	7.32	6.96	6.74	6.62	6.30	7.28		8.27	7.52	6.77
H1 lead leg	L	strides	23	15	15	15	15	16	16	16	16	17	17	20	185				
Hall, Anna (USA) (2001)	time		6.28	10.39	14.61	18.91	23.42		28.12	33.02	38.01	43.32	49.09		55.28	8 / 5			
reaction time	0.212	interval		4.11	4.22	4.30	4.51		4.70	4.90	4.99	5.31	5.77	6.19			12.63	14.11	16.07
		velocity	7.17	8.52	8.29	8.14	7.76		7.45	7.14	7.01	6.59	6.07	6.46	7.24		8.31	7.44	6.53
H1 lead leg	L	strides	21	14	14	14	14	15	15	15	15	17	17	139					
Tkachuk, Viktoriya (UKR) (19)	time		6.29	10.55	14.75	19.07	23.57		28.28	33.22	38.40	43.70	49.10		55.36	7 / 6			
reaction time	0.171	interval		4.26	4.20	4.32	4.50		4.71	4.94	5.18	5.30	5.40	6.26			12.78	14.15	15.88
		velocity	7.15	8.22	8.33	8.10	7.78		7.43	7.09	6.76	6.60	6.48	6.39	7.23		8.22	7.42	6.61
H1 lead leg	L	strides	24	15	15	15	15	15	15	16	16	17	17	148					
Ryzhykova, Anna (UKR) (19)	time		6.52	10.68	14.96	19.34	23.87		28.65	33.54	38.57	43.80	49.25		55.53	1 / 7			
reaction time	0.202	interval		4.16	4.28	4.38	4.53		4.78	4.89	5.03	5.23	5.45	6.28			12.82	14.20	15.71
		velocity	6.90	8.41	8.18	7.99	7.73		7.32	7.16	6.96	6.69	6.42	6.37	7.20		8.19	7.39	6.68
H1 lead leg	R	strides	22	14	14	14	14	15	15	15	15	15	16	154					
Kloster, Line (NOR) (1990)	time		6.27	10.42	14.75	19.10	23.57		28.22	33.14	38.50	43.91	49.63		56.44	2 / 8			
reaction time	0.150	interval		4.15	4.33	4.35	4.47		4.65	4.92	5.36	5.41	5.72	6.81			12.83	14.04	16.49
		velocity	7.18	8.43	8.08	8.05	7.83		7.53	7.11	6.53	6.47	6.12	5.87	7.09		8.18	7.48	6.37
H1 lead leg	R	strides	22	15	15	15	15	15	15	16	16	17	17	163					

2023 NCAA Championships (Austin, TX) (TV Analysis)

FINAL

date 10-Jun-23

Henson (2023) - Athlete First: 2023 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Sutherland, Savannah (CAN)	time		6.54	10.77	15.11	19.48	23.95		28.63	33.43	38.40	43.54	48.65		54.45	7 / 1			
reaction time		interval		4.23	4.34	4.37	4.47		4.68	4.80	4.97	5.14	5.11	5.80	PB		12.94	13.95	15.22
		velocity	6.88	8.27	8.06	8.01	7.83		7.48	7.29	7.04	6.81	6.85	6.90	7.35		8.11	7.53	6.90
H1 lead leg	R	strides	23	15	15	15	15	15	15	16	16	16	16	20	182				
Russell, Masai (USA) (2000)	time		6.30	10.67	15.15	19.75	24.52		29.39	34.27	39.21	44.18	49.08		54.66	5 / 2			
reaction time		interval		4.37	4.48	4.60	4.77		4.87	4.88	4.94	4.97	4.90	5.58	PB		13.45	14.52	14.81
		velocity	7.14	8.01	7.81	7.61	7.34		7.19	7.17	7.09	7.04	7.14	7.17	7.32		7.81	7.23	7.09
H1 lead leg	R	strides	24	16	16	16	16	16	16	16	17	17	17	21	192				

Pickett, Chastity (USA) (2001)	time	6.50	10.74	15.01	19.52	24.09	28.76	33.56	38.50	43.54	48.75		54.86	8 / 3			
reaction time	interval		4.24	4.27	4.51	4.57	4.67	4.80	4.94	5.04	5.21	6.11	PB		13.02	14.04	15.19
	velocity	6.92	8.25	8.20	7.76	7.66	7.49	7.29	7.09	6.94	6.72	6.55	7.29		8.06	7.48	6.91
H1 lead leg	L strides	22	14	14	14	14	15	15	15	15	15	18.2	171.2				
Overholt, Brooke (CAN) (2001)	time	6.50	10.67	14.98	19.48	24.12	28.96	33.90	39.00	44.21	49.52		55.50	4 / 4			
reaction time	interval		4.17	4.31	4.50	4.64	4.84	4.94	5.10	5.21	5.31	5.98	PB		12.98	14.42	15.62
	velocity	6.92	8.39	8.12	7.78	7.54	7.23	7.09	6.86	6.72	6.59	6.69	7.21		8.09	7.28	6.72
H1 lead leg	L strides	24	15	15	15	15	16	16	17	17	17	20	187				
Bellamy, Shani'a (USA) (2002)	time	6.44	10.51	14.85	19.35	24.06	28.86	33.96	39.14	44.42	49.71		55.58	1 / 5			
reaction time	interval		4.07	4.34	4.50	4.71	4.80	5.10	5.18	5.28	5.29	5.87	PB		12.91	14.61	15.75
	velocity	6.99	8.60	8.06	7.78	7.43	7.29	6.86	6.76	6.63	6.62	6.81	7.20		8.13	7.19	6.67
H1 lead leg	R strides	22	14	15	15	15	15	16	16	16	16	18.5	178.5				
Graham, Lashanna (JAM) (2001)	time	6.71	10.94	15.31	19.99	24.76	29.56	34.47	39.54	44.41	49.75		55.59	9 / 6			
reaction time	interval		4.23	4.37	4.68	4.77	4.80	4.91	5.07	4.87	5.34	5.84	PB		13.28	14.48	15.28
	velocity	6.71	8.27	8.01	7.48	7.34	7.29	7.13	6.90	7.19	6.55	6.85	7.20		7.91	7.25	6.87
H1 lead leg	L strides	22.14	15	15	15	15	15	15	16	15	16		159.14				
Wilson, Britton (USA) (2000)	time	6.87	11.14	15.58	20.09	24.69	29.33	34.27	39.34	44.51	49.75		55.92	6 / 7			
reaction time	interval		4.27	4.44	4.51	4.60	4.64	4.94	5.07	5.17	5.24	6.17			13.22	14.18	15.48
	velocity	6.55	8.20	7.88	7.76	7.61	7.54	7.09	6.90	6.77	6.68	6.48	7.15		7.94	7.40	6.78
H1 lead leg	R strides	23	15	15	15	15	15	16	16	16	16		162				
Glynn, Abbey (USA) (2001)	time	6.74	11.04	15.55	20.18	24.89	29.66	34.60	39.57	44.85	50.18		56.01	3 / 8			
reaction time	interval		4.30	4.51	4.63	4.71	4.77	4.94	4.97	5.28	5.33	5.83			13.44	14.42	15.58
	velocity	6.68	8.14	7.76	7.56	7.43	7.34	7.09	7.04	6.63	6.57	6.86	7.14		7.81	7.28	6.74
H1 lead leg	L strides	22	15	15	15	15	15	15	15	17	17		161				
Townsend, Sydni (USA) (2001)	time	6.50	10.77	15.25	19.82	24.59	29.43	34.43	39.47	44.75	49.98		56.27	2 / 9			
reaction time	interval		4.27	4.48	4.57	4.77	4.84	5.00	5.04	5.28	5.23	6.29			13.32	14.61	15.55
	velocity	6.92	8.20	7.81	7.66	7.34	7.23	7.00	6.94	6.63	6.69	6.36	7.11		7.88	7.19	6.75
H1 lead leg	L strides	23	16	16	16	16	17	18	17	18	18		175				

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

FINAL

date 27-Jun-23

Shandong Athletics Sport Science (2023)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mo Jiadie (CHN) (2000)	time	6.45	10.64	15.06	19.50	24.14	28.96	33.93	38.95	44.16	49.48		55.55	4 / 1				
reaction time	0.205 interval		4.19	4.42	4.44	4.64	4.82	4.97	5.02	5.21	5.32	6.07			13.05	14.43	15.55	
	velocity	6.98	8.35	7.92	7.88	7.54	7.26	7.04	6.97	6.72	6.58	6.59	7.20		8.05	7.28	6.75	
H1 lead leg	L strides	23	15	16	16	16	16	17	17	17	17	21.7	191.7					
Kong Yingying (CHN) (2003)	time	6.62	10.86	15.28	19.89	24.66	29.58	34.77	40.14	45.53	50.95		57.14	6 / 2				
reaction time	0.281 interval		4.24	4.42	4.61	4.77	4.92	5.19	5.37	5.39	5.42	6.19	PB		13.27	14.88	16.18	
	velocity	6.80	8.25	7.92	7.59	7.34	7.11	6.74	6.52	6.49	6.46	6.46	7.00		7.91	7.06	6.49	
H1 lead leg	L strides	23	15	15	16	16	16	17	17	17	17	20.2	189.2					

Heat 2

date 27-Jun-23

Shandong Athletics Sport Science (2023)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mo Jiadie (CHN) (2000)	time	6.52	10.73	15.00	19.47	24.19	28.93	33.90	39.15	44.59	50.23		56.58	6 / 1				
reaction time	0.446 interval		4.21	4.27	4.47	4.72	4.74	4.97	5.25	5.44	5.64	6.35			12.95	14.43	16.33	
	velocity	6.90	8.31	8.20	7.83	7.42	7.38	7.04	6.67	6.43	6.21	6.30	7.07		8.11	7.28	6.43	
H1 lead leg	L strides	23	15	15	16	16	16	16	17	17	17	21	190					

Heat 1

date 27-Jun-23

Shandong Athletics Sport Science (2023)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kong Yingying (CHN) (2003)	time	6.55	10.68	14.92	19.22	23.71	28.58	33.85	39.30	44.96	50.83		57.78	5 / 1				
reaction time	0.235 interval		4.13	4.24	4.30	4.49	4.87	5.27	5.45	5.66	5.87	6.95			12.67	14.63	16.98	
	velocity	6.87	8.47	8.25	8.14	7.80	7.19	6.64	6.42	6.18	5.96	5.76	6.92		8.29	7.18	6.18	
H1 lead leg	L strides	23	15	15	15	15	16	17	17	17	17	21	188					

2023 Chinese National Grand Prix 4 (Chongqing, CHN)

FINAL

date 04-Jun-23

Shandong Athletics Sport Science (2023)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mo Jiadie (CHN) (2000)	time	6.51	10.69	15.06	19.54	24.14	28.91	33.92	39.11	44.44	49.88		55.93	4 / 1				
reaction time	0.277 interval		4.18	4.37	4.48	4.60	4.77	5.01	5.19	5.33	5.44	6.05			13.03	14.38	15.96	
	velocity	6.91	8.37	8.01	7.81	7.61	7.34	6.99	6.74	6.57	6.43	6.61	7.15		8.06	7.30	6.58	
H1 lead leg	L strides	23	15	15	16	16	16	16	17	18	18	21.5	191.5					
Kong Yingying (CHN) (2003)	time	6.74	11.14	15.63	20.30	25.06	29.98	35.07	40.31	45.71	51.30		57.54	6 / 2				
reaction time	0.236 interval		4.40	4.49	4.67	4.76	4.92	5.09	5.24	5.40	5.59	6.24	PB		13.56	14.77	16.23	
	velocity	6.68	7.95	7.80	7.49	7.35	7.11	6.88	6.68	6.48	6.26	6.41	6.95		7.74	7.11	6.47	
H1 lead leg	L strides	23	16	16	16	16	16	16	16	17	18	21	191					
Tao Xue (CHN) (1999)	time	6.97	11.41	15.93	20.54	25.27	30.30	35.50	40.87	46.36	51.98		58.49	5 / 3				
reaction time	0.248 interval		4.44	4.52	4.61	4.73	5.03	5.20	5.37	5.49	5.62	6.51			13.57	14.96	16.48	
	velocity	6.46	7.88	7.74	7.59	7.40	6.96	6.73	6.52	6.38	6.23	6.14	6.84		7.74	7.02	6.37	

H1 lead leg L strides 23 16 16 16 16 17 17 17 17 17 17 20.5 192.5

2023 Japanese National Championships (Osaka, JPN)

FINAL

date 04-Jun-23

Sugimoto (2024) - race analysis of men's and women's 400m hurdles in the 2023 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Yamamoto, Ami (JPN) (2002)	time	6.64	11.08	15.52	20.09	24.76		29.53	34.43	39.42	44.54	49.83		56.06	5 / 1			
	reaction time	0.196	interval	4.44	4.44	4.57	4.67	4.77	4.90	4.99	5.12	5.29	6.23	PB		13.45	14.34	15.40
	velocity	6.78	7.88	7.88	7.66	7.49		7.34	7.14	7.01	6.84	6.62	6.42	7.14		7.81	7.32	6.82
	H1 lead leg	L	strides	24	16	16	16	17	17	17	17	17	21	194				
Utsunomiya, Eri (JPN) (1993)	time	6.66	11.04	15.57	20.12	24.76		29.60	34.52	39.61	44.81	50.25		56.65	6 / 2			
	reaction time	0.207	interval	4.38	4.53	4.55	4.64	4.84	4.92	5.09	5.20	5.44	6.40			13.46	14.40	15.73
	velocity	6.76	7.99	7.73	7.69	7.54		7.23	7.11	6.88	6.73	6.43	6.25	7.06		7.80	7.29	6.68
	H1 lead leg	R	strides	23	15	15	15	16	16	17	17	17	21	187				
Umehara, Satsuki (JPN) (199)	time	6.72	11.19	15.72	20.29	25.04		29.93	34.93	40.11	45.43	50.85		57.02	9 / 3			
	reaction time	0.175	interval	4.47	4.53	4.57	4.75	4.89	5.00	5.18	5.32	5.42	6.17			13.57	14.64	15.92
	velocity	6.70	7.83	7.73	7.66	7.37		7.16	7.00	6.76	6.58	6.46	6.48	7.02		7.74	7.17	6.60
	H1 lead leg	R	strides	23	16	16	16	17	17	17	18	18		174				
Aoki, Honoka (JPN) (2001)	time	6.66	10.94	15.32	19.75	24.32		29.12	34.13	39.36	44.94	50.72		57.48	4 / 4			
	reaction time	0.237	interval	4.28	4.38	4.43	4.57	4.80	5.01	5.23	5.58	5.78	6.76	PB		13.09	14.38	16.59
	velocity	6.76	8.18	7.99	7.90	7.66		7.29	6.99	6.69	6.27	6.06	5.92	6.96		8.02	7.30	6.33
	H1 lead leg	L	strides	24	16	16	16	17	17	17	18	18	22.2	197.2				
Kudo, Mei (JPN) (2002)	time	6.91	11.48	16.10	20.84	25.61		30.53	35.65	40.81	46.03	51.58		57.84	3 / 5			
	reaction time	0.212	interval	4.57	4.62	4.74	4.77	4.92	5.12	5.16	5.22	5.55	6.26	PB		13.93	14.81	15.93
	velocity	6.51	7.66	7.58	7.38	7.34		7.11	6.84	6.78	6.70	6.31	6.39	6.92		7.54	7.09	6.59
	H1 lead leg	L	strides	24	16	16	16	17	17	17	17	18		174				
Matsuoka, Moe (JPN) (2003)	time	6.92	11.58	16.27	21.02	25.89		30.85	35.83	40.99	46.33	51.80		58.13	8 / 6			
	reaction time	0.194	interval	4.66	4.69	4.75	4.87	4.96	4.98	5.16	5.34	5.47	6.33			14.10	14.81	15.97
	velocity	6.50	7.51	7.46	7.37	7.19		7.06	7.03	6.78	6.55	6.40	6.32	6.88		7.45	7.09	6.57
	H1 lead leg	R	strides	24	16	16	17	17	17	17	17	17		175				
Minamisawa, Akane (JPN) (1)	time	6.74	11.14	15.57	20.11	24.92		29.87	35.09	40.44	46.00	51.89		58.97	7 / 7			
	reaction time	0.171	interval	4.40	4.43	4.54	4.81	4.95	5.22	5.35	5.56	5.89	7.08			13.37	14.98	16.80
	velocity	6.68	7.95	7.90	7.71	7.28		7.07	6.70	6.54	6.29	5.94	5.65	6.78		7.85	7.01	6.25
	H1 lead leg	L	strides	23	15	15	15	16	16	17	17	18		169				
Ibrahim, Ayesyia (JPN) (1998)	time	6.74	11.08	15.58	20.22	25.04		30.03	35.22	40.66	46.45	52.42		59.19	2 / 8			
	reaction time	0.224	interval	4.34	4.50	4.64	4.82	4.99	5.19	5.44	5.79	5.97	6.77			13.48	15.00	17.20
	velocity	6.68	8.06	7.78	7.54	7.26		7.01	6.74	6.43	6.04	5.86	5.91	6.76		7.79	7.00	6.10
	H1 lead leg	R	strides	22	15	15	15	15	15	16	17	17		162				

2023 Japanese U20 National Championships (Osaka, JPN)

FINAL

date 04-Jun-23

Sugimoto (2024) - race analysis of men's and women's 400m hurdles in the 2023 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Hiraki, Haru (JPN) (2005)	time	6.71	11.29	15.95	20.74	25.64		30.88	36.17	41.54	47.18	53.02		59.67	7 / 1			
	reaction time	0.177	interval	4.58	4.66	4.79	4.90	5.24	5.29	5.37	5.64	5.84	6.65	PB		14.03	15.43	16.85
	velocity	6.71	7.64	7.51	7.31	7.14		6.68	6.62	6.52	6.21	5.99	6.02	6.70		7.48	6.80	6.23
	H1 lead leg	R	strides	25	16	16	16	17	17	17	18	18	23	199				
Simizu, Serina (JPN) (2005)	time	6.91	11.56	16.30	21.22	26.26		31.43	36.75	42.14	47.71	53.57		59.84	4 / 2			
	reaction time	0.176	interval	4.65	4.74	4.92	5.04	5.17	5.32	5.39	5.57	5.86	6.27	PB		14.31	15.53	16.82
	velocity	6.51	7.53	7.38	7.11	6.94		6.77	6.58	6.49	6.28	5.97	6.38	6.68		7.34	6.76	6.24
	H1 lead leg	L	strides	24	17	17	17	17	17	17	17	19	22	201				
Tsukamoto, Moeno (JPN) (2)	time	6.84	11.31	15.93	20.67	25.64		30.80	36.09	41.52	47.18	53.14		59.85	9 / 3			
	reaction time	0.157	interval	4.47	4.62	4.74	4.97	5.16	5.29	5.43	5.66	5.96	6.71			13.83	15.42	17.05
	velocity	6.58	7.83	7.58	7.38	7.04		6.78	6.62	6.45	6.18	5.87	5.96	6.68		7.59	6.81	6.16
	H1 lead leg	R	strides	24	16	16	17	17	18	18	19	20	23.2	205.2				
Ogasawara, Arisa (JPN) (200)	time	7.04	11.63	16.38	21.27	26.29		31.51	36.77	42.26	47.91	53.62		59.88	5 / 4			
	reaction time	0.194	interval	4.59	4.75	4.89	5.02	5.22	5.26	5.49	5.65	5.71	6.26	PB		14.23	15.50	16.85
	velocity	6.39	7.63	7.37	7.16	6.97		6.70	6.65	6.38	6.19	6.13	6.39	6.68		7.38	6.77	6.23
	H1 lead leg	L	strides	24	16	16	16	17	17	18	18	18	21.7	197.7				
Wasada, Mahiro (JPN) (2004)	time	7.06	11.75	16.42	21.22	26.14		31.40	36.84	42.26	47.90	53.64		60.13	6 / 5			
	reaction time	0.197	interval	4.69	4.67	4.80	4.92	5.26	5.44	5.42	5.64	5.74	6.49			14.16	15.62	16.80
	velocity	6.37	7.46	7.49	7.29	7.11		6.65	6.43	6.46	6.21	6.10	6.16	6.65		7.42	6.72	6.25
	H1 lead leg	L	strides	24	16	16	16	17	18	18	19	19	23.2	202.2				
Nakasima, Sayaku (JPN) (200)	time	6.87	11.58	16.30	21.12	26.13		31.38	36.79	42.24	47.98	54.00		60.43	8 / 6			
	reaction time	0.180	interval	4.71	4.72	4.82	5.01	5.25	5.41	5.45	5.74	6.02	6.43	PB		14.25	15.67	17.21
	velocity	6.55	7.43	7.42	7.26	6.99		6.67	6.47	6.42	6.10	5.81	6.22	6.62		7.37	6.70	6.10
	H1 lead leg	L	strides	25	17	17	17	18	18	18	19	20	23.5	209.5				

Sauka, Satsuki (JPN) (2005)	time	7.06	11.80	16.62	21.47	26.53	31.75	37.10	42.79	48.62	54.64		61.35	2 / 7				
	reaction time	0.223	interval	4.74	4.82	4.85	5.06	5.22	5.35	5.69	5.83	6.02	6.71		14.41	15.63	17.54	
			velocity	6.37	7.38	7.26	7.22	6.92	6.70	6.54	6.15	6.00	5.81	5.96	6.52	7.29	6.72	5.99
	H1 lead leg	R	strides	24	16	16	17	17	17	17	18	18	19	23	202			
Natsume, Saaya (JPN) (2004)	time	6.99	11.61	16.37	21.24	26.24	31.45	37.05	42.88	48.97	55.21		62.25	3 / 8				
	reaction time	0.157	interval	4.62	4.76	4.87	5.00	5.21	5.60	5.83	6.09	6.24	7.04		14.25	15.81	18.16	
			velocity	6.44	7.58	7.35	7.19	7.00	6.72	6.25	6.00	5.75	5.61	5.68	6.43	7.37	6.64	5.78
	H1 lead leg	L	strides	25	17	17	17	17	17	19	19	19	19	24	210			

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

date 02-Jun-23

Omega Timing (2023) - diamond league race analysis

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Boi, Femke (NED) (2000)	time	6.27	10.35	14.48	18.63	22.90		27.28	31.96	36.76	41.63	46.64		52.43	6 / 1			
	reaction time	0.170	interval	4.08	4.13	4.15	4.27	4.38	4.68	4.80	4.87	5.01	5.79			12.36	13.33	14.68
			velocity	7.18	8.58	8.47	8.43	8.20	7.99	7.48	7.29	7.19	6.99	6.91	7.63	8.50	7.88	7.15
	H1 lead leg	L	strides	22	14	14	14	14	14	14	15	15	19	170				
Little, Shamier (USA) (1995)	time	6.18	10.35	14.66	19.04	23.50		27.98	32.62	37.36	42.21	47.30		53.38	4 / 2			
	reaction time	0.153	interval	4.17	4.31	4.38	4.46	4.48	4.64	4.74	4.85	5.09	6.08			12.86	13.58	14.68
			velocity	7.28	8.39	8.12	7.99	7.85	7.81	7.54	7.38	7.22	6.88	6.58	7.49	8.16	7.73	7.15
	H1 lead leg	R	strides	23	15	15	15	15	15	15	15	16	19.2	178.2				
Hall, Anna (USA) (2001)	time	6.38	10.57	14.81	19.01	23.43		27.99	32.69	37.65	42.68	48.03		54.42	8 / 3			
	reaction time	0.182	interval	4.19	4.24	4.20	4.42	4.56	4.70	4.96	5.03	5.35	6.39	PB		12.63	13.68	15.34
			velocity	7.05	8.35	8.25	8.33	7.92	7.68	7.45	7.06	6.96	6.54	6.26	7.35	8.31	7.68	6.84
	H1 lead leg	L	strides	21	14	14	14	15	15	15	15	17	19.5	173.5				
Woodruff, Gianna (PAN) (1999)	time	6.32	10.39	14.66	19.04	23.51		28.04	32.82	37.81	42.96	48.30		54.59	3 / 4			
	reaction time	0.184	interval	4.07	4.27	4.38	4.47	4.53	4.78	4.99	5.15	5.34	6.29			12.72	13.78	15.48
			velocity	7.12	8.60	8.20	7.99	7.83	7.73	7.32	7.01	6.80	6.55	6.36	7.33	8.25	7.62	6.78
	H1 lead leg	L	strides	22	15	15	15	15	15	15	16	16	17	19.5	180.5			
Tkachuk, Viktoriya (UKR) (1999)	time	6.24	10.36	14.57	18.83	23.25		27.75	32.60	37.67	42.88	48.33		54.71	7 / 5			
	reaction time	0.167	interval	4.12	4.21	4.26	4.42	4.50	4.85	5.07	5.21	5.45	6.38			12.59	13.77	15.73
			velocity	7.21	8.50	8.31	8.22	7.92	7.78	7.22	6.90	6.72	6.42	6.27	7.31	8.34	7.63	6.68
	H1 lead leg	L	strides	22	15	15	15	15	15	16	161	17	20.2	328.2				
Clayton, Rushell (JAM) (1999)	time	6.38	10.55	14.82	19.13	23.62		28.21	33.05	38.04	43.26	48.53		54.71	5 / 6			
	reaction time	0.133	interval	4.17	4.27	4.31	4.49	4.59	4.84	4.99	5.22	5.27	6.18			12.75	13.92	15.48
			velocity	7.05	8.39	8.20	8.12	7.80	7.63	7.23	7.01	6.70	6.64	6.47	7.31	8.24	7.54	6.78
	H1 lead leg	L	strides	23	15	14	14	15	15	15	16	16	19	178				
Folorunso, Ayomide (ITA) (1999)	time	6.25	10.33	14.61	18.87	23.23		27.69	32.49	37.55	42.91	48.64		55.34	2 / 7			
	reaction time	0.190	interval	4.08	4.28	4.26	4.36	4.46	4.80	5.06	5.36	5.73	6.70			12.62	13.62	16.15
			velocity	7.20	8.58	8.18	8.22	8.03	7.85	7.29	6.92	6.53	6.11	5.97	7.23	8.32	7.71	6.50
	H1 lead leg	L	strides	23	15	15	15	15	15	16	16	16	17	21.2	184.2			
Ryzhykova, Anna (UKR) (1999)	time	6.43	10.55	14.83	19.21	23.74		28.48	33.45	38.49	43.79	49.38		55.99	1 / 8			
	reaction time	0.155	interval	4.12	4.28	4.38	4.53	4.74	4.97	5.04	5.30	5.59	6.61			12.78	14.24	15.93
			velocity	7.00	8.50	8.18	7.99	7.73	7.38	7.04	6.94	6.60	6.26	6.05	7.14	8.22	7.37	6.59
	H1 lead leg	R	strides	22	14	14	14	14				16	16	20	130			

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

date 28-May-23

Omega Timing (2023) - diamond league race analysis

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Little, Shamier (USA) (1995)	time	6.18	10.20	14.39	18.71	23.17		27.77	32.73	37.51	42.57	47.93		53.95	4 / 1			
	reaction time	0.183	interval	4.02	4.19	4.32	4.46	4.60	4.96	4.78	5.06	5.36	6.02			12.53	14.02	15.20
			velocity	7.28	8.71	8.35	8.10	7.85	7.61	7.06	7.32	6.92	6.53	6.64	7.41	8.38	7.49	6.91
	H1 lead leg	R	strides	23	15	15	15	15	15	15	15	16	19.5	178.5				
Clayton, Rushell (JAM) (1999)	time	6.23	10.22	14.35	18.59	23.04		27.65	32.52	37.58	42.72	47.99		54.15	5 / 2			
	reaction time	0.142	interval	3.99	4.13	4.24	4.45	4.61	4.87	5.06	5.14	5.27	6.16			12.36	13.93	15.47
			velocity	7.22	8.77	8.47	8.25	7.87	7.59	7.19	6.92	6.81	6.64	6.49	7.39	8.50	7.54	6.79
	H1 lead leg	L	strides	23	15	15	15	15	15	16	16	16	19.2	181.2				
Salmon, Shiaan (JAM) (1999)	time	6.21	10.35	14.78	19.27	23.88		28.56	33.36	38.25	43.16	48.18		54.42	3 / 3			
	reaction time	0.178	interval	4.14	4.43	4.49	4.61	4.68	4.80	4.89	4.91	5.02	6.24			13.06	14.09	14.82
			velocity	7.25	8.45	7.90	7.80	7.59	7.48	7.29	7.16	7.13	6.97	6.41	7.35	8.04	7.45	7.09
	H1 lead leg	R	strides	21	15	15	14	15	15	16	16	16	19.7	178.7				
Russell, Janieve (JAM) (1993)	time	6.41	10.62	14.90	19.33	23.88		28.56	33.51	38.63	43.85	49.12		55.41	7 / 4			
	reaction time	0.160	interval	4.21	4.28	4.43	4.55	4.68	4.95	5.12	5.22	5.27	6.29			12.92	14.18	15.61
			velocity	7.02	8.31	8.18	7.90	7.69	7.48	7.07	6.84	6.70	6.64	6.36	7.22	8.13	7.40	6.73
	H1 lead leg	L	strides	23	15	15	15	15	16	16		17	20	152				
Muhammad, Dalilah (USA) (1999)	time	6.18	10.28	14.58	19.13	23.79		28.53	33.54	38.67	43.85	49.26		55.72	6 / 5			
	reaction time	0.170	interval	4.10	4.30	4.55	4.66	4.74	5.01	5.13	5.18	5.41	6.46			12.95	14.41	15.72

	velocity	7.28	8.54	8.14	7.69	7.51		7.38	6.99	6.82	6.76	6.47	6.19	7.18		8.11	7.29	6.68
H1 lead leg	R	strides	22	14	14	15	15	15	15			16	20	146				
Woodruff, Gianna (PAN) (19	time	6.34	10.32	14.55	19.04	23.67		28.45	33.58	38.86	44.14	49.53		55.74	2 / 6			
reaction time	0.201	interval		3.98	4.23	4.49	4.63	4.78	5.13	5.28	5.28	5.39	6.21			12.70	14.54	15.95
	velocity	7.10	8.79	8.27	7.80	7.56		7.32	6.82	6.63	6.63	6.49	6.44	7.18		8.27	7.22	6.58
H1 lead leg	R	strides	22	14		15	15	15	16			16	19	132				
Ennadi, Noura (MAR) (1999)	time	6.44	10.66	15.02	19.55	24.31		29.31	34.37	39.41	44.52	49.71		55.83	1 / 7			
reaction time	0.183	interval		4.22	4.36	4.53	4.76	5.00	5.06	5.04	5.11	5.19	6.12	PB		13.11	14.82	15.34
	velocity	6.99	8.29	8.03	7.73	7.35		7.00	6.92	6.94	6.85	6.74	6.54	7.16		8.01	7.09	6.84
H1 lead leg	R	strides	23	15		15	15	17			17	17	20	139				
Ryzhykova, Anna (UKR) (19	time	6.61	10.93	15.33	19.84	24.51		29.40	34.51	39.74	45.11	50.64		56.97	8 / 8			
reaction time	0.268	interval		4.32	4.40	4.51	4.67	4.89	5.11	5.23	5.37	5.53	6.33			13.23	14.67	16.13
	velocity	6.81	8.10	7.95	7.76	7.49		7.16	6.85	6.69	6.52	6.33	6.32	7.02		7.94	7.16	6.51
H1 lead leg	R	strides	22	14	14	14	14	15	15		16	16	19	159				

2023 IFAM Oordegem (Oordegem, BEL) (TV Analysis)**FINAL**

date 27-May-23

Henson (2023) - Athlete First: 2023 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bo, Femke (NED) (2000)	time	6.40	10.53	14.73	19.03	23.40		27.96	32.67	37.43		47.63		53.12	6 / 1			
reaction time	interval		4.13	4.20	4.30	4.37		4.56	4.71	4.76		10.20	5.49			12.63	13.64	14.96
	velocity	7.03	8.47	8.33	8.14	8.01		7.68	7.43	7.35		6.86	7.29	7.53		8.31	7.70	7.02
H1 lead leg	L	strides	22	14	14	14		14	14	15		16	19	156				

2023 Shimane High School Championships (Izumo, JPN)**FINAL**

date 27-May-23

Shimizu (2023) - shimane high school championships 2023 - biomechanics data analysis

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Okuni, Chinatsu (JPN)	time	7.65	12.72	18.12	23.63	29.27		35.22	41.17	47.15	53.28	59.48		66.09	4 / 1			
reaction time	interval		5.07	5.40	5.51	5.64		5.95	5.95	5.98	6.13	6.20	6.61			15.98	17.54	18.31
	velocity	5.88	6.90	6.48	6.35	6.21		5.88	5.88	5.85	5.71	5.65	6.05	6.05		6.57	5.99	5.73
H1 lead leg		strides	27	19	19	19		20	20	20	20	20	23.7	226.7				
Matsui, Hinata (JPN)	time	7.50	12.75	18.15	23.68	29.47		35.55	41.62	47.90	54.67	61.37		68.67	5 / 2			
reaction time	interval		5.25	5.40	5.53	5.79		6.08	6.07	6.28	6.77	6.70	7.30			16.18	17.94	19.75
	velocity	6.00	6.67	6.48	6.33	6.04		5.76	5.77	5.57	5.17	5.22	5.48	5.82		6.49	5.85	5.32
H1 lead leg		strides	26	19	19	21		21	21	23	23	23	25.4	240.4				
Ago, Airi (JPN)	time	7.73	13.12	18.57	24.25	30.17		36.20	42.40	48.68	55.30	62.15		69.85	3 / 3			
reaction time	interval		5.39	5.45	5.68	5.92		6.03	6.20	6.28	6.62	6.85	7.70			16.52	18.15	19.75
	velocity	5.82	6.49	6.42	6.16	5.91		5.80	5.65	5.57	5.29	5.11	5.19	5.73		6.36	5.79	5.32
H1 lead leg		strides	25	19	19	19		19	19	19	21	21	24.2	224.2				
Moriyoshi, Hinata (JPN)	time	7.55	12.97	18.47	24.28	30.32		36.62	43.05	49.48	56.25	63.08		70.46	7 / 4			
reaction time	interval		5.42	5.50	5.81	6.04		6.30	6.43	6.43	6.77	6.83	7.38			16.73	18.77	20.03
	velocity	5.96	6.46	6.36	6.02	5.79		5.56	5.44	5.44	5.17	5.12	5.42	5.68		6.28	5.59	5.24
H1 lead leg		strides	26	18	18	19		20	20	20	21	21	24.2	226.2				
Kawahara, Haruka (JPN)	time	8.22	13.85	19.67	25.58	31.78		38.15	44.80	51.45	58.25	64.85		72.13	8 / 5			
reaction time	interval		5.63	5.82	5.91	6.20		6.37	6.65	6.65	6.80	6.60	7.28			17.36	19.22	20.05
	velocity	5.47	6.22	6.01	5.92	5.65		5.49	5.26	5.26	5.15	5.30	5.49	5.55		6.05	5.46	5.24
H1 lead leg		strides	27	19	19	20		20	21	21	21	21	25.2	233.2				
Koda, Yuna (JPN)	time	7.97	13.45	19.13	25.13	31.45		37.88	44.28	50.82	57.63	64.87		72.25	1 / 6			
reaction time	interval		5.48	5.68	6.00	6.32		6.43	6.40	6.54	6.81	7.24	7.38			17.16	19.15	20.59
	velocity	5.65	6.39	6.16	5.83	5.54		5.44	5.47	5.35	5.14	4.83	5.42	5.54		6.12	5.48	5.10
H1 lead leg		strides	28	19	19	21		21	21	21	21	23	26.2	241.2				

2023 Michitaka Kinami Memorial (Osaka, JPN)**A FINAL**

date 06-May-23

Sugimoto (2024) - race analysis of men's and women's 400m hurdles in the 2023 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Yamamoto, Ami (JPN) (2002)	time	6.66	11.15	15.77	20.50	25.36		30.43	35.54	40.74	46.05	51.55		57.92	6 / 1			
reaction time	0.154	interval		4.49	4.62	4.73	4.86	5.07	5.11	5.20	5.31	5.50	6.37			13.84	15.04	16.01
	velocity	6.76	7.80	7.58	7.40	7.20		6.90	6.85	6.73	6.59	6.36	6.28	6.91		7.59	6.98	6.56
H1 lead leg		strides	16	16	16	17		17	17	17	17	17	150					
Umehara, Satsuki (JPN) (199	time	6.71	11.29	15.98	20.85	25.78		30.89	36.02	41.19	46.68	52.15		58.36	4 / 2			
reaction time	0.147	interval		4.58	4.69	4.87	4.93	5.11	5.13	5.17	5.49	5.47	6.21			14.14	15.17	16.13
	velocity	6.71	7.64	7.46	7.19	7.10		6.85	6.82	6.77	6.38	6.40	6.44	6.85		7.43	6.92	6.51
H1 lead leg		strides	16	16	17	17		17	17	17	18	18	153					
Utsunomiya, Eri (JPN) (1993)	time	6.62	10.96	15.47	20.09	24.92		30.05	35.35	40.69	46.06	51.69		58.43	5 / 3			
reaction time	0.176	interval		4.34	4.51	4.62	4.83	5.13	5.30	5.34	5.37	5.63	6.74			13.47	15.26	16.34
	velocity	6.80	8.06	7.76	7.58	7.25		6.82	6.60	6.55	6.52	6.22	5.93	6.85		7.80	6.88	6.43
H1 lead leg		strides	15	15	15	15		16	16	17	17	17	143					
Ibrahim, Ayesyia (JPN) (1998)	time	6.69	10.99	15.45	20.15	25.08		30.11	35.22	40.46	46.00	51.94		58.89	8 / 4			

reaction time	0.202	interval	4.30	4.46	4.70	4.93	5.03	5.11	5.24	5.54	5.94	6.95	13.46	15.07	16.72		
		velocity	6.73	8.14	7.85	7.45	7.10	6.96	6.85	6.68	6.32	5.89	5.76	6.79	7.80	6.97	6.28
H1 lead leg		strides	15	15	15	15	15	15	15	16	17		138				
Ito, Akiko (JPN) (1995)	time	6.72	11.18	15.88	20.84	25.96	31.15	36.30	41.71	47.21	52.82		59.28	7 / 5			
reaction time	0.145	interval	4.46	4.70	4.96	5.12	5.19	5.15	5.41	5.50	5.61	6.46	14.12	15.46	16.52		
		velocity	6.70	7.85	7.45	7.06	6.84	6.74	6.80	6.47	6.36	6.24	6.19	6.75	7.44	6.79	6.36
H1 lead leg		strides	15	15	16	16	16	16	16	17	17	17	145				

B FINAL

date 06-May-23

Sugimoto (2024) - race analysis of men's and women's 400m hurdles in the 2023 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Minamisawa, Akane (JPN) (1	time	6.84	11.31	15.93	20.67	25.64		30.53	35.57	40.86	46.23	51.84		58.38	5 / 1			
reaction time	0.189	interval	4.47	4.62	4.74	4.97		4.89	5.04	5.29	5.37	5.61	6.54	PB		13.83	14.90	16.27
		velocity	6.58	7.83	7.58	7.38	7.04	7.16	6.94	6.62	6.52	6.24	6.12	6.85		7.59	7.05	6.45
H1 lead leg		strides	15	15	15	16		16	16	17	17	18		145				
Oshiden, Moe (JPN) (1993)	time	6.81	11.51	16.28	21.19	26.19		31.28	36.49	41.78	47.13	52.64		59.03	8 / 2			
reaction time	0.155	interval	4.70	4.77	4.91	5.00		5.09	5.21	5.29	5.35	5.51	6.39			14.38	15.30	16.15
		velocity	6.61	7.45	7.34	7.13	7.00	6.88	6.72	6.62	6.54	6.35	6.26	6.78		7.30	6.86	6.50
H1 lead leg		strides	16	16	16	16		17	17	17	17	17		149				

C FINAL

date 06-May-23

Sugimoto (2024) - race analysis of men's and women's 400m hurdles in the 2023 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tabashi, Yukino (JPN) (2003)	time	6.82	11.34	15.85	20.59	25.49		30.51	35.80	41.26	47.00	52.89		59.39	8 / 1			
reaction time	0.151	interval	4.52	4.51	4.74	4.90		5.02	5.29	5.46	5.74	5.89	6.50	PB		13.77	15.21	17.09
		velocity	6.60	7.74	7.76	7.38	7.14	6.97	6.62	6.41	6.10	5.94	6.15	6.74		7.63	6.90	6.14
H1 lead leg		strides	17	17	17	17		17	18	18	19	20		160				

2023 Shizuoka International Meeting (Fukuroi, JPN)**A FINAL**

date 03-May-23

Sugimoto (2024) - race analysis of men's and women's 400m hurdles in the 2023 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kawamura, Yuka (JPN) (2001)	time	6.88	11.35	15.96	20.70	25.55		30.57	35.68	40.90	46.26	51.74		58.12	6 / 1			
reaction time	0.288	interval	4.47	4.61	4.74	4.85		5.02	5.11	5.22	5.36	5.48	6.38	PB		13.82	14.98	16.06
		velocity	6.54	7.83	7.59	7.38	7.22	6.97	6.85	6.70	6.53	6.39	6.27	6.88		7.60	7.01	6.54
H1 lead leg	R	strides	23	16	16	16	16	17	17	17	17	17	21.2	193.2				
Takino, Miku (JPN) (2005)	time	6.77	11.15	15.83	20.59	25.59		30.64	35.91	41.22	46.65	52.15		58.31	7 / 2			
reaction time	0.203	interval	4.38	4.68	4.76	5.00		5.05	5.27	5.31	5.43	5.50	6.16	PB		13.82	15.32	16.24
		velocity	6.65	7.99	7.48	7.35	7.00	6.93	6.64	6.59	6.45	6.36	6.49	6.86		7.60	6.85	6.47
H1 lead leg	R	strides	23	15	16	16	16	16	17	17	17	17	20	190				
Yokota, Karen (JPN) (1999)	time	6.75	11.24	15.85	20.59	25.38		30.33	35.40	40.61	46.09	51.99		58.73	5 / 3			
reaction time	0.188	interval	4.49	4.61	4.74	4.79		4.95	5.07	5.21	5.48	5.90	6.74			13.84	14.81	16.59
		velocity	6.67	7.80	7.59	7.38	7.31	7.07	6.90	6.72	6.39	5.93	5.93	6.81		7.59	7.09	6.33
H1 lead leg	L	strides	23	16	16	16	16	17	17	17	17	17	22	194				

B FINAL

date 03-May-23

Sugimoto (2024) - race analysis of men's and women's 400m hurdles in the 2023 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Aoki, Honoka (JPN) (2001)	time	6.68	11.03	15.60	20.25	25.06		30.04	35.18	40.45	45.95	51.78		58.30	8 / 1			
reaction time	0.217	interval	4.35	4.57	4.65	4.81		4.98	5.14	5.27	5.50	5.83	6.52			13.57	14.93	16.60
		velocity	6.74	8.05	7.66	7.53	7.28	7.03	6.81	6.64	6.36	6.00	6.13	6.86		7.74	7.03	6.33
H1 lead leg	L	strides	24	16	16	16	16	17	17	17	17	18	21.7	195.7				
Yamamoto, Ami (JPN) (2002)	time	6.93	11.50	16.25	21.06	26.01		31.08	36.25	41.50	46.92	52.43		58.63	5 / 2			
reaction time	0.262	interval	4.57	4.75	4.81	4.95		5.07	5.17	5.25	5.42	5.51	6.20			14.13	15.19	16.18
		velocity	6.49	7.66	7.37	7.28	7.07	6.90	6.77	6.67	6.46	6.35	6.45	6.82		7.43	6.91	6.49
H1 lead leg	L	strides	24	16	16	16	16	17	17	17	17	17	21	194				
Utsunomiya, Eri (JPN) (1993)	time	6.62	11.02	15.63	20.28	25.21		30.32	35.49	40.78	46.17	51.91		58.80	6 / 3			
reaction time	0.211	interval	4.40	4.61	4.65	4.93		5.11	5.17	5.29	5.39	5.74	6.89			13.66	15.21	16.42
		velocity	6.80	7.95	7.59	7.53	7.10	6.85	6.77	6.62	6.49	6.10	5.81	6.80		7.69	6.90	6.39
H1 lead leg	R	strides	23	15	15	15	15	16	16	17	17	17	22	188				

C FINAL

date 03-May-23

Sugimoto (2024) - race analysis of men's and women's 400m hurdles in the 2023 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Takano, Nanami (JPN) (2001)	time	6.83	11.40	16.04	20.82	25.63		30.61	35.78	41.20	46.75	52.46		58.89	5 / 1			
reaction time	0.224	interval	4.57	4.64	4.78	4.81		4.98	5.17	5.42	5.55	5.71	6.43	PB		13.99	14.96	16.68
		velocity	6.59	7.66	7.54	7.32	7.28	7.03	6.77	6.46	6.31	6.13	6.22	6.79		7.51	7.02	6.29
H1 lead leg	R	strides	24	16	17	17	17	18	18	19	19	19	23	207				
Oshiden, Moe (JPN) (1993)	time	6.91	11.65	16.48	21.34	26.25		31.28	36.44	41.71	47.11	52.68		59.10	8 / 2			
reaction time	0.196	interval	4.74	4.83	4.86	4.91		5.03	5.16	5.27	5.40	5.57	6.42			14.43	15.10	16.24
		velocity	6.51	7.38	7.25	7.20	7.13	6.96	6.78	6.64	6.48	6.28	6.23	6.77		7.28	6.95	6.47
H1 lead leg	R	strides	23	16	16	16	16	17	17	17	17	17	21.5	193.5				

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

date 08-Sep-22

Henson (2022) - Athlete First: 2022 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Boi, Femke (NED) (2000)	time	6.37	10.41	14.55	18.72	23.06	24.86	27.56	32.14	36.83	41.71	46.98		53.03	6 / 1			
	reaction time	0.189	interval	4.04	4.14	4.17	4.34	4.50	4.58	4.69	4.88	5.27	6.05			12.35	13.42	14.84
	velocity	7.06	8.66	8.45	8.39	8.06	8.05	7.78	7.64	7.46	7.17	6.64	6.61	7.54		8.50	7.82	7.08
H1 lead leg	L	22	15	15	15	15		15	15	15	15	16	19	177				
Woodruff, Gianna (PAN) (19)	time	6.31	10.28			23.26	25.12	27.76	32.46		42.27	47.57		53.72	3 / 2			15.11
	reaction time	0.203	interval	3.97		12.98		4.50	4.70		9.81	5.30	6.15					6.95
	velocity	7.13	8.82			8.09	7.96	7.78	7.45		7.14	6.60	6.50	7.45				
H1 lead leg	L	23	15					15	15			16	19.2	103.2				
Russell, Janieve (JAM) (1993)	time	6.41	10.58		19.22	23.56	25.35	28.03	32.63	37.37	42.31	47.51		53.77	4 / 3			
	reaction time	0.155	interval	4.17	8.64	4.34		4.47	4.60	4.74	4.94	5.20	6.26			12.81	13.41	14.88
	velocity	7.02	8.39		8.10	8.06	7.89	7.83	7.61	7.38	7.09	6.73	6.39	7.44		8.20	7.83	7.06
H1 lead leg	R	23	15			15		15	15			16	17	136				
Muhammad, Dalilah (USA) (19)	time	6.04	10.01	14.18	18.42	22.82	24.64	27.29	31.87	36.70	41.87	47.31		53.83	5 / 4			
	reaction time	0.150	interval	3.97	4.17	4.24	4.40	4.47	4.58	4.83	5.17	5.44	6.52			12.38	13.45	15.44
	velocity	7.45	8.82	8.39	8.25	7.95	8.12	7.83	7.64	7.25	6.77	6.43	6.13	7.43		8.48	7.81	6.80
H1 lead leg	R	22	15	15	15	15		15	15	15	16	16	20	179				
Clayton, Rushell (JAM) (199)	time	6.34	10.44		18.85	23.25	25.11	27.79	32.60	37.47	42.84	48.15		54.25	7 / 5			
	reaction time	0.148	interval	4.10	8.41	4.40		4.54	4.81	4.87	5.37	5.31	6.10			12.51	13.75	15.55
	velocity	7.10	8.54		8.32	7.95	7.96	7.71	7.28	7.19	6.52	6.59	6.56	7.37		8.39	7.64	6.75
H1 lead leg	R	23	15			16		15	16	16	17	17	19.2	154.2				
Tkachuk, Viktoriya (UKR) (19)	time	6.27	10.38			23.19	25.05	27.73	32.43	37.40	42.67	48.29		54.79	8 / 6			
	reaction time	0.216	interval	4.11		12.81		4.54	4.70	4.97	5.27	5.62	6.50					15.86
	velocity	7.18	8.52			8.20	7.98	7.71	7.45	7.04	6.64	6.23	6.15	7.30				6.62
H1 lead leg	L	22	15					15	15	16	16	17	20.5	136.5				
Ryzhykova, Anna (UKR) (19)	time	6.34	10.38			23.49	25.42	28.26	33.10		43.31	48.68		55.06	2 / 7			
	reaction time	0.167	interval	4.04		13.11		4.77	4.84		10.21	5.37	6.38					15.58
	velocity	7.10	8.66			8.01	7.87	7.34	7.23		6.86	6.52	6.27	7.26				6.74
H1 lead leg	R	22	14					15	15			16	19.7	101.7				
Folorunso, Ayomide (ITA) (19)	time	6.34	10.44			23.46	25.33	28.03	32.86		43.21	48.88		55.86	1 / 8			
	reaction time	0.179	interval	4.10		13.02		4.57	4.83		10.35	5.67	6.98					16.02
	velocity	7.10	8.54			8.06	7.90	7.66	7.25		6.76	6.17	5.73	7.16				6.55
H1 lead leg	L	23	15			15		16	16			17	22	124				

2022 Shandong Provincial Games (Rizhao, CHN)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
U20 FINAL																Shandong Athletics Sport Science (2022)		
date 03-Sep-22																		
Hu Wenge (CHN)	time	6.99	11.65	16.42	21.43	26.71		32.12	37.74	43.26	48.94	54.94		61.95	4 / 1			
	reaction time	0.297	interval	4.66	4.77	5.01	5.28	5.41	5.62	5.52	5.68	6.00	7.01			14.44	16.31	17.20
	velocity	6.44	7.51	7.34	6.99	6.63		6.47	6.23	6.34	6.16	5.83	5.71	6.46		7.27	6.44	6.10
H1 lead leg	L	25	17	17	17	18		18	19	19	19	20	25	214				
Yu Qian (CHN)	time	6.86	11.53	16.27	21.24	26.33		31.65	37.07	42.75	48.87	55.42		62.89	5 / 2			
	reaction time	0.239	interval	4.67	4.74	4.97	5.09	5.32	5.42	5.68	6.12	6.55	7.47			14.38	15.83	18.35
	velocity	6.56	7.49	7.38	7.04	6.88		6.58	6.46	6.16	5.72	5.34	5.35	6.36		7.30	6.63	5.72
H1 lead leg	L	25	17	17	17	17		18	18	19	20	21	24.5	213.5				
Zhang Yixuan (CHN)	time	7.08	11.77	16.52	21.38	26.33		31.47	36.79	42.36	48.40	54.96		62.92	3 / 3			
	reaction time	0.259	interval	4.69	4.75	4.86	4.95	5.14	5.32	5.57	6.04	6.56	7.96			14.30	15.41	18.17
	velocity	6.36	7.46	7.37	7.20	7.07		6.81	6.58	6.28	5.79	5.34	5.03	6.36		7.34	6.81	5.78
H1 lead leg	L	23	17	17	17	17		17	17	18	19	20	24	206				
Chi Wenjing (CHN)	time	6.94	11.60	16.45	21.56	26.81		32.09	37.56	43.18	49.19	55.59		63.07	6 / 4			
	reaction time	0.217	interval	4.66	4.85	5.11	5.25	5.28	5.47	5.62	6.01	6.40	7.48			14.62	16.00	18.03
	velocity	6.48	7.51	7.22	6.85	6.67		6.63	6.40	6.23	5.82	5.47	5.35	6.34		7.18	6.56	5.82
H1 lead leg	L	24	16	16	17	17		17	18	18	19	20	24	206				
Zhuang Yuxuan (CHN)	time	7.20	12.13	17.19	22.36	27.77		33.22	38.73	44.38	50.47	56.89		63.82	7 / 5			
	reaction time	0.310	interval	4.93	5.06	5.17	5.41	5.45	5.51	5.65	6.09	6.42	6.93			15.16	16.37	18.16
	velocity	6.25	7.10	6.92	6.77	6.47		6.42	6.35	6.19	5.75	5.45	5.77	6.27		6.93	6.41	5.78
H1 lead leg	L	23	17	17	17	17		17	17	17	19	19	22	202				
Ma Ziaole (CHN) (2004)	time	7.14	12.13	17.12	22.24	27.93		33.79	39.63	46.03	52.71	59.41		66.84	8 / 6			
	reaction time	0.228	interval	4.99	4.99	5.12	5.69	5.86	5.84	6.40	6.68	6.70	7.43			15.10	17.39	19.78
	velocity	6.30	7.01	7.01	6.84	6.15		5.97	5.99	5.47	5.24	5.22	5.38	5.98		6.95	6.04	5.31
H1 lead leg	L	24	16	16	16	16		17	17	19	19	19	22	201				
Li Jianing (CHN)	time	7.46	12.73	18.16	23.93	29.55		35.31	41.41	47.64	53.99	60.58		67.34	2 / 7			
	reaction time	0.255	interval	5.27	5.43	5.77	5.62	5.76	6.10	6.23	6.35	6.59	6.76			16.47	17.48	19.17
	velocity	6.03	6.64	6.45	6.07	6.23		6.08	5.74	5.62	5.51	5.31	5.92	5.94		6.38	6.01	5.48
H1 lead leg	L	25	18	18	19	18		19	19	19	20	20	24	219				

Wang Xu (CHN)	time	7.58	12.75	18.06	23.43	28.98		34.81	40.83	47.20	53.98	60.46		67.68	1 / 8				
reaction time	0.369 interval		5.17	5.31	5.37	5.55		5.83	6.02	6.37	6.78	6.48	7.22			15.85	17.40	19.63	
	velocity	5.94	6.77	6.59	6.52	6.31		6.00	5.81	5.49	5.16	5.40	5.54	5.91		6.62	6.03	5.35	
H1 lead leg	R strides	24	17	17	17	17		18	18	19	19	19	22	207					

U18 FINAL		date	Shandong Athletics Sport Science (2022)																
		03-Sep-22	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Dong Xinyi (CHN) (2006)	time	7.46	12.58	17.92	23.24	28.75		34.27	39.88	45.50	51.36	57.28		63.49	1 / 1				
reaction time	0.262 interval		5.12	5.34	5.32	5.51		5.52	5.61	5.62	5.86	5.92	6.21			15.78	16.64	17.40	
	velocity	6.03	6.84	6.55	6.58	6.35		6.34	6.24	6.23	5.97	5.91	6.44	6.30		6.65	6.31	6.03	
H1 lead leg	L strides	25	18	18	18	18		18	18	18	19	19	21	210					
Li Qianqian (CHN)	time	7.31	12.15	17.15	22.36	27.83		33.75	39.88	45.83	52.24	59.36		67.39	2 / 2				
reaction time	0.432 interval		4.84	5.00	5.21	5.47		5.92	6.13	5.95	6.41	7.12	8.03			15.05	17.52	19.48	
	velocity	6.16	7.23	7.00	6.72	6.40		5.91	5.71	5.88	5.46	4.92	4.98	5.94		6.98	5.99	5.39	
H1 lead leg	L strides	24	17	17	17	17		19	19	19	20	21	25	215					
Zhang Jiaxuan (CHN)	time	7.46	12.65	17.92	23.38	29.33		35.49	41.80	48.30	54.97	61.67		68.68	5 / 3				
reaction time	0.252 interval		5.19	5.27	5.46	5.95		6.16	6.31	6.50	6.67	6.70	7.01			15.92	18.42	19.87	
	velocity	6.03	6.74	6.64	6.41	5.88		5.68	5.55	5.38	5.25	5.22	5.71	5.82		6.60	5.70	5.28	
H1 lead leg	L strides	25	18	18	18	19		19	19	20	20	20	23	219					
Wang Hainuo (CHN)	time	7.81	13.30	18.91	24.61	30.57		36.66	43.10	49.75	56.41	63.12		69.47	6 / 4				
reaction time	0.309 interval		5.49	5.61	5.70	5.96		6.09	6.44	6.65	6.66	6.71	6.35			16.80	18.49	20.02	
	velocity	5.76	6.38	6.24	6.14	5.87		5.75	5.43	5.26	5.26	5.22	6.30	5.76		6.25	5.68	5.24	
H1 lead leg	L strides	23	17	17	17	17		17	19	19	19	19	20.5	204.5					
Liu Wenshuo (CHN)	time	7.68	12.98	18.46	24.03	29.90		35.91	42.33	49.05	55.76	62.95		70.17	3 / 5				
reaction time	0.369 interval		5.30	5.48	5.57	5.87		6.01	6.42	6.72	6.71	7.19	7.22			16.35	18.30	20.62	
	velocity	5.86	6.60	6.39	6.28	5.96		5.82	5.45	5.21	5.22	4.87	5.54	5.70		6.42	5.74	5.09	
H1 lead leg	L strides	24	18	18	19	18		18	20	20	20	20	22.2	217.2					
Zhang Rui (CHN)	time	7.95	13.17	18.46	23.98	29.83		35.97	42.46	49.14	56.09	63.08		70.21	8 / 6				
reaction time	0.211 interval		5.22	5.29	5.52	5.85		6.14	6.49	6.68	6.95	6.99	7.13			16.03	18.48	20.62	
	velocity	5.66	6.70	6.62	6.34	5.98		5.70	5.39	5.24	5.04	5.01	5.61	5.70		6.55	5.68	5.09	
H1 lead leg	L strides	25	17	17	17	17		18	19	19	20	20	22.7	211.7					
Sun Xiu (CHN)	time	8.06	13.47	19.07	24.90	31.00		37.21	43.70	50.54				72.17	9 / 7				
reaction time	0.338 interval		5.41	5.60	5.83	6.10		6.21	6.49	6.84						16.84	18.80		
	velocity	5.58	6.47	6.25	6.00	5.74		5.64	5.39	5.12				5.54		6.24	5.59		
H1 lead leg	R strides	26	18	18	19	19		19	20	21				160					
Liu Shihua (CHN)	time	8.18	13.73	19.44	25.35	31.42		37.61	44.13	51.41				75.32	7 / 8				
reaction time	0.211 interval		5.55	5.71	5.91	6.07		6.19	6.52	7.28						17.17	18.78		
	velocity	5.50	6.31	6.13	5.92	5.77		5.65	5.37	4.81				5.31		6.12	5.59		
H1 lead leg	R strides	26	19	19	19	19		19	20	22				163					
Liang Ruihan (CHN)	time	8.50	14.34	20.39	26.81	33.35			47.03	54.28				77.31	4 / 9				
reaction time	0.257 interval		5.84	6.05	6.42	6.54			13.68	7.25						18.31	20.22		
	velocity	5.29	5.99	5.79	5.45	5.35			5.12	4.83				5.17		5.73	5.19		
H1 lead leg	L strides	26	19	20	20	20								105					

2022 Athletissima (Lausanne, SUI) (TV Analysis)

FINAL		date	Henson (2022) - Athlete First: 2022 year end hurdle report																
		26-Aug-22	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bol, Femke (NED) (2000)	time	6.27	10.36	14.55	18.97	23.40	25.25	28.00	32.67	37.34	42.30	47.33		52.95	5 / 1				
reaction time	0.155 interval		4.09	4.19	4.42	4.43		4.60	4.67	4.67	4.96	5.03	5.62			12.70	13.70	14.66	
	velocity	7.18	8.56	8.35	7.92	7.90	7.92	7.61	7.49	7.49	7.06	6.96	7.12	7.55		8.27	7.66	7.16	
H1 lead leg	L strides	22	15	15	15	15		15	15	15	15	15	19	176					
Russell, Janieve (JAM) (1993)	time	6.40	10.53		19.17	23.56	25.35	28.13	32.93	37.67	42.70	47.87		53.92	2 / 2				
reaction time	0.167 interval		4.13		8.64	4.39		4.57	4.80	4.74	5.03	5.17	6.05			12.77	13.76	14.94	
	velocity	7.03	8.47		8.10	7.97	7.89	7.66	7.29	7.38	6.96	6.77	6.61	7.42		8.22	7.63	7.03	
H1 lead leg	R strides	23	15			15		16	16	16	17	17	20	155					
Knight, Andrenette (JAM) (1993)	time	6.16	10.14		18.56	23.02	24.86	27.57	32.30	37.16	42.30	47.76		54.33	1 / 3				
reaction time	0.148 interval		3.98		8.42	4.46		4.55	4.73	4.86	5.14	5.46	6.57			12.40	13.74	15.46	
	velocity	7.31	8.79		8.31	7.85	8.05	7.69	7.40	7.20	6.81	6.41	6.09	7.36		8.47	7.64	6.79	
H1 lead leg	R strides	22	15			15		15	16	16	16	17	20	152					
Ryzhykova, Anna (UKR) (1993)	time	6.40	10.50		19.06	23.53	25.43	28.27	33.07	37.94	43.16	48.47		54.59	3 / 4				
reaction time	0.197 interval		4.10		8.56	4.47		4.74	4.80	4.87	5.22	5.31	6.12			12.66	14.01	15.40	
	velocity	7.03	8.54		8.18	7.83	7.86	7.38	7.29	7.19	6.70	6.59	6.54	7.33		8.29	7.49	6.82	
H1 lead leg	R strides	22	14			14		15	15	15	16	16	19.2	146.2					
Woodruff, Gianna (PAN) (1993)	time	6.33	10.26		18.90	23.36	25.26	27.97	32.86	37.90	43.13	48.56		54.97	8 / 5				
reaction time	0.193 interval		3.93		8.64	4.46		4.61	4.89	5.04	5.23	5.43	6.41			12.57	13.96	15.70	

	velocity	7.11	8.91	8.10	7.85	7.92	7.59	7.16	6.94	6.69	6.45	6.24	7.28	8.35	7.52	6.69	
H1 lead leg	L	strides	23	15	15	15	15	15	16	16	17	19.5	151.5				
Tkachuk, Viktoriya (UKR) (1991)	time	6.27	10.33	18.80	23.20	25.05	27.73	32.53	37.46	42.80	48.60		55.29	7 / 6			
reaction time	0.211	interval	4.06	8.47	4.40		4.53	4.80	4.93	5.34	5.80	6.69		12.53	13.73	16.07	
	velocity	7.18	8.62	8.26	7.95	7.98	7.73	7.29	7.10	6.55	6.03	5.98	7.23	8.38	7.65	6.53	
H1 lead leg	L	strides	22	15	15	15	15	15	16	17	18	20.7	153.7				
Muhammad, Dalilah (USA) (1994)	time	6.13	10.10	14.24	18.67	23.13	25.02	27.73	32.57	37.57	43.16	49.10	56.03	4 / 7			
reaction time	0.184	interval	3.97	4.14	4.43	4.46		4.60	4.84	5.00	5.59	5.94	6.93	12.54	13.90	16.53	
	velocity	7.34	8.82	8.45	7.90	7.85	7.99	7.61	7.23	7.00	6.26	5.89	5.77	7.14	8.37	7.55	6.35
H1 lead leg	R	strides	22	14	14	15	15	15	15	15	16	17	158				
Clayton, Rushell (JAM) (1999)	time	6.36	10.53	14.76	19.13	23.57		28.13	32.88	37.90	<i>fell</i>		dnf	6 / --			
reaction time	0.161	interval	4.17	4.23	4.37	4.44		4.56	4.75	5.02				12.77	13.75		
	velocity	7.08	8.39	8.27	8.01	7.88		7.68	7.37	6.97				8.22	7.64		
H1 lead leg	R	strides	22	15	15	15	15	15	15	16			128				

2022 European Athletics Championships (Munich, GER)

FINAL

date 19-Aug-22

European Athletics (2022) - european athletics championships race analysis

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bo, Femke (NED) (2000)	time	6.35	10.42	14.56	18.81	23.12	25.04	27.61	32.22	37.08	41.89	46.88		52.67	3 / 1			
reaction time	0.279	interval	4.07	4.14	4.25	4.31		4.49	4.61	4.86	4.81	4.99	5.79	CR		12.46	13.41	14.66
	velocity	7.09	8.60	8.45	8.24	8.12	7.99	7.80	7.59	7.20	7.28	7.01	6.91	7.59		8.43	7.83	7.16
H1 lead leg	L	strides	22	15	15	15	15	15	15	15	15	15	18.7	175.7				
Tkachuk, Viktoriya (UKR) (1991)	time	6.27	10.43	14.70	18.98	23.38	25.33	27.93	32.76	37.67	42.76	48.10		54.30	7 / 2			
reaction time	0.195	interval	4.16	4.27	4.28	4.40		4.55	4.83	4.91	5.09	5.34	6.20		12.71	13.78	15.34	
	velocity	7.18	8.41	8.20	8.18	7.95	7.90	7.69	7.25	7.13	6.88	6.55	6.45	7.37		8.26	7.62	6.84
H1 lead leg	L	strides	22	15	15	15	15	15	15	15	16	16	20	149				
Ryzhykova, Anna (UKR) (1991)	time	6.46	10.52	14.75	19.10	23.61	25.61	28.31	33.14	38.15	43.27	48.59		54.86	5 / 3			
reaction time	0.250	interval	4.06	4.23	4.35	4.51		4.70	4.83	5.01	5.12	5.32	6.27		12.64	14.04	15.45	
	velocity	6.97	8.62	8.27	8.05	7.76	7.81	7.45	7.25	6.99	6.84	6.58	6.38	7.29		8.31	7.48	6.80
H1 lead leg	R	strides	22	14	14	14	15	15	15	15	15	16	19.5	145.5				
Gallego, Sara (ESP) (2000)	time	6.30	10.47	14.83	19.29	23.82	25.82	28.45	33.30	38.33	43.36	48.70		54.97	6 / 4			
reaction time	0.143	interval	4.17	4.36	4.46	4.53		4.63	4.85	5.03	5.03	5.34	6.27		12.99	14.01	15.40	
	velocity	7.14	8.39	8.03	7.85	7.73	7.75	7.56	7.22	6.96	6.96	6.55	6.38	7.28		8.08	7.49	6.82
H1 lead leg	L	strides	23	15	15	16	16	16	16	17	17	17	21.7	158.7				
luel, Amalie (NOR) (1996)	time	6.33	10.49	14.76	19.11	23.61	25.62	28.27	33.12	38.20	43.37	48.76		55.32	1 / 5			
reaction time	0.186	interval	4.16	4.27	4.35	4.50		4.66	4.85	5.08	5.17	5.39	6.56		12.78	14.01	15.64	
	velocity	7.11	8.41	8.20	8.05	7.78	7.81	7.51	7.22	6.89	6.77	6.49	6.10	7.23		8.22	7.49	6.71
H1 lead leg	L	strides	23	15	15	15	15	15	15	16	16	16	20	151				
Lehikoinen, Viivi (FIN) (1999)	time	6.45	10.66	14.92	19.28	23.73	25.69	28.38	33.34	38.57	43.74	49.16		55.58	4 / 6			
reaction time	0.291	interval	4.21	4.26	4.36	4.45		4.65	4.96	5.23	5.17	5.42	6.42		12.83	14.06	15.82	
	velocity	6.98	8.31	8.22	8.03	7.87	7.79	7.53	7.06	6.69	6.77	6.46	6.23	7.20		8.18	7.47	6.64
H1 lead leg	R	strides	25	16	16	16	16	16	17	17	17	17	20.5	193.5				
Folorunso, Ayomide (ITA) (1991)	time	6.32	10.60	14.99	19.42	23.91	25.91	28.53	33.33	38.44	43.57	49.10		55.91	2 / 7			
reaction time	0.197	interval	4.28	4.39	4.43	4.49		4.62	4.80	5.11	5.13	5.53	6.81		13.10	13.91	15.77	
	velocity	7.12	8.18	7.97	7.90	7.80	7.72	7.58	7.29	6.85	6.82	6.33	5.87	7.15		8.02	7.55	6.66
H1 lead leg	L	strides	23	15	15	15	16	16	16	16	17	17	21.5	156.5				
Krafzik, Carolina (GER) (1999)	time	6.24	10.22	14.32	18.52	22.97	24.97	27.67	32.57	37.69	42.95	48.67		56.02	8 / 8			
reaction time	0.215	interval	3.98	4.10	4.20	4.45		4.70	4.90	5.12	5.26	5.72	7.35		12.28	14.05	16.10	
	velocity	7.21	8.79	8.54	8.33	7.87	8.01	7.45	7.14	6.84	6.65	6.12	5.44	7.14		8.55	7.47	6.52
H1 lead leg	L	strides	23	15	15	15	16	16	16	17	17	19	22.5	160.5				

Semi-Final 3

date 18-Aug-22

European Athletics (2022) - european athletics championships race analysis

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bo, Femke (NED) (2000)	time	6.40	10.49	14.61	18.78	23.18	25.11	27.65	32.39	37.23	42.27	47.48		53.73	6 / 1			
reaction time	0.259	interval	4.09	4.12	4.17	4.40		4.47	4.74	4.84	5.04	5.21	6.25		12.38	13.61	15.09	
	velocity	7.03	8.56	8.50	8.39	7.95	7.96	7.83	7.38	7.23	6.94	6.72	6.40	7.44		8.48	7.71	6.96
H1 lead leg	L	strides	22	15	15	15	15	15	15	15	16	16	18.2	177.2				
Ryzhykova, Anna (UKR) (1991)	time	6.47	10.52	14.66	18.91	23.32	25.24	27.85	32.66	37.63	42.75	48.11		54.25	4 / 2			
reaction time	0.257	interval	4.05	4.14	4.25	4.41		4.53	4.81	4.97	5.12	5.36	6.14		12.44	13.75	15.45	
	velocity	6.96	8.64	8.45	8.24	7.94	7.92	7.73	7.28	7.04	6.84	6.53	6.51	7.37		8.44	7.64	6.80
H1 lead leg	R	strides	22	14	14	14	16	15	15	15	16	16	19	147				
Folorunso, Ayomide (ITA) (1991)	time	6.25	10.49	14.72	19.06	23.41	25.34	27.91	32.62	37.74	42.83	48.23		54.98	3 / 4			
reaction time	0.188	interval	4.24	4.23	4.34	4.35		4.50	4.71	5.12	5.09	5.40	6.75		12.81	13.56	15.61	
	velocity	7.20	8.25	8.27	8.06	8.05	7.89	7.78	7.43	6.84	6.88	6.48	5.93	7.28		8.20	7.74	6.73
H1 lead leg	L	strides	23	15	15	15	16	16	16	16	17	17	21.2	156.2				

Claes, Hanne (BEL) (1991)	time	6.20	10.25	14.40	18.64	23.01	24.94	27.53	32.25	37.57	42.80	48.51		55.31	5 / 4			
	reaction time	0.192	interval	4.05	4.15	4.24	4.37	4.52	4.72	5.32	5.23	5.71	6.80			12.44	13.61	16.26
	velocity	7.26	8.64	8.43	8.25	8.01	8.02	7.74	7.42	6.58	6.69	6.13	5.88	7.23		8.44	7.71	6.46
	H1 lead leg	R	strides	23	15	15	15	15	15	16	17	18	21.7	185.7				
McLean, Hayley (GBR) (1994)	time	6.29	10.56	15.05	19.69	24.37	26.41	29.16	34.12	39.20	44.37	49.92		56.20	8 / 5			
	reaction time	0.183	interval	4.27	4.49	4.64	4.68	4.79	4.96	5.08	5.17	5.55	6.28			13.40	14.43	15.80
	velocity	7.15	8.20	7.80	7.54	7.48	7.57	7.31	7.06	6.89	6.77	6.31	6.37	7.12		7.84	7.28	6.65
	H1 lead leg	L	strides	24	16	16	16	17	17	17	17	18	21.5	162.5				
Slettum, Elisabeth (NOR) (1991)	time	6.41	10.62	14.92	19.38	24.03	26.11	28.90	33.93	39.27	44.68	50.30		56.61	7 / 6			
	reaction time	0.198	interval	4.21	4.30	4.46	4.65	4.87	5.03	5.34	5.41	5.62	6.31			12.97	14.55	16.37
	velocity	7.02	8.31	8.14	7.85	7.53	7.66	7.19	6.96	6.55	6.47	6.23	6.34	7.07		8.10	7.22	6.41
	H1 lead leg	L	strides	23	15	15	15	15	15	16	16	16	20	165				
Halonen, Kristiina (FIN) (1991)	time	6.59	11.00	15.51	20.10	24.83	26.94	29.65	34.55	39.71	44.89	50.30		56.82	1 / 7			
	reaction time	0.194	interval	4.41	4.51	4.59	4.73	4.82	4.90	5.16	5.18	5.41	6.52			13.51	14.45	15.75
	velocity	6.83	7.94	7.76	7.63	7.40	7.42	7.26	7.14	6.78	6.76	6.47	6.13	7.04		7.77	7.27	6.67
	H1 lead leg	L	strides	23				16			17	17	21	94				
Giger, Yasmin (SUI) (1999)	time	6.51	10.92	15.36	20.04	24.80	26.96	29.72	34.71	40.05	45.41	50.94		57.13	2 / 8			
	reaction time	0.197	interval	4.41	4.44	4.68	4.76	4.92	4.99	5.34	5.36	5.53	6.19			13.53	14.67	16.23
	velocity	6.91	7.94	7.88	7.48	7.35	7.42	7.11	7.01	6.55	6.53	6.33	6.46	7.00		7.76	7.16	6.47
	H1 lead leg	R	strides	23	15			16			17	17	19.7	107.7				

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		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Lehikoinen, Viivi (FIN) (1999)	time	6.27	10.35	14.63	19.09	23.63	25.67	28.33	33.16	38.12	43.21	48.37		54.50	5 / 1			
	reaction time	0.204	interval	4.08	4.28	4.46	4.54	4.70	4.83	4.96	5.09	5.16	6.13	NR PB		12.82	14.07	15.21
	velocity	7.18	8.58	8.18	7.85	7.71	7.79	7.45	7.25	7.06	6.88	6.78	6.53	7.34		8.19	7.46	6.90
	H1 lead leg	R	strides	23		16	16	16	16	17	17	17	20	158				
Tkachuk, Viktoriya (UKR) (1991)	time	6.25	10.41	14.69	19.06	23.51	25.47	28.10	32.92	37.82	43.03	48.39		54.65	6 / 2			
	reaction time	0.239	interval	4.16	4.28	4.37	4.45	4.59	4.82	4.90	5.21	5.36	6.26			12.81	13.86	15.47
	velocity	7.20	8.41	8.18	8.01	7.87	7.85	7.63	7.26	7.14	6.72	6.53	6.39	7.32		8.20	7.58	6.79
	H1 lead leg	L	strides	22	15	15	15	15	15	15	16	16	20	179				
luel, Amalie (NOR) (1996)	time	6.35	10.36	14.52	18.85	23.36	25.35	28.01	32.82	37.98	43.13	48.37		54.68	4 / 3			
	reaction time	0.226	interval	4.01	4.16	4.33	4.51	4.65	4.81	5.16	5.15	5.24	6.31	PB		12.50	13.97	15.55
	velocity	7.09	8.73	8.41	8.08	7.76	7.89	7.53	7.28	6.78	6.80	6.68	6.34	7.32		8.40	7.52	6.75
	H1 lead leg	L	strides	23		15	15	15	15	16	16	16	19.2	150.2				
Knight, Jessie (GBR) (1994)	time	6.38	10.65	15.06	19.52	24.05	26.08	28.73	33.69	38.83	44.04	49.44		55.39	3 / 4			
	reaction time	0.226	interval	4.27	4.41	4.46	4.53	4.68	4.96	5.14	5.21	5.40	5.95			13.14	14.17	15.75
	velocity	7.05	8.20	7.94	7.85	7.73	7.67	7.48	7.06	6.81	6.72	6.48	6.72	7.22		7.99	7.41	6.67
	H1 lead leg	R	strides	22		15	15	15	15	16	16	16	19	133				
Jichová, Nikoleta (CZE) (2000)	time	6.28	10.49	14.95	19.45	23.99	26.01	28.70	33.92	38.94	44.14	49.51		55.48	7 / 5			
	reaction time	0.248	interval	4.21	4.46	4.50	4.54	4.71	5.22	5.02	5.20	5.37	5.97	PB		13.17	14.47	15.59
	velocity	7.17	8.31	7.85	7.78	7.71	7.69	7.43	6.70	6.97	6.73	6.52	6.70	7.21		7.97	7.26	6.74
	H1 lead leg	R	strides	22	15	15	15	15	16	16	16	17	20	167				
Couckuyt, Paulien (BEL) (1991)	time	6.23	10.30	14.56	18.86	23.31	25.36	28.05	33.06	38.37	43.90	49.45		56.14	8 / 6			
	reaction time	0.232	interval	4.07	4.26	4.30	4.45	4.74	5.01	5.31	5.53	5.55	6.69			12.63	14.20	16.39
	velocity	7.22	8.60	8.22	8.14	7.87	7.89	7.38	6.99	6.59	6.33	6.31	5.98	7.13		8.31	7.39	6.41
	H1 lead leg	L	strides	23		15	15	16	16	18	17	18	21	159				
Fahr, Annina (SUI) (1993)	time	6.41	10.74	15.26	19.75	24.40	26.50	29.17	34.18	39.42	44.83	50.52		57.07	1 / 7			
	reaction time	0.188	interval	4.33	4.52	4.49	4.65	4.77	5.01	5.24	5.41	5.69	6.55			13.34	14.43	16.34
	velocity	7.02	8.08	7.74	7.80	7.53	7.55	7.34	6.99	6.68	6.47	6.15	6.11	7.01		7.87	7.28	6.43
	H1 lead leg	L	strides	23		16	16	16			18	18	22	129				
Ledecká, Daniela (SVK) (1991)	time	6.40	10.66	15.02	19.48	24.04	26.18	28.95	34.20	39.54	45.02	50.68		57.08	2 / 8			
	reaction time	0.249	interval	4.26	4.36	4.46	4.56	4.91	5.25	5.34	5.48	5.66	6.40			13.08	14.72	16.48
	velocity	7.03	8.22	8.03	7.85	7.68	7.64	7.13	6.67	6.55	6.39	6.18	6.25	7.01		8.03	7.13	6.37
	H1 lead leg	R	strides	23		15	15	16			17	17	20	123				

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		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Gallego, Sara (ESP) (2000)	time	6.28	10.47	14.84	19.28	23.83	25.83	28.43	33.28	38.40	43.49	48.92		55.16	6 / 1			
	reaction time	0.165	interval	4.19	4.37	4.44	4.55	4.60	4.85	5.12	5.09	5.43	6.24			13.00	14.00	15.64
	velocity	7.17	8.35	8.01	7.88	7.69	7.74	7.61	7.22	6.84	6.88	6.45	6.41	7.25		8.08	7.50	6.71
	H1 lead leg	L	strides	22	15	16	16	16	16	17	17	18	21.7	190.7				
Krafzik, Carolina (GER) (1991)	time	6.16	10.16	14.29	18.58	23.02	25.01	27.66	32.57	37.79	43.15	48.78		55.29	3 / 2			
	reaction time	0.184	interval	4.00	4.13	4.29	4.44	4.64	4.91	5.22	5.36	5.63	6.51			12.42	13.99	16.21
	velocity	7.31	8.75	8.47	8.16	7.88	8.00	7.54	7.13	6.70	6.53	6.22	6.14	7.23		8.45	7.51	6.48
	H1 lead leg	L	strides	23	15	15	15	16	16	17	17	17	21	172				

Kloster, Line (NOR) (1990)	time	6.15	10.15	14.45	18.82	23.29	25.29	27.91	32.80	37.90	43.22	48.98		55.63	5 / 3			
	reaction time	0.153	interval	4.00	4.30	4.37	4.47		4.62	4.89	5.10	5.32	5.76	6.65		12.67	13.98	16.18
	velocity	7.32	8.75	8.14	8.01	7.83	7.91	7.58	7.16	6.86	6.58	6.08	6.02	7.19		8.29	7.51	6.49
	H1 lead leg	R	strides	22	15	15	15	15	15	16	16	17	20	181				
Gnafáki, Dimitra (GRE) (1997)	time	6.47	10.75	15.22	19.77	24.47	26.58	29.30	34.30	39.61	44.73	50.06		56.14	1 / 4			
	reaction time	0.206	interval	4.28	4.47	4.55	4.70		4.83	5.00	5.31	5.12	5.33	6.08		13.30	14.53	15.76
	velocity	6.96	8.18	7.83	7.69	7.45	7.52	7.25	7.00	6.59	6.84	6.57	6.58	7.13		7.89	7.23	6.66
	H1 lead leg	L	strides	23		15	16	16	17	17	17	17	20	158				
Nielsen, Lina (GBR) (1996)	time	6.39	10.60	15.01	19.71	24.30	26.39	29.14	34.17	39.47	44.91	50.68		57.19	4 / 5			
	reaction time	0.214	interval	4.21	4.41	4.70	4.59		4.84	5.03	5.30	5.44	5.77	6.51		13.32	14.46	16.51
	velocity	7.04	8.31	7.94	7.45	7.63	7.58	7.23	6.96	6.60	6.43	6.07	6.14	6.99		7.88	7.26	6.36
	H1 lead leg	L	strides	23		16	16	16	16	16	17	17	19.2	156.2				
Sartori, Rebecca (ITA) (1997)	time	6.32	10.58	14.99	19.64	24.27	26.38	29.07	34.22	39.58	45.00	50.64		57.29	7 / 6			
	reaction time	0.194	interval	4.26	4.41	4.65	4.63		4.80	5.15	5.36	5.42	5.64	6.65		13.32	14.58	16.42
	velocity	7.12	8.22	7.94	7.53	7.56	7.58	7.29	6.80	6.53	6.46	6.21	6.02	6.98		7.88	7.20	6.39
	H1 lead leg	L	strides	22		16	16	16	17	17	17	18	20.2	159.2				
Hespel, Nina (BEL) (2001)	time	6.59	10.90	15.42	19.97	24.56	26.66	29.38	34.46	39.84	45.83	51.94		59.15	2 / 7			
	reaction time	0.282	interval	4.31	4.52	4.55	4.59		4.82	5.08	5.38	5.99	6.11	7.21		13.38	14.49	17.48
	velocity	6.83	8.12	7.74	7.69	7.63	7.50	7.26	6.89	6.51	5.84	5.73	5.55	6.76		7.85	7.25	6.01
	H1 lead leg	L	strides	23		15	15	15	16	18	18	18	21.5	159.5				
Seri, Camille (FRA) (1999)	time	6.42	10.67	15.02	19.47	24.07	26.18	28.83	33.93	39.24				dnf	8 / --			
	reaction time	0.201	interval	4.25	4.35	4.45	4.60		4.76	5.10	5.31					13.05	14.46	
	velocity	7.01	8.24	8.05	7.87	7.61	7.64	7.35	6.86	6.59						8.05	7.26	
	H1 lead leg	R	strides	24		16	16	17	17	18				108				

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		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Jichová, Nikoleta (CZE) (2001)	time	6.38	10.70	15.16	19.65	24.28	26.33	28.95	33.93	39.14	44.45	49.82		55.93	1 / 1			
	reaction time	0.320	interval	4.32	4.46	4.49	4.63		4.67	4.98	5.21	5.31	5.37	6.11		13.27	14.28	15.89
	velocity	7.05	8.10	7.85	7.80	7.56	7.60	7.49	7.03	6.72	6.59	6.52	6.55	7.15		7.91	7.35	6.61
	H1 lead leg	R	strides	22	15	15	15	15	16	16	16	16	20	151				
Gnafáki, Dimitra (GRE) (1997)	time	6.57	10.85	15.15	19.70	24.38	26.52	29.27	34.31	39.55	44.90	50.26		56.45	7 / 2			
	reaction time	0.178	interval	4.28	4.30	4.55	4.68		4.89	5.04	5.24	5.35	5.36	6.19		13.13	14.61	15.95
	velocity	6.85	8.18	8.14	7.69	7.48	7.54	7.16	6.94	6.68	6.54	6.53	6.46	7.09		8.00	7.19	6.58
	H1 lead leg	L	strides	23	15	16	16	16	16	16	17	17	20.2	156.2				
McLean, Hayley (GBR) (1994)	time	6.28	10.45	14.89	19.48	24.24	26.38	29.12	34.12	39.37	44.68	50.20		56.64	8 / 3			
	reaction time	0.204	interval	4.17	4.44	4.59	4.76		4.88	5.00	5.25	5.31	5.52	6.44		13.20	14.64	16.08
	velocity	7.17	8.39	7.88	7.63	7.35	7.58	7.17	7.00	6.67	6.59	6.34	6.21	7.06		7.95	7.17	6.53
	H1 lead leg	L	strides	24	15	17	17	17	17	17	18	18	22	165				
Wender, Gisèle (GER) (2001)	time	6.80	11.26	15.59	20.05	24.70	26.80	29.50	34.54	39.96	45.30	50.80		57.09	2 / 4			
	reaction time	0.229	interval	4.46	4.33	4.46	4.65		4.80	5.04	5.42	5.34	5.50	6.29		13.25	14.49	16.26
	velocity	6.62	7.85	8.08	7.85	7.53	7.46	7.29	6.94	6.46	6.55	6.36	6.36	7.01		7.92	7.25	6.46
	H1 lead leg	R	strides	24	16	16	16	16	17	17	17	17	20.5	160.5				
Barbosa, Vera (POR) (1989)	time	6.67	11.01	15.48	20.13	24.74	26.77	29.39	34.40	39.59	44.92	50.59		57.10	6 / 5			
	reaction time	0.310	interval	4.34	4.47	4.65	4.61		4.65	5.01	5.19	5.33	5.67	6.51		13.46	14.27	16.19
	velocity	6.75	8.06	7.83	7.53	7.59	7.47	7.53	6.99	6.74	6.57	6.17	6.14	7.01		7.80	7.36	6.49
	H1 lead leg	L	strides	24	16	16	16	16	17	17	18	18	22	196				
Molnár, Janka (HUN) (2001)	time	6.58	10.84	15.11	19.64	24.34	26.49	29.16	34.17	39.51	45.03	50.94		57.38	3 / 6			
	reaction time	0.287	interval	4.26	4.27	4.53	4.70		4.82	5.01	5.34	5.52	5.91	6.44		13.06	14.53	16.77
	velocity	6.84	8.22	8.20	7.73	7.45	7.55	7.26	6.99	6.55	6.34	5.92	6.21	6.97		8.04	7.23	6.26
	H1 lead leg	L	strides	23	16	16	16	16	16	17	18	18	21	161				
Kleemeier, Marielle (EST) (1991)	time	6.37	10.68	15.02	19.51	24.22	26.33	29.05	34.24	39.65	45.21	51.10		57.46	5 / 7			
	reaction time	0.199	interval	4.31	4.34	4.49	4.71		4.83	5.19	5.41	5.56	5.89	6.36		13.14	14.73	16.86
	velocity	7.06	8.12	8.06	7.80	7.43	7.60	7.25	6.74	6.47	6.29	5.94	6.29	6.96		7.99	7.13	6.23
	H1 lead leg	R	strides	23	14	15	15	16	16	16	17	17	21	185				
Zapletalová, Emma (SVK) (2001)	time	6.49	10.62	14.86	19.19	23.77	25.82	28.54	33.74	39.18	44.92	51.12		58.65	4 / 8			
	reaction time	0.398	interval	4.13	4.24	4.33	4.58		4.77	5.20	5.44	5.74	6.20	7.53		12.70	14.55	17.38
	velocity	6.93	8.47	8.25	8.08	7.64	7.75	7.34	6.73	6.43	6.10	5.65	5.31	6.82		8.27	7.22	6.04
	H1 lead leg	R	strides	23	15	15	15	16	16	17	17	18	22	189				

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		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Krafzik, Carolina (GER) (1991)	time	6.34	10.38	14.59	18.86	23.19	25.15	27.81	32.68	37.81	42.99	48.28		54.32	4 / 1			
	reaction time	0.249	interval	4.04	4.21	4.27	4.33		4.62	4.87	5.13	5.18	5.29	6.04		12.52	13.82	15.60
	velocity	7.10	8.66	8.31	8.20	8.08	7.95	7.58	7.19	6.82	6.76	6.62	6.62	7.36		8.39	7.60	6.73

H1 lead leg	L	strides	23	15	15	15	15	16	16	17	17	17	20	186					
Giger, Yasmin (SUI) (1999)	time		6.48	10.79	15.18	19.75	24.40	26.49	29.26	34.24	39.50	44.93	50.64	56.69	3 / 2				
reaction time	0.225	interval	4.31	4.39	4.57	4.65			4.86	4.98	5.26	5.43	5.71	6.05		13.27	14.49	16.40	
		velocity	6.94	8.12	7.97	7.66	7.53	7.55	7.20	7.03	6.65	6.45	6.13	6.61	7.06		7.91	7.25	6.40
H1 lead leg	R	strides	23	15		15		16	16	16	18	17	20	156					
Ledecká, Daniela (SVK) (1996)	time		6.47	10.70	15.09	19.56	24.16	26.19	28.85	33.86	39.33	44.75	50.39	56.98	5 / 3				
reaction time	0.247	interval	4.23	4.39	4.47	4.60			4.69	5.01	5.47	5.42	5.64	6.59		13.09	14.30	16.53	
		velocity	6.96	8.27	7.97	7.83	7.61	7.64	7.46	6.99	6.40	6.46	6.21	6.07	7.02		8.02	7.34	6.35
H1 lead leg	R	strides	23	15	15	15	15	15	16	16	17	17	20.7	184.7					
Garcia, Carla (ESP) (2001)	time		6.40	10.63	15.00	19.51	24.12	26.21	29.03	34.20	39.47	44.85	50.51	57.03	7 / 4				
reaction time	0.135	interval	4.23	4.37	4.51	4.61			4.91	5.17	5.27	5.38	5.66	6.52		13.11	14.69	16.31	
		velocity	7.03	8.27	8.01	7.76	7.59	7.63	7.13	6.77	6.64	6.51	6.18	6.13	7.01		8.01	7.15	6.44
H1 lead leg	L	strides	23	15		15		16	17	17	17	18	21	159					
Olivieri, Linda (ITA) (1998)	time		6.52	10.88	15.26	19.79	24.38	26.40	29.05	34.03	39.24	44.50	50.16	57.03	1 / 5				
reaction time	0.222	interval	4.36	4.38	4.53	4.59			4.67	4.98	5.21	5.26	5.66	6.87		13.27	14.24	16.13	
		velocity	6.90	8.03	7.99	7.73	7.63	7.58	7.49	7.03	6.72	6.65	6.18	5.82	7.01		7.91	7.37	6.51
H1 lead leg	R	strides	23	15		15		15	16	16	17	17	22	156					
Pressler, Lena (AUT) (2001)	time		6.47	10.64	14.97	19.58	24.51	26.72	29.45	34.49	39.88	45.24	50.78	57.33	2 / 6				
reaction time	0.249	interval	4.17	4.33	4.61	4.93			4.94	5.04	5.39	5.36	5.54	6.55		13.11	14.91	16.29	
		velocity	6.96	8.39	8.08	7.59	7.10	7.49	7.09	6.94	6.49	6.53	6.32	6.11	6.98		8.01	7.04	6.45
H1 lead leg	L	strides	23	15		16		16	16	17	17	17	21	158					
Zupin, Agata (SLO) (1998)	time		6.28	10.63	15.07	19.69	24.38	26.46	29.16	34.14	39.38	45.08	50.96	57.42	6 / 7				
reaction time	0.183	interval	4.35	4.44	4.62	4.69			4.78	4.98	5.24	5.70	5.88	6.46		13.41	14.45	16.82	
		velocity	7.17	8.05	7.88	7.58	7.46	7.56	7.32	7.03	6.68	6.14	5.95	6.19	6.97		7.83	7.27	6.24
H1 lead leg	R	strides	22	15		15		15	15	16	17	17	19.7	151.7					
Nissen, Annemarie (DEN) (1971)	time		6.53	10.77	15.23	19.82	24.46	26.55	29.35	34.39	39.65	45.13	50.95	57.71	8 / 8				
reaction time	0.181	interval	4.24	4.46	4.59	4.64			4.89	5.04	5.26	5.48	5.82	6.76		13.29	14.57	16.56	
		velocity	6.89	8.25	7.85	7.63	7.54	7.53	7.16	6.94	6.65	6.39	6.01	5.92	6.93		7.90	7.21	6.34
H1 lead leg	L	strides	23	15		15		16	16	17	17	19	22	160					
Heat 1	date	17-Aug-22																	
			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Fahr, Annina (SUI) (1993)	time		6.42	10.83	15.35	19.83	24.56	26.63	29.30	34.10	39.20	44.46	49.83	56.16	2 / 1				
reaction time	0.178	interval	4.41	4.52	4.48	4.73			4.74	4.80	5.10	5.26	5.37	6.33	PB		13.41	14.27	15.73
		velocity	7.01	7.94	7.74	7.81	7.40	7.51	7.38	7.29	6.86	6.65	6.52	6.32	7.12		7.83	7.36	6.68
H1 lead leg	L	strides	23	16	16	16	16	16	16	16	16	17	17	21	190				
Seri, Camille (FRA) (1999)	time		6.39	10.72	15.16	19.71	24.40	26.47	29.13	34.04	39.26	44.53	49.94	56.18	6 / 2				
reaction time	0.181	interval	4.33	4.44	4.55	4.69			4.73	4.91	5.22	5.27	5.41	6.24		13.32	14.33	15.90	
		velocity	7.04	8.08	7.88	7.69	7.46	7.56	7.40	7.13	6.70	6.64	6.47	6.41	7.12		7.88	7.33	6.60
H1 lead leg	R	strides	24	16	16	16	16	16	17	17	18	18	21	179					
Sartori, Rebecca (ITA) (1997)	time		6.37	10.55	14.94	19.44	24.18	26.41	29.17	34.23	39.44	44.74	50.23	56.44	5 / 3				
reaction time	0.223	interval	4.18	4.39	4.50	4.74			4.99	5.06	5.21	5.30	5.49	6.21		13.07	14.79	16.00	
		velocity	7.06	8.37	7.97	7.78	7.38	7.57	7.01	6.92	6.72	6.60	6.38	6.44	7.09		8.03	7.10	6.56
H1 lead leg	L	strides	22	15	15	16	16	16	16	16	16	17	17	20	170				
Halonen, Kristiina (FIN) (1999)	time		6.46	10.82	15.27	19.82	24.58	26.66	29.33	34.14	39.18	44.37	49.86	56.70	1 / 4				
reaction time	0.171	interval	4.36	4.45	4.55	4.76			4.75	4.81	5.04	5.19	5.49	6.84		13.36	14.32	15.72	
		velocity	6.97	8.03	7.87	7.69	7.35	7.50	7.37	7.28	6.94	6.74	6.38	5.85	7.05		7.86	7.33	6.68
H1 lead leg	L	strides	23	15	15	15	16	16	16	16	16	17	17	21	187				
Hespel, Nina (BEL) (2001)	time		6.54	10.81	15.19	19.63	24.31	26.39	29.16	34.19	39.43	44.77	50.24	56.72	7 / 5				
reaction time	0.193	interval	4.27	4.38	4.44	4.68			4.85	5.03	5.24	5.34	5.47	6.48		13.09	14.56	16.05	
		velocity	6.88	8.20	7.99	7.88	7.48	7.58	7.22	6.96	6.68	6.55	6.40	6.17	7.05		8.02	7.21	6.54
H1 lead leg	L	strides	23	15	15	15	15	15	16	16	16	17	17	21	170				
Slettum, Elisabeth (NOR) (1971)	time		6.42	10.57	14.86	19.29	23.88	25.89	28.60	33.56	38.91	44.51	50.31	56.72	8 / 6				
reaction time	0.215	interval	4.15	4.29	4.43	4.59			4.72	4.96	5.35	5.60	5.80	6.41		12.87	14.27	16.75	
		velocity	7.01	8.43	8.16	7.90	7.63	7.72	7.42	7.06	6.54	6.25	6.03	6.24	7.05		8.16	7.36	6.27
H1 lead leg	L	strides	23	15	15	15	15	15	15	15	16	17	18	20	169				
Demes, Eileen (GER) (1997)	time		6.63	11.00	15.59	20.27	24.92	26.97	29.60	34.46	39.67	44.93	50.54	57.11	4 / 7				
reaction time	0.251	interval	4.37	4.59	4.68	4.65			4.68	4.86	5.21	5.26	5.61	6.57		13.64	14.19	16.08	
		velocity	6.79	8.01	7.63	7.48	7.53	7.42	7.48	7.20	6.72	6.65	6.24	6.09	7.00		7.70	7.40	6.53
H1 lead leg	L	strides	22	15		15		15	15	16	16	17	20	151					
Islami, Drita (MKD) (1996)	time		6.79	11.29	16.09	20.83	25.79	28.00	30.86	36.21	41.83	47.65	53.89	61.56	3 / 8				
reaction time	0.222	interval	4.50	4.80	4.74	4.96			5.07	5.35	5.62	5.82	6.24	7.67		14.04	15.38	17.68	
		velocity	6.63	7.78	7.29	7.38	7.06	7.14	6.90	6.54	6.23	6.01	5.61	5.22	6.50		7.48	6.83	5.94
H1 lead leg	R	strides	24	17	17	16	17	17	17	18	18	19	23	168					

European Athletics (2022) - european athletics championships race analysis

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

FINAL

date 10-Aug-22

Henson (2022) - Athlete First: 2022 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Clayton, Rushell (JAM) (199)	time		6.30	10.33	14.53	18.77	23.07	24.92	27.50	32.10	36.93	42.07	47.30		53.33	6 / 1				
	reaction time	0.179	interval	4.03	4.20	4.24	4.30		4.43	4.60	4.83	5.14	5.23	6.03	PB		12.47	13.33	15.20	
			velocity	7.14	8.68	8.33	8.25	8.14	8.03	7.90	7.61	7.25	6.81	6.69	6.63	7.50		8.42	7.88	6.91
	H1 lead leg	L	strides	21	15	15	15	15	15	15	16	16	17	19.7	179.7					
Russell, Janieve (JAM) (1993)	time		6.33	10.47	14.65	18.88	23.17	25.08	27.60		37.07	42.07	47.30		53.52	3 / 2				
	reaction time	0.180	interval	4.14	4.18	4.23	4.29		4.43		9.47	5.00	5.23	6.22			12.55			
			velocity	7.11	8.45	8.37	8.27	8.16	7.97	7.90		7.39	7.00	6.69	6.43	7.47		8.37		
	H1 lead leg	R	strides	23	15	15	15	15	15			16	17	20	151					
Woodruff, Gianna (PAN) (19)	time		6.30	10.33	14.53	18.83	23.33	25.28	27.86	32.53	37.40	42.47	47.73		54.13	4 / 3				
	reaction time	0.203	interval	4.03	4.20	4.30	4.50		4.53	4.67	4.87	5.07	5.26	6.40			12.53	13.70	15.20	
			velocity	7.14	8.68	8.33	8.14	7.78	7.91	7.73	7.49	7.19	6.90	6.65	6.25	7.39		8.38	7.66	6.91
	H1 lead leg	L	strides	23	15	15	15	15	15		16	16	17	19.5	166.5					
Tkachuk, Viktoriya (UKR) (19)	time		6.33	10.46	14.70	18.97	23.33	25.25	27.78	32.40	37.37	42.63	48.07		54.27	8 / 4				
	reaction time	0.253	interval	4.13	4.24	4.27	4.36		4.45	4.62	4.97	5.26	5.44	6.20			12.64	13.43	15.67	
			velocity	7.11	8.47	8.25	8.20	8.03	7.92	7.87	7.58	7.04	6.65	6.43	6.45	7.37		8.31	7.82	6.70
	H1 lead leg	L	strides	22	15	15	15	15	15	15	16	16	17	19.7	180.7					
Ryzhykova, Anna (UKR) (19)	time		6.46	10.53	14.70	19.00	23.40	25.37	28.06	32.96	37.93	43.10	48.40		54.53	5 / 5				
	reaction time	0.189	interval	4.07	4.17	4.30	4.40		4.66	4.90	4.97	5.17	5.30	6.13			12.54	13.96	15.44	
			velocity	6.97	8.60	8.39	8.14	7.95	7.88	7.51	7.14	7.04	6.77	6.60	6.53	7.34		8.37	7.52	6.80
	H1 lead leg	R	strides	22	14	14	14	14	15	15	15	15	16	19.2	158.2					
Kloster, Line (NOR) (1990)	time		6.20	10.28	14.53	18.90	23.32	25.26	27.90	32.63	37.56	42.90	48.30		54.62	7 / 6				
	reaction time	0.156	interval	4.08	4.25	4.37	4.42		4.58	4.73	4.93	5.34	5.40	6.32			12.70	13.73	15.67	
			velocity	7.26	8.58	8.24	8.01	7.92	7.64	7.40	7.10	6.55	6.48	6.33	7.32		8.27	7.65	6.70	
	H1 lead leg	R	strides	22	15	15	15	15	15	15	15	16	16	20	179					

2022 Gyulai István Memorial (Székesfehérvár, HUN) (TV Analysis)

FINAL

date 08-Aug-22

Henson (2022) - Athlete First: 2022 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin, Sydney (USA) (time)			6.24	10.27	14.36	18.63	22.96			32.16	36.86	41.63	46.30		51.68	4 / 1			
	reaction time	0.182	interval	4.03	4.09	4.27	4.33			9.20	4.70	4.77	4.67	5.38			12.39	13.53	14.14
			velocity	7.21	8.68	8.56	8.20	8.08		7.61	7.45	7.34	7.49	7.43	7.74		8.47	7.76	7.43
	H1 lead leg	R	strides	22	14	14	14	14			15	15	15	18	141				
Russell, Janieve (JAM) (1993)	time		6.43	10.53	14.73	19.09	23.45		28.07	32.76	37.63	42.67	47.93		54.14	5 / 2			
	reaction time	0.168	interval	4.10	4.20	4.36	4.36		4.62	4.69	4.87	5.04	5.26	6.21			12.66	13.67	15.17
			velocity	7.00	8.54	8.33	8.03	8.03	7.58	7.46	7.19	6.94	6.65	6.44	7.39		8.29	7.68	6.92
	H1 lead leg	R	strides	23	15	15	15	15		16	16	17	17	132					
Clayton, Rushell (JAM) (199)	time		6.36	10.53	14.90	19.33	23.93		28.56	33.33	38.26	43.30	48.43		54.45	7 / 3			
	reaction time	0.196	interval	4.17	4.37	4.43	4.60		4.63	4.77	4.93	5.04	5.13	6.02			12.97	14.00	15.10
			velocity	7.08	8.39	8.01	7.90	7.61	7.56	7.34	7.10	6.94	6.82	6.64	7.35		8.10	7.50	6.95
	H1 lead leg	L	strides	22	15	15	15	15	15		16	16	16	145					
Woodruff, Gianna (PAN) (19)	time		6.50	10.53	14.93	19.47	24.10		28.83	33.73	38.90	44.10	49.46		55.73	6 / 4			
	reaction time	0.234	interval	4.03	4.40	4.54	4.63		4.73	4.90	5.17	5.20	5.36	6.27			12.97	14.26	15.73
			velocity	6.92	8.68	7.95	7.71	7.56	7.40	7.14	6.77	6.73	6.53	6.38	7.18		8.10	7.36	6.68
	H1 lead leg	L	strides	23	15	15	15	15		15	16	16	17	147					
Molnár, Janka (HUN) (2001)	time		6.53	10.70	15.07	19.57	24.26		28.96		39.10	44.36	49.73		56.04	3 / 5			
	reaction time	0.232	interval	4.17	4.37	4.50	4.69		4.70		10.14	5.26	5.37	6.31			13.04		
			velocity	6.89	8.39	8.01	7.78	7.46	7.45		6.90	6.65	6.52	6.34	7.14		8.05		
	H1 lead leg	L	strides	23	16	16	16	16			17	17	17	121					
Barbosa, Vera (POR) (1989)	time		6.73	11.07	15.56	20.23		29.87		40.26	45.73				57.66	1 / 6			
	reaction time	0.248	interval	4.34	4.49	4.67		29.87		10.39	5.47						13.50		
			velocity	6.69	8.06	7.80	7.49		1.17		6.74	6.40			6.94		7.78		
	H1 lead leg	L	strides	24	16	16	16	16			18			106					
Ledecká, Daniela (SVK) (199)	time		6.67	10.96	15.43	19.90	24.63		29.66	34.83	40.07	45.70		57.89	8 / 7				
	reaction time	0.146	interval	4.29	4.47	4.47	4.73		5.03	5.17	5.24	5.63					13.23	14.93	
			velocity	6.75	8.16	7.83	7.83	7.40	6.96	6.77	6.68	6.22		6.91		7.94	7.03		
	H1 lead leg	R	strides	23	15	15	15	15	16	16	16	17		148					
Zapletalová, Emma (SVK) (20)	time		6.57	11.03	15.57	20.27		29.93		40.50	46.17				59.00	2 / 8			
	reaction time	0.160	interval	4.46	4.54	4.70		29.93		10.57	5.67						13.70		
			velocity	6.85	7.85	7.71	7.45		1.17		6.62	6.17		6.78		7.66			
	H1 lead leg	R	strides	23	16	16	16	16			17			104					

2022 Commonwealth Games (Birmingham, GBR) (TV Analysis)

FINAL

date 06-Aug-22

Henson (2022) - Athlete First: 2022 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Russell, Janieve (JAM) (1993)	time	6.43	10.53	14.60	19.03	23.50	25.5	28.26	32.93	37.52	42.47	47.67		54.14	7 / 1			
	reaction time	0.148	interval	4.10	4.07	4.43	4.47	4.76	4.67	4.59	4.95	5.20	6.47			12.60	13.90	14.74
	velocity	7.00	8.54	8.60	7.90	7.83	7.84	7.35	7.49	7.63	7.07	6.73	6.18	7.39		8.33	7.55	7.12
	H1 lead leg	R	strides	23	15	15	15	15	16	16	17	17	20	184				
Salmon, Shiann (JAM) (1999)	time	6.36	10.55	14.70	19.23	23.73	25.8	28.53	33.22	37.90	42.90	48.08		54.47	4 / 2			
	reaction time	0.195	interval	4.19	4.15	4.53	4.50	4.80	4.69	4.68	5.00	5.18	6.39			12.87	13.99	14.86
	velocity	7.08	8.35	8.43	7.73	7.78	7.75	7.29	7.46	7.48	7.00	6.76	6.26	7.34		8.16	7.51	7.07
	H1 lead leg	L	strides	22	15	15	15	15	15	15	16	16	19.7	178.7				
van der Walt, Zenéy (RSA) (2002)	time	6.43	10.67	14.90	19.50	24.15	26.2	29.10	33.87	38.60	43.63	48.63		54.47	6 / 3			
	reaction time	0.168	interval	4.24	4.23	4.60	4.65	4.95	4.77	4.73	5.03	5.00	5.84	PB		13.07	14.37	14.76
	velocity	7.00	8.25	8.27	7.61	7.53	7.63	7.07	7.34	7.40	6.96	7.00	6.85	7.34		8.03	7.31	7.11
	H1 lead leg	L	strides	22	15	15	15	15	15	16	16	16	19	179				
Clayton, Rushell (JAM) (1993)	time	6.36	10.46	14.40	18.63	23.00	25.0	27.77	32.43	37.20	42.40	47.83		54.67	5 / 4			
	reaction time	0.147	interval	4.10	3.94	4.23	4.37	4.77	4.66	4.77	5.20	5.43	6.84			12.27	13.80	15.40
	velocity	7.08	8.54	8.88	8.27	8.01	8.00	7.34	7.51	7.34	6.73	6.45	5.85	7.32		8.56	7.61	6.82
	H1 lead leg	L	strides	22	15	15	15	15	15	16	16	17	20	181				
Knight, Jessie (GBR) (1994)	time	6.40	10.50	14.53	18.90	23.47	25.5	28.33	33.23	38.20	43.37	48.73		55.11	8 / 5			
	reaction time	0.160	interval	4.10	4.03	4.37	4.57	4.86	4.90	4.97	5.17	5.36	6.38			12.50	14.33	15.50
	velocity	7.03	8.54	8.68	8.01	7.66	7.84	7.20	7.14	7.04	6.77	6.53	6.27	7.26		8.40	7.33	6.77
	H1 lead leg	R	strides	22	15	15	15	15	15	16	16	16	19.2	179.2				
Carli, Sarah (AUS) (1994)	time	6.47	10.50	14.60	19.07	23.63	25.6	28.57	33.53	38.50	43.80	49.23		55.82	2 / 6			
	reaction time	0.263	interval	4.03	4.10	4.47	4.56	4.94	4.96	4.97	5.30	5.43	6.59			12.60	14.46	15.70
	velocity	6.96	8.68	8.54	7.83	7.68	7.81	7.09	7.06	7.04	6.60	6.45	6.07	7.17		8.33	7.26	6.69
	H1 lead leg	L	strides	23	15	15	15	16	16	17	17	17	21	188				
Bing, Portia (NZL) (1993)	time	6.53	10.63	14.63	18.97	23.43	25.6	28.32	33.22	38.17	43.47	49.17		56.36	9 / 7			
	reaction time	0.173	interval	4.10	4.00	4.34	4.46	4.89	4.90	4.95	5.30	5.70	7.19			12.44	14.25	15.95
	velocity	6.89	8.54	8.75	8.06	7.85	7.81	7.16	7.14	7.07	6.60	6.14	5.56	7.10		8.44	7.37	6.58
	H1 lead leg	R	strides	22	14	14	14	15	15	16	16	17	20.5	161.5				
Haye-Smith, Yanique (TKS) (2002)	time	6.38	10.53	14.70	19.23	23.90	26.0	29.07	34.20	39.43	45.20			58.78	3 / 8			
	reaction time	0.170	interval	4.15	4.17	4.53	4.67	5.17	5.13	5.23	5.77					12.85	14.97	
	velocity	7.05	8.43	8.39	7.73	7.49	7.69	6.77	6.82	6.69	6.07			6.81		8.17	7.01	
	H1 lead leg	R	strides	24	16	16	16	17	17	18	18			158				

2022 Japanese National High School Championships (Naruto, JPN)**FINAL**

date 05-Aug-22

Kishima (2022) - national high school championships biomechanics data collection

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Takino, Miku (JPN) (2005)	time	6.87	11.48	16.13	21.02	26.02		31.25	36.53	41.77	47.12	52.45		58.54	6 / 1			
	reaction time	0.188	interval	4.61	4.65	4.89	5.00	5.23	5.28	5.24	5.35	5.33	6.09	PB		14.15	15.51	15.92
	velocity	6.55	7.59	7.53	7.16	7.00		6.69	6.63	6.68	6.54	6.57	6.57	6.83		7.42	6.77	6.60
	H1 lead leg	R	strides	23	16	16	16	17	17	17	17	17	20.7	192.7				
Kashiwagura, Umi (JPN) (2001)	time	6.75	11.22	15.77	20.57	25.53		30.65	35.88	41.18	46.75	52.53		59.12	7 / 2			
	reaction time		interval	4.47	4.55	4.80	4.96	5.12	5.23	5.30	5.57	5.78	6.59	PB		13.82	15.31	16.65
	velocity	6.67	7.83	7.69	7.29	7.06		6.84	6.69	6.60	6.28	6.06	6.07	6.77		7.60	6.86	6.31
	H1 lead leg	R	strides	22	16	16	17	17	17	17	18	19	23	199				
Naito, Kano (JPN) (2004)	time	6.75	11.18	15.87	20.68	25.72		30.82	36.07	41.45	46.98	52.78		59.80	5 / 3			
	reaction time	0.156	interval	4.43	4.69	4.81	5.04	5.10	5.25	5.38	5.53	5.80	7.02			13.93	15.39	16.71
	velocity	6.67	7.90	7.46	7.28	6.94		6.86	6.67	6.51	6.33	6.03	5.70	6.69		7.54	6.82	6.28
	H1 lead leg	R	strides	23	16	16	16	17	17	17	18	18	22.2	196.2				
Nakamura, Makoto (JPN) (2001)	time	6.82	11.37	16.08	21.02	26.12		31.32	36.57	42.10	47.92	53.85		60.80	3 / 4			
	reaction time	0.171	interval	4.55	4.71	4.94	5.10	5.20	5.25	5.53	5.82	5.93	6.95			14.20	15.55	17.28
	velocity	6.60	7.69	7.43	7.09	6.86		6.73	6.67	6.33	6.01	5.90	5.76	6.58		7.39	6.75	6.08
	H1 lead leg	R	strides	23	16	17	17	17	17	18	19	19	23	203				
Natsume, Saaya (JPN) (2004)	time	6.97	11.60	16.37	21.35	26.50		31.87	37.47	43.13	48.87	54.58		60.81	9 / 5			
	reaction time	0.204	interval	4.63	4.77	4.98	5.15	5.37	5.60	5.66	5.74	5.71	6.23			14.38	16.12	17.11
	velocity	6.46	7.56	7.34	7.03	6.80		6.52	6.25	6.18	6.10	6.13	6.42	6.58		7.30	6.51	6.14
	H1 lead leg	L	strides	24	17	17	17	17	19	19	19	19	185					
Ogasawara, Arisa (JPN) (2001)	time	7.20	12.00	16.87	22.07	27.33		32.60	37.90	43.27	48.73	54.27		60.83	8 / 6			
	reaction time	0.220	interval	4.80	4.87	5.20	5.26	5.27	5.30	5.37	5.46	5.54	6.56	PB		14.87	15.83	16.37
	velocity	6.25	7.29	7.19	6.73	6.65		6.64	6.60	6.52	6.41	6.32	6.10	6.58		7.06	6.63	6.41
	H1 lead leg	L	strides	24	16	16	17	17	17	17	17	17	175					
Moriwaki, Kanami (JPN) (2001)	time	6.85	11.40	16.27	21.32	26.58		32.03	37.50	42.93	48.50	54.27		60.89	1 / 7			
	reaction time	0.166	interval	4.55	4.87	5.05	5.26	5.45	5.47	5.43	5.57	5.77	6.62	PB		14.47	16.18	16.77
	velocity	6.57	7.69	7.19	6.93	6.65		6.42	6.40	6.45	6.28	6.07	6.04	6.57		7.26	6.49	6.26
	H1 lead leg	L	strides	24	16	17	17	17	17	17	17	17	22	198				

Simizu, Serina (JPN) (2005)	time	6.80	11.32	16.15	21.15	26.43		31.82	37.45	43.07	48.73	54.55		60.92	2 / 8			
	reaction time	0.291	interval	4.52	4.83	5.00	5.28	5.39	5.63	5.62	5.66	5.82	6.37	PB		14.35	16.30	17.10
	velocity	6.62	7.74	7.25	7.00	6.63		6.49	6.22	6.23	6.18	6.01	6.28	6.57		7.32	6.44	6.14
	H1 lead leg	L	strides	24	17	17	17	17	19	19	19	19	22	207				
Muramatsu, Luna (JPN) (200)	time	7.10	11.68	16.43	21.33	26.60		31.97	37.47	42.98	48.60	54.38		60.97	4 / 9			
	reaction time	0.199	interval	4.58	4.75	4.90	5.27	5.37	5.50	5.51	5.62	5.78	6.59	=PB		14.23	16.14	16.91
	velocity	6.34	7.64	7.37	7.14	6.64		6.52	6.36	6.35	6.23	6.06	6.07	6.56		7.38	6.51	6.21
	H1 lead leg	L	strides	24	16	17	17	18	17	18	18	19	19	23	206			

2022 World Athletics Championships (Eugene, OR) (TV Analysis)

FINAL

date 22-Jul-22

Henson (2022) - Athlete First: 2022 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin, Sydney (USA) (time)	6.10	10.10	14.10	18.27	22.50	24.25	26.84	31.23	35.80	40.40	45.17		50.68	5 / 1				
	reaction time	0.158	interval	4.00	4.00	4.17	4.23	4.34	4.39	4.57	4.60	4.77	5.51	WR		12.17	12.96	13.94
	velocity	7.38	8.75	8.75	8.39	8.27	8.25	8.06	7.97	7.66	7.61	7.34	7.26	7.89		8.63	8.10	7.53
	H1 lead leg	R	strides	22	14	14	14	14	14	15	15	15	18.7	169.7				
Bo, Femke (NED) (2000)	time	6.43	10.47	14.57	18.82	23.30	24.97		32.22	36.90	41.70	46.63		52.27	4 / 2			
	reaction time	0.179	interval	4.04	4.10	4.25	4.48		8.92	4.68	4.80	4.93	5.64			12.39	13.40	14.41
	velocity	7.00	8.66	8.54	8.24	7.81	8.01		7.85	7.48	7.29	7.10	7.09	7.65		8.47	7.84	7.29
	H1 lead leg	L	strides	22	15	15	15			15	15	15	19	146				
Muhammad, Dalilah (USA) (time)	6.17	10.13	14.23	18.66	23.17	25.03	27.70	32.28	37.03	42.17	47.23		53.13	6 / 3				
	reaction time	0.162	interval	3.96	4.10	4.43	4.51	4.53	4.58	4.75	5.14	5.06	5.90			12.49	13.62	14.95
	velocity	7.29	8.84	8.54	7.90	7.76	7.99	7.73	7.64	7.37	6.81	6.92	6.78	7.53		8.41	7.71	7.02
	H1 lead leg	R	strides	22	14	14	15	15	15	15	16	16		157				
Little, Shamier (USA) (1995)	time	6.33	10.53	14.73	19.17	23.68	25.52		32.96	37.67	42.60	47.77		53.76	3 / 4			
	reaction time	0.147	interval	4.20	4.20	4.44	4.51		9.28	4.71	4.93	5.17	5.99			12.84	13.79	14.81
	velocity	7.11	8.33	8.33	7.88	7.76	7.84		7.54	7.43	7.10	6.77	6.68	7.44		8.18	7.61	7.09
	H1 lead leg	R	strides	22	15	15	15			15	15	16		128				
Wilson, Britton (USA) (2000)	time	6.46	10.70	15.00	19.47	23.87	25.60		33.07	37.90	42.97	48.13		54.02	1 / 5			
	reaction time	0.141	interval	4.24	4.30	4.47	4.40		9.20	4.83	5.07	5.16	5.89			13.01	13.60	15.06
	velocity	6.97	8.25	8.14	7.83	7.95	7.81		7.61	7.25	6.90	6.78	6.79	7.40		8.07	7.72	6.97
	H1 lead leg	R	strides	23	15	15	15			15	16	16		130				
Clayton, Rushell (JAM) (199)	time	6.40	10.57	14.73	19.00	23.43	25.19		32.67	37.67	42.83	48.07		54.36	2 / 6			
	reaction time	0.145	interval	4.17	4.16	4.27	4.43		9.24	5.00	5.16	5.24	6.29			12.60	13.67	15.40
	velocity	7.03	8.39	8.41	8.20	7.90	7.94		7.58	7.00	6.78	6.68	6.36	7.36		8.33	7.68	6.82
	H1 lead leg	L	strides	22	15	15	15			16	16	16		130				
Woodruff, Gianna (PAN) (19)	time	6.43	10.63	14.83	19.30	23.88	25.81	28.46	33.30	38.07	43.20			54.75	7 / 7			
	reaction time	0.177	interval	4.20	4.20	4.47	4.58	4.58	4.84	4.77	5.13					12.87	14.00	
	velocity	7.00	8.33	8.33	7.83	7.64	7.75	7.64	7.23	7.34	6.82			7.31		8.16	7.50	
	H1 lead leg	R	strides	23	16	15	15	15	16	16	16			147				
Ryzhykova, Anna (UKR) (19)	time	6.60	10.77	14.97	19.40	23.96	25.85	28.67	33.50	38.43	43.50			54.93	8 / 8			
	reaction time	0.167	interval	4.17	4.20	4.43	4.56	4.71	4.83	4.93	5.07					12.80	14.10	
	velocity	6.82	8.39	8.33	7.90	7.68	7.74	7.43	7.25	7.10	6.90			7.28		8.20	7.45	
	H1 lead leg	R	strides	22	14	14	14	14	15	15	15			137				

Semi-Final 3

date 20-Jul-22

Henson (2022) - Athlete First: 2022 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin, Sydney (USA) (time)	6.12	10.10	14.30	18.42	22.73	24.61	27.27	31.90	36.60	41.43	46.43		52.17	6 / 1				
	reaction time	0.174	interval	3.98	4.20	4.12	4.31	4.54	4.63	4.70	4.83	5.00	5.74			12.30	13.48	14.53
	velocity	7.35	8.79	8.33	8.50	8.12	8.13	7.71	7.56	7.45	7.25	7.00	6.97	7.67		8.54	7.79	7.23
	H1 lead leg	R	strides	22	14	14	14	15	15	15	15	16	18	172				
Woodruff, Gianna (PAN) (19)	time	6.30	10.47	14.70	19.10	23.62	25.60	28.23	32.93	37.86	42.73	47.83		53.69	7 / 2			
	reaction time	0.211	interval	4.17	4.23	4.40	4.52	4.61	4.70	4.93	4.87	5.10	5.86	AR PB		12.80	13.83	14.90
	velocity	7.14	8.39	8.27	7.95	7.74	7.81	7.59	7.45	7.10	7.19	6.86	6.83	7.45		8.20	7.59	7.05
	H1 lead leg	L	strides	23	15	15	15	15	15	16	16	17	19.2	181.2				
Salmon, Shiann (JAM) (1999)	time	6.20	10.27	14.60	18.93	23.43	25.33	28.03		37.63	42.70	47.83		54.16	3 / 3			
	reaction time	0.187	interval	4.07	4.33	4.33	4.50	4.60		9.60	5.07	5.13	6.33			12.73		
	velocity	7.26	8.60	8.08	8.08	7.78	7.90	7.61		7.29	6.90	6.82	6.32	7.39		8.25		
	H1 lead leg	L	strides	22	15	15	15	15		16	16	20	149					
Tkachuk, Viktoriya (UKR) (19)	time	6.43	10.50	14.82	19.03	23.43	25.36	27.98	32.67	37.70	42.84	48.20		54.24	8 / 4			
	reaction time	0.212	interval	4.07	4.32	4.21	4.40	4.55	4.69	5.03	5.14	5.36	6.04			12.60	13.64	15.53
	velocity	7.00	8.60	8.10	8.31	7.95	7.89	7.69	7.46	6.96	6.81	6.53	6.62	7.37		8.33	7.70	6.76
	H1 lead leg	L	strides	22	15	15	15	15	15	16	16	17	20	181				
Folorunso, Ayomide (ITA) (19)	time	6.40	10.67	15.03	19.33	23.80	25.75	28.33	33.10	38.00	43.03	48.23		54.34	5 / 5			
	reaction time	0.188	interval	4.27	4.36	4.30	4.47	4.58	4.77	4.90	5.03	5.20	6.11	NR PB		12.93	13.77	15.13

	velocity	7.03	8.20	8.03	8.14	7.83	7.77	13.57	7.34	7.14	6.96	6.73	6.55	7.36	8.12	7.63	6.94
H1 lead leg	L	strides	23	15	15	15	15	16	16	17	17	20.5	169.5				
Iuel, Amalie (NOR) (1996)	time	6.33	10.40	14.67	18.93	23.43	25.37	28.10		38.00	43.23	48.60		54.81	4 / 6		
reaction time	0.123	interval	4.07	4.27	4.26	4.50		4.67		9.90	5.23	5.37	6.21		12.60		
	velocity	7.11	8.60	8.20	8.22	7.78	7.88	7.49		7.07	6.69	6.52	6.44	7.30	8.33		
H1 lead leg	L	strides	23	15	15	15	15	15		15	16	16	19	164			
Gonzalez, Melissa (COL) (1991)	time	6.40	10.53	14.93	19.23	23.67	25.60	28.35	33.27	38.30	43.63	49.00		55.13	1 / 7		
reaction time	0.143	interval	4.13	4.40	4.30	4.44		4.68	4.92	5.03	5.33	5.37	6.13		12.83	14.04	15.73
	velocity	7.03	8.47	7.95	8.14	7.88	7.81	7.48	7.11	6.96	6.57	6.52	6.53	7.26	8.18	7.48	6.68
H1 lead leg	L	strides	23	15	15	15	15	16		16	17	17	20	169			
Giger, Yasmin (SUI) (1999)	time	6.53	10.84	15.30	19.73	24.40	26.41		34.20	39.33	44.70			56.31	2 / 8		
reaction time	0.154	interval	4.31	4.46	4.43	4.67		4.80	5.13	5.37					13.20	14.47	
	velocity	6.89	8.12	7.85	7.90	7.49	7.57		7.14	6.82	6.52			7.10	7.95	7.26	
H1 lead leg	R	strides	23	15	15	15	15		16	17			116				

Semi-Final 2

date 20-Jul-22

Henson (2022) - Athlete First: 2022 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Boi, Femke (NED) (2000)	time	6.30	10.27	14.50	18.73	23.17	25.15	27.77	32.47	37.20	42.13	47.17		52.84	3 / 1			
reaction time	0.171	interval	3.97	4.23	4.23	4.44		4.60	4.70	4.73	4.93	5.04	5.67			12.43	13.74	14.70
	velocity	7.14	8.82	8.27	8.27	7.88	7.95	7.61	7.45	7.40	7.10	6.94	7.05	7.57		8.45	7.64	7.14
H1 lead leg	L	strides	22	15	15	15	15	15	15	15	15	15	18	175				
Little, Shamier (USA) (1995)	time	6.17	10.26	14.53	18.80	23.33	25.43	27.93	32.73	37.60	42.63	47.77		53.61	6 / 2			
reaction time	0.178	interval	4.09	4.27	4.27	4.53		4.60	4.80	4.87	5.03	5.14	5.84			12.63	13.93	15.04
	velocity	7.29	8.56	8.20	8.20	7.73	7.86	7.61	7.29	7.19	6.96	6.81	6.85	7.46		8.31	7.54	6.98
H1 lead leg	R	strides	23	15	15	15	15	15	15	15	16	16	19.2	179.2				
Clayton, Rushell (JAM) (1991)	time	6.20	10.27	14.40	18.60	23.04	25.07	27.57	32.30	37.10	42.27	47.40		53.63	8 / 3			
reaction time	0.169	interval	4.07	4.13	4.20	4.44		4.53	4.73	4.80	5.17	5.13	6.23	PB		12.40	13.70	15.10
	velocity	7.26	8.60	8.47	8.33	7.88	7.98	7.73	7.40	7.29	6.77	6.82	6.42	7.46		8.47	7.66	6.95
H1 lead leg	L	strides	22	14	14	15	15	15	15	15	16	16	19.2	176.2				
Wilson, Britton (USA) (2000)	time	6.47	10.70	15.07	19.40	24.00	26.19	28.67	33.33	38.10	42.93	47.97		53.72	5 / 4			
reaction time	0.159	interval	4.23	4.37	4.33	4.60		4.67	4.66	4.77	4.83	5.04	5.75			12.93	13.93	14.64
	velocity	6.96	8.27	8.01	8.08	7.61	7.64	7.49	7.51	7.34	7.25	6.94	6.96	7.45		8.12	7.54	7.17
H1 lead leg	R	strides	23	15	15	15	15	15	15	15	15	16	18.2	177.2				
Gallego, Sara (ESP) (2000)	time	6.27	10.40	14.87	19.33	23.92	25.94	28.53	33.30	38.20	43.18	48.37		54.49	7 / 5			
reaction time	0.136	interval	4.13	4.47	4.46	4.59		4.61	4.77	4.90	4.98	5.19	6.12			13.06	13.97	15.07
	velocity	7.18	8.47	7.83	7.85	7.63	7.71	7.59	7.34	7.14	7.03	6.74	6.54	7.34		8.04	7.52	6.97
H1 lead leg	L	strides	24	15	16	16	16	16	16	17	17	17	21	174				
Lehikoinen, Viivi (FIN) (1999)	time	6.27	10.30	14.60	18.97	23.57	25.75	28.30	33.10	38.10	43.20	48.40		54.60	4 / 6			
reaction time	0.168	interval	4.03	4.30	4.37	4.60		4.73	4.80	5.00	5.10	5.20	6.20	NR PB		12.70	14.13	15.30
	velocity	7.18	8.68	8.14	8.01	7.61	7.77	7.40	7.29	7.00	6.86	6.73	6.45	7.33		8.27	7.43	6.86
H1 lead leg	R	strides	23	15	15	16	16	16	16	17	17	17	20.2	187.2				
Knight, Jessie (GBR) (1994)	time	6.37	10.60	15.07	19.50	24.10	26.19	28.90	33.73	38.80		49.40		55.39	2 / 7			
reaction time	0.148	interval	4.23	4.47	4.43	4.60		4.80	4.83	5.07		10.60	5.99			13.13	14.23	15.67
	velocity	7.06	8.27	7.83	7.90	7.61	7.64	7.29	7.25	6.90		6.60	6.68	7.22		8.00	7.38	6.70
H1 lead leg	R	strides	22	15	15	15	15	15	15	15		19	146					
Olivieri, Linda (ITA) (1998)	time	6.40	10.70	15.10	19.57	24.20	26.32	29.03	33.97	39.00		49.57		56.04	1 / 8			
reaction time	0.135	interval	4.30	4.40	4.47	4.63		4.83	4.94	5.03		10.57	6.47			13.17	14.40	15.60
	velocity	7.03	8.14	7.95	7.83	7.56	7.60	7.25	7.09	6.96		6.62	6.18	7.14		7.97	7.29	6.73
H1 lead leg	R	strides	23	15	15	15	15	15	16	16		130						

Semi-Final 1

date 20-Jul-22

Henson (2022) - Athlete First: 2022 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Muhammad, Dalilah (USA) (2000)	time	6.06	10.06	14.26	18.53	23.07	25.20	27.77	32.47	37.27	42.10	47.26		53.28	4 / 1			
reaction time	0.224	interval	4.00	4.20	4.27	4.54		4.70	4.70	4.80	4.83	5.16	6.02			12.47	13.94	14.79
	velocity	7.43	8.75	8.33	8.20	7.71	7.94	7.45	7.45	7.29	7.25	6.78	6.64	7.51		8.42	7.53	7.10
H1 lead leg	R	strides	22	15	15	15	15	15	15	15	15	16	19	177				
Ryzhykova, Anna (UKR) (1991)	time	6.46	10.66	14.97	19.33	23.90	26.03	28.70	33.47	38.37	43.34	48.47		54.51	5 / 2			
reaction time	0.175	interval	4.20	4.31	4.36	4.57		4.80	4.77	4.90	4.97	5.13	6.04			12.87	14.14	15.00
	velocity	6.97	8.33	8.12	8.03	7.66	7.68	7.29	7.34	7.14	7.04	6.82	6.62	7.34		8.16	7.43	7.00
H1 lead leg	R	strides	22	14	14	14	14	15	15	15	15	15	19	172				
Russell, Janieve (JAM) (1993)	time	6.33	10.53	14.93	19.30	23.87	25.99	28.60	33.38	38.30	43.30	48.50		54.66	6 / 3			
reaction time	0.130	interval	4.20	4.40	4.37	4.57		4.73	4.78	4.92	5.00	5.20	6.16			12.97	14.08	15.12
	velocity	7.11	8.33	7.95	8.01	7.66	7.70	7.40	7.32	7.11	7.00	6.73	6.49	7.32		8.10	7.46	6.94
H1 lead leg	R	strides	23	15	15	15	15	16	16	16	16	17	20	184				
van der Walt, Zenéy (RSA) (2000)	time	6.33	10.60	14.97	19.30	23.76	25.80	28.47	33.40	38.37	43.47	48.73		54.81	3 / 4			

reaction time	0.162	interval		4.27	4.37	4.33	4.46		4.71	4.93	4.97	5.10	5.26	6.08	PB	12.97	14.10	15.33
		velocity	7.11	8.20	8.01	8.08	7.85	7.75	7.43	7.10	7.04	6.86	6.65	6.58	7.30	8.10	7.45	6.85
H1 lead leg	L	strides	22	15	15	15	15		15	16	16	16	16	19.7	180.7			
Couckuyt, Paulien (BEL) (19	time	6.30	10.33	14.63	18.90	23.36	25.42	28.13	32.93	38.20	43.50	48.96			55.42	8 / 5		
reaction time	0.201	interval		4.03	4.30	4.27	4.46		4.77	4.80	5.27	5.30	5.46	6.46		12.60	14.03	16.03
		velocity	7.14	8.68	8.14	8.20	7.85	7.87	7.34	7.29	6.64	6.60	6.41	6.19	7.22	8.33	7.48	6.55
H1 lead leg	L	strides	23	15	15	15	15		16	16	17	17	17	21	187			
Bing, Portia (NZL) (1993)	time	6.57	10.83	15.30	19.66	24.16	26.21	28.90		38.76	43.94	49.32			55.53	1 / 6		
reaction time	0.191	interval		4.26	4.47	4.36	4.50		4.74		9.86	5.18	5.38	6.21		13.09		
		velocity	6.85	8.22	7.83	8.03	7.78	7.63	7.38		7.10	6.76	6.51	6.44	7.20	8.02		
H1 lead leg	R	strides	22	14	14	14	14		15		16	16	19	144				
Carli, Sarah (AUS) (1994)	time	6.40	10.66	15.10	19.53	24.17	26.39	29.13	34.10	39.16	44.36	49.63			55.57	7 / 7		
reaction time	0.257	interval		4.26	4.44	4.43	4.64		4.96	4.97	5.06	5.20	5.27	5.94		13.13	14.57	15.53
		velocity	7.03	8.22	7.88	7.90	7.54	7.58	7.06	7.04	6.92	6.73	6.64	6.73	7.20	8.00	7.21	6.76
H1 lead leg	L	strides	23	15	15	15	16		16	16	17	17	17	19.7	186.7			
Sartori, Rebecca (ITA) (1997)	time	6.38	10.60	15.06	19.40	24.00	26.10	28.92	33.93	39.20	44.53	49.86			55.90	2 / 8		
reaction time	0.199	interval		4.22	4.46	4.34	4.60		4.92	5.01	5.27	5.33	6.04			13.02	14.53	15.93
		velocity	7.05	8.29	7.85	8.06	7.61	7.66	7.11	6.99	6.64	6.57	6.57	6.62	7.16	8.06	7.23	6.59
H1 lead leg	L	strides	22	15	15	15	15		16		17	17	17	19.5	168.5			

Heat 5

date 19-Jul-22

Henson (2022) - Athlete First: 2022 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wilson, Britton (USA) (2000)	time	6.56	10.80	15.20	19.56	24.12	25.98	28.77		38.50	43.66	48.80			54.54	4 / 1			
reaction time	0.154	interval		4.24	4.40	4.36	4.56		4.65		9.73	5.16	5.14	5.74			13.00		
		velocity	6.86	8.25	7.95	8.03	7.68	7.70	7.53		7.19	6.78	6.81	6.97	7.33	8.08			
H1 lead leg	R	strides	23	15	15	15	15		15		16	16	18	148					
Folorunso, Ayomide (ITA) (19	time	6.53	10.87	15.33	19.80	24.33	26.22	29.00	33.76	38.67	43.67	48.83			54.69	5 / 2			
reaction time	0.176	interval		4.34	4.46	4.47	4.53		4.67	4.76	4.91	5.00	5.16	5.86			13.27	13.96	15.07
		velocity	6.89	8.06	7.85	7.83	7.73	7.63	7.49	7.35	7.13	7.00	6.78	6.83	7.31	7.91	7.52	6.97	
H1 lead leg	L	strides	23	15	15	15	15		15		16	17	17	20	168				
luel, Amalie (NOR) (1996)	time	6.50	10.67	14.93	19.30	23.80	25.73	28.53	33.33	38.30	43.46	48.73			54.70	7 / 3			
reaction time	0.140	interval		4.17	4.26	4.37	4.50		4.73	4.80	4.97	5.16	5.27	5.97	PB		12.80	14.03	15.40
		velocity	6.92	8.39	8.22	8.01	7.78	7.77	7.40	7.29	7.04	6.78	6.64	6.70	7.31	8.20	7.48	6.82	
H1 lead leg	L	strides	23	15	15	15	15		15	15	15	16	16	19	179				
Clayton, Rushell (JAM) (199)	time	6.40	10.53	14.77	19.07	23.50	25.27	28.06		37.96	43.30	48.74			54.99	2 / 4			
reaction time	0.157	interval		4.13	4.24	4.30	4.43		4.56		9.90	5.34	5.44	6.25			12.67		
		velocity	7.03	8.47	8.25	8.14	7.90	7.91	7.68		7.07	6.55	6.43	6.40	7.27	8.29			
H1 lead leg	L	strides	22	15	15	15	15		15		17	17	19.5	150.5					

Heat 4

date 19-Jul-22

Henson (2022) - Athlete First: 2022 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Muhammad, Dalilah (USA) (19	time	6.26	10.43	14.76	19.17	23.76	25.73	28.48	33.30	38.36	43.50	48.70			54.45	3 / 1			
reaction time	0.169	interval		4.17	4.33	4.41	4.59		4.72	4.82	5.06	5.14	5.20	5.75			12.91	14.13	15.40
		velocity	7.19	8.39	8.08	7.94	7.63	7.77	7.42	7.26	6.92	6.81	6.73	6.96	7.35	8.13	7.43	6.82	
H1 lead leg	R	strides	22	15	15	15	15		15	15	16	16	16	19	1679				
Salmon, Shiann (JAM) (1999)	time	6.30		14.83	19.33	24.03	26.00		33.76	38.67	43.70	48.80			54.91	2 / 2			
reaction time	0.176	interval		8.53	4.50	4.70			9.73	4.91	5.03	5.10	6.11				13.03	14.43	15.04
		velocity	7.14	8.21	7.78	7.45	7.69		7.19	7.13	6.96	6.86	6.55	7.28	8.06	7.28	6.98		
H1 lead leg	L	strides	22		15	15			16	16	16	16	19.7	119.7					
Carli, Sarah (AUS) (1994)	time	6.53	10.90	15.43	19.93	24.73	26.74		34.50	39.53	44.70	49.90			55.89	4 / 3			
reaction time	0.279	interval		4.37	4.53	4.50	4.80		9.77	5.03	5.17	5.20	5.99				13.40	14.57	15.40
		velocity	6.89	8.01	7.73	7.78	7.29	7.48	7.16	6.96	6.77	6.73	6.68	7.16	7.84	7.21	6.82		
H1 lead leg	L	strides	23	15	15	15	16		16	17	17	17	19.2	153.2					
Gonzalez, Melissa (COL) (199	time	6.57	10.90	15.23	19.60	24.30	26.20	29.13	34.10	39.36	44.73	50.00			56.24	5 / 4			
reaction time	0.143	interval		4.33	4.33	4.37	4.70		4.83	4.97	5.26	5.37	5.27	6.24			13.03	14.50	15.90
		velocity	6.85	8.08	8.08	8.01	7.45	7.63	7.25	7.04	6.65	6.52	6.64	6.41	7.11	8.06	7.24	6.60	
H1 lead leg	L	strides	23	15	15	15	16		16	16	17	17	17	20	187				

Heat 3

date 19-Jul-22

Henson (2022) - Athlete First: 2022 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Boi, Femke (NED) (2000)	time	6.26	10.36	14.50	18.66	22.93	24.95	27.46	32.10	36.93	42.17	47.47			53.90	8 / 1			
reaction time	0.191	interval		4.10	4.14	4.16	4.27		4.53	4.64	4.83	5.24	5.30	6.43			12.40	13.44	15.37
		velocity	7.19	8.54	8.45	8.41	8.20	8.02	7.73	7.54	7.25	6.68	6.60	6.22	7.42	8.47	7.81	6.83	
H1 lead leg	L	strides	22	15	15	15	15		15	15	15	16	16	18.7	177.7				
van der Walt, Zenéy (RSA) (19	time	6.20	10.56	14.97	19.36	23.97	26.11	28.73	33.63	38.67	43.97	49.20			55.05	7 / 2			
reaction time	0.160	interval		4.36	4.41	4.39	4.61		4.76	4.90	5.04	5.30	5.23	5.85			13.16	14.27	15.57
		velocity	7.26	8.03	7.94	7.97	7.59	7.66	7.35	7.14	6.94	6.60	6.69	6.84	7.27	7.98	7.36	6.74	

H1 lead leg	L	strides	22	15	15	15	15	15	15	15	16	16	16	19	179				
Woodruff, Gianna (PAN) (19)	time		6.33	10.46	14.73	19.07	23.53	25.56	28.10	32.96	37.97	43.27	48.70		55.21	6 / 3			
reaction time	0.185	interval		4.13	4.27	4.34	4.46		4.57	4.86	5.01	5.30	5.43	6.51			12.74	13.89	15.74
		velocity	7.11	8.47	8.20	8.06	7.85	7.82	7.66	7.20	6.99	6.60	6.45	6.14	7.25		8.24	7.56	6.67
H1 lead leg	L	strides	23	15	15	15	15		15	16	16	17	17	20	184				
Knight, Jessie (GBR) (1994)	time		6.33		15.00	19.40	23.93	25.89	28.70	33.70	38.90	44.20	49.57		55.48	2 / 4			
reaction time	0.144	interval			8.67	4.40	4.53		4.77	5.00	5.20	5.30	5.37	5.91			13.07	14.30	15.87
		velocity	7.11		8.07	7.95	7.73	7.72	7.34	7.00	6.73	6.60	6.52	6.77	7.21		8.03	7.34	6.62
H1 lead leg	R	strides				15	15		15	15	15	16	16	19	126				

Heat 2

date 19-Jul-22

Henson (2022) - Athlete First: 2022 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Russell, Janieve (JAM) (1993)	time		6.50	10.76	15.10	19.50	23.97	25.99	28.63	33.43	38.30	43.26	48.41		54.52	5 / 1			
reaction time	0.124	interval		4.26	4.34	4.40	4.47		4.66	4.80	4.87	4.96	5.15	6.11			13.00	13.93	14.98
		velocity	6.92	8.22	8.06	7.95	7.83	7.70	7.51	7.29	7.19	7.06	6.80	6.55	7.34		8.08	7.54	7.01
H1 lead leg	R	strides	23	15	15	15	15		15	16	16	16	16	19.5	181.5				
Little, Shamier (USA) (1995)	time		6.33	10.43	14.63	18.97	23.50	25.53	28.17		38.03	43.27	48.63		54.77	8 / 2			
reaction time	0.165	interval		4.10	4.20	4.34	4.53		4.67		9.86	5.24	5.36	6.14			12.64		
		velocity	7.11	8.54	8.33	8.06	7.73	7.83	7.49		7.10	6.68	6.53	6.51	7.30		8.31		
H1 lead leg	R	strides	23	15	15	15	15		15			16	16	19	149				
Lehikoinen, Viivi (FIN) (1999)	time		6.33	10.50	14.72	19.07	23.56	25.58	28.30		38.30	43.46	48.73		54.95	3 / 3			
reaction time	0.165	interval		4.17	4.22	4.35	4.49		4.74		10.00	5.16	5.27	6.22			12.74		
		velocity	7.11	8.39	8.29	8.05	7.80	7.82	7.38		7.00	6.78	6.64	6.43	7.28		8.24		
H1 lead leg	R	strides	23	15	15	15	16		16			17	17	20.2	154.2				
Tkachuk, Viktoriya (UKR) (19)	time		6.40	10.63	14.96	19.37	23.90	25.96	28.65		38.70	44.03	49.33		55.27	2 / 4			
reaction time	0.199	interval		4.23	4.33	4.41	4.53		4.75		10.05	5.33	5.30	5.94			12.97		
		velocity	7.03	8.27	8.08	7.94	7.73	7.70	7.37		6.97	6.57	6.60	6.73	7.24		8.10		
H1 lead leg	L	strides			15	15	15	15	15			17	17	19.2	128.2				

Heat 1

date 19-Jul-22

Henson (2022) - Athlete First: 2022 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin, Sydney (USA) (2000)	time		6.40	10.43	14.83	19.12	23.60	25.48	28.36		38.03	43.20	48.30		53.95	8 / 1			
reaction time	0.168	interval		4.03	4.40	4.29	4.48		4.76		9.67	5.17	5.10	5.65			12.72		
		velocity	7.03	8.68	7.95	8.16	7.81	7.85	7.35		7.24	6.77	6.86	7.08	7.41		8.25		
H1 lead leg	R	strides	22	14	14	14	14		15			16	16	143					
Ryzhykova, Anna (UKR) (19)	time		6.63	10.83	15.13	19.40	23.90	25.73	28.63		38.56	43.60	48.93		54.93	2 / 2			
reaction time	0.139	interval		4.20	4.30	4.27	4.50		4.73		9.93	5.04	5.33	6.00			12.77		
		velocity	6.79	8.33	8.14	8.20	7.78	7.77	7.40		7.05	6.94	6.57	6.67	7.28		8.22		
H1 lead leg	R	strides	22	14	14	14	14		15			15	15	19.2	142.2				
Gallego, Sara (ESP) (2000)	time		6.50	10.70	15.03	19.53	24.20	26.08	28.90	33.70	38.70	43.76	48.96		55.09	7 / 3			
reaction time	0.125	interval		4.20	4.33	4.50	4.67		4.70	4.80	5.00	5.06	5.20	6.13			13.03	14.17	15.26
		velocity	6.92	8.33	8.08	7.78	7.49	7.67	7.45	7.29	7.00	6.92	6.73	6.53	7.26		8.06	7.41	6.88
H1 lead leg	L	strides	23	15	16	16	16		16	16	17	17	17	20.2	189.2				
Couckuyt, Paulien (BEL) (19)	time		6.40	10.53	14.80	19.03	23.50	25.35	28.30	33.17	38.37	43.70	49.13		55.42	5 / 4			
reaction time	0.168	interval		4.13	4.27	4.23	4.47		4.80	4.87	5.20	5.33	5.43	6.29			12.63	14.14	15.96
		velocity	7.03	8.47	8.20	8.27	7.83	7.89	7.29	7.19	6.73	6.57	6.45	6.36	7.22		8.31	7.43	6.58
H1 lead leg	L	strides	23	15	15	15	15		16	16	17	17	17	21	187				

2022 Bauhaus Galan (Stockholm, SWE) (TV Analysis)

FINAL

date 30-Jun-22

Henson (2022) - Athlete First: 2022 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bo, Femke (NED) (2000)	time		6.36	10.38	14.46	18.64	22.94	24.75	27.42	32.02	36.70	41.48	46.40		52.27	6 / 1			
reaction time	0.203	interval		4.02	4.08	4.18	4.30		4.48	4.60	4.68	4.78	4.92	5.87			12.28	13.38	14.38
		velocity	7.08	8.71	8.58	8.37	8.14	8.08	7.81	7.61	7.48	7.32	7.11	6.81	7.65		8.55	7.85	7.30
H1 lead leg	L	strides	22	15	15	15	15		15	15	15	15	15	19	176				
Clayton, Rushell (JAM) (199)	time		6.46	10.68	14.84	19.08	23.44	25.32	27.96	32.66	37.58	42.58	47.80		53.90	7 / 2			
reaction time	0.143	interval		4.22	4.16	4.24	4.36		4.52	4.70	4.92	5.00	5.22	6.10			12.62	13.58	15.14
		velocity	6.97	8.29	8.41	8.25	8.03	7.90	7.74	7.45	7.11	7.00	6.70	6.56	7.42		8.32	7.73	6.94
H1 lead leg	L	strides	23	15	15	15	15		15	16	16	16	16	19.7	181.7				
Ryzhykova, Anna (UKR) (19)	time		6.44	10.56	14.72	19.08	23.54	25.44	28.20	32.98	37.86	42.88	48.26		54.33	4 / 3			
reaction time	0.165	interval		4.12	4.16	4.36	4.46		4.66	4.78	4.88	5.02	5.38	6.07			12.64	13.90	15.28
		velocity	6.99	8.50	8.41	8.03	7.85	7.86	7.51	7.32	7.17	6.97	6.51	6.59	7.36		8.31	7.55	6.87
H1 lead leg	R	strides	22	14	14	14	14		15	15	15	15	16	19	173				
Folorunso, Ayomide (ITA) (19)	time		6.62	10.96	15.38	19.86	24.32	26.24	28.94	33.66	38.50	43.52	48.66		54.66	3 / 4			
reaction time	0.192	interval		4.34	4.42	4.48	4.46		4.62	4.72	4.84	5.02	5.14	6.00			13.24	13.80	15.00
		velocity	6.80	8.06	7.92	7.81	7.85	7.62	7.58	7.42	7.23	6.97	6.81	6.67	7.32		7.93	7.61	7.00
H1 lead leg	L	strides	23	15	15	15	15		16	16	16	17	17	20.2	185.2				

Tkachuk, Viktoriya (UKR) (1994)	time	6.46	10.64	14.88	19.22	23.64	25.56	28.20	32.90	37.84	43.06	48.50	54.72	8 / 5			
reaction time	interval		4.18	4.24	4.34	4.42		4.56	4.70	4.94	5.22	5.44	6.22		12.76	13.68	15.60
	velocity	6.97	8.37	8.25	8.06	7.92	7.82	7.68	7.45	7.09	6.70	6.43	6.43	7.31	8.23	7.68	6.73
H1 lead leg	L strides	22	15	15	15	15		15	15	16	16	17	20	181			
Lehikoinen, Viivi (FIN) (1999)	time	6.40	10.60	14.84	19.18	23.66	25.58	28.36	33.20	38.22	43.36	48.64	54.80	2 / 6			
reaction time	interval		4.20	4.24	4.34	4.48		4.70	4.84	5.02	5.14	5.28	6.16		12.78	14.02	15.44
	velocity	7.03	8.33	8.25	8.06	7.81	7.82	7.45	7.23	6.97	6.81	6.63	6.49	7.30	8.22	7.49	6.80
H1 lead leg	L strides	24	16	16	16	16		16	16	16	17	17	20.5	190.5			
Knight, Jessie (GBR) (1994)	time	6.44	10.68	14.98	19.36	23.88	25.76	28.58	33.56	38.62	43.80	49.04	54.89	5 / 7			
reaction time	interval		4.24	4.30	4.38	4.52		4.70	4.98	5.06	5.18	5.24	5.85		12.92	14.20	15.48
	velocity	6.99	8.25	8.14	7.99	7.74	7.76	7.45	7.03	6.92	6.76	6.68	6.84	7.29	8.13	7.39	6.78
H1 lead leg	R strides	22	15	15	15	15		15	15	15	16	16	19	178			
Tate, Cassandra (USA) (1990)	time	6.34	10.46	14.68	19.10	23.68	25.63	28.52	33.42	38.58	44.00	49.76	56.68	1 / 8			
reaction time	interval		4.12	4.22	4.42	4.58		4.84	4.90	5.16	5.42	5.76	6.92		12.76	14.32	16.34
	velocity	7.10	8.50	8.29	7.92	7.64	7.80	7.23	7.14	6.78	6.46	6.08	5.78	7.06	8.23	7.33	6.43
H1 lead leg	L strides	22	14	14	14	14		15	15	16	16	17	20	177			

2022 USATF National Championships (Eugene, OR)

USATF (2022) - Results powered by Karmarush

FINAL

date 25-Jun-22

Henson (2022) - Athlete First: 2022 year end hurdle report (TV Analysis)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin, Sydney (USA) (2000)	time	6.20	10.14	14.21	18.48	22.85	24.63	27.36	31.89	36.53	41.31	46.08		51.41	5 / 1			Henson (2022)
reaction time	interval		3.94	4.07	4.27	4.37		4.51	4.53	4.64	4.78	4.77	5.33	WR		12.28	13.41	14.19
	velocity	7.26	8.88	8.60	8.20	8.01	8.12	7.76	7.73	7.54	7.32	7.34	7.50	7.78		8.55	7.83	7.40
H1 lead leg	R strides	22	14	14	14	14		14	14	14	15	15	18.2	168.2				
Wilson, Britton (USA) (2000)	time	6.57	10.57	14.75	19.01	23.42	25.14	27.96	32.53	37.20	42.14	47.38		53.08	6 / 2			Henson (2022)
reaction time	interval		4.00	4.18	4.26	4.41		4.54	4.57	4.67	4.94	5.24	5.70	PB		12.44	13.52	14.85
	velocity	6.85	8.75	8.37	8.22	7.94	7.96	7.71	7.66	7.49	7.09	6.68	7.02	7.54		8.44	7.77	7.07
H1 lead leg	R strides	23	15	15	15	15		15	15	15	16	16	160					
Little, Shamier (USA) (1995)	time	6.31	10.37	14.55	18.94	23.44	25.44	28.03	32.56	37.27	42.29	47.61	53.94	53.92	8 / 3			USATF (2022)
reaction time	interval		4.06	4.18	4.39	4.50		4.59	4.53	4.71	5.02	5.32	6.31			12.63	13.62	15.05
	velocity	7.13	8.62	8.37	7.97	7.78	7.86	7.63	7.73	7.43	6.97	6.58	6.34	7.42		8.31	7.71	6.98
H1 lead leg	R strides	23	15	15	15	15		15	15	15	16		144					
Cockrell, Anna (USA) (1997)	time	6.17	10.08	14.21	18.52	23.05	25.07	27.67	32.27	37.31	42.44	47.73	54.03	53.98	7 / 4			USATF (2022)
reaction time	interval		3.91	4.13	4.31	4.53		4.62	4.60	5.04	5.13	5.29	6.25			12.35	13.75	15.46
	velocity	7.29	8.95	8.47	8.12	7.73	7.98	7.58	7.61	6.94	6.82	6.62	6.40	7.41		8.50	7.64	6.79
H1 lead leg	L strides	22	14	14	15	15		15	16	15	16		142					
Meisberger, Shannon (USA) (2000)	time	6.42	10.46	14.57	18.86	23.27	25.34	28.03	32.89	38.21	43.67	49.67	55.42	55.39	9 / 5			USATF (2022)
reaction time	interval		4.04	4.11	4.29	4.41		4.76	4.86	5.32	5.46	6.00	5.72	PB		12.44	14.03	16.78
	velocity	7.01	8.67	8.52	8.16	7.94	7.89	7.35	7.20	6.58	6.41	5.83	6.99	7.22		8.44	7.48	6.26
H1 lead leg	L strides	22	15	15	15	15		16	16	16			130					
Russell, Masai (USA) (2000)	time	6.40	10.59	14.92	19.41	24.08	26.17	28.89	33.79	38.84	44.00	49.32	55.66	55.66	4 / 6			USATF (2022)
reaction time	interval		4.19	4.33	4.49	4.67		4.81	4.90	5.05	5.16	5.32	6.34			13.01	14.38	15.53
	velocity	7.03	8.35	8.08	7.80	7.49	7.64	7.28	7.14	6.93	6.78	6.58	6.31	7.19		8.07	7.30	6.76
H1 lead leg	R strides	24	16	16	16	16		17	17	17			139					
Hoffman, Lauren (USA) (1995)	time	6.44	10.45	14.58	18.81	23.37	25.47	28.13	33.03	38.27	43.78	49.36	56.00	56.00	2 / 7			USATF (2022)
reaction time	interval		4.01	4.13	4.23	4.56		4.76	4.90	5.24	5.51	5.58	6.64			12.37	14.22	16.33
	velocity	6.99	8.73	8.47	8.27	7.68	7.85	7.35	7.14	6.68	6.35	6.27	6.02	7.14		8.49	7.38	6.43
H1 lead leg	L strides	23	15	15	15	16		16	17	18			135					
Spencer, Ashley (USA) (1993)	time	6.67												dnf	3 / --			Henson (2022)
reaction time	interval																	
	velocity	6.75																
H1 lead leg	R strides	23												23				

USATF (2022) - Results powered by Karmarush

Semi-Final 2

date 24-Jun-22

Henson (2022) - Athlete First: 2022 year end hurdle report (TV Analysis)

Wilson, Britton (USA) (2000)	time	6.70	10.96	15.40	19.93	24.70	26.66	29.50	34.36	39.40	44.43	49.56		55.32	6 / 1			Henson (2022)
reaction time	interval		4.26	4.44	4.53	4.77		4.80	4.86	5.04	5.03	5.13	5.76			13.23	14.43	15.20
	velocity	6.72	8.22	7.88	7.73	7.34	7.50	7.29	7.20	6.94	6.96	6.82	6.94	7.23		7.94	7.28	6.91
H1 lead leg	L strides	24	16	16	16	16		16	16	16	16	16	18.5	186.5				
Cockrell, Anna (USA) (1997)	time	6.23	10.23	14.50	19.06	23.83	25.85	28.76	33.80	38.83	44.00	49.26		55.54	5 / 2			Henson (2022)
reaction time	interval		4.00	4.27	4.56	4.77		4.93	5.04	5.03	5.17	5.26	6.28			12.83	14.74	15.46
	velocity	7.22	8.75	8.20	7.68	7.34	7.74	7.10	6.94	6.96	6.77	6.65	6.37	7.20		8.18	7.12	6.79
H1 lead leg	L strides	22	14	14	15	15		15	16	16	16	16	20	179				
Little, Shamier (USA) (1995)	time	6.50	10.70	15.10	19.66	24.36	26.35	29.16	34.20	39.33	44.46	49.73		55.60	7 / 3			Henson (2022)
reaction time	interval		4.20	4.40	4.56	4.70		4.80	5.04	5.13	5.13	5.27	5.87			13.16	14.54	15.53

	velocity	6.92	8.33	7.95	7.68	7.45	7.59	7.29	6.94	6.82	6.82	6.64	6.81	7.19	7.98	7.22	6.76
H1 lead leg	R	strides	23	15	15	15	15	15	16	16	16	16	20	182			
Tate, Cassandra (USA) (1990)	time	6.40	10.40	14.60	19.10	23.70	25.56	28.40	33.20	38.33	43.70	49.43		56.26	4 / 4		Henson (2022)
reaction time	interval		4.00	4.20	4.50	4.60		4.70	4.80	5.13	5.37	5.73	6.83		12.70	14.10	16.23
	velocity	7.03	8.75	8.33	7.78	7.61	7.82	7.45	7.29	6.82	6.52	6.11	5.86	7.11	8.27	7.45	6.47
H1 lead leg	R	strides	22	14	14	15	15	15	15	15	16	17	21	179			
Stubler, Bianca (USA) (1999)	time	6.93	11.20	15.63	20.23	25.00	26.96	29.93	34.96	40.23	45.60	51.03		57.15	2 / 5		Henson (2022)
reaction time	interval		4.27	4.43	4.60	4.77		4.93	5.03	5.27	5.37	5.43	6.12		13.30	14.73	16.07
	velocity	6.49	8.20	7.90	7.61	7.34	7.42	7.10	6.96	6.64	6.52	6.45	6.54	7.00	7.89	7.13	6.53
H1 lead leg	L	strides	24	16	16	16	16		17	17	17	17	20	176			
Barber, Kaila (USA) (1993)	time	6.26	10.23	14.43	18.86	23.66	25.76		33.80	39.10	44.70	50.46		57.41	3 / 6		Henson (2022)
reaction time	interval		3.97	4.20	4.43	4.80		10.14	5.30	5.60	5.76	6.95		12.60	14.94	16.66	
	velocity	7.19	8.82	8.33	7.90	7.29	7.76		6.90	6.60	6.25	6.08	5.76	6.97	8.33	7.03	6.30
H1 lead leg	L	strides	23	15	15	15	16		17	17	17	21	156				
Watson, Vanessa (USA) (2000)	time	6.57	10.90	15.40	20.20	25.20	27.46	30.27	35.40	40.84	46.22	51.75	58.67	58.67	9 / 7		USATF (2022)
reaction time	interval		4.33	4.50	4.80	5.00		5.07	5.13	5.44	5.38	5.53	6.92		13.63	15.20	16.35
	velocity	6.85	8.08	7.78	7.29	7.00	7.28	6.90	6.82	6.43	6.51	6.33	5.78	6.82	7.70	6.91	6.42
H1 lead leg	R	strides	24	16	16	16	17	17	17	17			140				
Wise, Deshae (USA) (1999)	time	6.49	10.79	15.21	19.88	24.83	26.91	29.86	35.02	40.60	46.34	52.22	59.42	59.42	8 / 8		USATF (2022)
reaction time	interval		4.30	4.42	4.67	4.95		5.03	5.16	5.58	5.74	5.88	7.20		13.39	15.14	17.20
	velocity	6.93	8.14	7.92	7.49	7.07	7.43	6.96	6.78	6.27	6.10	5.95	5.56	6.73	7.84	6.94	6.10
H1 lead leg	R	strides	24	16	16	16	16	16	17	17			138				

USATF (2022) - Results powered by Karmarush

Semi-Final 1

date 24-Jun-22

Henson (2022) - Athlete First: 2022 year end hurdle report (TV Analysis)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin, Sydney (USA) (2000)	time	6.26	10.26	14.40	18.73	23.20	25.04	27.83	32.60	37.46	42.30	47.23		52.90	5 / 1			
reaction time	interval		4.00	4.14	4.33	4.47		4.63	4.77	4.86	4.84	4.93	5.67			12.47	13.87	14.63
	velocity	7.19	8.75	8.45	8.08	7.83	7.99	7.56	7.34	7.20	7.23	7.10	7.05	7.56		8.42	7.57	7.18
H1 lead leg	R	strides	22	14	14	14	14	15	15	15	15	16	18.2	172.2				
Russell, Masai (USA) (2000)	time	6.33	10.51	14.87	19.50	24.20	26.32	29.05	33.94	38.89	43.97	49.02	55.02	55.02	6 / 2			USATF (2022)
reaction time	interval		4.18	4.36	4.63	4.70		4.85	4.89	4.95	5.08	5.05	6.00	PB		13.17	14.44	15.08
	velocity	7.11	8.37	8.03	7.56	7.45	7.60	7.22	7.16	7.07	6.89	6.93	6.67	7.27		7.97	7.27	6.96
H1 lead leg	R	strides	24	16	16	16	16		17	17	17		139					
Spencer, Ashley (USA) (1993)	time	6.28	10.46	14.81	19.44	24.15	26.23	28.92	33.77	38.78	43.87	49.03	55.19	55.19	4 / 3			USATF (2022)
reaction time	interval		4.18	4.35	4.63	4.71		4.77	4.85	5.01	5.09	5.16	6.16		13.16	14.33	15.26	
	velocity	7.17	8.37	8.05	7.56	7.43	7.62	7.34	7.22	6.99	6.88	6.78	6.49	7.25		7.98	7.33	6.88
H1 lead leg	L	strides	22	15	15	15	15		15	15	15		127					
Meisberger, Shannon (USA) (1993)	time	6.37	10.30	14.39	18.79	23.29	25.34	28.02	32.90	38.12	43.43	49.03	55.61	55.61	8 / 4			USATF (2022)
reaction time	interval		3.93	4.09	4.40	4.50		4.73	4.88	5.22	5.31	5.60	6.58	PB		12.42	14.11	16.13
	velocity	7.06	8.91	8.56	7.95	7.78	7.89	7.40	7.17	6.70	6.59	6.25	6.08	7.19		8.45	7.44	6.51
H1 lead leg	L	strides	22	15	15	15	15	16	16	16	17		147					
Hoffman, Lauren (USA) (1993)	time	6.51	10.62	14.85	19.33	23.85	26.06	28.75	33.73	38.94	44.25	49.79	56.19	56.19	9 / 5			USATF (2022)
reaction time	interval		4.11	4.23	4.48	4.52		4.90	4.98	5.21	5.31	5.54	6.40		12.82	14.40	16.06	
	velocity	6.91	8.52	8.27	7.81	7.74	7.67	7.14	7.03	6.72	6.59	6.32	6.25	7.12		8.19	7.29	6.54
H1 lead leg	L	strides	23	15	15	15	16	16	16	17			133					
Bookman, Deonca (USA) (1993)	time	6.48	10.67	14.99	19.45	24.17	26.32	29.02	33.93	39.03	44.22	49.69	56.24	56.24	7 / 6			USATF (2022)
reaction time	interval		4.19	4.32	4.46	4.72		4.85	4.91	5.10	5.19	5.47	6.55		12.97	14.48	15.76	
	velocity	6.94	8.35	8.10	7.85	7.42	7.60	7.22	7.13	6.86	6.74	6.40	6.11	7.11		8.10	7.25	6.66
H1 lead leg	L	strides	24	16	16	16	17		17	18			124					
Wright, Jessica (USA) (2000)	time	6.74	11.03	15.57	20.41	25.25	27.34	30.13	35.01	40.17	45.53	50.85	57.09	57.09	3 / 7			USATF (2022)
reaction time	interval		4.29	4.54	4.84	4.84		4.88	4.88	5.16	5.36	5.32	6.24		13.67	14.60	15.84	
	velocity	6.68	8.16	7.71	7.23	7.23	7.32	7.17	7.17	6.78	6.53	6.58	6.41	7.01		7.68	7.19	6.63
H1 lead leg	R	strides	24	16	17	17	17		17	18			126					
Bellamy, Shani'a (USA) (2000)	time	6.42	10.73	15.23	19.82	24.72	26.82	29.59	34.70	40.09	45.50	51.69	58.47	58.47	2 / 8			USATF (2022)
reaction time	interval		4.31	4.50	4.59	4.90		4.87	5.11	5.39	5.41	6.19	6.78		13.40	14.88	16.99	
	velocity	7.01	8.12	7.78	7.63	7.14	7.46	7.19	6.85	6.49	6.47	5.65	5.90	6.84		7.84	7.06	6.18
H1 lead leg	L	strides	23	15	15	15	15		16	16			115					

USATF (2022) - Results powered by Karmarush

Heat 1

date 23-Jun-22

Henson (2022) - Athlete First: 2022 Sydney McLaughlin 400m hurdles world record season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin, Sydney (USA) (2000)	time	6.37	10.41	14.61	18.98	23.42	25.30	28.09	32.90	37.87	43.01	48.21		54.11	5 / 1			Henson (2022)
reaction time	interval		4.04	4.20	4.37	4.44		4.67	4.81	4.97	5.14	5.20	5.90			12.61	13.92	15.31
	velocity	7.06	8.66	8.33	8.01	7.88	7.91	7.49	7.28	7.04	6.81	6.73	6.78	7.39		8.33	7.54	6.86
H1 lead leg	R	strides	22	14	14	14	14	15	15	15	16	16	18.5	173.5				
Spencer, Ashley (USA) (1993)	time	6.57	10.87	15.21	19.75	24.39	26.30	29.13	33.96	39.04	44.21	49.51		55.79	4 / 2			USATF (2022)

reaction time	interval	4.30	4.34	4.54	4.64		4.74	4.83	5.08	5.17	5.30	6.28		13.18	14.21	15.55	
	velocity	6.85	8.14	8.06	7.71	7.54	7.60	7.38	7.25	6.89	6.77	6.60	6.37	7.17	7.97	7.39	6.75
H1 lead leg	L	strides	22	15	15	15		15	15	15	15	15	18.2	175.2			
Barber, Kaila (USA) (1993)	time	6.40	10.54	14.84	19.32	23.85	25.71	28.66	33.56	38.84	44.21	49.65		56.00	6 / 3		USATF (2022)
reaction time	interval		4.14	4.30	4.48	4.53		4.81	4.90	5.28	5.37	5.44	6.35		12.92	14.24	16.09
	velocity	7.03	8.45	8.14	7.81	7.73	7.78	7.28	7.14	6.63	6.52	6.43	6.30	7.14	8.13	7.37	6.53
H1 lead leg	L	strides	23	15	15	15		16	16	17	17	17	20	186			
Hoffman, Lauren (USA) (1998)	time	6.54	10.64	14.91	19.32	23.92	25.84	28.69	33.66	38.94	44.41	49.88		56.08	3 / 4		USATF (2022)
reaction time	interval		4.10	4.27	4.41	4.60		4.77	4.97	5.28	5.47	5.47	6.20		12.78	14.34	16.22
	velocity	6.88	8.54	8.20	7.94	7.61	7.74	7.34	7.04	6.63	6.40	6.40	6.45	7.13	8.22	7.32	6.47
H1 lead leg	L	strides	23	15	15	15		16	17	18	18	18	22	193			
Knebes, Riley (USA) (1996)	time	6.59	10.92	15.44	20.03	24.84	27.02	29.86	35.02	40.42	45.94	51.59	58.38	58.38	9 / 5		USATF (2022)
reaction time	interval		4.33	4.52	4.59	4.81		5.02	5.16	5.40	5.52	5.65	6.79		13.44	14.99	16.57
	velocity	6.83	8.08	7.74	7.63	7.28	7.40	6.97	6.78	6.48	6.34	6.19	5.89	6.85	7.81	7.00	6.34
H1 lead leg	L	strides	24	16	16	16		17	17	18				141			
Jinks, Asia (USA) (1999)	time	6.69	10.93	15.53	20.27	25.23	27.52	30.38	35.80	41.49	47.20	52.97	59.80	59.80	7 / 6		USATF (2022)
reaction time	interval		4.24	4.60	4.74	4.96		5.15	5.42	5.69	5.71	5.77	6.83		13.58	15.53	17.17
	velocity	6.73	8.25	7.61	7.38	7.06	7.27	6.80	6.46	6.15	6.13	6.07	5.86	6.69	7.73	6.76	6.12
H1 lead leg	R	strides	24	16	16	16		17	18	18				142			
Wilson, Simone (USA) (1998)	time	7.11	11.53	16.09	20.88	25.80	28.06	31.03	36.59	42.22	48.07	53.77	60.20	60.20	8 / 7		USATF (2022)
reaction time	interval		4.42	4.56	4.79	4.92		5.23	5.56	5.63	5.85	5.70	6.43		13.77	15.71	17.18
	velocity	6.33	7.92	7.68	7.31	7.11	7.13	6.69	6.29	6.22	5.98	6.14	6.22	6.64	7.63	6.68	6.11
H1 lead leg	R	strides	25	16	16	16		17	17					123			

2022 Bislett Games (Oslo, NOR) (TV Analysis)

FINAL

date 16-Jun-22

Henson (2022) - Athlete First: 2022 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bo, Femke (NED) (2000)	time	6.32	10.34	14.48	18.62	22.88		27.38	31.98	36.66	41.58	46.74		52.61	6 / 1			
reaction time	0.177 interval		4.02	4.14	4.14	4.26		4.50	4.60	4.68	4.92	5.16	5.87			12.30	13.36	14.76
	velocity	7.12	8.71	8.45	8.45	8.22		7.78	7.61	7.48	7.11	6.78	6.81	7.60		8.54	7.86	7.11
H1 lead leg	L	strides	22	15	15	15		15	15	15	15	16	19.5	177.5				
Ryzhykova, Anna (UKR) (1998)	time	6.46	10.58	14.78	19.10	23.62		28.50	33.36	38.30	43.44	48.86		54.81	7 / 2			
reaction time	0.175 interval		4.12	4.20	4.32	4.52		4.88	4.86	4.94	5.14	5.42	5.95			12.64	14.26	15.50
	velocity	6.97	8.50	8.33	8.10	7.74		7.17	7.20	7.09	6.81	6.46	6.72	7.30		8.31	7.36	6.77
H1 lead leg	R	strides	22	14	14	14		15	15	15	15	16	19.2	173.2				
Knight, Jessie (GBR) (1994)	time	6.44	10.66	14.94	19.28	23.82		28.58	33.46	38.58	43.72	48.98		54.84	4 / 3			
reaction time	0.160 interval		4.22	4.28	4.34	4.54		4.76	4.88	5.12	5.14	5.26	5.86			12.84	14.18	15.52
	velocity	6.99	8.29	8.18	8.06	7.71		7.35	7.17	6.84	6.81	6.65	6.83	7.29		8.18	7.40	6.77
H1 lead leg	R	strides	22	15	15	15		15	15	16	16	16	19.2	179.2				
Nielsen, Lina (GBR) (1996)	time	6.36	10.44	14.58	18.86	23.34		28.14	33.02	38.08	43.36	48.68		54.91	8 / 4			
reaction time	0.147 interval		4.08	4.14	4.28	4.48		4.80	4.88	5.06	5.28	5.32	6.23			12.50	14.16	15.66
	velocity	7.08	8.58	8.45	8.18	7.81		7.29	7.17	6.92	6.63	6.58	6.42	7.28		8.40	7.42	6.70
H1 lead leg	L	strides	23	15	15	15		15	15	16	16	16	19.2	180.2				
luel, Amalie (NOR) (1994)	time	6.36	10.54	14.92	19.32	23.90		28.64	33.58	38.52	43.64	48.92		55.06	2 / 5			
reaction time	0.148 interval		4.18	4.38	4.40	4.58		4.74	4.94	4.94	5.12	5.28	6.14			12.96	14.26	15.34
	velocity	7.08	8.37	7.99	7.95	7.64		7.38	7.09	7.09	6.84	6.63	6.51	7.26		8.10	7.36	6.84
H1 lead leg	L	strides	23	15	15	15		16	16	16	16	17	19.7	183.7				
Tkachuk, Viktoriya (UKR) (1998)	time	6.30	10.44	14.70	19.06	23.50		28.26	33.16	38.14	43.50	48.90		55.18	5 / 6			
reaction time	0.142 interval		4.14	4.26	4.36	4.44		4.76	4.90	4.98	5.36	5.40	6.28			12.76	14.10	15.74
	velocity	7.14	8.45	8.22	8.03	7.88		7.35	7.14	7.03	6.53	6.48	6.37	7.25		8.23	7.45	6.67
H1 lead leg	L	strides	22	15	15	15		15	16	16	17	17	20	183				
Kloster, Line (NOR) (1990)	time	6.28	10.40	14.78	19.18	23.72		28.54	33.54	38.64	44.08	49.66		56.07	3 / 7			
reaction time	0.135 interval		4.12	4.38	4.40	4.54		4.82	5.00	5.10	5.44	5.58	6.41			12.90	14.36	16.12
	velocity	7.17	8.50	7.99	7.95	7.71		7.26	7.00	6.86	6.43	6.27	6.24	7.13		8.14	7.31	6.51
H1 lead leg	R	strides	22	14	15	15		15	16	16	17	17	20	182				
Krafzik, Carolina (GER) (1999)	time	6.34	10.42	14.64	19.02	23.72		28.74	33.84	39.10	44.82	51.06		58.74	1 / 8			
reaction time	0.170 interval		4.08	4.22	4.38	4.70		5.02	5.10	5.26	5.72	6.24	7.68			12.68	14.82	17.22
	velocity	7.10	8.58	8.29	7.99	7.45		6.97	6.86	6.65	6.12	5.61	5.21	6.81		8.28	7.09	6.10
H1 lead leg	L	strides	23	15	15	17		17	17		18	20		157				

2022 Japanese National Championships (Osaka, JPN)

FINAL

date 12-Jun-22

Wamani (2023) - race analysis of men's and women's 400m hurdles in the 2022 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Yamamoto, Ami (JPN) (2002)	time	6.82	11.24	15.75	20.37	25.03		29.81	34.77	39.81	44.93	50.20		56.38	6 / 1			
reaction time	0.219 interval		4.42	4.51	4.62	4.66		4.78	4.96	5.04	5.12	5.27	6.18	PB		13.55	14.40	15.43
	velocity	6.60	7.92	7.76	7.58	7.51		7.32	7.06	6.94	6.84	6.64	6.47	7.09		7.75	7.29	6.80

H1 lead leg	L	strides	24	16	16	16	16	17	17	17	17	17	21	194				
Utsunomiya, Eri (JPN) (1993)	time		6.62	10.93	15.41	19.99	24.64	29.53	34.52	39.74	44.99	50.45		56.90	4 / 2			
reaction time	0.206	interval	4.31	4.48	4.58	4.65		4.89	4.99	5.22	5.25	5.46	6.45			13.37	14.53	15.93
		velocity	6.80	8.12	7.81	7.64	7.53	7.16	7.01	6.70	6.67	6.41	6.20	7.03		7.85	7.23	6.59
H1 lead leg	R	strides	23	15	15	15	15	16	16	17	17	17	22	188				
Matsuoka, Moe (JPN) (2003)	time		6.82	11.46	16.20	21.02	25.91	30.98	36.05	41.26	46.51	51.75		57.57	9 / 3			
reaction time	0.215	interval	4.64	4.74	4.82	4.89		5.07	5.07	5.21	5.25	5.24	5.82	PB		14.20	15.03	15.70
		velocity	6.60	7.54	7.38	7.26	7.16	6.90	6.90	6.72	6.67	6.68	6.87	6.95		7.39	6.99	6.69
H1 lead leg	R	strides	24	16	16	16	16	17	17	17	17	17		173				
Umehara, Satsuki (JPN) (199)	time		6.79	11.28	15.82	20.52	25.31	30.20	35.22	40.41	45.75	51.23		57.61	8 / 4			
reaction time	0.231	interval	4.49	4.54	4.70	4.79		4.89	5.02	5.19	5.34	5.48	6.38			13.73	14.70	16.01
		velocity	6.63	7.80	7.71	7.45	7.31	7.16	6.97	6.74	6.55	6.39	6.27	6.94		7.65	7.14	6.56
H1 lead leg	R	strides	23	16	16	17	17	17	17	17	18	18		176				
Ito, Akiko (JPN) (1995)	time		6.62	10.99	15.55	20.25	24.97	29.82	34.78	40.09	45.58	51.23		58.18	5 / 5			
reaction time	0.198	interval	4.37	4.56	4.70	4.72		4.85	4.96	5.31	5.49	5.65	6.95			13.63	14.53	16.45
		velocity	6.80	8.01	7.68	7.45	7.42	7.22	7.06	6.59	6.38	6.19	5.76	6.88		7.70	7.23	6.38
H1 lead leg	L	strides	23	16	16	16	16	16	16	17	17	17		170				
Aoki, Honoka (JPN) (2001)	time		6.64	10.96	15.48	20.05	24.79	29.73	34.98	40.37	46.00	51.75		58.38	3 / 6			
reaction time	0.220	interval	4.32	4.52	4.57	4.74		4.94	5.25	5.39	5.63	5.75	6.63			13.41	14.93	16.77
		velocity	6.78	8.10	7.74	7.66	7.38	7.09	6.67	6.49	6.22	6.09	6.03	6.85		7.83	7.03	6.26
H1 lead leg	L	strides	24	16	16	16	16	17	17	17	18	17		174				
Tsujii, Mio (JPN) (1999)	time		6.77	11.28	15.93	20.65	25.53	30.56	35.77	41.11	46.60	52.20		58.60	2 / 7			
reaction time	0.244	interval	4.51	4.65	4.72	4.88		5.03	5.21	5.34	5.49	5.60	6.40	=PB		13.88	15.12	16.43
		velocity	6.65	7.76	7.53	7.42	7.17	6.96	6.72	6.55	6.38	6.25	6.25	6.83		7.56	6.94	6.39
H1 lead leg	R	strides	24	16	16	16	16	17	17	17	18	18		175				
Kudo, Mei (JPN) (2002)	time		6.87	11.51	16.13	20.92	25.88	30.93	36.16	41.57	47.10	52.71		59.16	7 / 8			
reaction time	0.213	interval	4.64	4.62	4.79	4.96		5.05	5.23	5.41	5.53	5.61	6.45			14.05	15.24	16.55
		velocity	6.55	7.54	7.58	7.31	7.06	6.93	6.69	6.47	6.33	6.24	6.20	6.76		7.47	6.89	6.34
H1 lead leg	L	strides	24	16	16	16	16	17	17	17	17	18		174				

2022 Japanese U20 National Championships (Osaka, JPN)

FINAL

date 12-Jun-22

Wamani (2023) - race analysis of men's and women's 400m hurdles in the 2022 season

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Naito, Kano (JPN) (2004)	time		6.86	11.39	16.10	21.05	26.04		31.05	36.24	41.59	47.26	53.04		59.40	6 / 1			
reaction time	0.203	interval	4.53	4.71	4.95	4.99		5.01	5.19	5.35	5.67	5.78	6.36				14.19	15.19	16.80
		velocity	6.56	7.73	7.43	7.07	7.01	6.99	6.74	6.54	6.17	6.06	6.29	6.73		7.40	6.91	6.25	
H1 lead leg	R	strides	24	16	16	16	16	17	17	17	18	18	18	19	197				
Tsukamoto, Moeno (JPN) (2)	time		6.89	11.41	16.10	21.10	26.19		31.28	36.50	41.93	47.55	53.29		59.96	7 / 2			
reaction time	0.180	interval	4.52	4.69	5.00	5.09		5.09	5.22	5.43	5.62	5.74	6.67				14.21	15.40	16.79
		velocity	6.53	7.74	7.46	7.00	6.88	6.88	6.70	6.45	6.23	6.10	6.00	6.67		7.39	6.82	6.25	
H1 lead leg	R	strides	24	17	17	17	17	17	17	18	18	19	19	23	206				
Natsume, Saaya (JPN) (2004)	time		6.87	11.38	16.06	20.99	25.98		31.05	36.27	41.94	47.80	53.67		60.28	5 / 3			
reaction time	0.162	interval	4.51	4.68	4.93	4.99		5.07	5.22	5.67	5.86	5.87	6.61				14.12	15.28	17.40
		velocity	6.55	7.76	7.48	7.10	7.01	6.90	6.70	6.17	5.97	5.96	6.05	6.64		7.44	6.87	6.03	
H1 lead leg	L	strides	25	17	17	17	17	17	17	17	19	19	19	22.5	206.5				
Kusaka, Ayana (JPN) (2003)	time		7.01	11.54	16.27	21.25	26.29		31.48	36.87	42.53	48.37	54.24		60.50	8 / 4			
reaction time	0.196	interval	4.53	4.73	4.98	5.04		5.19	5.39	5.66	5.84	5.87	6.26				14.24	15.62	17.37
		velocity	6.42	7.73	7.40	7.03	6.94	6.74	6.49	6.18	5.99	5.96	6.39	6.61		7.37	6.72	6.04	
H1 lead leg	R	strides	24	17	17	17	17	17	17	17	19	19	19	22.5	205.5				
Masuko, Meri (JPN) (2003)	time		6.99	11.56	16.35	21.20	26.18		31.35	36.64	42.18	48.15	54.29		60.81	9 / 5			
reaction time	0.162	interval	4.57	4.79	4.85	4.98		5.17	5.29	5.54	5.97	6.14	6.52				14.21	15.44	17.65
		velocity	6.44	7.66	7.31	7.22	7.03	6.77	6.62	6.32	5.86	5.70	6.13	6.58		7.39	6.80	5.95	
H1 lead leg	R	strides	24	17	17	17	17	17	17	17	18	19	22	202					
Wasada, Mahiro (JPN) (2004)	time		6.99	11.61	16.33	21.22	26.28		31.53	36.95	42.61	48.57	54.60		61.34	4 / 6			
reaction time	0.175	interval	4.62	4.72	4.89	5.06		5.25	5.42	5.66	5.96	6.03	6.74				14.23	15.73	17.65
		velocity	6.44	7.58	7.42	7.16	6.92	6.67	6.46	6.18	5.87	5.80	5.93	6.52		7.38	6.68	5.95	
H1 lead leg	L	strides	24	17	17	17	17	17	17	17	17	19	19	22	203				
Ogasawara, Arisa (JPN) (200)	time		7.22	12.01	16.78	21.89	27.16		32.40	37.87	43.58	49.33	55.64		62.72	2 / 7			
reaction time	0.201	interval	4.79	4.77	5.11	5.27		5.24	5.47	5.71	5.75	6.31	7.08				14.67	15.98	17.77
		velocity	6.23	7.31	7.34	6.85	6.64	6.68	6.40	6.13	6.09	5.55	5.65	6.38		7.16	6.57	5.91	
H1 lead leg	L	strides	24	16	16	17	17	17	18	18	18	19	19	180					
Hattori, Rira (JPN) (2004)	time		7.01	11.85	16.70	21.81	27.16		32.55	38.14	43.98	49.90	56.11		63.08	3 / 8			
reaction time	0.199	interval	4.84	4.85	5.11	5.35		5.39	5.59	5.84	5.92	6.21	6.97				14.80	16.33	17.97
		velocity	6.42	7.23	7.22	6.85	6.54	6.49	6.26	5.99	5.91	5.64	5.74	6.34		7.09	6.43	5.84	

H1 lead leg	L	strides	24	17	17	17	18	18	19	19	19	19	19	187
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2022 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)**FINAL**

date 09-Jun-22

Henson (2022) - Athlete First: 2022 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bol, Femke (NED) (2000)	time	6.43	10.47	14.63	18.90	23.27	25.06	27.80	32.47	37.24	42.13	47.27		53.02	5 / 1			
	reaction time	0.188	interval	4.04	4.16	4.27	4.37	4.53	4.67	4.77	4.89	5.14	5.75			12.47	13.57	14.80
	velocity	7.00	8.66	8.41	8.20	8.01	7.98	7.73	7.49	7.34	7.16	6.81	6.96	7.54		8.42	7.74	7.09
	H1 lead leg	L	strides	22	15	15	15	15	15	15	15	15	19.5	161.5				
Russell, Janieve (JAM) (1993)	time	6.47	10.67	15.03	19.47	23.93	25.78	28.50	33.23	37.93	42.93	48.23		54.18	6 / 2			
	reaction time	0.140	interval	4.20	4.36	4.44	4.46	4.57	4.73	4.70	5.00	5.30	5.95			13.00	13.76	15.00
	velocity	6.96	8.33	8.03	7.88	7.85	7.76	7.66	7.40	7.45	7.00	6.60	6.72	7.38		8.08	7.63	7.00
	H1 lead leg	R	strides	23	15	15	15	15	16	16	17	17	20	169				
Ryzhykova, Anna (UKR) (1991)	time	6.53	10.67	14.80	19.07	23.60	25.52	28.33	33.13	38.07	43.10	48.47		54.50	4 / 3			
	reaction time	0.187	interval	4.14	4.13	4.27	4.53	4.73	4.80	4.94	5.03	5.37	6.03			12.54	14.06	15.34
	velocity	6.89	8.45	8.47	8.20	7.73	7.84	7.40	7.29	7.09	6.96	6.52	6.63	7.34		8.37	7.47	6.84
	H1 lead leg	R	strides	22	14	14	14	15	15	15	15	16	19.5	159.5				
Nielsen, Lina (GBR) (1996)	time	6.40	10.53	14.83	19.23	23.80	25.64	28.50	33.40	38.40	43.50	48.70		54.73	9 / 4			
	reaction time	0.148	interval	4.13	4.30	4.40	4.57	4.70	4.90	5.00	5.10	5.20	6.03	PB		12.83	14.17	15.30
	velocity	7.03	8.47	8.14	7.95	7.66	7.80	7.45	7.14	7.00	6.86	6.73	6.63	7.31		8.18	7.41	6.86
	H1 lead leg	L	strides	23	15	15	15	16	16	16	16	16	19	182				
Clayton, Rushell (JAM) (1999)	time	6.43	10.50	14.67	19.00	23.47	25.33	28.20	33.03	38.00	43.20	48.60		54.80	7 / 5			
	reaction time	0.164	interval	4.07	4.17	4.33	4.47	4.73	4.83	4.97	5.20	5.40	6.20			12.57	14.03	15.57
	velocity	7.00	8.60	8.39	8.08	7.83	7.90	7.40	7.25	7.04	6.73	6.48	6.45	7.30		8.35	7.48	6.74
	H1 lead leg	L	strides	23	15	15	15	16	16	16	17	17	20	170				
Folorunso, Ayomide (ITA) (1991)	time	6.60	10.87	15.13	19.53	23.93	25.88	28.60	33.33	38.33	43.47	48.70		54.84	3 / 6			
	reaction time	0.192	interval	4.27	4.26	4.40	4.40	4.67	4.73	5.00	5.14	5.23	6.14			12.93	13.80	15.37
	velocity	6.82	8.20	8.22	7.95	7.95	7.73	7.49	7.40	7.00	6.81	6.69	6.51	7.29		8.12	7.61	6.83
	H1 lead leg	L	strides	23	15	15	15	16	16	16	17	17	20.5	170.5				
Tkachuk, Viktoriya (UKR) (1991)	time	6.43	10.60	14.93	19.30	23.83	25.73	28.50	33.30	38.33	43.60	49.03		55.37	8 / 7			
	reaction time	0.193	interval	4.17	4.33	4.37	4.53	4.67	4.80	5.03	5.27	5.43	6.34			12.87	14.00	15.73
	velocity	7.00	8.39	8.08	8.01	7.73	7.77	7.49	7.29	6.96	6.64	6.45	6.31	7.22		8.16	7.50	6.68
	H1 lead leg	L	strides	22	15	15	15	15	15	16	16	17	20	166				
Olivieri, Linda (ITA) (1998)	time	6.63	10.93	15.33		24.53	26.50	29.40	34.40	39.60	44.83	50.13		56.25	2 / 8			
	reaction time	0.150	interval	4.30	4.40	9.20		4.87	5.00	5.20	5.23	5.30	6.12					15.73
	velocity	6.79	8.14	7.95		7.61	7.55	7.19	7.00	6.73	6.69	6.60	6.54	7.11				6.68
	H1 lead leg	R	strides	23	15	15	15	15	15	17	17	17	17	149				
Giger, Yasmin (SUI) (1999)	time	6.53	10.83	15.30		24.70	26.64	29.57	34.60	39.70	45.13			56.52	1 / 9			
	reaction time	0.155	interval	4.30	4.47	9.40		4.87	5.03	5.10	5.43							
	velocity	6.89	8.14	7.83		7.45	7.51	7.19	6.96	6.86	6.45			7.08				
	H1 lead leg	R	strides	23	15	15	15	15	16	16	17			132				

2022 Music City Track Carnival (Nashville, TN) (TV Analysis)**FINAL**

date 05-Jun-22

(H5 5m long)

Henson (2022) - Athlete First: 2022 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin, Sydney (USA)	time	5.84	10.37	14.46	18.65	23.42		27.27	31.87	36.50	41.33	46.33		51.61	5 / 1			
	reaction time		interval	4.53	4.09	4.19	4.77	3.85	4.60	4.63	4.83	5.00	5.28			12.81	13.22	14.46
	velocity	7.71	7.73	8.56	8.35	8.39		9.09	7.61	7.56	7.25	7.00	7.58	7.75		8.20	7.94	7.26
	H1 lead leg	R	strides	14	14	14	16	13	15	15		16	117					
Knight, Andrenette (JAM) (1991)	time		10.14	14.23	18.35	23.28		27.27	32.10	37.04	42.11	47.35		53.39	4 / 2			
	reaction time		interval	4.09	4.12	4.93		3.99	4.83	4.94	5.07	5.24	6.04	PB		18.35	13.75	15.25
	velocity		7.89	8.56	8.50	8.11		8.77	7.25	7.09	6.90	6.68	6.62	7.49		5.72	7.64	6.89
	H1 lead leg		strides		15	15	17	13	16	16		16	108					
Woodruff, Gianna (PAN) (1991)	time	6.45	10.54	14.80	19.23	24.40		28.54	33.36	38.36	43.32			54.63	6 / 3			
	reaction time		interval	4.09	4.26	4.43	5.17	4.14	4.82	5.00	4.96					12.78	14.13	
	velocity	6.98	8.56	8.22	7.90	7.74		8.45	7.26	7.00	7.06			7.32		8.22	7.43	
	H1 lead leg	L	strides	23	15	15	17	13	16	16		16	130					
Tate, Cassandra (USA) (1990)	time	6.38	10.58	14.83	19.29	24.60		28.66	33.39	38.22	43.26	48.56		54.81	7 / 4			
	reaction time		interval	4.20	4.25	4.46	5.31	4.06	4.73	4.83	5.04	5.30	6.25			12.91	14.10	15.17
	velocity	7.05	8.33	8.24	7.85	7.53		8.62	7.40	7.25	6.94	6.60	6.40	7.30		8.13	7.45	6.92
	H1 lead leg	L	strides	21	14	14	17	13	15	15		15	138					

2022 Golden Spike (Ostrava, CZE) (TV Analysis) (300m Hurdles)**FINAL**

date 31-May-22

Henson (2022) - Athlete First: 2022 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bol, Femke (NED) (2000)	time	6.87	10.50		18.57	22.78		27.27	31.77					36.86	5 / 1			
	reaction time	0.215	interval	3.63	8.07	4.21		4.49	4.50				5.09	WB PB		11.70	13.20	

	velocity	7.28	9.64	8.67	8.31	7.80	7.78	7.86	8.14	8.97	7.95
H1 lead leg	L	strides	24	15	15	15	15	18.5	102.5		
Tkachuk, Viktoriya (UKR) (1994)	time	6.90	10.70	14.83	19.07	23.50	28.25	32.88	38.24	3 / 2	
reaction time	0.246	interval	3.80	4.13	4.24	4.43	4.75	4.63	5.36	NR PB	12.17 13.81
	velocity	7.25	9.21	8.47	8.25	7.90	7.37	7.56	7.46	7.85	8.63 7.60
H1 lead leg	L	strides	24	15	15	15	15	19	118		
Ryzhykova, Anna (UKR) (1994)	time	7.20	11.05	15.17	19.37	23.73	28.46	33.20	38.36	6 / 3	
reaction time	0.208	interval	3.85	4.12	4.20	4.36	4.73	4.74	5.16	PB	12.17 13.83
	velocity	6.94	9.09	8.50	8.33	8.03	7.40	7.38	7.75	7.82	8.63 7.59
H1 lead leg	R	strides	24	14	14	14	15	18	99		
Lehikoinen, Viivi (FIN) (1999)	time	6.90		19.03	23.45	28.28	33.03	38.50	7 / 4		
reaction time	0.202	interval		12.13	4.42	4.83	4.75	5.47	NR PB	12.13 14.00	
	velocity	7.25		8.66	7.92	7.25	7.37	7.31	7.79	8.66 7.50	
H1 lead leg	R	strides	26		16	16	16	19.7	93.7		
Knight, Jessie (GBR) (1994)	time	6.97	10.87	15.03	19.40	23.90	28.77	33.50	38.84	4 / 5	
reaction time	0.170	interval	3.90	4.16	4.37	4.50	4.87	4.73	5.34	NR PB	12.43 14.10
	velocity	7.17	8.97	8.41	8.01	7.78	7.19	7.40	7.49	7.72	8.45 7.45
H1 lead leg	R	strides	24	15	15	15	15	18.2	117.2		

2022 Shimane High School Championships (Izumo, JPN)

FINAL

date 27-May-22

Shimizu (2022) - shimane high school championships 2022 - biomechanics data analysis

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Matsumoto, Haruka (JPN)	time	7.22	12.28	17.65	23.33	28.97	34.67	40.48	46.45	52.52	58.97	66.19	4 / 1					
reaction time	interval		5.06	5.37	5.68	5.64	5.70	5.81	5.97	6.07	6.45	7.22			16.11	17.15	18.49	
	velocity	6.23	6.92	6.52	6.16	6.21	6.14	6.02	5.86	5.77	5.43	5.54	6.04		6.52	6.12	5.68	
H1 lead leg	strides	25	17	18	20	19	19	19	19	19	21	24.5	220.5					
Tsugu, Kaneko (JPN)	time	7.40	12.53	17.88	23.27	28.88	34.80	40.98	47.12	53.58	60.28	68.48	7 / 2					
reaction time	interval		5.13	5.35	5.39	5.61	5.92	6.18	6.14	6.46	6.70	8.20			15.87	17.71	19.30	
	velocity	6.08	6.82	6.54	6.49	6.24	5.91	5.66	5.70	5.42	5.22	4.88	5.84		6.62	5.93	5.44	
H1 lead leg	strides	26	19	19	19	19	20	20	20	21	22	27	232					
Furuya, Saki (JPN)	time	7.78	13.13	18.73	24.38	30.22	36.18	42.27	48.63	54.93	61.33	68.78	6 / 3					
reaction time	interval		5.35	5.60	5.65	5.84	5.96	6.09	6.36	6.30	6.40	7.45			16.60	17.89	19.06	
	velocity	5.78	6.54	6.25	6.19	5.99	5.87	5.75	5.50	5.56	5.47	5.37	5.82		6.33	5.87	5.51	
H1 lead leg	strides	25	18	19	19	19	19	19	20	20	21	24.5	223.5					
Adachi, Yuno (JPN)	time	7.70	13.03	18.57	24.15	30.02	36.28	42.68	49.12	55.52	62.15	69.86	8 / 4					
reaction time	interval		5.33	5.54	5.58	5.87	6.26	6.40	6.44	6.40	6.63	7.71			16.45	18.53	19.47	
	velocity	5.84	6.57	6.32	6.27	5.96	5.59	5.47	5.43	5.47	5.28	5.19	5.73		6.38	5.67	5.39	
H1 lead leg	strides	27	19	19	20	20	21	21	21	21	22	26	237					
Okuni, Chinatsu (JPN)	time	8.07	13.33	18.62	24.43	30.43	36.57	43.05	49.65	56.30	63.10	70.60	5 / 5					
reaction time	interval		5.26	5.29	5.81	6.00	6.14	6.48	6.60	6.65	6.80	7.50			16.36	18.62	20.05	
	velocity	5.58	6.65	6.62	6.02	5.83	5.70	5.40	5.30	5.26	5.15	5.33	5.67		6.42	5.64	5.24	
H1 lead leg	strides	25	17	17	19	19	19	21	21	21	21	24.2	224.2					

2022 Müller Birmingham Diamond League (Birmingham, GBR) (TV Analysis)

FINAL

date 21-May-22

Henson (2022) - Athlete First: 2022 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Muhammad, Dalilah (USA) (-)	time	6.30	10.23	14.43	18.73	23.27	25.11	28.03	33.03	38.06	43.23	48.45	54.54	4 / 1				
reaction time	0.160	interval	3.93	4.20	4.30	4.54	4.76	5.00	5.03	5.17	5.22	6.09			12.43	14.30	15.42	
	velocity	7.14	8.91	8.33	8.14	7.71	7.96	7.35	7.00	6.96	6.77	6.70	6.57	7.33		8.45	7.34	6.81
H1 lead leg	R	strides	22	14	15	15	15	15	16	16	16	16	20	180				
Tkachuk, Viktoriya (UKR) (1994)	time	6.50		14.96	19.30	23.80	25.60	28.43	33.33	38.40	43.57	49.00	55.25	3 / 2				
reaction time	0.188	interval		8.46	4.34	4.50	4.63	4.90	5.07	5.17	5.43	6.25			12.80	14.03	15.67	
	velocity	6.92		8.27	8.06	7.78	7.81	7.56	7.14	6.90	6.77	6.45	6.40		8.20	7.48	6.70	
H1 lead leg	L	strides	22		15	15	15	15	16	16	17	17	20.7	153.7				
Ryzhykova, Anna (UKR) (1994)	time	6.53	10.66	14.83	19.17	23.70	25.61	28.67	33.63	38.80	44.07	49.43	55.37	5 / 3				
reaction time	0.173	interval	4.13	4.17	4.34	4.53	4.97	4.96	5.17	5.27	5.36	5.94			12.64	14.46	15.80	
	velocity	6.89	8.47	8.39	8.06	7.73	7.81	7.04	7.06	6.77	6.64	6.53	6.73	7.22		8.31	7.26	6.65
H1 lead leg	R	strides	22	14	14	14	14	15	15	16	16	16	19.2	175.2				
Nielsen, Lina (GBR) (1996)	time	6.43	10.67	15.03	19.43	24.07	25.94	28.93	33.90	44.17	49.47	55.40	8 / 4					
reaction time	0.156	interval	4.24	4.36	4.40	4.64	4.86	4.97	5.17	5.30	5.93				13.00	14.47	15.57	
	velocity	7.00	8.25	8.03	7.95	7.54	7.71	7.20	7.04	6.82	6.60	6.75	7.22		8.08	7.26	6.74	
H1 lead leg	L	strides	23	15	15	15	15	16	16	16	16	19.2	150.2					
Woodruff, Gianna (PAN) (1994)	time	6.50	10.50	14.80	19.17	23.80	25.62	28.57	33.50	38.70	43.87	49.25	55.43	7 / 5				
reaction time	0.218	interval	4.00	4.30	4.37	4.63	4.77	4.93	5.20	5.17	5.38	6.18			12.67	14.33	15.75	
	velocity	6.92	8.75	8.14	8.01	7.56	7.81	7.34	7.10	6.73	6.77	6.51	6.47	7.22		8.29	7.33	6.67
H1 lead leg	L	strides	23	15	15	15	15	15	15	16	16	17	20	182				

Knight, Jessie (GBR) (1994)	time	6.43	15.03	19.47	24.03	25.82	28.83	33.73	39.00	44.23	49.63		55.50	2 / 6				
	reaction time	0.147	interval	8.60	4.44	4.56	4.80	4.90	5.27	5.23	5.40	5.87			13.04	14.26	15.90	
	velocity	7.00	8.14	7.88	7.68	7.75	7.29	7.14	6.64	6.69	6.48	6.81	7.21		8.05	7.36	6.60	
	H1 lead leg	R	strides	22	15	15	15	15	16	16	16	19.2	149.2					
Russell, Janieve (JAM) (1993)	time	6.35	10.40	14.50	18.83	23.40	25.18	28.17	33.10	38.30	43.70	49.33	56.21	6 / 7				
	reaction time	0.135	interval	4.05	4.10	4.33	4.57	4.77	4.93	5.20	5.40	5.63	6.88		12.48	14.27	16.23	
	velocity	7.09	8.64	8.54	8.08	7.66	7.94	7.34	7.10	6.73	6.48	6.22	5.81	7.12	8.41	7.36	6.47	
	H1 lead leg	R	strides	23	15	15	16	16	16	17	17	17	21	188				
Turner, Jessica (GBR) (1995)	time	6.67	10.70	14.83	19.03	23.62	25.49	28.40	33.40	44.33	50.40		57.43	9 / 8				
	reaction time	0.240	interval	4.03	4.13	4.20	4.59	4.78	5.00	10.93	6.07	7.03			12.36	14.37	17.00	
	velocity	6.75	8.68	8.47	8.33	7.63	7.85	7.32	7.00	6.40	5.77	5.69	6.97		8.50	7.31	6.18	
	H1 lead leg	L	strides	25	15	15	16	16	17		19		138					

2022 Shizuoka International Athletics Meeting (Fukuroi, JPN)

FINAL

date 03-May-22

Wamani (2023) - race analysis of men's and women's 400m hurdles in the 2022 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Barber, Kalia (USA) (1993)	time	6.32	10.44	14.75	19.25	23.99		28.85	33.88	39.04	44.38	50.02		56.55	4 / 1			
	reaction time	0.181	interval	4.12	4.31	4.50	4.74	4.86	5.03	5.16	5.34	5.64	6.53			12.93	14.63	16.14
	velocity	7.12	8.50	8.12	7.78	7.38		7.20	6.96	6.78	6.55	6.21	6.13	7.07		8.12	7.18	6.51
	H1 lead leg	L	strides	23	15	15	16	16	17	17	17	18	21	190				
Utsunomiya, Eri (JPN) (1993)	time	6.67	10.96	15.47	20.07	24.82		29.86	34.92	40.14	45.53	51.08		57.43	9 / 2			
	reaction time	0.217	interval	4.29	4.51	4.60	4.75	5.04	5.06	5.22	5.39	5.55	6.35			13.40	14.85	16.16
	velocity	6.75	8.16	7.76	7.61	7.37		6.94	6.92	6.70	6.49	6.31	6.30	6.97		7.84	7.07	6.50
	H1 lead leg	R	strides	23	15	15	15	16	16	17	17	17	21	187				
Umehara, Satsuki (JPN) (199)	time	6.86	11.33	15.87	20.52	25.26		30.16	35.20	40.29	45.66	51.22		57.61	5 / 3			
	reaction time	0.229	interval	4.47	4.54	4.65	4.74	4.90	5.04	5.09	5.37	5.56	6.39			13.66	14.68	16.02
	velocity	6.56	7.83	7.71	7.53	7.38		7.14	6.94	6.88	6.52	6.29	6.26	6.94		7.69	7.15	6.55
	H1 lead leg	L	strides	24	16	16	17	17	17	17	18	18	22.2	198.2				
Yamamoto, Ami (JPN) (2002)	time	6.86	11.39	16.10	20.87	25.76		30.81	36.04	41.21	46.46	51.77		57.98	6 / 4			
	reaction time	0.220	interval	4.53	4.71	4.77	4.89	5.05	5.23	5.17	5.25	5.31	6.21			14.01	15.17	15.73
	velocity	6.56	7.73	7.43	7.34	7.16		6.93	6.69	6.77	6.67	6.59	6.44	6.90		7.49	6.92	6.68
	H1 lead leg	L	strides	23	16	16	16	17	17	17	17	17	21	193				
Yokota, Karen (JPN) (1999)	time	6.74	11.26	15.92	20.72	25.59		30.61	35.70	40.91	46.28	51.90		58.37	8 / 5			
	reaction time	0.183	interval	4.52	4.66	4.80	4.87	5.02	5.09	5.21	5.37	5.62	6.47			13.98	14.98	16.20
	velocity	6.68	7.74	7.51	7.29	7.19		6.97	6.88	6.72	6.52	6.23	6.18	6.85		7.51	7.01	6.48
	H1 lead leg	L	strides	23	16	16	16	17	17	17	17	17	17	172				
Aoki, Honoka (JPN) (2001)	time	6.76	11.18	15.67	20.29	25.06		29.98	35.24	40.52	46.15	51.97		58.56	2 / 6			
	reaction time	0.215	interval	4.42	4.49	4.62	4.77	4.92	5.26	5.28	5.63	5.82	6.59			13.53	14.95	16.73
	velocity	6.66	7.92	7.80	7.58	7.34		7.11	6.65	6.63	6.22	6.01	6.07	6.83		7.76	7.02	6.28
	H1 lead leg	L	strides	23	16	16	16	17	17	17	18	18	174					
Ito, Akiko (JPN) (1995)	time	6.71	11.14	15.73	20.62	25.54		30.43	35.55	40.87	46.43	52.34		59.32	3 / 7			
	reaction time	0.170	interval	4.43	4.59	4.89	4.92	4.89	5.12	5.32	5.56	5.91	6.98			13.91	14.93	16.79
	velocity	6.71	7.90	7.63	7.16	7.11		7.16	6.84	6.58	6.29	5.92	5.73	6.74		7.55	7.03	6.25
	H1 lead leg	L	strides	23	15	15	16	16	16	17	17	17	17	168				
Kudo, Mei (JPN) (2002)	time	7.01	11.68	16.38	21.34	26.46		31.70	36.97	42.29	47.71	53.37		59.49	7 / 8			
	reaction time	0.205	interval	4.67	4.70	4.96	5.12	5.24	5.27	5.32	5.42	5.66	6.12			14.33	15.63	16.40
	velocity	6.42	7.49	7.45	7.06	6.84		6.68	6.64	6.58	6.46	6.18	6.54	6.72		7.33	6.72	6.40
	H1 lead leg	L	strides	24	16	16	17	17	17	17	17	18	176					

2022 Michitaka Kinami Memorial (Osaka, JPN)

A Race

date 30-Apr-22

Wamani (2023) - race analysis of men's and women's 400m hurdles in the 2022 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Barber, Kalia (USA) (1993)	time	6.31	10.38	14.68	19.14	24.04		29.05	34.30	39.61	45.11	50.92		57.45	7 / 1			
	reaction time	0.181	interval	4.07	4.30	4.46	4.90	5.01	5.25	5.31	5.50	5.81	6.53			12.83	15.16	16.62
	velocity	7.13	8.60	8.14	7.85	7.14		6.99	6.67	6.59	6.36	6.02	6.13	6.96		8.18	6.93	6.32
	H1 lead leg	L	strides	23	15	15	16	16	17	17	17	18	21.2	190.2				
Utsunomiya, Eri (JPN) (1993)	time	6.54	10.79	15.20	19.80	24.56		29.56	34.77	40.12	45.58	51.22		57.64	4 / 2			
	reaction time	0.175	interval	4.25	4.41	4.60	4.76	5.00	5.21	5.35	5.46	5.64	6.42			13.26	14.97	16.45
	velocity	6.88	8.24	7.94	7.61	7.35		7.00	6.72	6.54	6.41	6.21	6.23	6.94		7.92	7.01	6.38
	H1 lead leg	R	strides	23	15	15	15	16	16	17	17	17	21.5	187.5				
Yamamoto, Ami (JPN) (2002)	time	6.79	11.23	15.85	20.51	25.36		30.51	35.77	41.12	46.53	51.94		58.11	5 / 3			
	reaction time	0.182	interval	4.44	4.62	4.66	4.85	5.15	5.26	5.35	5.41	5.41	6.17			13.72	15.26	16.17
	velocity	6.63	7.88	7.58	7.51	7.22		6.80	6.65	6.54	6.47	6.47	6.48	6.88		7.65	6.88	6.49
	H1 lead leg	L	strides	24	16	16	16	17	17	17	17	17	21	194				
Umehara, Satsuki (JPN) (199)	time	6.72	11.18	15.80	20.50	25.36		30.30	35.42	40.62	46.18	51.84		58.41	8 / 4			

reaction time	0.163	interval		4.46	4.62	4.70	4.86		4.94	5.12	5.20	5.56	5.66	6.57		13.78	14.92	16.42
		velocity	6.70	7.85	7.58	7.45	7.20		7.09	6.84	6.73	6.29	6.18	6.09	6.85	7.62	7.04	6.39
H1 lead leg	R	strides	24	16	16	17	17		17	17	17	18	18	177				
Ito, Akiko (JPN) (1995)		time	6.64	11.14	15.78	20.59	25.46		30.45	35.52	40.77	46.18	51.79		58.43	9 / 5		
reaction time	0.131	interval		4.50	4.64	4.81	4.87		4.99	5.07	5.25	5.41	5.61	6.64		13.95	14.93	16.27
		velocity	6.78	7.78	7.54	7.28	7.19		7.01	6.90	6.67	6.47	6.24	6.02	6.85	7.53	7.03	6.45
H1 lead leg	L	strides	23	16	16	16	16		16	16	17	17	17	170				
Yokota, Karen (JPN) (1999)		time	6.62	11.03	15.60	20.30	25.14		30.21	35.42	40.77	46.35	52.45		59.39	6 / 6		
reaction time	0.158	interval		4.41	4.57	4.70	4.84		5.07	5.21	5.35	5.58	6.10	6.94		13.68	15.12	17.03
		velocity	6.80	7.94	7.66	7.45	7.23		6.90	6.72	6.54	6.27	5.74	5.76	6.74	7.68	6.94	6.17
H1 lead leg	L	strides	23	16	16	16	16		17	17	17	17	18	173				

B Race

date 30-Apr-22

Wamani (2023) - race analysis of men's and women's 400m hurdles in the 2022 season

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Aoki, Honoka (JPN) (2001)		time	6.66	11.13	15.67	20.35	25.19		30.31	35.57	40.96	46.58	52.32		58.85	7 / 1			
reaction time	0.181	interval		4.47	4.54	4.68	4.84		5.12	5.26	5.39	5.62	5.74	6.53			13.69	15.22	16.75
		velocity	6.76	7.83	7.71	7.48	7.23		6.84	6.65	6.49	6.23	6.10	6.13	6.80		7.67	6.90	6.27
H1 lead leg	L	strides	24	16	16	16	16		17	17	17	18	18	22	197				

C Race

date 30-Apr-22

Wamani (2023) - race analysis of men's and women's 400m hurdles in the 2022 season

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tsuji, Mio (JPN) (1999)		time	6.81	11.31	15.95	20.79	25.73		30.80	35.94	41.17	46.75	52.40		59.04	6 / 1			
reaction time	0.185	interval		4.50	4.64	4.84	4.94		5.07	5.14	5.23	5.58	5.65	6.64	PB		13.98	15.15	16.46
		velocity	6.61	7.78	7.54	7.23	7.09		6.90	6.81	6.69	6.27	6.19	6.02	6.78		7.51	6.93	6.38
H1 lead leg	R	strides	24	16	16	17	17		17	17	17	18	18	22.7	199.7				

2021 Weltklasse (Zürich, SUI) (TV Analysis)**FINAL**

date 09-Sep-21

Henson (2021) - Athlete First: 2021 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bo, Femke (NED) (2000)		time	6.36	10.40		18.88	23.24	25.0	27.80	32.52	37.24	42.16	47.20		52.80	4 / 1			
reaction time	0.172	interval		4.04		8.48	4.36		4.56	4.72	4.72	4.92	5.04	5.60			12.52	13.64	14.68
		velocity	7.08	8.66		8.25	8.03	8.00	7.68	7.42	7.42	7.11	6.94	7.14	7.58		8.39	7.70	7.15
H1 lead leg	L	strides	22	15			15		15	15	15	15	15	18.7	145.7				
Little, Shamier (USA) (1995)		time	6.20	10.28		18.84	23.28	25.1	27.80	32.48	37.24	42.24	47.36		53.35	3 / 2			
reaction time	0.165	interval		4.08		8.56	4.44		4.52	4.68	4.76	5.00	5.12	5.99			12.64	13.64	14.88
		velocity	7.26	8.58		8.18	7.88	7.97	7.74	7.48	7.35	7.00	6.84	6.68	7.50		8.31	7.70	7.06
H1 lead leg	R	strides	22	15			15		15	15	16	16	16	20	150				
Ryzhykova, Anna (UKR) (1991)		time	6.40	10.40	14.56	18.88	23.28	25.1	27.92	32.68	37.48	42.52	47.76		53.70	5 / 3			
reaction time	0.160	interval		4.00	4.16	4.32	4.40		4.64	4.76	4.80	5.04	5.24	5.94			12.48	13.80	15.08
		velocity	7.03	8.75	8.41	8.10	7.95	7.97	7.54	7.35	7.29	6.94	6.68	6.73	7.45		8.41	7.61	6.96
H1 lead leg	R	strides	22	14	14	14	14		15	15	15	15	16	19.2	173.2				
Tkachuk, Viktoriya (UKR) (1988)		time	6.36	10.52		19.16	23.52	25.3	27.96	32.64		42.40	47.60		53.76	7 / 4			
reaction time	0.192	interval		4.16		8.64	4.36		4.44	4.68		9.76	5.20	6.16	PB		12.80	13.48	14.96
		velocity	7.08	8.41		8.10	8.03	7.91	7.88	7.48		7.17	6.73	6.49	7.44		8.20	7.79	7.02
H1 lead leg	L	strides	20	18			15		15	15		16	16	20	135				
Woodruff, Gianna (PAN) (1991)		time	6.36	10.32		18.96	23.48	25.4	28.16	32.96	37.92	43.00	48.28		54.50	2 / 5			
reaction time	0.192	interval		3.96		8.64	4.52		4.68	4.80	4.96	5.08	5.28	6.22			12.60	14.00	15.32
		velocity	7.08	8.84		8.10	7.74	7.87	7.48	7.29	7.06	6.89	6.63	6.43	7.34		8.33	7.50	6.85
H1 lead leg	L	strides	23	15			15		15	15		16	16	19.2	134.2				
Hailey, Nnanya (USA) (1994)		time	6.36	10.48			23.68	25.5	28.28	32.96	37.68	42.84	48.28		55.06	1 / 6			
reaction time	0.183	interval		4.12			13.20		4.60	4.68	4.72	5.16	5.44	6.78					15.32
		velocity	7.08	8.50			7.95	7.84	7.61	7.48	7.42	6.78	6.43	5.90	7.26				6.85
H1 lead leg	L	strides	23	16					17	17		18	18	23	132				
Russell, Janieve (JAM) (1993)		time	6.44	10.68	15.00	19.40	23.84	25.7	28.56	33.48	38.48	43.84			55.74	6 / 7			
reaction time	0.145	interval		4.24	4.32	4.40	4.44		4.72	4.92	5.00	5.36					12.96	14.08	
		velocity	6.99	8.25	8.10	7.95	7.88	7.78	7.42	7.11	7.00	6.53			7.18		8.10	7.46	
H1 lead leg	R	strides	23	15	15	15	15		16	16	16	17		148					
Sprunger, Leá (SUI) (1990)		time	6.64	10.92		19.76	24.36	26.2	29.08	34.00	38.96				55.87	8 / 8			
reaction time	0.155	interval		4.28		8.84	4.60		4.72	4.92	4.96						13.12	14.24	
		velocity	6.78	8.18		7.92	7.61	7.63	7.42	7.11	7.06				7.16		8.00	7.37	
H1 lead leg	R	strides	23	15			15		15	15		15		98					

2021 Meeting de Paris (Paris, FRA) (TV Analysis)**FINAL**

date 28-Aug-21

Henson (2021) - Athlete First: 2021 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Woodruff, Gianna (PAN) (1991)		time	6.33	10.52	14.92		23.92		28.53	33.28	38.07	43.12	48.35		54.44	7 / 1			
reaction time	0.206	interval		4.19	4.40		9.00		4.61	4.75	4.79	5.05	5.23	6.09					15.07
		velocity	7.11	8.35	7.95		7.78		7.59	7.37	7.31	6.93	6.69	6.57	7.35				6.97
H1 lead leg	L	strides	23	15	15	15			15	15	15	16	16	19.5	164.5				

Ryzhykova, Anna (UKR) (1991)	time	6.33	10.52	14.82		23.75	28.52	33.37	38.30	43.33	48.60		54.59	6 / 2				
	reaction time	0.175	interval	4.19	4.30	8.93	4.77	4.85	4.93	5.03	5.27	5.99					15.23	
	velocity	7.11	8.35	8.14		7.84	7.34	7.22	7.10	6.96	6.64	6.68	7.33				6.89	
	H1 lead leg	R	strides	22	14	14	14	15	15	15	15	19	158					
Russell, Janieve (JAM) (1993)	time	6.28	10.48	14.85	19.35	23.88	28.53	33.37	38.07	43.18	48.43		54.75	4 / 3				
	reaction time	0.162	interval	4.20	4.37	4.50	4.53	4.65	4.84	4.70	5.11	5.25	6.32			13.07	14.02	15.06
	velocity	7.17	8.33	8.01	7.78	7.73	7.53	7.23	7.45	6.85	6.67	6.33	7.31			8.03	7.49	6.97
	H1 lead leg	R	strides	22	15	15	15	16	16	16	17	17	20	184				
Hailey, Nnanya (USA) (1994)	time	6.12	10.20	14.52	19.02	23.55	28.18		37.70	42.85	48.22		54.78	1 / 4				
	reaction time	0.187	interval	4.08	4.32	4.50	4.53	4.63	9.52	5.15	5.37	6.56				12.90		
	velocity	7.35	8.58	8.10	7.78	7.73	7.56		7.35	6.80	6.52	6.10	7.30			8.14		
	H1 lead leg	L	strides	23	16	16	17	17	17	18	18	19	24	185				
Tkachuk, Viktoriya (UKR) (1991)	time	6.32	10.53	14.95		23.95	28.53		38.08	43.20	48.65		54.93	3 / 5				
	reaction time	0.228	interval	4.21	4.42	9.00	4.58		9.55	5.12	5.45	6.28						
	velocity	7.12	8.31	7.92		7.78	7.64		7.33	6.84	6.42	6.37	7.28					
	H1 lead leg	L	strides	22	15	15	15	15	15	16	16	17	20	166				
Zapletalová, Emma (SVK) (2000)	time	6.42	10.70	15.12		23.95	28.50	33.23	38.20	43.46	49.00		55.61	8 / 6				
	reaction time	0.138	interval	4.28	4.42	8.83	4.55	4.73	4.97	5.26	5.54	6.61					15.77	
	velocity	7.01	8.18	7.92		7.93	7.69	7.40	7.04	6.65	6.32	6.05	7.19				6.66	
	H1 lead leg	R	strides	23	15	15	15	15	15	16	16	20.2	150.2					
Couckuyt, Paulien (BEL) (1991)	time	6.37	10.48	14.82		23.95	28.75	33.71	38.95	44.30	49.95		56.36	2 / 7				
	reaction time	0.169	interval	4.11	4.34	9.13	4.80	4.96	5.24	5.35	5.65	6.41					16.24	
	velocity	7.06	8.52	8.06		7.67	7.29	7.06	6.68	6.54	6.19	6.24	7.10				6.47	
	H1 lead leg	L	strides	23	15	15	16	16	16	17	18	21	173					
Little, Shamier (USA) (1995)	time	6.27	10.63	15.22	19.75	24.32	28.98	33.85	38.90	44.37	50.10		57.18	5 / 8				
	reaction time	0.222	interval	4.36	4.59	4.53	4.57	4.66	4.87	5.05	5.47	5.73	7.08			13.48	14.10	16.25
	velocity	7.18	8.03	7.63	7.73	7.66	7.51	7.19	6.93	6.40	6.11	5.65	7.00			7.79	7.45	6.46
	H1 lead leg	R	strides	23	16	16	15	15	16	16	17	17	20.2	187.2				

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

date 26-Aug-21

Henson (2021) - Athlete First: 2021 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Boi, Femke (NED) (2000)	time	6.32	10.36	14.48		23.24		27.84	32.60	37.40	42.32	47.32		53.05	4 / 1			
	reaction time	0.186	interval	4.04	4.12	8.76		4.60	4.76	4.80	4.92	5.00	5.73					14.72
	velocity	7.12	8.66	8.50		7.99		7.61	7.35	7.29	7.11	7.00	6.98	7.54				7.13
	H1 lead leg	L	strides	22	15	15		15	15	15	15	15	18.7	145.7				
Little, Shamier (USA) (1995)	time	6.20	10.24	14.40				27.76	32.52	37.32	42.28	47.48		53.78	3 / 2			
	reaction time	0.202	interval	4.04	4.16			13.36	4.76	4.80	4.96	5.20	6.30					14.96
	velocity	7.26	8.66	8.41				7.86	7.35	7.29	7.06	6.73	6.35	7.44				7.02
	H1 lead leg	R	strides	23	15	15		16	16	16	17	20	138					
Ryzhykova, Anna (UKR) (1991)	time	6.44	10.52	14.68		23.52		28.32	33.16	38.04	43.04	48.32		54.32	2 / 3			
	reaction time	0.162	interval	4.08	4.16	8.84		4.80	4.84	4.88	5.00	5.28	6.00					15.16
	velocity	6.99	8.58	8.41		7.92		7.29	7.23	7.17	7.00	6.63	6.67	7.36				6.93
	H1 lead leg	R	strides	22	14	14		15	15	15	15	16	19	145				
Muhammad, Dalilah (USA) (1991)	time	6.12	10.08	14.40	18.88	23.52		28.28	33.12	38.12	43.36	48.56		54.50	5 / 4			
	reaction time	0.189	interval	3.96	4.32	4.48	4.64	4.76	4.84	5.00	5.24	5.20	5.94			12.76	14.24	15.44
	velocity	7.35	8.84	8.10	7.81	7.54		7.35	7.23	7.00	6.68	6.73	6.73	7.34		8.23	7.37	6.80
	H1 lead leg	R	strides	22	15	15	15	15	15	15	16	16	19	178				
Sprunger, Leá (SUI) (1990)	time	6.36	10.56	14.88	19.24	23.88		28.64	33.52	38.52	43.60	48.88		54.75	7 / 5			
	reaction time	0.176	interval	4.20	4.32	4.36	4.64	4.76	4.88	5.00	5.08	5.28	5.87			12.88	14.28	15.36
	velocity	7.08	8.33	8.10	8.03	7.54		7.35	7.17	7.00	6.89	6.63	6.81	7.31		8.15	7.35	6.84
	H1 lead leg	R	strides	21	14	14	14	15	15	15	15	15	18	170				
Russell, Janieve (JAM) (1993)	time	6.24	10.24	14.44	18.72	23.28		28.08	32.84	37.84	42.96	48.36		54.89	6 / 6			
	reaction time	0.136	interval	4.00	4.20	4.28	4.56	4.80	4.76	5.00	5.12	5.40	6.53			12.48	14.12	15.52
	velocity	7.21	8.75	8.33	8.18	7.68		7.29	7.35	7.00	6.84	6.48	6.13	7.29		8.41	7.44	6.77
	H1 lead leg	R	strides	23	15	15	16	16	16	16	16	17	20	185				
Nugent, Leah (JAM) (1992)	time	6.24	10.44	14.84		24.24		28.96	33.80	38.96	44.16	49.76		56.41	1 / 7			
	reaction time	0.202	interval	4.20	4.40	9.40		4.72	4.84	5.16	5.20	5.60	6.65					15.96
	velocity	7.21	8.33	7.95		7.45		7.42	7.23	6.78	6.73	6.25	6.02	7.09				6.58
	H1 lead leg	R	strides	22	15	15		15	15	15	15	16	19	147				
Tkachuk, Viktoriya (UKR) (1991)	time	6.36	10.56	14.92	19.36	24.04		28.92	34.04		44.72		56.53	8 / 8				
	reaction time	0.190	interval	4.20	4.36	4.44	4.68	4.88	5.12		10.68					13.00	14.68	
	velocity	7.08	8.33	8.03	7.88	7.48		7.17	6.84		6.55		7.08			8.08	7.15	
	H1 lead leg	L	strides	22	15	15	15	16	16	16			130					

2021 Prefontaine Classic (Eugene, OR) (TV Analysis)

FINAL

date 21-Aug-21

Henson (2021) - Athlete First: 2021 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Muhammad, Dalilah (USA) (time	6.12	10.06	14.12	18.28	22.64	24.6	27.12	31.84	36.66	41.64	46.76				52.77	5 / 1			
reaction time 0.164 interval		3.94	4.06	4.16	4.36		4.48	4.72	4.82	4.98	5.12	6.01					12.16	13.56	14.92
velocity	7.35	8.88	8.62	8.41	8.03	8.13	7.81	7.42	7.26	7.03	6.84	6.66	7.58				8.63	7.74	7.04
H1 lead leg R strides	23	15	15	15	15		15	15	15	16	16	19.2	179.2						
Little, Shamier (USA) (1995) time	6.28	10.40	14.60	18.88	23.46	25.4	28.20	33.10	37.96	42.88	47.88				53.79	6 / 2			
reaction time 0.190 interval		4.12	4.20	4.28	4.58		4.74	4.90	4.86	4.92	5.00	5.91					12.60	14.22	14.78
velocity	7.17	8.50	8.33	8.18	7.64	7.87	7.38	7.14	7.20	7.11	7.00	6.77	7.44				8.33	7.38	7.10
H1 lead leg R strides	23	15	15	15	16		16	16	16	17	16	19	184						
Woodruff, Gianna (PAN) (19 time	6.40	10.44	14.64	18.96	23.38	25.4	28.00	32.84	37.68	42.72	47.88				54.20	8 / 3			
reaction time 0.249 interval		4.04	4.20	4.32	4.42		4.62	4.84	4.84	5.04	5.16	6.32	NR PB				12.56	13.88	15.04
velocity	7.03	8.66	8.33	8.10	7.92	7.87	7.58	7.23	7.23	6.94	6.78	6.33	7.38				8.36	7.56	6.98
H1 lead leg L strides	23	15	15	15	15		15	15	15	16	16	19.2	179.2						
Ryzhykova, Anna (UKR) (19 time	6.52	10.64	14.84	19.12	23.52	25.5		33.12	38.00	43.00	48.22				54.40	3 / 4			
reaction time 0.162 interval		4.12	4.20	4.28	4.40			9.60	4.88	5.00	5.22	6.18					12.60	14.00	15.10
velocity	6.90	8.50	8.33	8.18	7.95	7.84		7.29	7.17	7.00	6.70	6.47	7.35				8.33	7.50	6.95
H1 lead leg R strides	22	14	14	14	14				15	15	15	20	143						
Russell, Janieve (JAM) (1993 time	6.36	10.52	14.76	19.04	23.48	25.4		33.04	37.88	42.92	48.28				54.50	4 / 5			
reaction time 0.155 interval		4.16	4.24	4.28	4.44			9.56	4.84	5.04	5.36	6.22					12.68	14.00	15.24
velocity	7.08	8.41	8.25	8.18	7.88	7.87		7.32	7.23	6.94	6.53	6.43	7.34				8.28	7.50	6.89
H1 lead leg R strides	23	15	15	15	15				16	17	18	20.5	154.5						
Hailey, Nnanya (USA) (1994) time	6.12	10.24	14.52	18.88	23.24	25.2			37.60	42.72	48.48				55.16	1 / 6			
reaction time 0.153 interval		4.12	4.28	4.36	4.36				14.36	5.12	5.76	6.68					12.76		
velocity	7.35	8.50	8.18	8.03	8.03	7.94			7.31	6.84	6.08	5.99	7.25				8.23		
H1 lead leg L strides	24	16	16	16	16					17	19	23	147						
Whyte, Ronda (JAM) (1990) time	6.44	10.72	15.08	19.60	24.36	26.4	29.32	34.36	39.36	44.52					55.57	7 / 7			
reaction time 0.153 interval		4.28	4.36	4.52	4.76		4.96	5.04	5.00	5.16							13.16	14.76	
velocity	6.99	8.18	8.03	7.74	7.35	7.58	7.06	6.94	7.00	6.78			7.20				7.98	7.11	
H1 lead leg L strides	23	15	15	15	16			16	16	17			133						
Nugent, Leah (JAM) (1992) time	6.32	10.52	14.72	19.08	23.64	25.7	28.44	33.36	38.48	43.84					55.86	9 / 8			
reaction time 0.228 interval		4.20	4.20	4.36	4.56		4.80	4.92	5.12	5.36							12.76	14.28	
velocity	7.12	8.33	8.33	8.03	7.68	7.78	7.29	7.11	6.84	6.53			7.16				8.23	7.35	
H1 lead leg R strides	22	15	15	15	15		15	15	15	16			143						
Watson, Sage (CAN) (1994) time	6.48	10.80	15.16	19.64	24.24	26.3			39.64	44.96					56.52	2 / 9			
reaction time 0.163 interval		4.32	4.36	4.48	4.60				15.40	5.32							13.16		
velocity	6.94	8.10	8.03	7.81	7.61	7.60			6.82	6.58			7.08				7.98		
H1 lead leg R strides	22	15	15	15	15					16			98						

2020 Olympic Games (Tokyo, JPN) (TV Analysis)

FINAL

date 04-Aug-21

Henson (2021) - Athlete First: 2021 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin, Sydney (USA) (time	6.16	10.16	14.24	18.36	22.64		27.00	31.56	36.32	41.20	46.04				51.46	4 / 1			
reaction time 0.163 interval		4.00	4.08	4.12	4.28		4.36	4.56	4.76	4.88	4.84	5.42	WR				12.20	13.20	14.48
velocity	7.31	8.75	8.58	8.50	8.18		8.03	7.68	7.35	7.17	7.23	7.38	7.77				8.61	7.95	7.25
H1 lead leg R strides	22	14	14	14	14		14	14	15	16	15	18.5	170.5						
Muhammad, Dalilah (USA) (time	6.04	9.92	13.92	18.08	22.44		26.84	31.36	36.04	40.88	45.84				51.58	7 / 2			
reaction time 0.200 interval		3.88	4.00	4.16	4.36		4.40	4.52	4.68	4.84	4.96	5.74	PB				12.04	13.28	14.48
velocity	7.45	9.02	8.75	8.41	8.03		7.95	7.74	7.48	7.23	7.06	6.97	7.75				8.72	7.91	7.25
H1 lead leg R strides	22	14	14	15	15		15	15	15	16	16	19	176						
Boi, Femke (NED) (2000) time	6.28	10.26	14.28	18.36	22.56		26.96	31.60	36.28	41.16	46.16				52.03	5 / 3			
reaction time 0.165 interval		3.98	4.02	4.08	4.20		4.40	4.64	4.68	4.88	5.00	5.87	AR				12.08	13.24	14.56
velocity	7.17	8.79	8.71	8.58	8.33		7.95	7.54	7.48	7.17	7.00	6.81	7.69				8.69	7.93	7.21
H1 lead leg L strides	22	15	15	15	15		15	15	15	15	15	19	176						
Russell, Janieve (JAM) (1993 time	6.40	10.52	14.68	18.88	23.20		27.68	32.32	37.08	42.00	47.12				53.08	6 / 4			
reaction time 0.136 interval		4.12	4.16	4.20	4.32		4.48	4.64	4.76	4.92	5.12	5.96	PB				12.48	13.44	14.80
velocity	7.03	8.50	8.41	8.33	8.10		7.81	7.54	7.35	7.11	6.84	6.71	7.54				8.41	7.81	7.09
H1 lead leg R strides	23	15	15	15	15		15	15	16	16	17	19.7	181.7						
Ryzhykova, Anna (UKR) (19 time	6.40	10.48	14.60	18.80	23.08		27.68	32.44	37.28	42.32	47.52				53.48	2 / 5			
reaction time 0.177 interval		4.08	4.12	4.20	4.28		4.60	4.76	4.84	5.04	5.20	5.96					12.40	13.64	15.08
velocity	7.03	8.58	8.50	8.33	8.18		7.61	7.35	7.23	6.94	6.73	6.71	7.48				8.47	7.70	6.96
H1 lead leg R strides	22	14	14	14	14		15	15	15	15	16	19.2	173.2						
Tkachuk, Viktoriya (UKR) (1 time	6.40	10.56	14.80	19.06	23.40		27.88	32.56	37.48	42.60	47.80				53.79	3 / 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	0.206	interval		4.16	4.24	4.26	4.34		4.48	4.68	4.92	5.12	5.20	5.99	PB	12.66	13.50	15.24		
		velocity	7.03	8.41	8.25	8.22	8.06		7.81	7.48	7.11	6.84	6.73	6.68	7.44	8.29	7.78	6.89		
H1 lead leg	L	strides	22	15	15	15	15		15	15	16	16	16	19.7	179.7					
Cockrell, Anna (USA) (1997)	time		6.28	10.44	14.64	19.00	23.52		28.12	32.80	37.76	42.80	47.96		54.22	8 / 7		(no official time given)		
reaction time	interval			4.16	4.20	4.36	4.52		4.60	4.68	4.96	5.04	5.16	6.26	DQ	12.72	13.80	15.16		
	velocity	7.17	8.41	8.33	8.03	7.74		7.61	7.48	7.06	6.94	6.78	6.39	7.38		8.25	7.61	6.93		
H1 lead leg	L	strides	22	15	15	15	15		15	15	16	16	16	160						
Woodruff, Gianna (PAN) (19	time		6.44	10.54	14.84	19.32	23.88		28.52	33.40	38.44				55.84	9 / 8-7				
reaction time	0.235 interval			4.10	4.30	4.48	4.56		4.64	4.88	5.04					12.88	14.08			
	velocity	6.99	8.54	8.14	7.81	7.68		7.54	7.17	6.94				7.16		8.15	7.46			
H1 lead leg	L	strides	23	15	15	15	15		15	15	15			128						
Semi-Final 3			date	02-Aug-21												<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>				
				H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bol, Femke (NED) (2000)	time		6.50	10.63	14.83	19.13	23.46		28.00	32.63	37.43	42.36	47.40		53.91	5 / 1				
reaction time	0.215 interval			4.13	4.20	4.30	4.33		4.54	4.63	4.80	4.93	5.04	6.51			12.63	13.50	14.77	
	velocity	6.92	8.47	8.33	8.14	8.08		7.71	7.56	7.29	7.10	6.94	6.14	7.42		8.31	7.78	7.11		
H1 lead leg	L	strides	22	15	15	15	15		15	15	15	15	15	19	176					
Cockrell, Anna (USA) (1997)	time		6.33	10.52	14.93	19.33	23.93		28.70	33.40	38.23	43.16	48.30		54.17	8 / 2				
reaction time	0.174 interval			4.19	4.41	4.40	4.60		4.77	4.70	4.83	4.93	5.14	5.87			13.00	14.07	14.90	
	velocity	7.11	8.35	7.94	7.95	7.61		7.34	7.45	7.25	7.10	6.81	6.81	7.38		8.08	7.46	7.05		
H1 lead leg	L	strides	22	15	15	15	15		15	15	15	15	16	19.7	177.7					
Tkachuk, Viktoriya (UKR) (19	time		6.46	10.56	14.83	19.13	23.60		28.16	32.93	37.86	42.94	48.13		54.25	7 / 3				
reaction time	0.224 interval			4.10	4.27	4.30	4.47		4.56	4.77	4.93	5.08	5.19	6.12			12.67	13.80	15.20	
	velocity	6.97	8.54	8.20	8.14	7.83		7.68	7.34	7.10	6.89	6.74	6.54	7.37		8.29	7.61	6.91		
H1 lead leg	L	strides	22	15	15	15	15		15	15	16	16	16	20	180					
Sprunger, Léa (SUI) (1990)	time		6.33	10.53	14.86	19.23	23.76		28.55	33.53	38.63	43.70	49.02		55.12	6 / 4				
reaction time	0.140 interval			4.20	4.33	4.37	4.53		4.79	4.98	5.10	5.07	5.32	6.10			12.90	14.30	15.49	
	velocity	7.11	8.33	8.08	8.01	7.73		7.31	7.03	6.86	6.90	6.58	6.56	7.26		8.14	7.34	6.78		
H1 lead leg	R	strides	21	14	14	14	14		15	15	15	15	15	19	171					
Pedroso, Yadisleidy (ITA) (19	time		6.50	10.73	15.16	19.60	24.20		28.90	33.86	38.90	44.23	49.56		55.80	2 / 5				
reaction time	0.181 interval			4.23	4.43	4.44	4.60		4.70	4.96	5.04	5.33	5.33	6.24			13.10	14.26	15.70	
	velocity	6.92	8.27	7.90	7.88	7.61		7.45	7.06	6.94	6.57	6.57	6.41	7.17		8.02	7.36	6.69		
H1 lead leg	R	strides	24	16	16	16	16		16	17	17	18	18	21	195					
Gonzalez, Melissa (COL) (19	time		6.63	10.88	15.40	20.06	24.83		29.66	34.83	40.16	45.46		57.47	4 / 6					
reaction time	0.191 interval			4.25	4.52	4.66	4.77		4.83	5.17	5.33	5.30					13.43	14.77		
	velocity	6.79	8.24	7.74	7.51	7.34		7.25	6.77	6.57	6.60			6.96		7.82	7.11			
H1 lead leg	L	strides	23	15	16	16	16		16	17	17	17		153						
Turner, Jessica (GBR) (1995)	time		6.70	10.93	15.56	20.00	24.60		29.50	34.83	40.46				60.36	3 / 7				
reaction time	0.185 interval			4.23	4.63	4.44	4.60		4.90	5.33	5.63						13.30	14.83		
	velocity	6.72	8.27	7.56	7.88	7.61		7.14	6.57	6.22				6.63		7.89	7.08			
H1 lead leg	L	strides	24	16	16	16	16		16	17	18			139						
Petersen, Sara Scott (DEN) (time		6.50	10.63	14.86	19.16	23.60		28.26	33.13	38.43					9 / --				
reaction time	0.165 interval			4.13	4.23	4.30	4.44		4.66	4.87	5.30				DQ		12.66	13.97		
	velocity	6.92	8.47	8.27	8.14	7.88		7.51	7.19	6.60				8.29	7.52					
H1 lead leg	R	strides	22	15	15	15	15		15	15	16			128						
Semi-Final 2			date	02-Aug-21												<i>Henson (2024) - Athlete First: 2021 year end hurdle report</i>				
				H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin, Sydney (USA) (time		6.30	10.26	14.40	18.62	22.96		27.56	32.33	37.10	42.10	47.26		53.03	5 / 1				
reaction time	0.204 interval			3.96	4.14	4.22	4.34		4.60	4.77	4.77	5.00	5.16	5.77			12.32	13.71	14.93	
	velocity	7.14	8.84	8.45	8.29	8.06		7.61	7.34	7.34	7.00	6.78	6.93	7.54		8.52	7.66	7.03		
H1 lead leg	R	strides	22	14	14	14	14		15	15	15	16	16	18.5	173.5					
Woodruff, Gianna (PAN) (19	time		6.46	10.56	14.67	18.96	23.43		28.03	32.80	37.93	43.07	48.30		54.22	4 / 2				
reaction time	0.207 interval			4.10	4.11	4.29	4.47		4.60	4.77	5.13	5.14	5.23	5.92	AR PB		12.50	13.84	15.50	
	velocity	6.97	8.54	8.52	8.16	7.83		7.61	7.34	6.82	6.81	6.69	6.76	7.38		8.40	7.59	6.77		
H1 lead leg	L	strides	23	15	15	15	15		15	15	15	16	16	19	179					
Ryzhykova, Anna (UKR) (19	time		6.36	10.46	14.56	18.86	23.30		28.10	33.00	38.00	43.00	48.23		54.23	6 / 3				
reaction time	0.162 interval			4.10	4.10	4.30	4.44		4.80	4.90	5.00	5.00	5.23	6.00			12.50	14.14	15.23	
	velocity	7.08	8.54	8.54	8.14	7.88		7.29	7.14	7.00	7.00	6.69	6.67	7.38		8.40	7.43	6.89		
H1 lead leg	R	strides	22	14	14	14	14		15	15	15	15	15	19.7	172.7					
Hechavarría, Zurian (CUB) (1	time		6.30	10.33	14.43	18.70	23.13		27.70	32.56	37.70	43.10	48.76		55.21	3 / 4				
reaction time	0.167 interval			4.03	4.10	4.27	4.43		4.57	4.86	5.14	5.40	5.66	6.45			12.40	13.86	16.20	
	velocity	7.14	8.68	8.54	8.20	7.90		7.66	7.20	6.81	6.48	6.18	6.20	7.25		8.47	7.58	6.48		
H1 lead leg	L	strides	23	15	15	15	15		16	16	17	17	18	22	189					

Linkiewicz, Joanna (POL) (1988)	time	6.66	10.93	15.23	19.76	24.33	29.13	34.06	39.13	44.20	49.56		55.67	9 / 5				
	reaction time	0.157	interval	4.27	4.30	4.53	4.57	4.80	4.93	5.07	5.07	5.36	6.11		13.10	14.30	15.50	
			velocity	6.76	8.20	8.14	7.73	7.66	7.29	7.10	6.90	6.90	6.53	6.55	7.19	8.02	7.34	6.77
	H1 lead leg	L	strides	23	16	16	16	16	17	17	17	17	17	20.5				
Zapletalová, Emma (SVK) (2000)	time	6.50	10.75	14.96	19.36	23.83	28.50	33.36	38.58	44.06	49.60		55.79	2 / 6				
	reaction time	0.136	interval	4.25	4.21	4.40	4.47	4.67	4.86	5.22	5.48	5.54	6.19		12.86	14.00	16.24	
			velocity	6.92	8.24	8.31	7.95	7.83	7.49	7.20	6.70	6.39	6.32	6.46	7.17	8.16	7.50	6.47
	H1 lead leg	R	strides	23	15	15	15	15	15	15	16	17	17	19	182			
Nel, Wenda (RSA) (1988)	time	6.36	10.60	14.96	19.36	23.97	28.70	33.66	38.90	44.26	49.94		56.35	8 / 7				
	reaction time	0.189	interval	4.24	4.36	4.40	4.61	4.73	4.96	5.24	5.36	5.68	6.41		13.00	14.30	16.28	
			velocity	7.08	8.25	8.03	7.95	7.59	7.40	7.06	6.68	6.53	6.16	6.24	7.10	8.08	7.34	6.45
	H1 lead leg	L	strides	23	16	16	16	16	16	17	17	18	18	173				
Belle, Tia Adana (BAR) (1996)	time	6.40	10.58	14.63	19.06	23.50	28.26	33.30	38.76	44.83		59.26	7 / 8					
	reaction time	0.146	interval	4.18	4.05	4.43	4.44	4.76	5.04	5.46	6.07				12.66	14.24		
			velocity	7.03	8.37	8.64	7.90	7.88	7.35	6.94	6.41	5.77		6.75	8.29	7.37		
	H1 lead leg	L	strides	26	15	15	15	15	16	16	17	18		153				

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		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Muhammad, Dalilah (USA) (1996)	time	6.13	9.96	14.10	18.36	22.86	27.40	32.13	37.03	42.03	47.26		53.30	7 / 1				
	reaction time	0.186	interval	3.83	4.14	4.26	4.54	4.73	4.90	5.00	5.23	6.04				12.23	13.77	15.13
			velocity	7.34	9.14	8.45	8.22	7.78	7.71	7.40	7.14	7.00	6.69	6.62	7.50	8.59	7.63	6.94
	H1 lead leg	R	strides	22	15	15	15	15	15	15	15	16	16	19	178			
Russell, Janieve (JAM) (1993)	time	6.43	10.56	14.73	19.00	23.40	28.00	32.76		42.70	47.96		54.10	6 / 2				
	reaction time	0.151	interval	4.13	4.17	4.27	4.40	4.60	4.76		9.94	5.26	6.14			12.57	13.76	15.20
			velocity	7.00	8.47	8.39	8.20	7.95	7.61	7.35		7.04	6.65	6.51	7.39	8.35	7.63	6.91
	H1 lead leg	R	strides	23	15	15	15	15	15	16	16		17	20	167			
Couckuyt, Paulien (BEL) (1991)	time	6.40	10.36	14.56	18.75	23.06	27.75	32.53	37.55	42.82	48.26		54.47	5 / 3				
	reaction time	0.164	interval	3.96	4.20	4.19	4.31	4.69	4.78	5.02	5.27	5.44	6.21	NR PB		12.35	13.78	15.73
			velocity	7.03	8.84	8.33	8.35	8.12	7.46	7.32	6.97	6.64	6.44	7.34		8.50	7.62	6.68
	H1 lead leg	L	strides	23	15	15	15	15	16	16	17	17	21	187				
Krafzik, Carolina (GER) (1999)	time	6.40	10.36	14.50	18.73	23.10	27.76	32.78		43.36	48.83		54.96	4 / 4				
	reaction time	0.172	interval	3.96	4.14	4.23	4.37	4.66	5.02		10.58	5.47	6.13			12.33	14.05	16.05
			velocity	7.03	8.84	8.45	8.27	8.01	7.51	6.97		6.62	6.40	6.53	7.28	8.52	7.47	6.54
	H1 lead leg	L	strides	23	15	15	15	15	17	17	17	17	21	189				
Watson, Sage (CAN) (1994)	time	6.53	10.63	14.96	19.40	23.96	28.72	33.56	38.56	43.93	49.46		55.51	8 / 5				
	reaction time	0.163	interval	4.10	4.33	4.44	4.56	4.76	4.84	5.00	5.37	5.53	6.05			12.87	14.16	15.90
			velocity	6.89	8.54	8.08	7.88	7.68	7.35	7.23	7.00	6.52	6.33	6.61	7.21	8.16	7.42	6.60
	H1 lead leg	R	strides	22	15	15	15	15	15	15		16	17	145				
Quach Thi Lan (VIE) (1995)	time	6.60	10.86	15.20	19.53	24.06	28.83	33.90	39.20	44.80	50.46		56.78	3 / 6				
	reaction time	0.188	interval	4.26	4.34	4.33	4.53	4.77	5.07	5.30	5.60	5.66	6.32			12.93	14.37	16.56
			velocity	6.82	8.22	8.06	8.08	7.73	7.34	6.90	6.60	6.25	6.18	6.33	7.04	8.12	7.31	6.34
	H1 lead leg	L	strides	23	16	15	15	15	15	16		17	17	149				
Olivieri, Linda (ITA) (1998)	time	6.63	10.76	15.13	19.56	24.26	29.10	34.00	39.20	44.82		57.03	9 / 7					
	reaction time	0.120	interval	4.13	4.37	4.43	4.70	4.84	4.90	5.20	5.62					12.93	14.44	
			velocity	6.79	8.47	8.01	7.90	7.23	7.14	6.73	6.23		7.01		8.12	7.27		
	H1 lead leg	R	strides	23	15	15	15	16	16		18		134					
luel, Amalie (NOR) (1994)	time	6.43	10.55	14.80	19.20	23.73	28.53	33.83	39.06	44.80		57.61	1 / 8					
	reaction time	0.121	interval	4.12	4.25	4.40	4.53	4.80	5.30	5.23	5.74					12.77	14.63	
			velocity	7.00	8.50	8.24	7.95	7.73	7.29	6.60	6.69	6.10		6.94	8.22	7.18		
	H1 lead leg	L	strides	23	15	15	15	15	15	16		17	17	148				

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		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Muhammad, Dalilah (USA) (1996)	time	6.30	10.13	14.40	18.73	23.30	28.03	32.82	37.60	42.73	47.93		53.97	3 / 1				
	reaction time		interval	3.83	4.27	4.33	4.57	4.73	4.79	4.78	5.13	5.20	6.04			12.43	14.09	15.11
			velocity	7.14	9.14	8.20	8.08	7.66	7.40	7.31	7.32	6.82	6.73	6.62	7.41	8.45	7.45	6.95
	H1 lead leg	R	strides	22	15	15	15	15	15	15	15	16	16	19	178			
Krafzik, Carolina (GER) (1999)	time	6.33	10.30	14.43	18.73	23.40	28.23	33.26	38.33	43.74	48.95		54.71	5 / 2				
	reaction time	0.189	interval	3.97	4.13	4.30	4.67	4.83	5.03	5.07	5.41	5.21	5.76	PB		12.40	14.53	15.69
			velocity	7.11	8.82	8.47	8.14	7.49	7.25	6.96	6.90	6.47	6.72	6.94	7.31	8.47	7.23	6.69
	H1 lead leg	L	strides	23	15	15	15	17	17	17	17	17	20	173				
Sprunger, Léa (SUI) (1990)	time	6.47	10.67	15.03		24.03	28.80	33.76		43.93	49.06		54.74	9 / 3				
	reaction time	0.186	interval	4.20	4.36	9.00	4.77	4.96		10.17	5.13	5.68					15.30	
			velocity	6.96	8.33	8.03	7.78	7.34	7.06		6.88	6.82	7.04	7.31			6.86	
	H1 lead leg	R	strides	21	14	14		15	15		15	18	112					

Linkiewicz, Joanna (POL) (1991)	time	6.60	10.90	15.26	19.83	24.50	29.30	34.17	44.22	49.23	54.93	8 / 4				
reaction time	0.130	interval	4.30	4.36	4.57	4.67	4.80	4.87	10.05	5.01	5.70	PB	13.23	14.34	15.06	
velocity	6.82	8.14	8.03	7.66	7.49	7.29	7.19	6.97	6.99	7.02	7.28		7.94	7.32	6.97	
H1 lead leg	L	strides	24	16	16	16	17	17		17	20	159				
Hechavarría, Zurian (CUB) (1988)	time	6.23	10.40	14.60	18.90	23.36	28.03	32.87	37.98	43.30	48.83	54.99	6 / 5			
reaction time	0.181	interval	4.17	4.20	4.30	4.46	4.67	4.84	5.11	5.32	5.53	6.16	PB	12.67	13.97	15.96
velocity	7.22	8.39	8.33	8.14	7.85	7.49	7.23	6.85	6.58	6.33	6.49	7.27		8.29	7.52	6.58
H1 lead leg	L	strides	23	15	15	15	16	16	16	17	17	21	186			
Zapletalová, Emma (SVK) (2000)	time	6.46	10.62	14.76	19.15	23.73	28.36	33.16	43.80	49.06	55.00	7 / 6				
reaction time	0.166	interval	4.16	4.14	4.39	4.58	4.63	4.80	10.64	5.26	5.94			12.69	14.01	15.90
velocity	6.97	8.41	8.45	7.97	7.64	7.56	7.29	6.58	6.65	6.73	7.27			8.27	7.49	6.60
H1 lead leg	R	strides	23	15	15	15	15	15	16	16	19	164				
Kloster, Line (NOR) (1990)	time	6.43	10.62	14.90	19.36	24.01	28.76	33.86	44.54	50.10	56.45	2 / 7				
reaction time	0.151	interval	4.19	4.28	4.46	4.65	4.75	5.10	10.68	5.56	6.35			12.93	14.50	16.24
velocity	7.00	8.35	8.18	7.85	7.53	7.37	6.86	6.55	6.29	6.30	7.09			8.12	7.24	6.47
H1 lead leg	R	strides	22	15	15	15	15	16	17	17	130					
Benhadja, Loubna (ALG) (2000)	time	6.76	11.20	15.70	20.23	24.93	29.90	34.83	40.06	45.47	57.19	4 / 8				
reaction time	0.200	interval	4.44	4.50	4.53	4.70	4.97	4.93	5.23	5.41	PB			13.47	14.60	
velocity	6.66	7.88	7.78	7.73	7.45	7.04	7.10	6.69	6.47	6.99				7.80	7.19	
H1 lead leg	R	strides	24	16	16	15	16	16	17	17	136					

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		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bol, Femke (NED) (2000)	time	6.53	10.55	14.76	19.03	23.46	27.96	32.60	37.43	42.60	47.93	54.43	8 / 1					
reaction time	0.194	interval	4.02	4.21	4.27	4.43	4.50	4.64	4.83	5.17	5.33	6.50				12.50	13.57	15.33
velocity	6.89	8.71	8.31	8.20	7.90	7.78	7.54	7.25	6.77	6.57	6.15	7.35				8.40	7.74	6.85
H1 lead leg	L	strides	22	15	15	15	15	15	15	15	16	16	19	178				
Belle, Tia Adana (BAR) (1994)	time	6.51	10.72	14.92	19.33	24.03	28.87	33.83	38.96	44.05	49.47	55.69	7 / 2					
reaction time	0.166	interval	4.21	4.20	4.41	4.70	4.84	4.96	5.13	5.09	5.42	6.22				12.82	14.50	15.64
velocity	6.91	8.31	8.33	7.94	7.45	7.23	7.06	6.82	6.88	6.46	6.43	7.18				8.19	7.24	6.71
H1 lead leg	L	strides	23	15	15	15	16	16	16	16	17	20	184					
Nel, Wenda (RSA) (1988)	time	6.51	10.84	15.23	19.73	24.36	29.10	33.98	39.00	44.20	49.74	56.06	3 / 3					
reaction time	0.194	interval	4.33	4.39	4.50	4.63	4.74	4.88	5.02	5.20	5.54	6.32				13.22	14.25	15.76
velocity	6.91	8.08	7.97	7.78	7.56	7.38	7.17	6.97	6.73	6.32	6.33	7.14				7.94	7.37	6.66
H1 lead leg	L	strides	23	16	16	16	16	17	17	17	18	21.7	193.7					
Turner, Jessica (GBR) (1995)	time	6.70	10.91	15.23	19.63	24.30	29.26	34.40	39.60	45.00	50.50	56.83	5 / 4					
reaction time	0.186	interval	4.21	4.32	4.40	4.67	4.96	5.14	5.20	5.40	5.50	6.33				12.93	14.77	16.10
velocity	6.72	8.31	8.10	7.95	7.49	7.06	6.81	6.73	6.48	6.36	6.32	7.04				8.12	7.11	6.52
H1 lead leg	L	strides	24	15	15	15	17	17	17	17	17	20.5	190.5					
Carli, Sarah (AUS) (1994)	time	6.33	10.51	14.80	19.40	24.43	29.56	34.77	40.13	45.63	56.93	6 / 5						
reaction time	0.167	interval	4.18	4.29	4.60	5.03	5.13	5.21	5.36	5.50						13.07	15.37	
velocity	7.11	8.37	8.16	7.61	6.96	6.82	6.72	6.53	6.36	7.03						8.03	6.83	
H1 lead leg	L	strides	23	15	15	15	16	16	17	17	150							
Giger, Yasmin (SUI) (1999)	time	6.66	10.90	15.33	19.93	24.77	29.80	35.00	40.20	57.03	9 / 6							
reaction time	0.165	interval	4.24	4.43	4.60	4.84	5.03	5.20	5.20							13.27	15.07	
velocity	6.76	8.25	7.90	7.61	7.23	6.96	6.73	6.73	7.01							7.91	6.97	
H1 lead leg	R	strides	23	15	15	15	15	16	16	16	131							

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		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin, Sydney (USA) (1992)	time	6.43	10.63	14.93	19.40	23.90	28.70	33.63	38.50	43.67	48.85	54.65	5 / 1					
reaction time	0.180	interval	4.20	4.30	4.47	4.50	4.80	4.93	4.87	5.17	5.18	5.80				12.97	14.23	15.22
velocity	7.00	8.33	8.14	7.83	7.78	7.29	7.10	7.19	6.77	6.76	6.90	7.32				8.10	7.38	6.90
H1 lead leg	R	strides	22	14	14	14	15	15	15	16	16	18.5	173.5					
Woodruff, Gianna (PAN) (1992)	time	6.60	10.76	15.06	19.50	24.03	28.75	33.70	38.83	44.06	49.45	55.49	7 / 2					
reaction time	0.268	interval	4.16	4.30	4.44	4.53	4.72	4.95	5.13	5.23	5.39	6.04				12.90	14.20	15.75
velocity	6.82	8.41	8.14	7.88	7.73	7.42	7.07	6.82	6.69	6.49	6.62	7.21				8.14	7.39	6.67
H1 lead leg	L	strides	23	15	15	15	15	15	16	16	17	19	181					
Petersen, Sara Scott (DEN) (1988)	time	6.56	15.07	19.50	23.90	28.56	33.46	38.56	43.93	49.46	55.52	9 / 3						
reaction time	0.161	interval		8.51	4.43	4.40	4.66	4.90	5.10	5.37	5.53	6.06				12.94	13.96	16.00
velocity	6.86	8.23	7.90	7.95	7.51	7.14	6.86	6.52	6.33	6.60	7.20					8.11	7.52	6.56
H1 lead leg	R	strides	22	15	15	15	15	15	16	17	17	19.7	166.7					
Nugent, Leah (JAM) (1992)	time	6.58	11.05	15.50	20.05	24.87	29.63	34.56	39.50	44.53	49.73	55.54	6 / 4					
reaction time	0.240	interval	4.47	4.45	4.55	4.82	4.76	4.93	4.94	5.03	5.20	5.81	DQ			13.47	14.51	15.17
velocity	6.84	7.83	7.87	7.69	7.26	7.35	7.10	7.09	6.96	6.73	6.88	7.20				7.80	7.24	6.92

H1 lead leg	R	strides	22	15	14	14	15	15	15	15	15	15	18.2	173.2					
Quach Thi Lan (VIE) (1995)	time		6.46	10.85	15.16	19.53	24.10	28.88	33.83	38.96	44.26	49.67		55.71	8 / 5 4				
reaction time	0.150	interval	4.39	4.31	4.37	4.57	4.78	4.95	5.13	5.30	5.41	6.04				13.07	14.30	15.84	
		velocity	6.97	7.97	8.12	8.01	7.66	7.32	7.07	6.82	6.60	6.47	6.62	7.18		8.03	7.34	6.63	
H1 lead leg	R	strides	22	15	15	15	15	15	15	16	16	16	19	179					
Marchiando, Eleonora (ITA)	time		6.66	15.33	19.86	24.43	29.26	34.40	39.43	44.73	50.20		56.82	3 / 6 5					
reaction time	0.166	interval		8.67	4.53	4.57	4.83	5.14	5.03	5.30	5.47	6.62				13.20	14.54	15.80	
		velocity	6.76	8.07	7.73	7.66	7.25	6.81	6.96	6.60	6.40	6.04	7.04		7.95	7.22	6.65		
H1 lead leg	L	strides	24		16	16	16	17	17	17	17	21.2	161.2						
Mykolenko, Mariya (UKR) (1991)	time		6.73	15.46	19.96	24.66	29.62	34.73		45.76			57.86	4 / 7 6					
reaction time	0.200	interval		8.73	4.50	4.70	4.96	5.11		11.03						13.23	14.77		
		velocity	6.69	8.02	7.78	7.45	7.06	6.85		6.35		6.91		7.94	7.11				
H1 lead leg	R	strides	23	15	15	15	16	16		16		116							
Knight, Jessie (GBR) (1994)	time		fell into hurdle										dnf	2 / --					
reaction time	0.160	interval																	
		velocity																	
H1 lead leg	R	strides	23										23						

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			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ryzhykova, Anna (UKR) (1991)	time		6.56	10.56	14.73	19.00	23.46	28.33	33.26	38.20	43.40	48.66		54.46	2 / 1				
reaction time	0.191	interval	4.00	4.17	4.27	4.46	4.87	4.93	4.94	5.20	5.26	5.80					12.44	14.26	15.40
		velocity	6.86	8.75	8.39	8.20	7.85	7.19	7.10	7.09	6.73	6.65	6.90	7.34		8.44	7.36	6.82	
H1 lead leg	R	strides	22	14	14	14	14	15	15	15	16	16	19	174					
Russell, Janieve (JAM) (1993)	time		6.50	10.60	14.93	19.30	23.95	28.83	33.66	38.57	43.70	48.92		54.81	7 / 2				
reaction time	0.159	interval		4.10	4.33	4.37	4.65	4.88	4.83	4.91	5.13	5.22	5.89				12.80	14.36	15.26
		velocity	6.92	8.54	8.08	8.01	7.53	7.17	7.25	7.13	6.82	6.70	6.79	7.30		8.20	7.31	6.88	
H1 lead leg	R	strides	23	15	15	15	16	16	16	16	16	16	19.7	183.7					
Couckuyt, Paulien (BEL) (1991)	time		6.43	10.57	14.93	19.36	24.08	28.90	33.86	38.76	43.93	49.07		54.90	9 / 3				
reaction time	0.182	interval		4.14	4.36	4.43	4.72	4.82	4.96	4.90	5.17	5.14	5.83	NR PB			12.93	14.50	15.21
		velocity	7.00	8.45	8.03	7.90	7.42	7.26	7.06	7.14	6.77	6.81	6.86	7.29		8.12	7.24	6.90	
H1 lead leg	L	strides	23	15	15	15	16	16	16	16	17	17	20	186					
Olivieri, Linda (ITA) (1998)	time		6.66	10.86	15.26	19.80	24.56	29.47	34.46	39.51	44.50	49.66		55.54	8 / 4				
reaction time	0.130	interval		4.20	4.40	4.54	4.76	4.91	4.99	5.05	4.99	5.16	5.88	=PB			13.14	14.66	15.20
		velocity	6.76	8.33	7.95	7.71	7.35	7.13	7.01	6.93	7.01	6.78	6.80	7.20		7.99	7.16	6.91	
H1 lead leg	R	strides	23	15	15	15	15	16	16	16	16	17	20	184					
Lehikoinen, Viivi (FIN) (1999)	time		6.50	10.80	15.30	19.90	24.73	29.51	34.30	39.23	44.34	49.60		55.67	6 / 5				
reaction time	0.155	interval		4.30	4.50	4.60	4.83	4.78	4.79	4.93	5.11	5.26	6.07				13.40	14.40	15.30
		velocity	6.92	8.14	7.78	7.61	7.25	7.32	7.31	7.10	6.85	6.65	6.59	7.19		7.84	7.29	6.86	
H1 lead leg	R	strides	23	16	16	16	16	16	16	16	17	17	20.5	189.5					
Montcalm, Noelle (CAN) (1991)	time		6.50	10.60	14.93	19.30	23.90	28.76	33.80	38.93	44.17	49.56		55.85	3 / 6				
reaction time	0.197	interval		4.10	4.33	4.37	4.60	4.86	5.04	5.13	5.24	5.39	6.29				12.80	14.50	15.76
		velocity	6.92	8.54	8.08	8.01	7.61	7.20	6.94	6.82	6.68	6.49	6.36	7.16		8.20	7.24	6.66	
H1 lead leg	R	strides	24	16	16	16	16	16	17	17	17	17	21.2	193.2					
Beesley, Meghan (GBR) (1996)	time		6.40	10.50	14.93	19.33	24.07	28.87	33.80	38.93	44.17	49.57		55.91	5 / 7				
reaction time	0.165	interval		4.10	4.43	4.40	4.74	4.80	4.93	5.13	5.24	5.40	6.34				12.93	14.47	15.77
		velocity	7.03	8.54	7.90	7.95	7.38	7.29	7.10	6.82	6.68	6.48	6.31	7.15		8.12	7.26	6.66	
H1 lead leg	L	strides	24	16	16	16	16	17	17	17	18	18	22.5	197.5					
da Silva, Chayenne (BRA) (2000)	time		6.70	10.96	15.53	20.13	24.90	29.77	34.86	40.04	45.46		57.55	4 / 8					
reaction time	0.165	interval		4.26	4.57	4.60	4.77	4.87	5.09	5.18	5.42						13.43	14.73	
		velocity	6.72	8.22	7.66	7.61	7.34	7.19	6.88	6.76	6.46		6.95		7.82	7.13			
H1 lead leg	L	strides	23	15	15	15	16	16	17	17	17		151						

Heat 1

date 31-Jul-21

Henson (2024) - Athlete First: 2021 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tkachuk, Viktoriya (UKR) (1991)	time		6.48	10.65	14.93	19.34	23.76	28.36	33.03	38.02	43.23	48.61		54.80	9 / 1				
reaction time	0.256	interval		4.17	4.28	4.41	4.42	4.60	4.67	4.99	5.21	5.38	6.19				12.86	13.69	15.58
		velocity	6.94	8.39	8.18	7.94	7.92	7.61	7.49	7.01	6.72	6.51	6.46	7.30		8.16	7.67	6.74	
H1 lead leg	L	strides	22	15	15	15	15	15	15	15	15	16	16	19.5	178.5				
Gonzalez, Melissa (COL) (1991)	time		6.33	10.46	14.83	19.33	23.93	28.76	33.66	38.82	43.98	49.30		55.32	3 / 2				
reaction time	0.146	interval		4.13	4.37	4.50	4.60	4.83	4.90	5.16	5.16	5.32	6.02	AR PB			13.00	14.33	15.64
		velocity	7.11	8.47	8.01	7.78	7.61	7.25	7.14	6.78	6.78	6.58	6.64	7.23		8.08	7.33	6.71	
H1 lead leg	L	strides	23	15	15	15	15	16	16	16	16	17	20	185					
Cockrell, Anna (USA) (1997)	time		6.30	10.43	14.70	19.23	23.86	28.70	33.50	38.68	43.77	49.13		55.37	7 / 3				
reaction time	0.213	interval		4.13	4.27	4.53	4.63	4.84	4.80	5.18	5.09	5.36	6.24				12.93	14.27	15.63

	velocity	7.14	8.47	8.20	7.73	7.56	7.23	7.29	6.76	6.88	6.53	6.41	7.22	8.12	7.36	6.72
H1 lead leg	L	strides	22	15	15	15	15	15	16	16	16	20	180			
Watson, Sage (CAN) (1994)	time	6.43	10.67	15.06	19.53	24.13	28.82	33.63	38.63	44.06	49.52		55.54	8 / 4		
reaction time	0.176	interval	4.24	4.39	4.47	4.60	4.69	4.81	5.00	5.43	5.46	6.02		13.10	14.10	15.89
	velocity	7.00	8.25	7.97	7.83	7.61	7.46	7.28	7.00	6.45	6.41	6.64	7.20	8.02	7.45	6.61
H1 lead leg	R	strides	22	15	15	15	15	15	15	17	17	20	181			
Pedroso, Yadisleidis (ITA) (1	time	6.43	10.63	14.93	19.47	24.03	28.77	33.67	38.60	43.70	49.33		55.57	6 / 5		
reaction time	0.186	interval	4.20	4.30	4.54	4.56	4.74	4.90	4.93	5.10	5.63	6.24		13.04	14.20	15.66
	velocity	7.00	8.33	8.14	7.71	7.68	7.38	7.14	7.10	6.86	6.22	6.41	7.20	8.05	7.39	6.70
H1 lead leg	R	strides	24	16	16	16	17	17	17	17	19	21.2	196.2			
luel, Amalie (NOR) (1994)	time	6.53	10.67	14.96	19.50	24.05	28.82	33.67	38.83	44.00	49.50		55.65	5 / 6		
reaction time	0.129	interval	4.14	4.29	4.54	4.55	4.77	4.85	5.16	5.17	5.50	6.15		12.97	14.17	15.83
	velocity	6.89	8.45	8.16	7.71	7.69	7.34	7.22	6.78	6.77	6.36	6.50	7.19	8.10	7.41	6.63
H1 lead leg	L	strides	23	15	15	15	15	15	16	16	17	20	182			
Jamal, Aminat (BRN) (1997)	time	6.43	10.60	14.86	19.30	23.80	28.53	33.50	38.67	44.00	49.65		55.90	2 / 7		
reaction time	0.208	interval	4.17	4.26	4.44	4.50	4.73	4.97	5.17	5.33	5.65	6.25		12.87	14.20	16.15
	velocity	7.00	8.39	8.22	7.88	7.78	7.40	7.04	6.77	6.57	6.19	6.40	7.16	8.16	7.39	6.50
H1 lead leg	R	strides	22	15	15	15	15	15	16	16	17	20	181			
Claes, Hanne (BEL) (1991)	time	6.48	10.76	15.10	19.62	24.16	28.93	33.86	39.07	44.47	50.03		56.38	4 / 8		
reaction time	0.174	interval	4.28	4.34	4.52	4.54	4.77	4.93	5.21	5.40	5.56	6.35		13.14	14.24	16.17
	velocity	6.94	8.18	8.06	7.74	7.71	7.34	7.10	6.72	6.48	6.29	6.30	7.09	7.99	7.37	6.49
H1 lead leg	R	strides	23	15	15	15	16	16	16	17	18	166				

2021 Japanese High School National Championships (Fukui, JPN)

FINAL

date 30-Jul-21

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

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Taneru, Asuruhan Marino (J	time	6.69	11.21	15.98	20.75	25.59		30.86	36.09	41.36	46.68	52.04		57.98	4 / 1			
reaction time	0.151	interval	4.52	4.77	4.77	4.84		5.27	5.23	5.27	5.32	5.36	5.94	PB		14.06	15.34	15.95
	velocity	6.73	7.74	7.34	7.34	7.23		6.64	6.69	6.64	6.58	6.53	6.73	6.90		7.47	6.84	6.58
H1 lead leg		strides	16	16	16	16		17	17	18	18	18	152					
Kawachi, Sena (JPN) (2003)	time	6.77	11.31	16.10	21.01	26.06		31.10	36.19	41.57	46.97	52.43		58.32	3 / 2			
reaction time	0.192	interval	4.54	4.79	4.91	5.05		5.04	5.09	5.38	5.40	5.46	5.89		14.24	15.18	16.24	
	velocity	6.65	7.71	7.31	7.13	6.93		6.94	6.88	6.51	6.48	6.41	6.79	6.86		7.37	6.92	6.47
H1 lead leg		strides	16	16	16	17		17	17	17	18	18	152					
Okawa, Sumika (JPN) (2003)	time	6.72	11.11	15.73	20.65	25.66		30.73	36.02	41.62	47.32	53.35		60.11	6 / 3			
reaction time	0.168	interval	4.39	4.62	4.92	5.01		5.07	5.29	5.60	5.70	6.03	6.76		13.93	15.37	17.33	
	velocity	6.70	7.97	7.58	7.11	6.99		6.90	6.62	6.25	6.14	5.80	5.92	6.65		7.54	6.83	6.06
H1 lead leg		strides	15	15	16	16		16	16	17	17	17	145					
Kusaka, Ayana (JPN) (2003)	time	6.73	11.36	16.07	20.95	25.96		31.03	36.40	42.28	48.14	54.14		60.46	7 / 4			
reaction time	0.173	interval	4.63	4.71	4.88	5.01		5.07	5.37	5.88	5.86	6.00	6.32		14.22	15.45	17.74	
	velocity	6.69	7.56	7.43	7.17	6.99		6.90	6.52	5.95	5.97	5.83	6.33	6.62		7.38	6.80	5.92
H1 lead leg		strides	15	15	16	16		16	16	17	17	18	146					
Naito, Kano (JPN) (2004)	time	6.68	11.16	15.93	20.94	26.18		31.63	37.02	42.90	48.74	54.54		60.54	5 / 5			
reaction time	0.196	interval	4.48	4.77	5.01	5.24		5.45	5.39	5.88	5.84	5.80	6.00		14.26	16.08	17.52	
	velocity	6.74	7.81	7.34	6.99	6.68		6.42	6.49	5.95	5.99	6.03	6.67	6.61		7.36	6.53	5.99
H1 lead leg		strides	17	17	17	17		19	17	19	19	19	161					
Hamachiyo, Rinka (JPN) (20	time	6.92	11.61	16.68	21.83	27.00		32.30	37.90	43.67	49.46	55.38		61.44	2 / 6			
reaction time	0.168	interval	4.69	5.07	5.15	5.17		5.30	5.60	5.77	5.79	5.92	6.06		14.91	16.07	17.48	
	velocity	6.50	7.46	6.90	6.80	6.77		6.60	6.25	6.07	6.04	5.91	6.60	6.51		7.04	6.53	6.01
H1 lead leg		strides	17	18	17	17		18	18	18	19	19	161					
Otsu, Yui (JPN) (2004)	time	6.90	11.54	16.48	21.57	26.80		32.22	37.79	43.62	49.50	55.49		62.06	1 / 7			
reaction time	0.190	interval	4.64	4.94	5.09	5.23		5.42	5.57	5.83	5.88	5.99	6.57		14.67	16.22	17.70	
	velocity	6.52	7.54	7.09	6.88	6.69		6.46	6.28	6.00	5.95	5.84	6.09	6.45		7.16	6.47	5.93
H1 lead leg		strides	16	17	17	18		18	18	19	19	19	161					
Kudo, Mitsuki (JPN) (2004)	time	7.40	12.31	17.40	22.56	28.01		33.45	38.89	44.56	50.27	56.10		62.41	8 / 8			
reaction time	0.285	interval	4.91	5.09	5.16	5.45		5.44	5.44	5.67	5.71	5.83	6.31		15.16	16.33	17.21	
	velocity	6.08	7.13	6.88	6.78	6.42		6.43	6.43	6.17	6.13	6.00	6.34	6.41		6.93	6.43	6.10
H1 lead leg		strides	19	19	17	19		19	19	19	19	19	169					

2021 Chinese Student Games (Qingdao, CHN)

FINAL

date 14-Jul-21

CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mo Jiadie (CHN) (2000)	time	6.74	11.17	15.61	20.28	25.05		29.99	35.09	40.43	45.80	51.23		57.50	5 / 1			
reaction time		interval	4.43	4.44	4.67	4.77		4.94	5.10	5.34	5.37	5.43	6.27			13.54	14.81	16.14
	velocity	6.68	7.90	7.88	7.49	7.34		7.09	6.86	6.55	6.52	6.45	6.38	6.96		7.75	7.09	6.51
H1 lead leg	L	strides	24	16	16	16		17	17	18	18	18	21.2	197.2				

2021 Müller British Grand Prix (Gateshead, GBR) (TV Analysis)**FINAL**

date 13-Jul-21

Henson (2021) - Athlete First: 2021 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Boi, Femke (NED) (2000)	time	6.38	10.42	14.60	18.90	23.30	25.2	27.78	32.42	37.28	42.28	47.38		53.24	5 / 1			
	reaction time	0.214	interval	4.04	4.18	4.30	4.40	4.48	4.64	4.86	5.00	5.10	5.86			12.52	13.52	14.96
	velocity	7.05	8.66	8.37	8.14	7.95	7.94	7.81	7.54	7.20	7.00	6.86	6.83	7.51		8.39	7.77	7.02
	H1 lead leg	L	strides	22	15	15	15	15	15	15	15	15	19	176				
Little, Shamier (USA) (1995)	time	6.40	10.56	14.82	19.16	23.58	25.5	28.12	32.92	37.90	43.10	48.38		54.53	4 / 2			
	reaction time	0.214	interval	4.16	4.26	4.34	4.42	4.54	4.80	4.98	5.20	5.28	6.15			12.76	13.76	15.46
	velocity	7.03	8.41	8.22	8.06	7.92	7.84	7.71	7.29	7.03	6.73	6.63	6.50	7.34		8.23	7.63	6.79
	H1 lead leg	L	strides	23	15	15	15	15	16	16	16	17	19	182				
Russell, Janieve (JAM) (1993)	time	6.30	10.48	14.76	19.08	23.54	25.5	28.14	32.94	37.94	43.10	48.40		54.66	6 / 3			
	reaction time	0.106	interval	4.18	4.28	4.32	4.46	4.60	4.80	5.00	5.16	5.30	6.26			12.78	13.86	15.46
	velocity	7.14	8.37	8.18	8.10	7.85	7.84	7.61	7.29	7.00	6.78	6.60	6.39	7.32		8.22	7.58	6.79
	H1 lead leg	R	strides	23	15	15	15	15	16	16	17	17	20.5	184.5				
Knight, Jessie (GBR) (1994)	time	6.34	10.56	14.90	19.30	23.80	25.7	28.46	33.32	38.36	43.60	48.78		54.69	3 / 4			
	reaction time	0.147	interval	4.22	4.34	4.40	4.50	4.66	4.86	5.04	5.24	5.18	5.91			12.96	14.02	15.46
	velocity	7.10	8.29	8.06	7.95	7.78	7.78	7.51	7.20	6.94	6.68	6.76	6.77	7.31		8.10	7.49	6.79
	H1 lead leg	R	strides	23	15	15	15	15	15	15	16	16	19	179				
Hailey, Nnanya (USA) (1994)	time	6.30	10.44	14.82	19.28	23.84	25.8	28.58	33.44	38.38	43.46	48.98		55.16	7 / 5			
	reaction time	0.181	interval	4.14	4.38	4.46	4.56	4.74	4.86	4.94	5.08	5.52	6.18			12.98	14.16	15.54
	velocity	7.14	8.45	7.99	7.85	7.68	7.75	7.38	7.20	7.09	6.89	6.34	6.47	7.25		8.09	7.42	6.76
	H1 lead leg	L	strides	24	16	16	16	16	17	18	17	18	21.7	195.7				
Sprunger, Leá (SUI) (1990)	time	6.30	10.52	14.82	19.20	23.78	25.7	28.46	33.34	38.50	43.72	49.18		55.39	8 / 6			
	reaction time	0.123	interval	4.22	4.30	4.38	4.58	4.68	4.88	5.16	5.22	5.46	6.21			12.90	14.14	15.84
	velocity	7.14	8.29	8.14	7.99	7.64	7.78	7.48	7.17	6.78	6.70	6.41	6.44	7.22		8.14	7.43	6.63
	H1 lead leg	R	strides	21	14	14	14	15	15	15	16	16	19	173				
Beesley, Meghan (GBR) (1996)	time	6.38	10.64	15.02	19.42	24.00	26.0	28.76	33.80	39.06	44.72	50.40		57.04	1 / 7			
	reaction time	0.145	interval	4.26	4.38	4.40	4.58	4.76	5.04	5.26	5.66	5.68	6.64			13.04	14.38	16.60
	velocity	7.05	8.22	7.99	7.95	7.64	7.69	7.35	6.94	6.65	6.18	6.16	6.02	7.01		8.05	7.30	6.33
	H1 lead leg	L	strides	24	16	16	16	17	18	18	19	19	23	202				

2021 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)**FINAL**

date 06-Jul-21

Henson (2021) - Athlete First: 2021 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Boi, Femke (NED) (2000)	time	6.40	10.41	14.56	18.77	23.02		27.49	32.20	36.97	41.97	47.14		52.81	5 / 1			
	reaction time	0.247	interval	4.01	4.15	4.21	4.25	4.47	4.71	4.77	5.00	5.17	5.67			12.37	13.43	14.94
	velocity	7.03	8.73	8.43	8.31	8.24		7.83	7.43	7.34	7.00	6.77	7.05	7.57		8.49	7.82	7.03
	H1 lead leg	L	strides	22	15	15	15	15	15	15	15	15	19.2	161.2				
Little, Shamier (USA) (1995)	time	6.40	10.58	14.78	19.04	23.39		27.83	32.42	37.23	42.12	47.21		52.85	6 / 2			
	reaction time	0.339	interval	4.18	4.20	4.26	4.35	4.44	4.59	4.81	4.89	5.09	5.64			12.64	13.38	14.79
	velocity	7.03	8.37	8.33	8.22	8.05		7.88	7.63	7.28	7.16	6.88	7.09	7.57		8.31	7.85	7.10
	H1 lead leg	R	strides	22	15	15	15	15	15	16	16	16	19.5	164.5				
Russell, Janieve (JAM) (1993)	time	6.27	10.46	14.60	18.92	23.27		27.79	32.52	37.47	42.49	47.64		53.68	4 / 3			
	reaction time	0.168	interval	4.19	4.14	4.32	4.35	4.52	4.73	4.95	5.02	5.15	6.04			12.65	13.60	15.12
	velocity	7.18	8.35	8.45	8.10	8.05		7.74	7.40	7.07	6.97	6.80	6.62	7.45		8.30	7.72	6.94
	H1 lead leg	R	strides	23	15	15	15	15	16	16	17	20	167					
Tkachuk, Viktoriya (UKR) (1988)	time	6.34	10.56	14.80	19.14	23.56		28.15	32.86	37.70	42.87	48.03		54.02	8 / 4			
	reaction time	0.260	interval	4.22	4.24	4.34	4.42	4.59	4.71	4.84	5.17	5.16	5.99	PB		12.80	13.72	15.17
	velocity	7.10	8.29	8.25	8.06	7.92		7.63	7.43	7.23	6.77	6.78	6.68	7.40		8.20	7.65	6.92
	H1 lead leg	L	strides	15	15	15	15	15	15	15	16	16	19.2	141.2				
Hailey, Nnanya (USA) (1994)	time	6.40	10.51	14.61	18.97	23.49		28.19		38.05	43.14	48.34		54.42	2 / 5			
	reaction time	0.338	interval	4.11	4.10	4.36	4.52	4.70		9.86	5.09	5.20	6.08			12.57		
	velocity	7.03	8.52	8.54	8.03	7.74		7.45		7.10	6.88	6.73	6.58	7.35		8.35		
	H1 lead leg	L	strides	16	16	16	17	17		18	18	18	118					
Sprunger, Leá (SUI) (1990)	time	6.30	10.53	14.80	19.12	23.64		28.44	33.40	38.67	44.19			56.24	7 / 6			
	reaction time	0.224	interval	4.23	4.27	4.32	4.52	4.80	4.96	5.27	5.52					12.82	14.28	
	velocity	7.14	8.27	8.20	8.10	7.74		7.29	7.06	6.64	6.34			7.11		8.19	7.35	
	H1 lead leg	R	strides	15	14	14	15	15	16	16	17		122					
Watson, Sage (CAN) (1994)	time	6.34			19.17	23.69		28.43		38.84	44.36	49.98		56.32	1 / 7			
	reaction time	0.167			12.83	4.52		4.74		10.41	5.52	5.62	6.34			12.83		
	velocity	7.10			8.18	7.74		7.38		6.72	6.34	6.23	6.31	7.10		8.18		
	H1 lead leg	R	strides		15			15		17	17		64					
Spencer, Ashley (USA) (1993)	time	6.44	10.61	14.90	19.20	23.76		28.63		39.07	44.64	50.30		56.91	3 / 8			

reaction time	0.204	interval	4.17	4.29	4.30	4.56	4.87	10.44	5.57	5.66	6.61	12.76		
		velocity	6.99	8.39	8.16	8.14	7.68	7.19	6.70	6.28	6.18	6.05	7.03	8.23
H1 lead leg	L	strides	15	15	14	14	15		16	16		105		

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

date 04-Jul-21

Henson (2021) - Athlete First: 2021 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bol, Femke (NED) (2000)	time	6.24	10.24	14.26	18.45	22.78	24.8	27.31	31.96	36.72	41.58	46.60		52.37	5 / 1			
	reaction time	0.195	interval	4.00	4.02	4.19	4.33	4.53	4.65	4.76	4.86	5.02	5.77	NR PB		12.21	13.51	14.64
			velocity	7.21	8.75	8.71	8.35	8.08	8.06	7.73	7.53	7.35	7.20	6.97	6.93	8.60	7.77	7.17
	H1 lead leg	L	strides	15	15	15	15	15	15	15	15	15	15	19	154			
Little, Shamier (USA) (1995)	time	6.18	10.28	14.42	18.78	23.28	25.2	27.72	32.26	36.92	41.72	46.72		52.39	6 / 2			
	reaction time	0.200	interval	4.10	4.14	4.36	4.50	4.44	4.54	4.66	4.80	5.00	5.67	PB		12.60	13.48	14.46
			velocity	7.28	8.54	8.45	8.03	7.78	7.94	7.88	7.71	7.51	7.29	7.00	7.05	8.33	7.79	7.26
	H1 lead leg	R	strides	15	15	15	15	15	15	15	15	16	16	19.7	156.7			
Ryzhykova, Anna (UKR) (1991)	time	6.34	10.30	14.36		22.84	24.8	27.42	32.12	36.88	41.78	47.02		52.96	3 / 3			
	reaction time	0.183	interval	3.96	4.06		8.48	4.58	4.70	4.76	4.90	5.24	5.94	NR PB				14.90
			velocity	7.10	8.84	8.62	8.25	8.06	7.64	7.45	7.35	7.14	6.68	6.73	7.55			7.05
	H1 lead leg	R	strides	22	14	14		15	15	15	15	16	19.2	145.2				
Russell, Janieve (JAM) (1993)	time	6.25	10.40	14.58		23.34	25.3	27.86	32.62	37.54	42.48	47.72		54.08	4 / 4			
	reaction time	0.151	interval	4.15	4.18		8.76	4.52	4.76	4.92	4.94	5.24	6.36					15.10
			velocity	7.20	8.43	8.37	7.99	7.91	7.74	7.35	7.11	7.09	6.68	6.29	7.40			6.95
	H1 lead leg	R	strides	15	15			15	16	16	16	16	20	129				
Tkachuk, Viktoriya (UKR) (1988)	time	6.34	10.46	14.68	19.15	23.70	25.8	28.42	33.28	38.16	43.16	48.32		54.39	7 / 5			
	reaction time	0.254	interval	4.12	4.22	4.47	4.55	4.72	4.86	4.88	5.00	5.16	6.07	PB		12.81	14.13	15.04
			velocity	7.10	8.50	8.29	7.83	7.69	7.75	7.42	7.20	7.17	7.00	6.78	6.59	8.20	7.43	6.98
	H1 lead leg	L	strides	15	15	15	15	15	16	16	16	16	19.2	158.2				
Nugent, Leah (JAM) (1992)	time	6.24	10.32	14.60		23.54	25.7	28.30		38.14	43.20	48.64		55.01	1 / 6			
	reaction time	0.193	interval	4.08	4.28		8.94	4.76		9.84	5.06	5.44	6.37					
			velocity	7.21	8.58	8.18	7.83	7.78	7.35	7.11	6.92	6.43	6.28	7.27				
	H1 lead leg	R	strides	14	14			15			15	16	19	93				
Krafzik, Carolina (GER) (1991)	time	6.22	10.18	14.30		23.18	25.3	27.96	32.98	38.14	43.32	48.78		55.20	2 / 7			
	reaction time	0.187	interval	3.96	4.12		8.88	4.78	5.02	5.16	5.18	5.46	6.42					15.80
			velocity	7.23	8.84	8.50	7.88	7.91	7.32	6.97	6.78	6.76	6.41	6.23	7.25			6.65
	H1 lead leg	L	strides	22	15	15		16	17	17	17	19	21.7	159.7				
Sprunger, Leá (SUI) (1990)	time	6.20	10.30	14.56		23.56	25.6	28.26	33.04		43.28	48.90		55.27	8 / 8			
	reaction time	0.186	interval	4.10	4.26		9.00	4.70	4.78		10.24	5.62	6.37					15.86
			velocity	7.26	8.54	8.22	7.78	7.81	7.45	7.32	6.84	6.23	6.28	7.24				6.62
	H1 lead leg	R	strides	15	14			15	15	15		16		90				

2021 Bislett Games (Oslo, NOR) (TV Analysis)**FINAL**

date 01-Jul-21

Henson (2021) - Athlete First: 2021 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bol, Femke (NED) (2000)	time	6.32	10.44	14.56	18.80	23.20		27.64	32.32	37.16	42.12	47.32		53.33	4 / 1			
	reaction time	0.199	interval	4.12	4.12	4.24	4.40	4.44	4.68	4.84	4.96	5.20	6.01	NR PB		12.48	13.52	15.00
			velocity	7.12	8.50	8.50	8.25	7.95	7.88	7.48	7.23	7.06	6.73	6.66	7.50	8.41	7.77	7.00
	H1 lead leg	L	strides	22	15	15	15	15	15	15	15	15	19.2	176.2				
Ryzhykova, Anna (UKR) (1991)	time	6.48	10.56	14.68	19.00	23.44		28.12	32.84	37.72	42.68	48.04		54.15	5 / 2			
	reaction time	0.185	interval	4.08	4.12	4.32	4.44	4.68	4.72	4.88	4.96	5.36	6.11	PB		12.52	13.84	15.20
			velocity	6.94	8.58	8.50	8.10	7.88	7.48	7.42	7.17	7.06	6.53	6.55	7.39	8.39	7.59	6.91
	H1 lead leg	R	strides	22	14	14	14	14	15	15	15	16	19.5	173.5				
Tkachuk, Viktoriya (UKR) (1988)	time	6.36	10.60	14.88		23.72		28.32	33.08	38.04	43.20	48.46		54.62	2 / 3			
	reaction time	0.250	interval	4.24	4.28		8.84	4.60	4.76	4.96	5.16	5.26	6.16					15.38
			velocity	7.08	8.25	8.18	7.92	7.61	7.35	7.06	6.78	6.65	6.49	7.32				6.83
	H1 lead leg	L	strides	22	15	15	15	15	15	16	16	16	20	165				
Iuel, Amalie (NOR) (1994)	time	6.44	10.58	14.84		23.78		28.50	33.34	38.36	43.50	48.84		55.04	7 / 4			
	reaction time	0.150	interval	4.14	4.26		8.94	4.72	4.84	5.02	5.14	5.34	6.20					15.50
			velocity	6.99	8.45	8.22	7.83	7.42	7.23	6.97	6.81	6.55	6.45	7.27				6.77
	H1 lead leg	L	strides	23	15	15	15	15	15	16	16	16	19.2	165.2				
Nugent, Leah (JAM) (1992)	time	6.44	10.68	15.00	19.72	24.44		29.16	33.92	38.88	44.12	49.28		55.37	3 / 5			
	reaction time	0.233	interval	4.24	4.32	4.72	4.72	4.72	4.76	4.96	5.24	5.16	6.09			13.28	14.20	15.36
			velocity	6.99	8.25	8.10	7.42	7.42	7.42	7.35	7.06	6.68	6.78	6.57	7.22	7.91	7.39	6.84
	H1 lead leg	R	strides	22	14	14	14	15	14	15	15	15	18.7	156.7				
Sprunger, Leá (SUI) (1990)	time	6.40	10.64	14.90	19.32	23.84		28.52	33.40	38.48	43.72	49.26		55.46	6 / 6			
	reaction time	0.152	interval	4.24	4.26	4.42	4.52	4.68	4.88	5.08	5.24	5.54	6.20			12.92	14.08	15.86
			velocity	7.03	8.25	8.22	7.92	7.74	7.48	7.17	6.89	6.68	6.32	6.45	7.21	8.13	7.46	6.62

H1 lead leg	R	strides	22	15	14	14	15	15	15	15	16	16	19	176	
Watson, Sage (CAN) (1994)	time		6.44	10.60	14.88		23.76	28.52	33.48	38.56	44.04	49.84		56.52	8 / 7
	reaction time	0.204	interval	4.16	4.28		8.88	4.76	4.96	5.08	5.48	5.80	6.68		16.36
			velocity	6.99	8.41	8.18	7.88	7.35	7.06	6.89	6.39	6.03	5.99	7.08	6.42
H1 lead leg	R	strides	22	15	15		16	16	16	16	17	18	20.5	171.5	

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

date 27-Jun-21

Sugimoto (2021) - race analysis of men's and women's 400m hurdles in the 2021 season

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Yamamoto, Ami (JPN) (2002)	time		6.82	11.29	15.85	20.49	25.24		30.11	35.09	40.22	45.63	51.15		57.30	5 / 1			
	reaction time	0.193	interval	4.47	4.56	4.64	4.75		4.87	4.98	5.13	5.41	5.52	6.15			13.67	14.60	16.06
			velocity	6.60	7.83	7.68	7.54	7.37	7.19	7.03	6.82	6.47	6.34	6.50	6.98		7.68	7.19	6.54
H1 lead leg	L	strides	24	16	16	16	16		17	17	17	18	18	21.5	196.5				
Utsunomiya, Eri (JPN) (1993)	time		6.57	10.84	15.23	19.77	24.37		29.28	34.38	39.66	45.20	50.97		57.83	4 / 2			
	reaction time	0.194	interval	4.27	4.39	4.54	4.60		4.91	5.10	5.28	5.54	5.77	6.86			13.20	14.61	16.59
			velocity	6.85	8.20	7.97	7.71	7.61	7.13	6.86	6.63	6.32	6.07	5.83	6.92		7.95	7.19	6.33
H1 lead leg	R	strides	23	15	15	15	15		16	16	17	17	17	22	188				
Ibrahim, Ayesha (JPN) (1998)	time		6.71	10.98	15.42	19.97	24.71		29.65	34.72	40.02	45.58	51.43		58.16	9 / 3			
	reaction time	0.270	interval	4.27	4.44	4.55	4.74		4.94	5.07	5.30	5.56	5.85	6.73			13.26	14.75	16.71
			velocity	6.71	8.20	7.88	7.69	7.38	7.09	6.90	6.60	6.29	5.98	5.94	6.88		7.92	7.12	6.28
H1 lead leg	R	strides	22	14	15	15	15		15	15	15	16	17	21	180				
Ito, Akiko (JPN) (1995)	time		6.59	10.96	15.57	20.35	25.31		30.31	35.44	40.76	46.33	52.07		58.76	7 / 4			
	reaction time	0.166	interval	4.37	4.61	4.78	4.96		5.00	5.13	5.32	5.57	5.74	6.69			13.76	15.09	16.63
			velocity	6.83	8.01	7.59	7.32	7.06	7.00	6.82	6.58	6.28	6.10	5.98	6.81		7.63	6.96	6.31
H1 lead leg	L	strides	23	15	15	16	16		16	16	17	17	17	21.2	189.2				
Yokota, Karen (JPN) (1999)	time		6.66	11.16	15.72	20.47	25.33		30.33	35.47	40.79	46.30	52.09		58.79	6 / 5			
	reaction time	0.182	interval	4.50	4.56	4.75	4.86		5.00	5.14	5.32	5.51	5.79	6.70			13.81	15.00	16.62
			velocity	6.76	7.78	7.68	7.37	7.20	7.00	6.81	6.58	6.35	6.04	5.97	6.80		7.60	7.00	6.32
H1 lead leg	L	strides	23	16	16	16	16		17	17	17	17	17	21.7	193.7				
Aoki, Honoka (JPN) (2001)	time		6.76	11.21	15.75	20.44	25.24		30.23	35.49	40.87	46.51	52.34		58.82	2 / 6			
	reaction time	0.236	interval	4.45	4.54	4.69	4.80		4.99	5.26	5.38	5.64	5.83	6.48			13.68	15.05	16.85
			velocity	6.66	7.87	7.71	7.46	7.29	7.01	6.65	6.51	6.21	6.00	6.17	6.80		7.68	6.98	6.23
H1 lead leg	L	strides	24	16	16	16	16		17	17	17	18	18	21.7	196.7				
Tsuha, Aiki (JPN) (2000)	time		6.86	11.38	16.00	20.72	25.64		30.63	35.74	41.32	46.96	52.72		59.41	3 / 7			
	reaction time	0.324	interval	4.52	4.62	4.72	4.92		4.99	5.11	5.58	5.64	5.76	6.69			13.86	15.02	16.98
			velocity	6.56	7.74	7.58	7.42	7.11	7.01	6.85	6.27	6.21	6.08	5.98	6.73		7.58	6.99	6.18
H1 lead leg	L	strides	25	17	17	17	17		17	17	19	19	19	184					
Murakami, Natsumi (JPN) (1991)	time		6.84	11.24	15.83	20.64	25.49		30.58	35.84	41.34	47.24	53.37		60.42	8 / 8			
	reaction time	0.219	interval	4.40	4.59	4.81	4.85		5.09	5.26	5.50	5.90	6.13	7.05			13.80	15.20	17.53
			velocity	6.58	7.95	7.63	7.28	7.22	6.88	6.65	6.36	5.93	5.71	5.67	6.62		7.61	6.91	5.99
H1 lead leg	R	strides	23	15	15	16	16		17	17	17	18	18	172					

Heat 1

date 26-Jun-21

Wamani (2023) - race analysis of men's and women's 400m hurdles in the 2022 season

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Yamamoto, Ami (JPN) (2002)	time		6.86	11.34	15.83	20.39	25.06		30.00	35.14	40.32	45.60	51.00		57.04	6 / 1			
	reaction time	0.232	interval	4.48	4.49	4.56	4.67		4.94	5.14	5.18	5.28	5.40	6.04	PB		13.53	14.75	15.86
			velocity	6.56	7.81	7.80	7.68	7.49	7.09	6.81	6.76	6.63	6.48	6.62	7.01		7.76	7.12	6.62
H1 lead leg	L	strides	24	16	16	16	16		17	17	17	17	17	20.7	193.7				

2021 Japanese U20 National Championships (Osaka, JPN)**FINAL**

date 27-Jun-21

Sugimoto (2021) - race analysis of men's and women's 400m hurdles in the 2021 season

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kudo, Mei (JPN) (2002)	time		6.99	11.59	16.43	21.39	26.46		31.53	36.64	41.86	47.43	53.05		58.97	6 / 1			
	reaction time	0.186	interval	4.60	4.84	4.96	5.07		5.07	5.11	5.22	5.57	5.62	5.92	PB		14.40	15.25	16.41
			velocity	6.44	7.61	7.23	7.06	6.90	6.90	6.85	6.70	6.28	6.23	6.76	6.78		7.29	6.89	6.40
H1 lead leg	L	strides	24	17	17	17	17		17	17	17	18	18	21.2	200.2				
Taneru, Asuruhan Marino (JPN) (2001)	time		6.71	11.21	15.87	20.77	25.79		30.95	36.32	41.79	47.31	52.94		59.07	7 / 2			
	reaction time	0.152	interval	4.50	4.66	4.90	5.02		5.16	5.37	5.47	5.52	5.63	6.13	PB		14.06	15.55	16.62
			velocity	6.71	7.78	7.51	7.14	6.97	6.78	6.52	6.40	6.34	6.22	6.53	6.77		7.47	6.75	6.32
H1 lead leg	L	strides	24	16	16	17	17		17	18	18	18	19	22	202				
Okawa, Sumika (JPN) (2003)	time		6.86	11.31	15.93	20.74	25.63		30.68	35.95	41.31	46.81	52.64		59.22	2 / 3			
	reaction time	0.190	interval	4.45	4.62	4.81	4.89		5.05	5.27	5.36	5.50	5.83	6.58			13.88	15.21	16.69
			velocity	6.56	7.87	7.58	7.28	7.16	6.93	6.64	6.53	6.36	6.00	6.08	6.75		7.56	6.90	6.29
H1 lead leg	R	strides	23	15	15	16	16		16	16	17	17	18	22.2	191.2				
Naito, Kano (JPN) (2004)	time		6.77	11.29	16.02	20.89	25.94		31.08	36.60	42.21	47.88	53.65		60.30	5 / 4			
	reaction time	0.231	interval	4.52	4.73	4.87	5.05		5.14	5.52	5.61	5.67	5.77	6.65	PB		14.12	15.71	17.05
			velocity	6.65	7.74	7.40	7.19	6.93	6.81	6.34	6.24	6.17	6.07	6.02	6.63		7.44	6.68	6.16

H1 lead leg	R	strides	25	17	17	17	17	17	19	19	19	19	22	208					
Hamachiyo, Rinka (JPN) (2010)	time		7.06	11.78	16.52	21.40	26.46		31.61	37.09	42.69	48.62	54.60		60.75	4 / 5			
reaction time	0.191	interval	4.72	4.74	4.88	5.06		5.15	5.48	5.60	5.93	5.98	6.15		PB		14.34	15.69	17.51
		velocity	6.37	7.42	7.38	7.17	6.92		6.80	6.39	6.25	5.90	5.85	6.50	6.58		7.32	6.69	6.00
H1 lead leg	L	strides	25	17	17	17	17		17	18	18	19	19		184				
Kudo, Mitsuki (JPN) (2004)	time		7.07	11.61	16.22	20.94	25.99		31.33	36.67	42.23	47.91	54.05		61.02	9 / 6			
reaction time	0.206	interval	4.54	4.61	4.72	5.05		5.34	5.34	5.56	5.68	6.14	6.97				13.87	15.73	17.38
		velocity	6.36	7.71	7.59	7.42	6.93		6.55	6.55	6.29	6.16	5.70	5.74	6.56		7.57	6.68	6.04
H1 lead leg	R	strides	26	17	17	17	19		19	19	19	19	21		193				
Kusaka, Ayana (JPN) (2003)	time		6.81	11.28	15.90	20.59	25.51		30.76	36.40	42.18	48.11	54.29		61.20	3 / 7			
reaction time	0.194	interval	4.47	4.62	4.69	4.92		5.25	5.64	5.78	5.93	6.18	6.91				13.78	15.81	17.89
		velocity	6.61	7.83	7.58	7.46	7.11		6.67	6.21	6.06	5.90	5.66	5.79	6.54		7.62	6.64	5.87
H1 lead leg	R	strides	24	17	17	17	17		17	19	19	19	19		185				
Higuchi, Ayane (JPN) (2004)	time		7.02	11.70	16.50	21.42	26.54		31.85	37.19	42.83	48.72	54.79		61.44	8 / 8			
reaction time	0.186	interval	4.68	4.80	4.92	5.12		5.31	5.34	5.64	5.89	6.07	6.65				14.40	15.77	17.60
		velocity	6.41	7.48	7.29	7.11	6.84		6.59	6.55	6.21	5.94	5.77	6.02	6.51		7.29	6.66	5.97
H1 lead leg	L	strides	23	16	16	16	16		17	17	18	19	19		177				

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			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mo Jiadie (CHN) (2000)	time		6.66	10.96	15.42	19.98	24.62		29.44	34.50	39.62	44.88	50.26		56.27	5 / 1			
reaction time	0.296	interval	4.30	4.46	4.56	4.64		4.82	5.06	5.12	5.26	5.38	6.01		PB		13.32	14.52	15.76
		velocity	6.76	8.14	7.85	7.68	7.54		7.26	6.92	6.84	6.65	6.51	6.66	7.11		7.88	7.23	6.66
H1 lead leg	L	strides	24	16	16	16	16		17	17	17	17	18	21.2	195.2				
Zou Yifan (CHN) (2000)	time		6.74	11.23	15.81	20.50	25.32		30.30	35.42	40.69	46.04	51.68		57.97	4 / 2			
reaction time	0.257	interval	4.49	4.58	4.69	4.82		4.98	5.12	5.27	5.35	5.64	6.29				13.76	14.92	16.26
		velocity	6.68	7.80	7.64	7.46	7.26		7.03	6.84	6.64	6.54	6.21	6.36	6.90		7.63	7.04	6.46
H1 lead leg	L	strides	24	17	17	17	17		17	17	17	17	18	21	199				
Huang Yan (CHN) (1996)	time		6.68	11.10	15.76	20.44	25.27		30.18	35.26	40.44	46.10	51.92		58.34	8 / 3			
reaction time	0.320	interval	4.42	4.66	4.68	4.83		4.91	5.08	5.18	5.66	5.82	6.42				13.76	14.82	16.66
		velocity	6.74	7.92	7.51	7.48	7.25		7.13	6.89	6.76	6.18	6.01	6.23	6.86		7.63	7.09	6.30
H1 lead leg	L	strides	24	17	17	17	17		17	17	17	19	19	22	203				
Ou Ying (CHN) (2001)	time		6.98	11.58	16.28	21.00	25.90		31.06	36.26	41.68	47.46	53.42		59.81	7 / 4			
reaction time	0.192	interval	4.60	4.70	4.72	4.90		5.16	5.20	5.42	5.78	5.96	6.39				14.02	15.26	17.16
		velocity	6.45	7.61	7.45	7.42	7.14		6.78	6.73	6.46	6.06	5.87	6.26	6.69		7.49	6.88	6.12
H1 lead leg	L	strides	24	17	17	17	17		17	17	18	19	19	22	204				
Ding Yirui (CHN) (2002)	time		6.86	11.36	16.11	20.95	26.07		31.50	36.97	42.42	48.05	53.77		59.88	2 / 5			
reaction time	0.238	interval	4.50	4.75	4.84	5.12		5.43	5.47	5.45	5.63	5.72	6.11				14.09	16.02	16.80
		velocity	6.56	7.78	7.37	7.23	6.84		6.45	6.40	6.42	6.22	6.12	6.55	6.68		7.45	6.55	6.25
H1 lead leg	L	strides	22	15	15	15	16		16	16	16	17	17	19.5	184.5				
Chen Liying (CHN) (1994)	time		6.86	11.40	16.06	20.84	25.74		30.88	36.24	41.66	47.36	53.36		59.94	6 / 6			
reaction time	0.202	interval	4.54	4.66	4.78	4.90		5.14	5.36	5.42	5.70	6.00	6.58				13.98	15.40	17.12
		velocity	6.56	7.71	7.51	7.32	7.14		6.81	6.53	6.46	6.14	5.83	6.08	6.67		7.51	6.82	6.13
H1 lead leg	R	strides	24	16	16	16	16		17	17	17	18	19	21.7	197.7				
Lu Zhangwei (CHN) (2001)	time		6.82	11.21	15.73	20.40	25.16		30.41	fell					74.02	3 / 7			
reaction time	0.259	interval	4.39	4.52	4.67	4.76		5.25									13.58		
		velocity	6.60	7.97	7.74	7.49	7.35		6.67						5.40		7.73		
H1 lead leg	R	strides	24	16	16	16	16		17					105					

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			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Lu Zhangwei (CHN) (2001)	time		6.83	11.26	15.80	20.61	25.49		30.55	35.75	41.07	46.67	52.47		59.03	5 / 1			
reaction time	0.261	interval	4.43	4.54	4.81	4.88		5.06	5.20	5.32	5.60	5.80	6.56				13.78	15.14	16.72
		velocity	6.59	7.90	7.71	7.28	7.17		6.92	6.73	6.58	6.25	6.03	6.10	6.78		7.62	6.94	6.28
H1 lead leg	L	strides	24	16	16	17	17		17	17	17	18	18	21	198				
Chen Liying (CHN) (1994)	time		6.79	11.33	15.99	20.74	25.59		30.64	35.88	41.26	46.81	52.70		59.20	7 / 2			
reaction time	0.208	interval	4.54	4.66	4.75	4.85		5.05	5.24	5.38	5.55	5.89	6.50		PB		13.95	15.14	16.82
		velocity	6.63	7.71	7.51	7.37	7.22		6.93	6.68	6.51	6.31	5.94	6.15	6.76		7.53	6.94	6.24
H1 lead leg	R	strides	24	16	16	16	16		17	17	17	18	19	21.7	197.7				
Ou Ying (CHN) (2001)	time		6.98	11.46	16.07	20.71	25.50		30.57	35.84	41.32	46.89	52.56		59.24	6 / 3			
reaction time	0.240	interval	4.48	4.61	4.64	4.79		5.07	5.27	5.48	5.57	5.67	6.68				13.73	15.13	16.72
		velocity	6.45	7.81	7.59	7.54	7.31		6.90	6.64	6.39	6.28	6.17	5.99	6.75		7.65	6.94	6.28
H1 lead leg	L	strides	24	17	17	17	17		17	17	18	18	18	22	202				
Ding Yirui (CHN) (2002)	time		6.95	11.50	16.26	21.10	26.22		31.40	36.81	42.34	47.98	53.61		59.78	8 / 4			

reaction time	0.331	interval	4.55	4.76	4.84	5.12	5.18	5.41	5.53	5.64	5.63	6.17	14.15	15.71	16.80		
		velocity	6.47	7.69	7.35	7.23	6.84	6.76	6.47	6.33	6.21	6.22	6.48	6.69	7.42	6.68	6.25
H1 lead leg	L	strides	22	15	15	15	16	16	17	17	17	17	19.5	186.5			
Lan Tianlu (CHN) (1999)	time	6.91	11.46	16.20	21.09	25.99	31.13	36.43	41.86	47.36	53.17	59.82	3 / 5				
reaction time	0.223	interval	4.55	4.74	4.89	4.90	5.14	5.30	5.43	5.50	5.81	6.65	14.18	15.34	16.74		
		velocity	6.51	7.69	7.38	7.16	7.14	6.81	6.60	6.45	6.36	6.02	6.02	6.69	7.40	6.84	6.27
H1 lead leg	L	strides	22	16	16	16	16	17	17	17	17	18	21.5	193.5			
Fei Jiayu (CHN) (2000)	time	7.12	11.86	16.75	21.77	26.79	32.10	37.60	43.23	48.90	54.65	61.26	2 / 6				
reaction time	0.239	interval	4.74	4.89	5.02	5.02	5.31	5.50	5.63	5.67	5.75	6.61	14.65	15.83	17.05		
		velocity	6.32	7.38	7.16	6.97	6.97	6.59	6.36	6.22	6.17	6.09	6.05	6.53	7.17	6.63	6.16
H1 lead leg	R	strides	24	16	16	16	16	17	17	17	17	17	20.5	193.5			
Liu Xin (CHN) (1992)	time	7.11	11.71	16.52	21.45	26.51	31.91	37.49	43.21	49.20	55.39	62.59	4 / 7				
reaction time	0.255	interval	4.60	4.81	4.93	5.06	5.40	5.58	5.72	5.99	6.19	7.20	14.34	16.04	17.90		
		velocity	6.33	7.61	7.28	7.10	6.92	6.48	6.27	6.12	5.84	5.65	5.56	6.39	7.32	6.55	5.87
H1 lead leg	L	strides	25	17	17	17	17	18	19	19	20	20	23.5	212.5			

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CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wu Xueting (CHN) (1995)	time	7.10	11.67	16.30	21.06	26.01	31.20	36.58	42.05	47.61	53.25	59.63	5 / 1					
reaction time	0.248	interval	4.57	4.63	4.76	4.95	5.19	5.38	5.47	5.56	5.64	6.38	13.96	15.52	16.67			
		velocity	6.34	7.66	7.56	7.35	7.07	6.74	6.51	6.40	6.29	6.21	6.27	6.71	7.52	6.77	6.30	
H1 lead leg	L	strides	22	15	15	15	16	16	17	17	17	17	20.5	187.5				
Tao Xue (CHN) (1999)	time	6.94	11.26	15.75	20.35	25.11	30.23	35.70	41.49	47.23	53.18	59.81	3 / 2					
reaction time	0.252	interval	4.32	4.49	4.60	4.76	5.12	5.47	5.79	5.74	5.95	6.63	13.41	15.35	17.48			
		velocity	6.48	8.10	7.80	7.61	7.35	6.84	6.40	6.04	6.10	5.88	6.03	6.69	7.83	6.84	6.01	
H1 lead leg	L	strides	23	15	15	15	15	16	18	18	18	18	20.2	191.2				
Qiu Zhangyan (CHN) (1998)	time	7.14	11.84	16.73	21.65	26.65	31.70	36.90	42.19	47.78	53.53	59.99	8 / 3					
reaction time	0.364	interval	4.70	4.89	4.92	5.00	5.05	5.20	5.29	5.59	5.75	6.46	PB	14.51	15.25	16.63		
		velocity	6.30	7.45	7.16	7.11	7.00	6.93	6.73	6.62	6.26	6.09	6.19	6.67	7.24	6.89	6.31	
H1 lead leg	L	strides	24	17	18	17	17	17	17	17	18	18	21.7	201.7				
Wang Hongyan (CHN) (1998)	time	6.97	11.64	16.39	21.21	26.26	31.55	36.97	42.49	48.20	53.89	60.16	6 / 4					
reaction time	0.204	interval	4.67	4.75	4.82	5.05	5.29	5.42	5.52	5.71	5.69	6.27	14.24	15.76	16.92			
		velocity	6.46	7.49	7.37	7.26	6.93	6.62	6.46	6.34	6.13	6.15	6.38	6.65	7.37	6.66	6.21	
H1 lead leg	L	strides	25	16	17	17	17	18	18	18	19	19	22.7	206.7				
Fu Yijia (CHN) (2001)	time	7.06	11.71	16.48	21.39	26.49	31.69	36.95	42.20	47.85	54.01	60.54	7 / 5					
reaction time	0.243	interval	4.65	4.77	4.91	5.10	5.20	5.26	5.25	5.65	6.16	6.53	14.33	15.56	17.06			
		velocity	6.37	7.53	7.34	7.13	6.86	6.73	6.65	6.67	6.19	5.68	6.13	6.61	7.33	6.75	6.15	
H1 lead leg	R	strides	24	16	16	17	17	17	17	17	18	19	21.5	199.5				
Ling Jiayu (CHN) (1997)	time	6.96	11.53	16.26	21.07	26.02	31.16	36.70	42.57	48.60	54.70	61.28	2 / 6					
reaction time	0.186	interval	4.57	4.73	4.81	4.95	5.14	5.54	5.87	6.03	6.10	6.58	14.11	15.63	18.00			
		velocity	6.47	7.66	7.40	7.28	7.07	6.81	6.32	5.96	5.80	5.74	6.08	6.53	7.44	6.72	5.83	
H1 lead leg	R	strides	24	17	17	17	17	17	19	19	19	21	206					
Liu Hongjuan (CHN) (1996)	time	6.94	11.56	16.26	21.24	26.32	31.70	37.32	43.04	48.97	55.07	62.11	4 / 7					
reaction time	0.250	interval	4.62	4.70	4.98	5.08	5.38	5.62	5.72	5.93	6.10	7.04	14.30	16.08	17.75			
		velocity	6.48	7.58	7.45	7.03	6.89	6.51	6.23	6.12	5.90	5.74	5.68	6.44	7.34	6.53	5.92	
H1 lead leg	L	strides	23	16	16	16	16	17	18	18	19	19	22.2	200.2				

Heat 2

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CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mo Jiadie (CHN) (2000)	time	6.83	11.22	15.77	20.45	25.20	30.16	35.35	40.64	46.14	51.77	58.07	5 / 1					
reaction time	0.321	interval	4.39	4.55	4.68	4.75	4.96	5.19	5.29	5.50	5.63	6.30	13.62	14.90	16.42			
		velocity	6.59	7.97	7.69	7.48	7.37	7.06	6.74	6.62	6.36	6.22	6.35	6.89	7.71	7.05	6.39	
H1 lead leg	L	strides	24	16	16	16	16	17	17	17	18	18	21	196				
Jiang Liyunzhe (CHN) (2002)	time	6.77	11.36	16.08	20.99	26.01	31.11	36.22	41.57	47.23	53.07	59.95	4 / 2					
reaction time	0.286	interval	4.59	4.72	4.91	5.02	5.10	5.11	5.35	5.66	5.84	6.88	14.22	15.23	16.85			
		velocity	6.65	7.63	7.42	7.13	6.97	6.86	6.85	6.54	6.18	5.99	5.81	6.67	7.38	6.89	6.23	
H1 lead leg	L	strides	24	16	16	16	16	17	17	17	18	18	22	197				
Wang Jiaqi (CHN) (2000)	time	7.02	11.47	16.11	20.81	25.77	30.97	36.31	41.83	47.64	53.51	60.07	7 / 3					
reaction time	0.238	interval	4.45	4.64	4.70	4.96	5.20	5.34	5.52	5.81	5.87	6.56	13.79	15.50	17.20			
		velocity	6.41	7.87	7.54	7.45	7.06	6.73	6.55	6.34	6.02	5.96	6.10	6.66	7.61	6.77	6.10	
H1 lead leg	L	strides	24	17	17	17	17	17	17	18	18	18	22	202				
Zhou Lin (CHN) (1998)	time	6.89	11.48	16.17	20.94	25.85	30.91	36.34	41.74	47.32	53.14	60.26	8 / 4					
reaction time	0.224	interval	4.59	4.69	4.77	4.91	5.06	5.43	5.40	5.58	5.82	7.12	14.05	15.40	16.80			
		velocity	6.53	7.63	7.46	7.34	7.13	6.92	6.45	6.48	6.27	6.01	5.62	6.64	7.47	6.82	6.25	
H1 lead leg	L	strides	23	16	16	16	16	16	17	17	17	18	22	194				

Xiao Xia (CHN) (1991)	time	6.76	11.38	16.25	21.30	26.41		31.76	37.17	42.71	48.35	53.97		60.42	3 / 5			
reaction time	0.296	interval	4.62	4.87	5.05	5.11		5.35	5.41	5.54	5.64	5.62	6.45			14.54	15.87	16.80
		velocity	6.66	7.58	7.19	6.93	6.85		6.54	6.47	6.32	6.21	6.23	6.20		7.22	6.62	6.25
H1 lead leg	L	strides	23	16	16	16	16		17	17	17	17	17	20.5				
Hu Lihong (CHN) (1999)	time	6.88	11.44	16.21	21.03	26.01		31.12	36.42	41.90	47.64	53.69		60.99	6 / 6			
reaction time	0.167	interval	4.56	4.77	4.82	4.98		5.11	5.30	5.48	5.74	6.05	7.30			14.15	15.39	17.27
		velocity	6.54	7.68	7.34	7.26	7.03		6.85	6.60	6.39	6.10	5.79	5.48		7.42	6.82	6.08
H1 lead leg	L	strides	23	16	16	16	16		17	17	17	17	17	21		193		
Chen Zhuo (CHN) (2001)	time	6.91	11.46	16.18	21.12	26.29		31.68	37.34	43.07	49.08	55.30		62.52	2 / 7			
reaction time	0.208	interval	4.55	4.72	4.94	5.17		5.39	5.66	5.73	6.01	6.22	7.22			14.21	16.22	17.96
		velocity	6.51	7.69	7.42	7.09	6.77		6.49	6.18	6.11	5.82	5.63	5.54		7.39	6.47	5.85
H1 lead leg	L	strides	24	16	16	16	16		17	17	17	18	18	22		197		

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		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Zou Yifan (CHN) (2000)	time	6.94	11.44	16.10	20.80	25.62		30.65	35.75	41.02	46.58	52.27		58.74	3 / 1				
reaction time	0.348	interval	4.50	4.66	4.70	4.82		5.03	5.10	5.27	5.56	5.69	6.47			13.86	14.95	16.52	
		velocity	6.48	7.78	7.51	7.45	7.26		6.96	6.86	6.64	6.29	6.15	6.18	6.81		7.58	7.02	6.36
H1 lead leg	L	strides	24	17	17	17	17		17	17	17	18	18	21	200				
Huang Yan (CHN) (1996)	time	6.81	11.37	16.10	20.83	25.74		30.73	35.79	41.14	46.79	52.63		59.27	5 / 2				
reaction time	0.318	interval	4.56	4.73	4.73	4.91		4.99	5.06	5.35	5.65	5.84	6.64			14.02	14.96	16.84	
		velocity	6.61	7.68	7.40	7.40	7.13		7.01	6.92	6.54	6.19	5.99	6.02	6.75		7.49	7.02	6.24
H1 lead leg	L	strides	24	17	17	17	17		17	17	18	19	19	22	204				
Yang Qi (CHN) (2000)	time	6.81	11.45	16.19	21.05	26.01		31.33	36.68	42.00	47.76	53.53		59.85	6 / 3				
reaction time	0.194	interval	4.64	4.74	4.86	4.96		5.32	5.35	5.32	5.76	5.77	6.32			14.24	15.63	16.85	
		velocity	6.61	7.54	7.38	7.20	7.06		6.58	6.54	6.58	6.08	6.07	6.33	6.68		7.37	6.72	6.23
H1 lead leg	L	strides	24	16	16	16	16		17	17	17	18	18	21	196				
Kong Yingying (CHN) (2003)	time	6.93	11.55	16.26	21.08	26.12		31.30	36.55	42.04	47.75	53.48		60.10	7 / 4				
reaction time	0.272	interval	4.62	4.71	4.82	5.04		5.18	5.25	5.49	5.71	5.73	6.62			14.15	15.47	16.93	
		velocity	6.49	7.58	7.43	7.26	6.94		6.76	6.67	6.38	6.13	6.11	6.04	6.66		7.42	6.79	6.20
H1 lead leg	R	strides	23	16	16	16	17		17	17	18	18	18	22	198				
Wu Fangfang (CHN) (1997)	time	7.06	11.79	16.62	21.56	26.63		31.96	37.42	42.91	48.48	54.15		60.29	4 / 5				
reaction time	0.308	interval	4.73	4.83	4.94	5.07		5.33	5.46	5.49	5.57	5.67	6.14			14.50	15.86	16.73	
		velocity	6.37	7.40	7.25	7.09	6.90		6.57	6.41	6.38	6.28	6.17	6.51	6.63		7.24	6.62	6.28
H1 lead leg	L	strides	24	16	16	16	16		17	17	17	17	17	21	194				
Liu Wei (CHN) (2001)	time	7.21	12.00	16.93	21.97	27.08		32.35	37.59	43.06	48.53	54.15		60.62	2 / 6				
reaction time	0.343	interval	4.79	4.93	5.04	5.11		5.27	5.24	5.47	5.47	5.62	6.47			14.76	15.62	16.56	
		velocity	6.24	7.31	7.10	6.94	6.85		6.64	6.68	6.40	6.40	6.23	6.18	6.60		7.11	6.72	6.34
H1 lead leg	L	strides	23	17	17	17	17		17	17	17	18	18	21.2	199.2				
Zhuang Yilan (CHN) (2000)	time	6.83	11.40	16.21	21.04	26.14		31.43	36.99	42.90	49.16	55.66		63.20	8 / 7				
reaction time	0.293	interval	4.57	4.81	4.83	5.10		5.29	5.56	5.91	6.26	6.50	7.54			14.21	15.95	18.67	
		velocity	6.59	7.66	7.28	7.25	6.86		6.62	6.29	5.92	5.59	5.38	5.31	6.33		7.39	6.58	5.62
H1 lead leg	L	strides	24	17	17	17	17		17	17	19	19	19	23	206				
Ma Jie (CHN) (1998)	time	6.96	11.65	16.45	21.52	26.79		32.45	38.65	45.25				66.91	1 / 8				
reaction time	0.262	interval	4.69	4.80	5.07	5.27		5.66	6.20	6.60						14.56	17.13		
		velocity	6.47	7.46	7.29	6.90	6.64		6.18	5.65	5.30			5.98		7.21	6.13		
H1 lead leg	L	strides	23	16	16	16	16		17	19	19			142					

2020 USA Olympic Trials (Eugene, OR)

Henson (2021) - Athlete First: 2021 year end hurdle report (TV Analysis)

FINAL

date 27-Jun-21

Athlete Tracking (2021) - Women's 400mH - Unofficial Split Times

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
McLaughlin, Sydney (USA)	time	6.11	10.14	14.36	18.60	23.04	24.97	27.59	32.24	36.91	41.64	46.46		51.90	6 / 1				
reaction time	0.194	interval	4.03	4.22	4.24	4.44		4.55	4.65	4.67	4.73	4.82	5.44	WR					
		velocity	7.36	8.68	8.29	8.25	8.01		7.69	7.53	7.49	7.40	7.26	7.35	7.71		8.41	7.70	7.38
H1 lead leg	R	strides	22	14	14	14	14		15	15	15	15	15	18.2	171.2				
Muhammad, Dalilah (USA)	time	6.08	10.03	14.21	18.52	22.95	24.91	27.48	32.04	36.70	41.58	46.53		52.42	7 / 2				
reaction time	0.167	interval	3.95	4.18	4.31	4.43		4.53	4.56	4.66	4.88	4.95	5.89			12.44	13.52	14.49	
		velocity	7.40	8.86	8.37	8.12	7.90	8.03	7.73	7.68	7.51	7.17	7.07	6.79	7.63		8.44	7.77	7.25
H1 lead leg	R	strides	22	15	15	15	15		15	15	15	16	16	19	178				
Cockrell, Anna (USA) (1997)	time	6.32	10.46	14.69	19.10	23.56	25.53	28.14	32.81	37.60	42.51	47.61		53.70	9 / 3				
reaction time	0.201	interval	4.14	4.23	4.41	4.46		4.58	4.67	4.79	4.91	5.10	6.09	PB					
		velocity	7.12	8.45	8.27	7.94	7.85	7.83	7.64	7.49	7.31	7.13	6.86	6.57	7.45		8.22	7.66	7.09
H1 lead leg	L	strides		15	15	15	15		15	15	15	16	16	137					
Little, Shamier (USA) (1995)	time	6.20	10.22	14.38	18.59	22.96	24.93	27.52	32.27	36.99	42.50	47.69		53.85	5 / 4				
reaction time	0.213	interval	4.02	4.16	4.21	4.37		4.56	4.75	4.72	5.51	5.19	6.16			12.39	13.68	15.42	
		velocity	7.26	8.71	8.41	8.31	8.01	8.02	7.68	7.37	7.42	6.35	6.74	6.49	7.43		8.47	7.68	6.81

H1 lead leg	R	strides	15	15	15	15	16	16	15	18	17	142							
Hailey, Nnanya (USA) (1994)	time		6.24	10.24	14.44	18.82	23.29	27.89	32.63	37.50	42.61	54.79	8 / 5					Henson (2021)	
reaction time	0.251	interval	4.00	4.20	4.38	4.47	4.60	4.74	4.87	5.11								DQ	
		velocity	7.21	8.75	8.33	7.99	7.83	7.61	7.38	7.19	6.85	7.30						13.05	9.34
H1 lead leg	L	strides	16	16	16	16	17	17	17	17		132						8.05	11.24
Tate, Cassandra (USA) (1990)	time		6.30	10.38	14.63	19.05	23.69	28.39	33.40	44.11		56.51	4 / 6 5						Henson (2021)
reaction time	0.194	interval	4.08	4.25	4.42	4.64	4.70	5.01	10.71									13.31	9.71
		velocity	7.14	8.58	8.24	7.92	7.54	7.45	6.99	6.54		7.08						7.89	10.81
H1 lead leg	R	strides	14	14	14	15		16			73								
Bookman, Deonca (USA) (1988)	time		6.54	10.64	14.84	19.18	23.79	28.49	33.46	44.17		56.90	2 / 7 6						Henson (2021)
reaction time	0.349	interval	4.10	4.20	4.34	4.61	4.70	4.97	10.71									13.15	9.67
		velocity	6.88	8.54	8.33	8.06	7.59	7.45	7.04	6.54		7.03						7.98	10.86
H1 lead leg	R	strides	16	16	16	17		18			83								
Spencer, Ashley (USA) (1993)	time		6.37	10.61	14.88	19.38	24.25	28.99	33.93	44.71		60.19	3 / 8 7						Henson (2021)
reaction time	0.222	interval	4.24	4.27	4.50	4.87	4.74	4.94	10.78									13.64	9.68
		velocity	7.06	8.25	8.20	7.78	7.19	7.38	7.09	6.49		6.65						7.70	10.85
H1 lead leg	L	strides	15	15	15	15		15			75								

Semi-Final 2 (TV A)

date 26-Jun-21

Henson (2021) - Athlete First: 2021 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Little, Shamier (USA) (1995)	time		6.37	10.54	14.86	19.25	23.75	28.43	33.23	38.10	43.01	48.01			53.71	5 / 1			
reaction time	0.222	interval	4.17	4.32	4.39	4.50	4.68	4.80	4.87	4.91	5.00	5.70							
		velocity	7.06	8.39	8.10	7.97	7.78	7.48	7.29	7.19	7.13	7.00	7.02	7.45					
H1 lead leg	R	strides	15	15	15	15	16	16	16	16	16	16	19	159					
Muhammad, Dalilah (USA) (1993)	time		6.07	10.11	14.43	18.95	23.59	28.33	33.10	37.94	42.95	48.01			53.86	6 / 2			
reaction time	0.174	interval	4.04	4.32	4.52	4.64	4.74	4.77	4.84	5.01	5.06	5.85							
		velocity	7.41	8.66	8.10	7.74	7.54	7.38	7.34	7.23	6.99	6.92	6.84	7.43					
H1 lead leg	R	strides	22	15	15	15	15	15	15	15	16	16	18.7	177.7					
Cockrell, Anna (USA) (1997)	time		6.30	10.51	14.91	19.45	24.15	29.06	33.96	38.97	43.94	49.01			55.10	8 / 3			
reaction time	0.177	interval	4.21	4.40	4.54	4.70	4.91	4.90	5.01	4.97	5.07	6.09							
		velocity	7.14	8.31	7.95	7.71	7.45	7.13	7.14	6.99	7.04	6.90	6.57	7.26					
H1 lead leg	L	strides	15	15	15	15	16	15	16	16	16	16	139						
Spencer, Ashley (USA) (1993)	time		6.40	10.67	15.11	19.72	24.42	29.18	34.03	38.87	43.84	49.01			55.25	7 / 4			
reaction time	0.208	interval	4.27	4.44	4.61	4.70	4.76	4.85	4.84	4.97	5.17	6.24							
		velocity	7.03	8.20	7.88	7.59	7.45	7.35	7.22	7.23	7.04	6.77	6.41	7.24					
H1 lead leg	L	strides	22	15	15	15	15		15	15	15	15	142						
Meisberger, Shannon (USA) (1993)	time		6.44	10.67	15.08	19.68	24.46	29.36	34.50	45.21					57.22	9 / 5			
reaction time	0.260	interval	4.23	4.41	4.60	4.78	4.90	5.14	10.71										
		velocity	6.99	8.27	7.94	7.61	7.32	7.14	6.81	6.54				6.99					
H1 lead leg	L	strides	15	15	15	16	16	17	17				111						
Russell, Masai (USA) (2000)	time		6.44	10.77	15.15	19.89	24.89	30.03	40.44	45.81					58.00	3 / 6			
reaction time	0.332	interval	4.33	4.38	4.74	5.00	5.14	10.41	5.37										
		velocity	6.99	8.08	7.99	7.38	7.00	6.81	6.72	6.52				6.90					
H1 lead leg	R	strides	16	16	16	16						17	81						
Humphrey, Brittley (USA) (1993)	time		6.44	10.67	15.15	19.89	24.79	29.93	40.67	46.38					58.95	2 / 7			
reaction time	0.190	interval	4.23	4.48	4.74	4.90	5.14	10.74	5.71										
		velocity	6.99	8.27	7.81	7.38	7.14	6.81	6.52	6.13				6.79					
H1 lead leg	L	strides	15	15	15	15						17	77						
Barber, Kaila (USA) (1993)	time		6.30	10.54	15.01	19.58	24.45	29.63	34.93	40.54	46.35				60.14	4 / 8			
reaction time	0.174	interval	4.24	4.47	4.57	4.87	5.18	5.30	5.61	5.81									
		velocity	7.14	8.25	7.83	7.66	7.19	6.76	6.60	6.24	6.02			6.65					
H1 lead leg	R	strides	16	16	16	16			17	18			99						

Semi-Final 1 (TV A)

date 26-Jun-21

Henson (2021) - Athlete First: 2021 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin, Sydney (USA) (1993)	time		6.14	10.21	14.34	18.58	22.99	27.59	32.33	37.07	42.07	47.04			53.03	5 / 1			
reaction time	0.227	interval	4.07	4.13	4.24	4.41	4.60	4.74	4.74	5.00	4.97	5.99							
		velocity	7.33	8.60	8.47	8.25	7.94	7.61	7.38	7.38	7.00	7.04	6.68	7.54					
H1 lead leg	R	strides	22	14	14	14	14	15	15	15	16	15	18.2	172.2					
Hailey, Nnanya (USA) (1994)	time		6.27	10.27	14.44	18.72	23.09	27.69	32.43	37.23	42.41	47.75			54.24	8 / 2			
reaction time	0.266	interval	4.00	4.17	4.28	4.37	4.60	4.74	4.80	5.18	5.34	6.49							
		velocity	7.18	8.75	8.39	8.18	8.01	7.61	7.38	7.29	6.76	6.55	6.16	7.37					
H1 lead leg	L	strides	16	16	15	16	17	17	17	18	18	22.5	172.5						
Tate, Cassandra (USA) (1990)	time		6.27	10.37	14.58	18.92	23.49	28.22	33.21	38.24	43.47	48.91			55.24	6 / 3			
reaction time	0.211	interval	4.10	4.21	4.34	4.57	4.73	4.99	5.03	5.23	5.44	6.33							

	velocity	7.18	8.54	8.31	8.06	7.66	7.40	7.01	6.96	6.69	6.43	6.32	7.24	8.30	7.35	6.69
H1 lead leg	R	strides	22	14	14	14	15	15	16	15	16	16	157			
Bookman, Deonca (USA) (1999)	time	6.54	10.71	15.11	19.52	24.15	28.89	33.66	38.54	43.74			55.66	9 / 4		
reaction time	0.338	interval	4.17	4.40	4.41	4.63	4.74	4.77	4.88	5.20			PB	12.98	14.14	
	velocity	6.88	8.39	7.95	7.94	7.56	7.38	7.34	7.17	6.73			7.19	8.09	7.43	
H1 lead leg	R	strides	17	17	17	17	17	17	17	18	18		155			
Seymour, Kiah (USA) (1994)	time	6.50	10.67	14.98	19.35	23.92	28.72	33.63	38.57	43.81			55.84	7 / 5		
reaction time	0.204	interval	4.17	4.31	4.37	4.57	4.80	4.91	4.94	5.24				12.85	14.28	
	velocity	6.92	8.39	8.12	8.01	7.66	7.29	7.13	7.09	6.68			7.16	8.17	7.35	
H1 lead leg	R	strides	24	16	16	16	16	17	17	17	18		157			
Hoffman, Lauren (USA) (1999)	time	6.47	10.57	14.98	19.38	23.99	28.89	34.00	39.33	44.84			57.59	3 / 6		
reaction time	0.224	interval	4.10	4.41	4.40	4.61	4.90	5.11	5.33	5.51				12.91	14.62	
	velocity	6.96	8.54	7.94	7.95	7.59	7.14	6.85	6.57	6.35			6.95	8.13	7.18	
H1 lead leg	L	strides	15	16	16	16	17	18	18	18			116			
Lindley, Ashton (USA) (2002)	time	6.54	11.04	15.65	20.32	25.15	30.26		40.83	46.21			58.04	2 / 7		
reaction time	0.288	interval	4.50	4.61	4.67	4.83	5.11		10.57	5.38				13.78		
	velocity	6.88	7.78	7.59	7.49	7.25	6.85		6.62	6.51			6.89	7.62		
H1 lead leg	L	strides	16	16	16	16				17			81			
Young, Milan (USA) (1999)	time	6.40	10.57	14.95	19.45	24.19	29.06	34.26	39.60	45.38			59.39	4 / 8		
reaction time	0.187	interval	4.17	4.38	4.50	4.74	4.87	5.20	5.34	5.78				13.05	14.81	
	velocity	7.03	8.39	7.99	7.78	7.38	7.19	6.73	6.55	6.06			6.74	8.05	7.09	
H1 lead leg	R	strides	22	15	15	15	16	16	17	17			131			

Heat 4 (TV Analysis)

date 25-Jun-21

Henson (2021) - Athlete First: 2021 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Muhammad, Dalilah (USA) (2001)	time	6.03	10.06	14.40	18.80	23.40		28.13	33.10	38.30	43.60	49.03		55.51	3 / 1			
reaction time	0.184	interval	4.03	4.34	4.40	4.60		4.73	4.97	5.20	5.30	5.43	6.48			12.77	14.30	15.93
	velocity	7.46	8.68	8.06	7.95	7.61		7.40	7.04	6.73	6.60	6.45	6.17	7.21		8.22	7.34	6.59
H1 lead leg	R	strides	22	15	15	15		15	15	15	16	16	19	178				

Heat 3 (TV Analysis)

date 25-Jun-21

Henson (2021) - Athlete First: 2021 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tate, Cassandra (USA) (1990)	time	6.36	10.43	14.80	19.36	24.00		28.70	33.60	38.90	44.26	49.75		56.11	2 / 1			
reaction time	0.230	interval	4.07	4.37	4.56	4.64		4.70	4.90	5.30	5.36	5.49	6.36			13.00	14.24	16.15
	velocity	7.08	8.60	8.01	7.68	7.54		7.45	7.14	6.60	6.53	6.38	6.29	7.13		8.08	7.37	6.50
H1 lead leg	R	strides	14	14	15	15		15	15	16	16	16	19.2	155.2				
Cockrell, Anna (USA) (1997)	time	6.40	10.70	15.20	19.73	24.50		29.46	34.70	39.73	44.90	50.26		56.83	7 / 2			
reaction time	0.196	interval	4.30	4.50	4.53	4.77		4.96	5.24	5.03	5.17	5.36	6.57			13.33	14.97	15.56
	velocity	7.03	8.14	7.78	7.73	7.34		7.06	6.68	6.96	6.77	6.53	6.09	7.04		7.88	7.01	6.75
H1 lead leg	L	strides	22	15	15	15		15	16	15	16	16	20	180				

Heat 2 (TV Analysis)

date 25-Jun-21

Henson (2021) - Athlete First: 2021 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Little, Shamier (USA) (1995)	time	6.53	10.80	15.16	19.66	24.30		29.06	33.93	38.76	43.86	49.10		55.22	7 / 1			
reaction time	0.301	interval	4.27	4.36	4.50	4.64		4.76	4.87	4.83	5.10	5.24	6.12			13.13	14.27	15.17
	velocity	6.89	8.20	8.03	7.78	7.54		7.35	7.19	7.25	6.86	6.68	6.54	7.24		8.00	7.36	6.92
H1 lead leg	R	strides	23	15	15	15		16	16	16	16	16	19	183				
Spencer, Ashley (USA) (1993)	time	6.36	10.70	15.16	19.63	24.26		29.03	33.93	38.93	44.16	49.60		55.92	8 / 2			
reaction time	0.182	interval	4.34	4.46	4.47	4.63		4.77	4.90	5.00	5.23	5.44	6.32			13.27	14.30	15.67
	velocity	7.08	8.06	7.85	7.83	7.56		7.34	7.14	7.00	6.69	6.43	6.33	7.15		7.91	7.34	6.70
H1 lead leg	L	strides	22	15	15	15		15	15	15	15	15	18	175				

Heat 1 (TV Analysis)

date 25-Jun-21

Henson (2021) - Athlete First: 2021 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin, Sydney (USA) (2000)	time	6.33	10.46	14.67	19.10	23.77		28.50	33.26	38.07	42.93	48.00		54.07	5 / 1			
reaction time	0.255	interval	4.13	4.21	4.43	4.67		4.73	4.76	4.81	4.86	5.07	6.07			12.77	14.16	14.74
	velocity	7.11	8.47	8.31	7.90	7.49		7.40	7.35	7.28	7.20	6.90	6.59	7.40		8.22	7.42	7.12
H1 lead leg	R	strides	22	14	14	15		15	15	15	15	16	18.2	174.2				
Hailey, Nnanya (USA) (1994)	time	6.33	10.40	14.60	19.10	23.76		28.47	33.23	38.17	43.37	48.63		55.05	8 / 2			
reaction time	0.291	interval	4.07	4.20	4.50	4.66		4.71	4.76	4.94	5.20	5.26	6.42			12.77	14.13	15.40
	velocity	7.11	8.60	8.33	7.78	7.51		7.43	7.35	7.09	6.73	6.65	6.23	7.27		8.22	7.43	6.82
H1 lead leg	L	strides	16	16	17	17		17	17	17	18	18	22.2	175.2				

2020 Chinese Olympic Trials (Shaoxing, CHN)

FINAL

date 13-Jun-21

CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Zou Yifan (CHN) (2000)	time	6.76	11.34	16.00	20.72	25.56		30.48	35.57	40.86	46.43	52.08		58.18	5 / 1			
reaction time	0.208	interval	4.58	4.66	4.72	4.84		4.92	5.09	5.29	5.57	5.65	6.10			13.96	14.85	16.51
	velocity	6.66	7.64	7.51	7.42	7.23		7.11	6.88	6.62	6.28	6.19	6.56	6.88		7.52	7.07	6.36
H1 lead leg	L	strides	24	17	17	17		17	17	17	18	18	20.7	199.7				

Mo Jiadie (CHN) (2000)	time	6.69	11.14	15.82	20.42	25.21	30.13	35.25	40.42	45.88	51.62	58.34	4 / 2			
reaction time	0.254 interval		4.45	4.68	4.60	4.79	4.92	5.12	5.17	5.46	5.74	6.72		13.73	14.83	16.37
	velocity	6.73	7.87	7.48	7.61	7.31	7.11	6.84	6.77	6.41	6.10	5.95		7.65	7.08	6.41
H1 lead leg	L strides	24	16	16	16	16	17	17	17	18	18	21		196		
Tao Xue (CHN) (1999)	time	6.71	11.13	15.55	20.05	24.69	29.63	34.83	40.26	45.88	51.65	58.42	3 / 3			
reaction time	0.278 interval		4.42	4.42	4.50	4.64	4.94	5.20	5.43	5.62	5.77	PB		13.34	14.78	16.82
	velocity	6.71	7.92	7.92	7.78	7.54	7.09	6.73	6.45	6.23	6.07	5.91		7.87	7.10	6.24
H1 lead leg	L strides	23	15	15	15	15	16	16	17	17	17	20.5		186.5		
Kong Yingying (CHN) (2003)	time	6.87	11.51	16.35	21.17	26.19	31.38	36.67	42.04	47.66	53.39	59.75	7 / 4			
reaction time	0.360 interval		4.64	4.84	4.82	5.02	5.19	5.29	5.37	5.62	5.73	6.36		14.30	15.50	16.72
	velocity	6.55	7.54	7.23	7.26	6.97	6.74	6.62	6.52	6.23	6.11	6.29		7.34	6.77	6.28
H1 lead leg	L strides	24	16	16	16	16	17	17	17	18	18	21		196		
Yang Qi (CHN) (2000)	time	6.67	11.43	16.10	20.85	25.73	31.06	36.45	42.11	48.40	54.60	61.08	6 / 5			
reaction time	0.261 interval		4.76	4.67	4.75	4.88	5.33	5.39	5.66	6.29	6.20	6.48		14.18	15.60	18.15
	velocity	6.75	7.35	7.49	7.37	7.17	6.57	6.49	6.18	5.56	5.65	6.17		7.40	6.73	5.79
H1 lead leg	L strides	24	16	16	16	16	16	17	18	19	19	21.5		198.5		
Ding Yirui (CHN) (2002)	time	6.84	11.41	16.25	21.34	26.53	31.90	37.29	42.89	48.63	54.47	61.13	8 / 6			
reaction time	0.247 interval		4.57	4.84	5.09	5.19	5.37	5.39	5.60	5.74	5.84	6.66		14.50	15.95	17.18
	velocity	6.58	7.66	7.23	6.88	6.74	6.52	6.49	6.25	6.10	5.99	6.01		7.24	6.58	6.11
H1 lead leg	L strides	22	15	15	16	16	16	16	17	17	17	19.2		186.2		
Chen Liying (CHN) (1994)	time	6.56	10.98	15.70	20.62	25.71	30.86	36.29	41.91	47.96	54.22	61.27	2 / 7			
reaction time	0.168 interval		4.42	4.72	4.92	5.09	5.15	5.43	5.62	6.05	6.26	7.05		14.06	15.67	17.93
	velocity	6.86	7.92	7.42	7.11	6.88	6.80	6.45	6.23	5.79	5.59	5.67		7.47	6.70	5.86
H1 lead leg	R strides	23	15	16	16	17	17	17	18	19	19	22		199		
Fu Yijia (CHN) (2001)	time	6.84	11.58	16.38	21.42	26.63	31.93	37.30	42.86	48.81	54.79	61.52	1 / 8			
reaction time	0.244 interval		4.74	4.80	5.04	5.21	5.30	5.37	5.56	5.95	5.98	6.73		14.58	15.88	17.49
	velocity	6.58	7.38	7.29	6.94	6.72	6.60	6.52	6.29	5.88	5.85	5.94		7.20	6.61	6.00
H1 lead leg	R strides	23	16	16	17	17	17	17	17	18	18	21.7		197.7		

2021 NCAA Championships (Eugene, OR) (TV Analysis)**FINAL**

date 12-Jun-21

Henson (2021) - Athlete First: 2021 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Cockrell, Anna (USA) (1997)	time	6.27	10.53	14.87	19.40	24.13		28.93	33.80	38.67	43.67	48.67		54.68	6 / 1			
reaction time	0.166 interval		4.26	4.34	4.53	4.73		4.80	4.87	4.87	5.00	5.00	6.01	PB		13.13	14.40	14.87
	velocity	7.18	8.22	8.06	7.73	7.40		7.29	7.19	7.19	7.00	7.00	6.66	7.32		8.00	7.29	7.06
H1 lead leg	L strides	22	15	15	15	15		15	15	15	16	16	19.7	178.7				
Meisberger, Shannon (USA)	time	6.60	10.97	15.17	19.60	24.17		33.87	38.83	44.03	49.40			55.70	8 / 2			
reaction time	0.275 interval		4.37	4.20	4.43	4.57		9.70	4.96	5.20	5.37	6.30	PB		13.00	14.27	15.53	
	velocity	6.82	8.01	8.33	7.90	7.66		7.22	7.06	6.73	6.52	6.35	7.18		8.08	7.36	6.76	
H1 lead leg	R strides	23	15	15	15	16					17	17	20.5	138.5				
Knight, Andrenette (JAM) (†)	time	6.40		14.83	19.23	23.97		33.73	38.70	43.97	49.47			55.81	4 / 3			
reaction time	0.178 interval			8.43	4.40	4.74		9.76	4.97	5.27	5.50	6.34			12.83	14.50	15.74	
	velocity	7.03		8.30	7.95	7.38		7.17	7.04	6.64	6.36	6.31	7.17		8.18	7.24	6.67	
H1 lead leg	R strides	23			15	16					17	17	20.2	108.2				
Russell, Masai (USA) (2000)	time	6.37		15.00	19.63	24.40			39.30	44.47	49.87			56.18	5 / 4			
reaction time	0.335 interval			8.63	4.63	4.77			14.90	5.17	5.40	6.31	PB		13.26			
	velocity	7.06		8.11	7.56	7.34			7.05	6.77	6.48	6.34	7.12		7.92			
H1 lead leg	R strides	24			15	16					16	17	21	109				
Young, Milan (USA) (1999)	time	6.47		15.13	19.73	24.50			38.90	43.83	49.13			56.23	9 / 5			
reaction time	0.218 interval			8.66	4.60	4.77			14.40	4.93	5.30	7.10	PB		13.26			
	velocity	6.96		8.08	7.61	7.34			7.29	7.10	6.60	5.63	7.11		7.92			
H1 lead leg	R strides	23			15	15					15	16	21.5	105.5				
Ross, Faith (USA) (1998)	time	6.37		14.90	19.23	23.97			39.23	44.57	49.97			56.49	3 / 6			
reaction time	0.227 interval			8.53	4.33	4.74			15.26	5.34	5.40	6.52	PB		12.86			
	velocity	7.06		8.21	8.08	7.38			6.88	6.55	6.48	6.13	7.08		8.16			
H1 lead leg	L strides	24			15	15					17	17	21.2	109.2				
Lindley, Ashton (USA) (2002)	time	6.57		15.40	19.97	24.73			39.97	45.13	50.50			56.74	2 / 7			
reaction time	0.213 interval			8.83	4.57	4.76			15.24	5.16	5.37	6.24	PB		13.40			
	velocity	6.85		7.93	7.66	7.35			6.89	6.78	6.52	6.41	7.05		7.84			
H1 lead leg	L strides	23			16	16					17	17	89					
Cho, Stephanie (CAN) (1997)	time	6.67		15.63	20.30	25.17			40.73	46.07				57.48	1 / 8			
reaction time	0.298 interval			8.96	4.67	4.87			15.56	5.34			PB		13.63			
	velocity	6.75		7.81	7.49	7.19			6.75	6.55			6.96		7.70			
H1 lead leg	R strides	22			15	15					16		68					

Humphrey, Brittley (USA) (1 time	6.47	10.60	14.87	19.43	24.20		29.23	34.33	39.63	45.07			57.51	7 / 9				
reaction time	0.177	interval		4.13	4.27	4.56	4.77		5.03	5.10	5.30	5.44				12.96	14.90	
velocity	6.96	8.47	8.20	7.68	7.34		6.96	6.86	6.60	6.43			6.96		8.10	7.05		
H1 lead leg	L	strides	23	15	15	15	15	16	16	16	16		147					

2021 Golden Gala Pietro Mennea (Florence, ITA) (TV Analysis)**FINAL**

date 10-Jun-21

Henson (2021) - Athlete First: 2021 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Bol, Femke (NED) (2000)	time	6.32	10.44	14.60	18.80	23.08	24.9	27.62	32.28	37.12	42.16	47.40		53.44	4 / 1				
reaction time	0.209	interval		4.12	4.16	4.20	4.28		4.54	4.66	4.84	5.04	5.24	6.04	NR PB		12.48	13.48	15.12
velocity	7.12	8.50	8.41	8.33	8.18	8.03	7.71	7.51	7.23	6.94	6.68	6.62	7.49			8.41	7.79	6.94	
H1 lead leg	L	strides	22	15	15	15	15	15	15	15	15	16	19.5	162.5					
Ryzhykova, Anna (UKR) (1991)	time	6.44	10.56	14.62	18.80	23.20	25.1	27.88	32.64	37.56	42.64	48.04		54.19	5 / 2				
reaction time	0.182	interval		4.12	4.06	4.18	4.40		4.68	4.76	4.92	5.08	5.40	6.15	PB		12.36	13.84	15.40
velocity	6.99	8.50	8.62	8.37	7.95	7.97	7.48	7.35	7.11	6.89	6.48	6.50	7.38			8.50	7.59	6.82	
H1 lead leg	R	strides	22	14	14	14	14	15	15	15	15	16	19.7	173.7					
Turner, Jessica (GBR) (1995)	time	6.48	10.64	14.88	19.16	23.56	25.5	28.30	33.04	38.12	43.28	48.60		54.79	6 / 3				
reaction time	0.199	interval		4.16	4.24	4.28	4.40		4.74	4.74	5.08	5.16	5.32	6.19		12.68	13.88	15.56	
velocity	6.94	8.41	8.25	8.18	7.95	7.84	7.38	7.38	6.89	6.78	6.58	6.46	7.30			8.28	7.56	6.75	
H1 lead leg	L	strides	24	15	15	15	15	16	16	17	17	17	20.2	187.2					
Nel, Wenda (RSA) (1988)	time	6.36	10.76	15.20	19.68	24.20	26.2	28.96	33.76	38.72	43.80	49.08		55.20	8 / 4				
reaction time	0.182	interval		4.40	4.44	4.48	4.52		4.76	4.80	4.96	5.08	5.28	6.12		13.32	14.08	15.32	
velocity	7.08	7.95	7.88	7.81	7.74	7.63	7.35	7.29	7.06	6.89	6.63	6.54	7.25			7.88	7.46	6.85	
H1 lead leg	L	strides	23	16	16	16	16	16	17	17	17	17	21.5	192.5					
Petersen, Sara Slott (DEN) (1987)	time	6.44	10.68	14.96	19.32	23.70	25.7		33.08	38.16	43.48	48.96		55.21	2 / 5				
reaction time	0.144	interval		4.24	4.28	4.36	4.38		9.38	5.08	5.32	5.48	6.25		12.88	13.76	15.88		
velocity	6.99	8.25	8.18	8.03	7.99	7.78		7.46	6.89	6.58	6.39	6.40	7.25			8.15	7.63	6.61	
H1 lead leg	R	strides	22	15	15	15				16	17	17	20.7	137.7					
Olivieri, Linda (ITA) (1998)	time	6.48	10.88	15.30	19.80	24.44	26.5	29.32	34.20	39.20	44.28	49.52		55.63	7 / 6				
reaction time	0.134	interval		4.40	4.42	4.50	4.64		4.88	4.88	5.00	5.08	5.24	6.11	PB		13.32	14.40	15.32
velocity	6.94	7.95	7.92	7.78	7.54	7.55	7.17	7.17	7.00	6.89	6.68	6.55	7.19			7.88	7.29	6.85	
H1 lead leg	R	strides	23	15	15	15	15	16	16	16	16	17	20.2	184.2					
Folorunso, Ayomide (ITA) (1991)	time	6.36	10.60	14.92	19.32	23.88	25.9		33.64	38.96	44.44	50.24		56.92	3 / 7				
reaction time	0.193	interval		4.24	4.32	4.40	4.56		9.76	5.32	5.48	5.80	6.68		12.96	14.32	16.60		
velocity	7.08	8.25	8.10	7.95	7.68	7.72		7.17	6.58	6.39	6.03	5.99	7.03			8.10	7.33	6.33	
H1 lead leg	L	strides	23	15	15	15				17	17	18	120						
Belle, Tia-Adana (BAR) (1991)	time	6.72	11.20		20.68		27.6		35.56	40.92	46.48	52.08		58.36	1 / 8				
reaction time	0.172	interval		4.48		9.48			14.88	5.36	5.56	5.60	6.28		13.96	14.88	16.52		
velocity	6.70	7.81		7.38		7.25		7.06	6.53	6.29	6.25	6.37	6.85			7.52	7.06	6.36	
H1 lead leg	R	strides	24	16						17	17	17	91						

2021 Music City Track Carnival (Nashville, TN) (TV Analysis)**FINAL**

date 06-Jun-21

Henson (2021) - Athlete First: 2021 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin, Sydney (USA) (1991)	time	6.34	10.64	14.88	19.07	23.45		27.92	32.53	37.34	42.44	47.48		52.83	5 / 1			
reaction time		interval		4.30	4.24	4.19	4.38		4.47	4.61	4.81	5.10	5.04	5.35		12.73	13.46	14.95
velocity	7.10	8.14	8.25	8.35	7.99		7.83	7.59	7.28	6.86	6.94	7.48	7.57			8.25	7.80	7.02
H1 lead leg	R	strides	22	15	14	14	14	14	15		16	16	18.5	158.5				

2021 Denka Athletics Challenge Cup (Niigata, JPN)**FINAL**

date 06-Jun-21

Sugimoto (2021) - race analysis of men's and women's 400m hurdles in the 2021 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Utsunomiya, Eri (JPN) (1993)	time	6.51	10.78	15.10	19.54	24.22		29.06	34.08	39.37	44.79	50.43		57.03	5 / 1			
reaction time		interval		4.27	4.32	4.44	4.68		4.84	5.02	5.29	5.42	5.64	6.60		13.03	14.54	16.35
velocity	6.91	8.20	8.10	7.88	7.48		7.23	6.97	6.62	6.46	6.21	6.06	7.01			8.06	7.22	6.42
H1 lead leg	R	strides	23	15	15	15	15	16	16	17	17	17	22	188				
Ito, Akiko (JPN) (1995)	time	6.64	10.99	15.48	20.09	24.82		29.78	34.83	40.17	45.61	51.22		57.93	4 / 2			
reaction time		interval		4.35	4.49	4.61	4.73		4.96	5.05	5.34	5.44	5.61	6.71		13.45	14.74	16.39
velocity	6.78	8.05	7.80	7.59	7.40		7.06	6.93	6.55	6.43	6.24	5.96	6.90			7.81	7.12	6.41
H1 lead leg	L	strides	23	15	15	15	15	16	16	17	17	17	21.7	187.7				
Yokota, Karen (JPN) (1999)	time	6.81	11.39	16.05	20.85	25.83		30.80	35.87	41.11	46.53	52.05		58.37	8 / 3			
reaction time		interval		4.58	4.66	4.80	4.98		4.97	5.07	5.24	5.42	5.52	6.32		14.04	15.02	16.18
velocity	6.61	7.64	7.51	7.29	7.03		7.04	6.90	6.68	6.46	6.34	6.33	6.85			7.48	6.99	6.49
H1 lead leg	R	strides	24	16	16	16	17	17	17	17	17	17	174					

B FINAL

date 06-Jun-21

Sugimoto (2021) - race analysis of men's and women's 400m hurdles in the 2021 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Higa, Kazuki (JPN) (1998)	time	6.86	11.35	15.97	20.67	25.56		30.65	35.85	41.16	46.55	52.14		58.83	6 / 1			

reaction time	interval		4.49	4.62	4.70	4.89		5.09	5.20	5.31	5.39	5.59	6.69		13.81	15.18	16.29
	velocity	6.56	7.80	7.58	7.45	7.16		6.88	6.73	6.59	6.49	6.26	5.98	6.80	7.60	6.92	6.45
H1 lead leg	L	strides	24	16	16	16		17	17	17	17	17	22	195			
Saito, Mayu (JPN) (1995)	time		6.40	10.66	15.02	19.69	24.57		29.65	35.00	40.49	46.20	52.20		58.99	7 / 2	
reaction time	interval		4.26	4.36	4.67	4.88		5.08	5.35	5.49	5.71	6.00	6.79		13.29	15.31	17.20
	velocity	7.03	8.22	8.03	7.49	7.17		6.89	6.54	6.38	6.13	5.83	5.89	6.78	7.90	6.86	6.10
H1 lead leg	L	strides	24	16	16	17	17	17	18	18	19	19	23.2	204.2			
Kuki, Yurie (JPN) (1993)	time		6.86	11.26	15.82	20.47	25.44		30.48	35.84	41.34	47.01	52.92		59.42	4 / 3	
reaction time	interval		4.40	4.56	4.65	4.97		5.04	5.36	5.50	5.67	5.91	6.50		13.61	15.37	17.08
	velocity	6.56	7.95	7.68	7.53	7.04		6.94	6.53	6.36	6.17	5.92	6.15	6.73	7.71	6.83	6.15
H1 lead leg	R	strides	23	15	15	15	16	16	17	17	17	18	22.2	191.2			
Minamisawa, Akane (JPN) (1991)	time		6.97	11.54	16.10	20.70	25.59		30.55	35.72	41.04	46.56	52.45		59.45	5 / 4	
reaction time	interval		4.57	4.56	4.60	4.89		4.96	5.17	5.32	5.52	5.89	7.00		13.73	15.02	16.73
	velocity	6.46	7.66	7.68	7.61	7.16		7.06	6.77	6.58	6.34	5.94	5.71	6.73	7.65	6.99	6.28
H1 lead leg	L	strides	23	16	16	16	16	16	17	17	17	18	22.7	194.7			

C FINAL

date 06-Jun-21

Sugimoto (2021) - race analysis of men's and women's 400m hurdles in the 2021 season

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Oshiden, Moe (JPN) (1993)	time		6.89	11.51	16.20	20.92	25.78		30.78	35.94	41.24	46.78	52.45		59.09	5 / 1			
reaction time	interval		4.62	4.69	4.72	4.86		5.00	5.16	5.30	5.54	5.67	6.64		6.64		14.03	15.02	16.51
	velocity	6.53	7.58	7.46	7.42	7.20		7.00	6.78	6.60	6.32	6.17	6.02	6.77	7.48	6.99	6.36		
H1 lead leg	L	strides	23	16	16	16	16	16	17	17	17	17	17	21.7	192.7				

2021 Michitaka Kinami Memorial (Osaka, JPN)

FINAL

date 01-Jun-21

Sugimoto (2021) - race analysis of men's and women's 400m hurdles in the 2021 season

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Utsunomiya, Eri (JPN) (1993)	time		6.58	10.83	15.22	19.70	24.34		29.16	34.23	39.49	44.94	50.68		57.56	5 / 1			
reaction time	0.242 interval		4.25	4.39	4.48	4.64		4.82	5.07	5.26	5.45	5.74	6.88		6.88		13.12	14.53	16.45
	velocity	6.84	8.24	7.97	7.81	7.54		7.26	6.90	6.65	6.42	6.10	5.81	6.95	8.00	7.23	6.38		
H1 lead leg	R	strides	23	15	15	15	15	16	16	16	17	17	17	22	188				
Ibrahim, Aisya (JPN) (1998)	time		6.82	11.11	15.48	20.05	24.84		29.76	34.82	40.01	45.52	51.29		58.01	7 / 2			
reaction time	0.251 interval		4.29	4.37	4.57	4.79		4.92	5.06	5.19	5.51	5.77	6.72		6.72		13.23	14.77	16.47
	velocity	6.60	8.16	8.01	7.66	7.31		7.11	6.92	6.74	6.35	6.07	5.95	6.90	7.94	7.11	6.38		
H1 lead leg	R	strides	22	15	15	15	15	15	15	15	15	16	16	20.2	179.2				
Yamamoto, Ami (JPN) (2002)	time		6.84	11.34	15.89	20.59	25.43		30.45	35.64	40.89	46.45	52.12		58.48	2 / 3			
reaction time	0.257 interval		4.50	4.55	4.70	4.84		5.02	5.19	5.25	5.56	5.67	6.36		6.36		13.75	15.05	16.48
	velocity	6.58	7.78	7.69	7.45	7.23		6.97	6.74	6.67	6.29	6.17	6.29	6.84	7.64	6.98	6.37		
H1 lead leg	L	strides	24	16	16	16	16	17	17	17	17	18	18	21.5	196.5				
Ito, Akiko (JPN) (1995)	time		6.64	10.94	15.33	19.85	24.51		29.51	34.63	39.99	45.68	51.72		58.86	8 / 4			
reaction time	0.180 interval		4.30	4.39	4.52	4.66		5.00	5.12	5.36	5.69	6.04	7.14		7.14		13.21	14.78	17.09
	velocity	6.78	8.14	7.97	7.74	7.51		7.00	6.84	6.53	6.15	5.79	5.60	6.80	7.95	7.10	6.14		
H1 lead leg	L	strides	23	15	15	15	15	16	16	16	17	18	18	22	190				
Tsuha, Aiki (JPN) (2000)	time		6.74	11.19	15.83	20.65	25.61		30.60	35.77	41.06	46.56	52.27		58.93	9 / 5			
reaction time	0.179 interval		4.45	4.64	4.82	4.96		4.99	5.17	5.29	5.50	5.71	6.66		6.66		13.91	15.12	16.50
	velocity	6.68	7.87	7.54	7.26	7.06		7.01	6.77	6.62	6.36	6.13	6.01	6.79	7.55	6.94	6.36		
H1 lead leg	L	strides	25	17	17	17	17	17	18	18	18	19	19	23.2	207.2				

B FINAL

date 01-Jun-21

Sugimoto (2021) - race analysis of men's and women's 400m hurdles in the 2021 season

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Yokota, Karen (JPN) (1999)	time		6.69	11.21	15.87	20.67	25.56		30.63	35.82	41.09	46.50	52.15		58.71	3 / 1			
reaction time	0.189 interval		4.52	4.66	4.80	4.89		5.07	5.19	5.27	5.41	5.65	6.56		6.56		13.98	15.15	16.33
	velocity	6.73	7.74	7.51	7.29	7.16		6.90	6.74	6.64	6.47	6.19	6.10	6.81	7.51	6.93	6.43		
H1 lead leg	L	strides	23	16	16	16	17	17	17	17	17	17	17	21.7	194.7				
Aoki, Honoka (JPN) (2001)	time		6.76	11.19	15.75	20.42	25.31		30.38	35.69	41.22	46.78	52.47		58.77	7 / 2			
reaction time	0.189 interval		4.43	4.56	4.67	4.89		5.07	5.31	5.53	5.56	5.69	6.30		6.30		13.66	15.27	16.78
	velocity	6.66	7.90	7.68	7.49	7.16		6.90	6.59	6.33	6.29	6.15	6.35	6.81	7.69	6.88	6.26		
H1 lead leg	L	strides	24	16	16	17	17	17	18	18	18	18	18	21.5	200.5				
Murakami, Natsumi (JPN) (1991)	time		6.91	11.31	15.85	20.64	25.51		30.55	35.77	41.11	46.58	52.30		58.79	5 / 3			
reaction time	0.231 interval		4.40	4.54	4.79	4.87		5.04	5.22	5.34	5.47	5.72	6.49		6.49		13.73	15.13	16.53
	velocity	6.51	7.95	7.71	7.31	7.19		6.94	6.70	6.55	6.40	6.12	6.16	6.80	7.65	6.94	6.35		
H1 lead leg	R	strides	24	15	15	16	16	17	17	17	17	17	17	22.2	193.2				

2021 Shimane High School Championships (Izumo, JPN)

FINAL

date 29-May-21

Shimizu (2021) - shimane high school championships 2021 - biomechanics data analysis

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Matsumoto, Haruka (JPN)	time		7.48	12.85	18.37	23.97	29.65		35.42	41.38	47.50	53.97	60.42		67.20	6 / 1			
reaction time	interval		5.37	5.52	5.60	5.68		5.77	5.96	6.12	6.47	6.45	6.78		6.78		16.49	17.41	19.04
	velocity	6.02	6.52	6.34	6.25	6.16		6.07	5.87	5.72	5.41	5.43	5.90	5.95	6.37	6.03	5.51		
H1 lead leg		strides	26	19	19	19	19	19	19	19	21	21	21	23	226				

Nakamura, Nene (JPN)	time	7.50	12.78	18.23	23.80	29.57		35.68	42.12	48.43	54.98	61.62		69.27	5 / 2			
reaction time	interval		5.28	5.45	5.57	5.77		6.11	6.44	6.31	6.55	6.64	7.65			16.30	18.32	19.50
	velocity	6.00	6.63	6.42	6.28	6.07		5.73	5.43	5.55	5.34	5.27	5.23	5.77		6.44	5.73	5.38
H1 lead leg	strides	26	19	19	19	19		21	21	21	21	21	25.3	232.3				
Masuhara, Hoka (JPN)	time	7.62	12.98	18.73	24.45	30.38		36.52	42.82	49.15	55.60	62.23		69.69	3 / 3			
reaction time	interval		5.36	5.75	5.72	5.93		6.14	6.30	6.33	6.45	6.63	7.46			16.83	18.37	19.41
	velocity	5.91	6.53	6.09	6.12	5.90		5.70	5.56	5.53	5.43	5.28	5.36	5.74		6.24	5.72	5.41
H1 lead leg	strides	26	19	19	19	19		20	20	20	20	20	23.3	225.3				

2021 Philippe Cup Athletics Invitational (Wuhan, CHN)**FINAL**

date 20-May-21

CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Zou Yifan (CHN) (2000)	time	6.81	11.21	15.76	20.37	25.17		30.06	35.15	40.39	45.73	51.32		57.62	3 / 1			
reaction time	0.242 interval		4.40	4.55	4.61	4.80		4.89	5.09	5.24	5.34	5.59	6.30	PB		13.56	14.78	16.17
	velocity	6.61	7.95	7.69	7.59	7.29		7.16	6.88	6.68	6.55	6.26	6.35	6.94		7.74	7.10	6.49
H1 lead leg	L strides	24	17	17	17	17		17	17	17	17	17	21	198				
Jiang Liyunzhe (CHN) (2002)	time	6.71	11.16	15.70	20.42	25.17		30.11	35.23	40.37	46.11	52.05		58.83	6 / 2			
reaction time	0.187 interval		4.45	4.54	4.72	4.75		4.94	5.12	5.14	5.74	5.94	6.78	PB		13.71	14.81	16.82
	velocity	6.71	7.87	7.71	7.42	7.37		7.09	6.84	6.81	6.10	5.89	5.90	6.80		7.66	7.09	6.24
H1 lead leg	L strides	24	16	16	16	16		17	17	17	18	18	22	197				
Kong Yingying (CHN) (2003)	time	6.99	11.46	16.06	20.85	25.77		30.88	36.32	41.81	47.51	53.44		59.87	5 / 3			
reaction time	0.305 interval		4.47	4.60	4.79	4.92		5.11	5.44	5.49	5.70	5.93	6.43	PB		13.86	15.47	17.12
	velocity	6.44	7.83	7.61	7.31	7.11		6.85	6.43	6.38	6.14	5.90	6.22	6.68		7.58	6.79	6.13
H1 lead leg	L strides	24	16	16	17	17		17	18	18	18	19	21.5	201.5				
Fei Jiayu (CHN) (2000)	time	7.02	11.58	16.15	21.00	25.86		30.96	36.27	41.72		53.49		60.25	4 / 4			
reaction time	0.213 interval		4.56	4.57	4.85	4.86		5.10	5.31	5.45		11.77	6.76	PB		13.98	15.27	17.22
	velocity	6.41	7.68	7.66	7.22	7.20		6.86	6.59	6.42		5.95	5.92	6.64		7.51	6.88	6.10
H1 lead leg	R strides	24	16	16	16	16		17	17	17		18	21.5	178.5				
Wang Jiaqi (CHN) (2000)	time	7.06	11.51	16.20	20.99	25.93		31.00	36.37	42.06	48.00	54.17		61.24	2 / 5			
reaction time	0.246 interval		4.45	4.69	4.79	4.94		5.07	5.37	5.69	5.94	6.17	7.07			13.93	15.38	17.80
	velocity	6.37	7.87	7.46	7.31	7.09		6.90	6.52	6.15	5.89	5.67	5.66	6.53		7.54	6.83	5.90
H1 lead leg	R strides	24	17	17	17	17		17	18	18	18	19		182				
Ye Xiulan (CHN) (1998)	time	7.11	11.76	16.68	21.62	26.71		32.10	37.57	43.46	49.31			62.68	7 / 6			
reaction time	0.338 interval		4.65	4.92	4.94	5.09		5.39	5.47	5.89	5.85					14.51	15.95	
	velocity	6.33	7.53	7.11	7.09	6.88		6.49	6.40	5.94	5.98			6.38		7.24	6.58	
H1 lead leg	R strides	24	16	17	17	17		18	18	18	18			163				
Chen Lin (CHN) (2004)	time	7.47	12.33	17.33	22.42	27.66		33.23	38.94	44.79	50.85			64.20	8 / 7			
reaction time	0.243 interval		4.86	5.00	5.09	5.24		5.57	5.71	5.85	6.06					14.95	16.52	
	velocity	6.02	7.20	7.00	6.88	6.68		6.28	6.13	5.98	5.78			6.23		7.02	6.36	
H1 lead leg	R strides	25	17	17	17	17		18	18	18	19			166				

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

date 09-May-21

Sugimoto (2021) - race analysis of men's and women's 400m hurdles in the 2021 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Utsunomiya, Eri (JPN) (1993)	time	6.52	10.78	15.13	19.60	24.17		29.11	34.20	39.42	44.69	50.12		56.50	6 / 1			
reaction time	0.178 interval		4.26	4.35	4.47	4.57		4.94	5.09	5.22	5.27	5.43	6.38	PB		13.08	14.60	15.92
	velocity	6.90	8.22	8.05	7.83	7.66		7.09	6.88	6.70	6.64	6.45	6.27	7.08		8.03	7.19	6.60
H1 lead leg	R strides	23	15	15	15	15		16	16	17	17	17	21	187				
Ito, Akiko (JPN) (1995)	time	6.57	10.91	15.45	20.12	24.94		29.98	35.04	40.31	45.70	51.17		57.76	4 / 2			
reaction time	0.153 interval		4.34	4.54	4.67	4.82		5.04	5.06	5.27	5.39	5.47	6.59			13.55	14.92	16.13
	velocity	6.85	8.06	7.71	7.49	7.26		6.94	6.92	6.64	6.49	6.40	6.07	6.93		7.75	7.04	6.51
H1 lead leg	L strides	23	15	15	15	16		18	17	17	17	18	21	192				
Yokota, Karen (JPN) (1999)	time	6.74	11.26	15.88	20.66	25.56		30.48	35.54	40.71	45.98	51.50		58.00	3 / 3			
reaction time	0.178 interval		4.52	4.62	4.78	4.90		4.92	5.06	5.17	5.27	5.52	6.50	PB		13.92	14.88	15.96
	velocity	6.68	7.74	7.58	7.32	7.14		7.11	6.92	6.77	6.64	6.34	6.15	6.90		7.54	7.06	6.58
H1 lead leg	L strides	23	16	16	17	17		17	17	17	17	17	21.7	195.7				
Ono, Mizuna (JPN) (2002)	time	6.66	11.04	15.67	20.42	25.26		30.31	35.47	40.88	46.34	51.90		58.43	5 / 4			
reaction time	0.149 interval		4.38	4.63	4.75	4.84		5.05	5.16	5.41	5.46	5.56	6.53			13.76	15.05	16.43
	velocity	6.76	7.99	7.56	7.37	7.23		6.93	6.78	6.47	6.41	6.29	6.13	6.85		7.63	6.98	6.39
H1 lead leg	L strides	23	15	16	16	16		16	16	17	17	17	21	190				
Kuki, Yurie (JPN) (1993)	time	6.87	11.36	15.97	20.69	25.69		31.06	36.42	41.84	47.31	53.05		59.80	8 / 5			
reaction time	0.139 interval		4.49	4.61	4.72	5.00		5.37	5.36	5.42	5.47	5.74	6.75			13.82	15.73	16.63
	velocity	6.55	7.80	7.59	7.42	7.00		6.52	6.53	6.46	6.40	6.10	5.93	6.69		7.60	6.68	6.31
H1 lead leg	R strides	23	15	15	15	16		18	17	17	17	18		171				
Nakano, Nano (JPN) (2001)	time	6.86	11.54	16.33	21.22	26.28		31.48	36.92	42.41	48.00	53.67		60.17	9 / 6			

reaction time	0.154	interval	4.68	4.79	4.89	5.06	5.20	5.44	5.49	5.59	5.67	6.50	14.36	15.70	16.75	
		velocity	6.56	7.48	7.31	7.16	6.92	6.73	6.43	6.38	6.26	6.17	6.65	7.31	6.69	6.27
H1 lead leg	L	strides	24	17	17	17	17	17	19	19	19	19	185			
Mizuguchi, Moe (JPN) (2002)	time	6.96	11.64	16.48	21.30	26.33	31.51	37.14	42.81	48.57	54.59	61.41	1 / 7			
reaction time	0.194	interval	4.68	4.84	4.82	5.03	5.18	5.63	5.67	5.76	6.02	6.82	14.34	15.84	17.45	
		velocity	6.47	7.48	7.23	7.26	6.96	6.76	6.22	6.17	6.08	5.81	6.51	7.32	6.63	6.02
H1 lead leg	R	strides	24	16	17	16	17	17	18	18	18	18	179			

2021 Shizuoka International Athletics Meeting (Fukuroi, JPN)**Final**

date 03-May-21

Sugimoto (2021) - race analysis of men's and women's 400m hurdles in the 2021 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Seikmoto, Moeka (JPN) (2001)	time	6.71	11.08	15.58	20.10	24.76	29.56	34.42	39.44	44.73	50.34	57.33	6 / 1					
reaction time	0.216	interval	4.37	4.50	4.52	4.66	4.80	4.86	5.02	5.29	5.61	6.99	13.39	14.32	15.92			
		velocity	6.71	8.01	7.78	7.74	7.51	7.29	7.20	6.97	6.62	6.24	5.72	6.98	7.84	7.33	6.60	
H1 lead leg	R	strides	22	15	15	15	15	16	16	17	17	17	22	187				
Utsunomiya, Eri (JPN) (1993)	time	6.56	10.86	15.35	19.84	24.47	29.48	34.55	39.89	45.28	50.98	57.57	4 / 2					
reaction time	0.196	interval	4.30	4.49	4.49	4.63	5.01	5.07	5.34	5.39	5.70	6.59	13.28	14.71	16.43			
		velocity	6.86	8.14	7.80	7.80	7.56	6.99	6.90	6.55	6.49	6.14	6.07	6.95	7.91	7.14	6.39	
H1 lead leg	R	strides	23	15	15	15	15	16	16	17	17	17	22	188				
Ito, Akiko (JPN) (1995)	time	6.62	10.99	15.62	20.39	25.23	30.26	35.32	40.64	46.20	51.92	58.65	7 / 3					
reaction time	0.166	interval	4.37	4.63	4.77	4.84	5.03	5.06	5.32	5.56	5.72	6.73	13.77	14.93	16.60			
		velocity	6.80	8.01	7.56	7.34	7.23	6.96	6.92	6.58	6.29	6.12	5.94	6.82	7.63	7.03	6.33	
H1 lead leg	L	strides	23	15	15	16	16	16	16	17	17	17	168					
Kawamura, Yuka (JPN) (2001)	time	7.02	11.64	16.42	21.20	26.06	31.15	36.29	41.56	46.95	52.50	58.96	3 / 4					
reaction time	0.214	interval	4.62	4.78	4.78	4.86	5.09	5.14	5.27	5.39	5.55	6.46	14.18	15.09	16.21			
		velocity	6.41	7.58	7.32	7.32	7.20	6.88	6.81	6.64	6.49	6.31	6.19	6.78	7.40	6.96	6.48	
H1 lead leg	R	strides	23	16	16	16	16	17	17	17	17	17	172					
Ono, Mizuna (JPN) (2002)	time	6.79	11.44	16.22	21.05	26.09	31.15	36.30	41.57	46.98	52.57	59.21	8 / 5					
reaction time	0.161	interval	4.65	4.78	4.83	5.04	5.06	5.15	5.27	5.41	5.59	6.64	14.26	15.25	16.27			
		velocity	6.63	7.53	7.32	7.25	6.94	6.92	6.80	6.64	6.47	6.26	6.02	6.76	7.36	6.89	6.45	
H1 lead leg	L	strides	23	16	16	16	16	16	17	17	17	17	171					
Tsugawa, Rui (JPN) (2001)	time	7.07	11.81	16.72	21.62	26.71	31.80	36.97	42.23	47.60	53.27	60.52	9 / 6					
reaction time	0.230	interval	4.74	4.91	4.90	5.09	5.09	5.17	5.26	5.37	5.67	7.25	14.55	15.35	16.30			
		velocity	6.36	7.38	7.13	7.14	6.88	6.88	6.77	6.65	6.52	6.17	5.52	6.61	7.22	6.84	6.44	
H1 lead leg	L	strides	23	17	17	17	17	17	17	17	17	18	177					

B FINAL

date 03-May-21

Sugimoto (2021) - race analysis of men's and women's 400m hurdles in the 2021 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tsuha, Aiki (JPN) (2000)	time	6.76	11.41	16.17	20.92	25.83	30.73	35.89	41.14	46.70	52.60	59.62	5 / 1					
reaction time	0.174	interval	4.65	4.76	4.75	4.91	4.90	5.16	5.25	5.56	5.90	7.02	14.16	14.97	16.71			
		velocity	6.66	7.53	7.35	7.37	7.13	7.14	6.78	6.67	6.29	5.93	5.70	6.71	7.42	7.01	6.28	
H1 lead leg	L	strides	25	17	17	17	17	17	18	18	18	18	24	206				
Yokota, Karen (JPN) (1999)	time	6.84	11.51	16.27	21.17	26.18	31.18	36.34	41.59	47.20	53.09	59.83	7 / 2					
reaction time	0.185	interval	4.67	4.76	4.90	5.01	5.00	5.16	5.25	5.61	5.89	6.74	14.33	15.17	16.75			
		velocity	6.58	7.49	7.35	7.14	6.99	7.00	6.78	6.67	6.24	5.94	5.93	6.69	7.33	6.92	6.27	
H1 lead leg	L	strides	23	16	16	17	17	17	17	17	17	17	22.2	196.2				

2021 East China District Meeting (Zhaoqing, CHN)**FINAL**

date 25-Apr-21

CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mo Jiadie (CHN) (2000)	time	6.56	10.89	15.35	19.94	24.66	29.60	34.68	39.89	45.28	50.83	56.73	5 / 1					
reaction time	0.258	interval	4.33	4.46	4.59	4.72	4.94	5.08	5.21	5.39	5.55	5.90	13.38	14.74	16.15			
		velocity	6.86	8.08	7.85	7.63	7.42	7.09	6.89	6.72	6.49	6.31	6.78	7.05	7.85	7.12	6.50	
H1 lead leg	L	strides	24	16	16	16	16	17	17	17	18	18	21	196				
Zou Yifan (CHN) (2000)	time	6.74	11.26	15.85	20.57	25.47	30.56	35.79	41.02	46.33	51.77	57.78	6 / 2					
reaction time	0.243	interval	4.52	4.59	4.72	4.90	5.09	5.23	5.23	5.31	5.44	6.01	13.83	15.22	15.98			
		velocity	6.68	7.74	7.63	7.42	7.14	6.88	6.69	6.69	6.59	6.43	6.66	6.92	7.59	6.90	6.57	
H1 lead leg	L	strides	24	17	17	17	17	17	17	17	17	17	20	197				
Wu Xueting (CHN) (1995)	time	6.94	11.46	16.16	20.92	25.94	31.11	36.52	42.04	47.55	53.07	59.25	2 / 3					
reaction time	0.239	interval	4.52	4.70	4.76	5.02	5.17	5.41	5.52	5.51	5.52	6.18	13.98	15.60	16.55			
		velocity	6.48	7.74	7.45	7.35	6.97	6.77	6.47	6.34	6.35	6.34	6.47	6.75	7.51	6.73	6.34	
H1 lead leg	L	strides	22	15	15	16	16	16	17	17	17	17	20	187				
Huang Yan (CHN) (1996)	time	6.77	11.23	15.80	20.65	25.69	30.76	36.12	41.99	47.63	53.29	59.80	4 / 4					
reaction time	0.236	interval	4.46	4.57	4.85	5.04	5.07	5.36	5.87	5.64	5.66	6.51	13.88	15.47	17.17			
		velocity	6.65	7.85	7.66	7.22	6.94	6.90	6.53	5.96	6.21	6.18	6.14	6.69	7.56	6.79	6.12	
H1 lead leg	L	strides	24	16	16	17	17	17	18	19	18	18	21	201				
Liu Hongjuan (CHN) (1996)	time	6.66	11.18	15.82	20.68	25.68	30.94	36.40	41.90	47.74	53.58	60.33	7 / 5					

reaction time	0.240	interval	4.52	4.64	4.86	5.00	5.26	5.46	5.50	5.84	5.84	6.75	14.02	15.72	17.18		
		velocity	6.76	7.74	7.54	7.20	7.00	6.65	6.41	6.36	5.99	5.99	5.93	6.63	7.49	6.68	6.11
H1 lead leg	L	strides	23	16	16	16	16	17	17	17	18	18	22	196			
Ou Ying (CHN) (2001)	time	6.98	11.64	16.42	21.32	26.38	31.66	37.20	42.86	48.54	54.32	61.01	8 / 6				
reaction time	0.237	interval	4.66	4.78	4.90	5.06	5.28	5.54	5.66	5.68	5.78	6.69	14.34	15.88	17.12		
		velocity	6.45	7.51	7.32	7.14	6.92	6.63	6.32	6.18	6.16	6.06	5.98	6.56	7.32	6.61	6.13
H1 lead leg	L	strides	24	17	17	17	17	17	18	18	18	19	22	204			
Chen Liying (CHN) (1994)	time	6.96	11.72	16.48	21.38	26.42	31.76	37.34	43.16	49.18	55.12	61.86	9 / 7				
reaction time	0.199	interval	4.76	4.76	4.90	5.04	5.34	5.58	5.82	6.02	5.94	6.74	14.42	15.96	17.78		
		velocity	6.47	7.35	7.35	7.14	6.94	6.55	6.27	6.01	5.81	5.89	5.93	6.47	7.28	6.58	5.91
H1 lead leg	R	strides	24	16	16	16	16	17	17	18	18	19	21.5	198.5			

Heat 3

date 25-Apr-21

CAA Hurdle Development (2021)

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Huang Yan (CHN) (1996)	time	6.82	11.38	15.98	20.82	25.83	30.91	36.14	41.69	47.30	53.15	60.05	4 / 1						
reaction time	0.232	interval	4.56	4.60	4.84	5.01	5.08	5.23	5.55	5.61	5.85	6.90	14.00	15.32	17.01				
		velocity	6.60	7.68	7.61	7.23	6.99	6.89	6.69	6.31	6.24	5.98	5.80	6.66	7.50	6.85	6.17		
H1 lead leg	L	strides	24	16	16	17	17	17	17	17	18	18	19	22	201				
Ou Ying (CHN) (2001)	time	7.16	11.79	16.57	21.37	26.31	31.41	36.84	42.48	48.30	54.10	60.65	3 / 2						
reaction time	0.255	interval	4.63	4.78	4.80	4.94	5.10	5.43	5.64	5.82	5.80	6.55	14.21	15.47	17.26				
		velocity	6.28	7.56	7.32	7.29	7.09	6.86	6.45	6.21	6.01	6.03	6.11	6.60	7.39	6.79	6.08		
H1 lead leg	L	strides	24	17	17	17	17	17	18	18	19	19	22	205					
Chen Leyi (CHN) (2003)	time	7.10	11.81	16.77	22.02	27.46	33.06	38.92	44.80	50.68	56.64	63.15	6 / 3						
reaction time	0.339	interval	4.71	4.96	5.25	5.44	5.60	5.86	5.88	5.88	5.96	6.51	14.92	16.90	17.72				
		velocity	6.34	7.43	7.06	6.67	6.43	6.25	5.97	5.95	5.95	5.87	6.14	6.33	7.04	6.21	5.93		
H1 lead leg	L	strides	25	17	17	18	18	18	19	19	19	19	22	211					
Tang Ziying (CHN) (1999)	time	7.26	12.26	17.30	22.39	27.63	33.00	38.54	44.22	50.02	56.30	63.44	8 / 4						
reaction time	0.257	interval	5.00	5.04	5.09	5.24	5.37	5.54	5.68	5.80	6.28	7.14	15.13	16.15	17.76				
		velocity	6.20	7.00	6.94	6.88	6.68	6.52	6.32	6.16	6.03	5.57	5.60	6.31	6.94	6.50	5.91		
H1 lead leg	L	strides	24	17	17	17	17	17	17	17	17	17	19	22	201				
Tang Chan (CHN) (2003)	time	7.28	12.16	17.28	22.53	28.00	33.60	39.61	46.00	52.42	58.80	65.39	7 / 5						
reaction time	0.331	interval	4.88	5.12	5.25	5.47	5.60	6.01	6.39	6.42	6.38	6.59	15.25	17.08	19.19				
		velocity	6.18	7.17	6.84	6.67	6.40	6.25	5.82	5.48	5.45	5.49	6.07	6.12	6.89	6.15	5.47		
H1 lead leg	L	strides	24	17	17	17	17	17	17	19	19	19	21	185					
Lin Zixin (CHN) (2004)	time	7.54	12.70	18.08	23.61	29.15	34.74	40.37	46.04	51.75	57.50	63.29	5 / 6						
reaction time	0.223	interval	5.16	5.38	5.53	5.53	5.97	6.78	6.51	6.33	6.33	6.33	16.07						
		velocity	5.97	6.78	6.51	6.33	6.33	6.33	6.33	6.33	6.33	6.33	6.33	5.54	6.53				
H1 lead leg	L	strides	24	17	17	17	17	17	17	17	17	17	17	75					

Heat 2

date 25-Apr-21

CAA Hurdle Development (2021)

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mo Jiadie (CHN) (2000)	time	6.84	11.28	15.83	20.44	25.22	30.28	35.65	41.19	47.01	53.00	59.57	3 / 1						
reaction time	0.312	interval	4.44	4.55	4.61	4.78	5.06	5.37	5.54	5.82	5.99	6.57	13.60	15.21	17.35				
		velocity	6.58	7.88	7.69	7.59	7.32	6.92	6.52	6.32	6.01	5.84	6.09	6.71	7.72	6.90	6.05		
H1 lead leg	L	strides	24	16	16	16	16	17	17	17	18	18	21	196					
Wu Xueting (CHN) (1995)	time	7.00	11.60	16.25	21.02	26.06	31.31	36.72	42.28	48.02	54.04	60.99	7 / 2						
reaction time	0.265	interval	4.60	4.65	4.77	5.04	5.25	5.41	5.56	5.74	6.02	6.95	14.02	15.70	17.32				
		velocity	6.43	7.61	7.53	7.34	6.94	6.67	6.47	6.29	6.10	5.81	5.76	6.56	7.49	6.69	6.06		
H1 lead leg	L	strides	22	15	15	15	16	16	17	17	17	18	21	189					
Jiang Liyunzhe (CHN) (2002)	time	6.84	11.48	16.24	21.18	26.24	31.38	36.72	42.26	48.36	54.40	61.03	8 / 3						
reaction time	0.246	interval	4.64	4.76	4.94	5.06	5.14	5.34	5.54	6.10	6.04	6.63	14.34	15.54	17.68				
		velocity	6.58	7.54	7.35	7.09	6.92	6.81	6.55	6.32	5.74	5.79	6.03	6.55	7.32	6.76	5.94		
H1 lead leg	L	strides	24	16	16	17	17	17	17	17	19	19	21	200					
Fei Jiayu (CHN) (2000)	time	7.17	11.96	16.80	21.74	26.81	32.01	37.37	42.90	48.80	54.80	61.67	6 / 4						
reaction time	0.222	interval	4.79	4.84	4.94	5.07	5.20	5.36	5.53	5.90	6.00	6.87	14.57	15.63	17.43				
		velocity	6.28	7.31	7.23	7.09	6.90	6.73	6.53	6.33	5.93	5.83	5.82	6.49	7.21	6.72	6.02		
H1 lead leg	R	strides	24	16	16	17	17	17	17	17	18	18	21.5	198.5					
Tao Xue (CHN) (1999)	time	6.92	11.23	15.63	20.10	24.67	29.56	34.68	40.11	45.90	51.87	57.84	63.30	2 / 5					
reaction time	0.292	interval	4.31	4.40	4.47	4.57	4.89	5.12	5.43	5.79	5.97	11.43	13.18	14.58	17.19				
		velocity	6.50	8.12	7.95	7.83	7.66	7.16	6.84	6.45	6.04	5.86	3.50	6.32	7.97	7.20	6.11		
H1 lead leg	L	strides	23	15	15	15	15	16	16	17	18	18	168						
Feng Meiya (CHN) (2001)	time	7.02	11.70	16.50	21.45	26.74	32.35	38.25	44.50	51.10	57.80	64.33	4 / 6						
reaction time	0.231	interval	4.68	4.80	4.95	5.29	5.61	5.90	6.25	6.60	6.95	7.30	14.43	16.80					
		velocity	6.41	7.48	7.29	7.07	6.62	6.24	5.93	5.60	5.27	5.00	6.22	7.28	6.25				
H1 lead leg	L	strides	24	17	17	17	17	18	19	20	21	22	149						

Heat 1

date 25-Apr-21

CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Zou Yifan (CHN) (2000)	time	6.76	11.21	15.72	20.32	25.09		30.01	35.08	40.26	45.81	51.43		57.63	4 / 1				
	reaction time	0.247	interval	4.45	4.51	4.60	4.77	4.92	5.07	5.18	5.55	5.62	6.20	PB		13.56	14.76	16.35	
		velocity	6.66	7.87	7.76	7.61	7.34		7.11	6.90	6.76	6.31	6.23	6.45	6.94		7.74	7.11	6.42
	H1 lead leg	L	strides	24	17	17	17	17	17	17	17	18	18	21	200				
Liu Hongjuan (CHN) (1996)	time	6.82	11.36	16.00	20.82	25.78		31.05	36.44	42.04	47.78	53.75		60.54	7 / 2				
	reaction time	0.249	interval	4.54	4.64	4.82	4.96	5.27	5.39	5.60	5.74	5.97	6.79			14.00	15.62	17.31	
		velocity	6.60	7.71	7.54	7.26	7.06		6.64	6.49	6.25	6.10	5.86	5.89	6.61		7.50	6.72	6.07
	H1 lead leg	L	strides	23	16	16	16	16	17	17	17	18	19	22	197				
Chen Liying (CHN) (1994)	time	6.87	11.41	16.10	20.84	25.74		30.85	36.10	41.61	47.63	53.75		60.55	3 / 3				
	reaction time	0.214	interval	4.54	4.69	4.74	4.90	5.11	5.25	5.51	6.02	6.12	6.80			13.97	15.26	17.65	
		velocity	6.55	7.71	7.46	7.38	7.14		6.85	6.67	6.35	5.81	5.72	5.88	6.61		7.52	6.88	5.95
	H1 lead leg	R	strides	24	16	16	16	16	17	17	18	19	19	22	200				
Chen Zhuo (CHN) (2001)	time	7.02	11.61	16.22	20.97	25.99		31.35	36.87	42.73	48.82	55.04		62.21	6 / 4				
	reaction time	0.247	interval	4.59	4.61	4.75	5.02	5.36	5.52	5.86	6.09	6.22	7.17			13.95	15.90	18.17	
		velocity	6.41	7.63	7.59	7.37	6.97		6.53	6.34	5.97	5.75	5.63	5.58	6.43		7.53	6.60	5.78
	H1 lead leg	L	strides	24	16	16	16	16	17	17	18	18	19	22	199				
Zhang Dongmei (CHN) (2001)	time	6.82	11.41	16.17	21.10	26.28		31.78	37.70	43.66	49.90	56.12		62.82	5 / 5				
	reaction time	0.216	interval	4.59	4.76	4.93	5.18	5.50	5.92	5.96	6.24	6.22	6.70			14.28	16.60	18.42	
		velocity	6.60	7.63	7.35	7.10	6.76		6.36	5.91	5.87	5.61	5.63	5.97	6.37		7.35	6.33	5.70
	H1 lead leg	L	strides	24	17	17	17	17	19	19	19	19	19	21	208				
Song Zhixin (CHN) (2005)	time	7.50	12.46	17.48	22.69	28.10		33.77	39.79					66.25	8 / 6				
	reaction time	0.312	interval	4.96	5.02	5.21	5.41	5.67	6.02								15.19	17.10	
		velocity	6.00	7.06	6.97	6.72	6.47		6.17	5.81					6.04		6.91	6.14	
	H1 lead leg	L	strides	24	17	17	17	17	17	18				127					

2021 National Grand Prix (Chengdu, CHN)

FINAL

date 02-Apr-21

CAA Hurdle Development (2021)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Chen Lin (CHN) (2004)	time	6.95	11.63	16.46	21.46	26.56		31.77	37.29	42.87	48.52	54.17		60.69	3 / 1				
	reaction time	0.207	interval	4.68	4.83	5.00	5.10	5.21	5.52	5.58	5.65	5.65	6.52			14.51	15.83	16.88	
		velocity	6.47	7.48	7.25	7.00	6.86		6.72	6.34	6.27	6.19	6.19	6.13	6.59		7.24	6.63	6.22
	H1 lead leg	L	strides	24	17	17	17	17	17	18	18	18	18	22	203				
Liu Wei (CHN) (2001)	time	7.13	11.83	16.56	21.36	26.31		31.29	36.54	42.10	47.93	53.95		61.31	5 / 2				
	reaction time	0.298	interval	4.70	4.73	4.80	4.95	4.98	5.25	5.56	5.83	6.02	7.36			14.23	15.18	17.41	
		velocity	6.31	7.45	7.40	7.29	7.07		7.03	6.67	6.29	6.00	5.81	5.43	6.52		7.38	6.92	6.03
	H1 lead leg	L	strides	24	17	17	17	17	17	18	19	19	19	24	208				
Hu Lihong (CHN) (1999)	time	6.91	11.48	16.13	20.86	25.79		30.96	36.35	42.17	48.38	54.90		62.74	6 / 3				
	reaction time	0.154	interval	4.57	4.65	4.73	4.93	5.17	5.39	5.82	6.21	6.52	7.84			13.95	15.49	18.55	
		velocity	6.51	7.66	7.53	7.40	7.10		6.77	6.49	6.01	5.64	5.37	5.10	6.38		7.53	6.78	5.66
	H1 lead leg	L	strides	23	16	16	16	16	17	17	17	18	18	22.7	196.7				
Teng Xinyao (CHN) (2000)	time	7.40	12.29	17.28	22.37	27.72		33.40	39.40	45.62	51.93			65.12	4 / 4				
	reaction time	0.290	interval	4.89	4.99	5.09	5.35	5.68	6.00	6.22	6.31						14.97	17.03	
		velocity	6.08	7.16	7.01	6.88	6.54		6.16	5.83	5.63	5.55			6.14		7.01	6.17	
	H1 lead leg	R	strides	24	17	17	17	17	19	19	19	19		168					
Huang Jie (CHN) (2005)	time	7.23	11.93	16.71	21.71	26.99		32.66	38.87	45.58				dnf	8 / --				
	reaction time	0.312	interval	4.70	4.78	5.00	5.28	5.67	6.21	6.71							14.48	17.16	
		velocity	6.22	7.45	7.32	7.00	6.63		6.17	5.64	5.22						7.25	6.12	
	H1 lead leg	L	strides	25	17	17	17	17	17	19	19			148					

2020 Japanese U20 National Championships (Hiroshima, JPN)

FINAL

date 25-Oct-20

Sugimoto (2020) - race pattern analysis of japan's top male and female 400m hurdlers- 2020 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Nakano, Nano (JPN) (2001)	time	6.96	11.61	16.38	21.19	26.14		31.35	36.65	42.11	47.46	52.84		58.94	6 / 1				
	reaction time	0.211	interval	4.65	4.77	4.81	4.95	5.21	5.30	5.46	5.35	5.38	6.10			14.23	15.46	16.19	
		velocity	6.47	7.53	7.34	7.28	7.07		6.72	6.60	6.41	6.54	6.51	6.56	6.79		7.38	6.79	6.49
	H1 lead leg		strides	17	17	17	17	17	17	19	19	19	19	161					
Aoki, Honoka (JPN) (2001)	time	6.94	11.53	16.20	21.02	26.06		31.16	36.42	41.89	47.45	52.92		59.02	5 / 2				
	reaction time	0.202	interval	4.59	4.67	4.82	5.04	5.10	5.26	5.47	5.56	5.47	6.10			14.08	15.40	16.50	
		velocity	6.48	7.63	7.49	7.26	6.94		6.86	6.65	6.40	6.29	6.40	6.56	6.78		7.46	6.82	6.36
	H1 lead leg		strides	16	16	17	17	17	17	18	18	18	18	154					
Kagawa, Yumeka (JPN) (2001)	time	7.02	11.70	16.55	21.45	26.51		31.78	37.17	42.74	48.31	53.89		60.11	3 / 3				
	reaction time	0.230	interval	4.68	4.85	4.90	5.06	5.27	5.39	5.57	5.57	5.58	6.22			14.43	15.72	16.72	
		velocity	6.41	7.48	7.22	7.14	6.92		6.64	6.49	6.28	6.28	6.27	6.43	6.65		7.28	6.68	6.28
	H1 lead leg		strides	16	16	16	16	17	17	17	17	17	17	149					

Okubayashi, Rin (JPN) (2000)	time	6.87	11.59	16.47	21.49	26.61		31.90	37.32	42.83	48.33	53.94		60.52	7 / 4			
reaction time	0.203 interval		4.72	4.88	5.02	5.12		5.29	5.42	5.51	5.50	5.61	6.58			14.62	15.83	16.62
	velocity	6.55	7.42	7.17	6.97	6.84		6.62	6.46	6.35	6.36	6.24	6.08	6.61		7.18	6.63	6.32
H1 lead leg	strides		16	16	16	16		17	17	17	17	17	149					
Aruga, Chiharu (JPN) (2001)	time	6.99	11.64	16.42	21.34	26.54		32.00	37.64	43.46	49.12	54.60		60.72	4 / 5			
reaction time	0.174 interval		4.65	4.78	4.92	5.20		5.46	5.64	5.82	5.66	5.48	6.12			14.35	16.30	16.96
	velocity	6.44	7.53	7.32	7.11	6.73		6.41	6.21	6.01	6.18	6.39	6.54	6.59		7.32	6.44	6.19
H1 lead leg	strides		17	17	17	17		18	19	20	19	19	163					
Manabe, Ayana (JPN) (2001)	time	7.27	12.20	17.22	22.37	27.58		32.90	38.39	43.99	49.53	55.12		61.35	2 / 6			
reaction time	0.202 interval		4.93	5.02	5.15	5.21		5.32	5.49	5.60	5.54	5.59	6.23			15.10	16.02	16.73
	velocity	6.19	7.10	6.97	6.80	6.72		6.58	6.38	6.25	6.32	6.26	6.42	6.52		6.95	6.55	6.28
H1 lead leg	strides		16	16	16	16		16	17	17	17	17	148					
Okawa, Nazuna (JPN) (2001)	time	7.31	12.18	17.07	22.01	27.08		32.23	37.47	42.86	48.40	54.42		61.63	8 / 7			
reaction time	0.249 interval		4.87	4.89	4.94	5.07		5.15	5.24	5.39	5.54	6.02	7.21			14.70	15.46	16.95
	velocity	6.16	7.19	7.16	7.09	6.90		6.80	6.68	6.49	6.32	5.81	5.55	6.49		7.14	6.79	6.19
H1 lead leg	strides		17	17	17	17		17	17	17	17	19	155					
Ban, Nozomi (JPN) (2001)	time	6.87	11.53	16.35	21.32	26.49		31.72	37.14	42.66	48.55	54.70		61.65	1 / 8			
reaction time	0.176 interval		4.66	4.82	4.97	5.17		5.23	5.42	5.52	5.89	6.15	6.95			14.45	15.82	17.56
	velocity	6.55	7.51	7.26	7.04	6.77		6.69	6.46	6.34	5.94	5.69	5.76	6.49		7.27	6.64	5.98
H1 lead leg	strides		16	16	17	17		17	17	17	19	19	155					

2020 Japanese High School National Championships (Hiroshima, JPN)

FINAL

date 25-Oct-20

Sugimoto (2020) - race pattern analysis of japan's top male and female 400m hurdlers- 2020 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Yamamoto, Ami (JPN) (2002)	time	6.69	11.11	15.72	20.34	25.06		30.05	35.25	40.44	45.83	51.32		57.51	3 / 1			
reaction time	0.208 interval		4.42	4.61	4.62	4.72		4.99	5.20	5.19	5.39	5.49	6.19			13.65	14.91	16.07
	velocity	6.73	7.92	7.59	7.58	7.42		7.01	6.73	6.74	6.49	6.38	6.46	6.96		7.69	7.04	6.53
H1 lead leg	strides		16	16	16	16		17	17	17	18	18	151					
Ono, Mizuna (JPN) (2002)	time	6.64	11.08	15.58	20.15	24.92		29.96	35.19	40.47	46.00	51.55		57.81	8 / 2			
reaction time	0.159 interval		4.44	4.50	4.57	4.77		5.04	5.23	5.28	5.53	5.55	6.26			13.51	15.04	16.36
	velocity	6.78	7.88	7.78	7.66	7.34		6.94	6.69	6.63	6.33	6.31	6.39	6.92		7.77	6.98	6.42
H1 lead leg	strides		16	16	16	16		16	17	17	17	17	148					
Tsukamoto, Moeno (JPN) (2002)	time	6.72	11.24	15.83	20.54	25.43		30.58	35.89	41.24	46.90	52.49		58.84	5 / 3			
reaction time	0.181 interval		4.52	4.59	4.71	4.89		5.15	5.31	5.35	5.66	5.59	6.35	PB		13.82	15.35	16.60
	velocity	6.70	7.74	7.63	7.43	7.16		6.80	6.59	6.54	6.18	6.26	6.30	6.80		7.60	6.84	6.33
H1 lead leg	strides		17	17	17	17		18	18	19	19	19	161					
Mitzuguchi, Moe (JPN) (2002)	time	6.62	10.94	15.45	20.05	24.74		29.78	35.02	40.32	45.98	52.14		59.16	7 / 4			
reaction time	0.192 interval		4.32	4.51	4.60	4.69		5.04	5.24	5.30	5.66	6.16	7.02			13.43	14.97	17.12
	velocity	6.80	8.10	7.76	7.61	7.46		6.94	6.68	6.60	6.18	5.68	5.70	6.76		7.82	7.01	6.13
H1 lead leg	strides		16	16	17	17		17	17	17	18	19	154					
Okawa, Sumika (JPN) (2003)	time	6.84	11.46	16.12	20.89	25.84		31.00	36.29	41.61	47.20	52.90		59.22	4 / 5			
reaction time	0.168 interval		4.62	4.66	4.77	4.95		5.16	5.29	5.32	5.59	5.70	6.32			14.05	15.40	16.61
	velocity	6.58	7.58	7.51	7.34	7.07		6.78	6.62	6.58	6.26	6.14	6.33	6.75		7.47	6.82	6.32
H1 lead leg	strides		17	17	17	17		17	17	17	19	19	157					
Kusaka, Ayana (JPN) (2003)	time	6.86	11.39	16.03	20.80	25.68		30.90	36.64	42.38	48.31	54.27		60.60	2 / 6			
reaction time	0.188 interval		4.53	4.64	4.77	4.88		5.22	5.74	5.74	5.93	5.96	6.33	PB		13.94	15.84	17.63
	velocity	6.56	7.73	7.54	7.34	7.17		6.70	6.10	6.10	5.90	5.87	6.32	6.60		7.53	6.63	5.96
H1 lead leg	strides		17	17	17	17		17	19	19	19	19	161					
Kudo, Mei (JPN) (2002)	time	6.92	11.58	16.45	21.40	26.51		31.77	37.24	42.93	48.87	54.79		60.75	6 / 7			
reaction time	0.210 interval		4.66	4.87	4.95	5.11		5.26	5.47	5.69	5.94	5.92	5.96			14.48	15.84	17.55
	velocity	6.50	7.51	7.19	7.07	6.85		6.65	6.40	6.15	5.89	5.91	6.71	6.58		7.25	6.63	5.98
H1 lead leg	strides		17	18	17	17		17	17	17	19	19	158					
Higuchi, Ayane (JPN) (2004)	time	6.92	11.58	16.27	21.15	26.31		31.58	37.32	43.06	48.73	54.37		60.84	1 / 8			
reaction time	0.158 interval		4.66	4.69	4.88	5.16		5.27	5.74	5.74	5.67	5.64	6.47	PB		14.23	16.17	17.05
	velocity	6.50	7.51	7.46	7.17	6.78		6.64	6.10	6.10	6.17	6.21	6.18	6.57		7.38	6.49	6.16
H1 lead leg	strides		16	16	17	17		17	19	19	19	19	159					

2020 Michitaka Kinami Memorial (Osaka, JPN)

FINAL

date 24-Oct-20

Sugimoto (2020) - race pattern analysis of japan's top male and female 400m hurdlers- 2020 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Sekimoto, Moeka (JPN) (2001)	time	6.64	11.03	15.48	19.99	24.62		29.60	34.73	39.92	45.38	51.08		58.09	3 / 1			
reaction time	interval		4.39	4.45	4.51	4.63		4.98	5.13	5.19	5.46	5.70	7.01			13.35	14.74	16.35
	velocity	6.78	7.97	7.87	7.76	7.56		7.03	6.82	6.74	6.41	6.14	5.71	6.89		7.87	7.12	6.42
H1 lead leg	strides		15	15	15	15		16	16	17	17	17	143					
Koyama, Kana (JPN) (1998)	time	6.81	11.16	15.63	20.25	25.09		30.30	35.59	40.89	46.48	52.17		58.65	4 / 2			
reaction time	interval		4.35	4.47	4.62	4.84		5.21	5.29	5.30	5.59	5.69	6.48			13.44	15.34	16.58

	velocity	6.61	8.05	7.83	7.58	7.23		6.72	6.62	6.60	6.26	6.15	6.17	6.82		7.81	6.84	6.33
H1 lead leg	strides		15	15	15	16		16	17	17	17	17		145				
Utsunomiya, Eri (JPN) (1993)	time	6.61	11.01	15.48	20.09	24.92		30.15	35.52	41.01	46.66	52.39		59.32	5 / 3			
reaction time	interval		4.40	4.47	4.61	4.83		5.23	5.37	5.49	5.65	5.73	6.93			13.48	15.43	16.87
	velocity	6.81	7.95	7.83	7.59	7.25		6.69	6.52	6.38	6.19	6.11	5.77	6.74		7.79	6.80	6.22
H1 lead leg	strides		15	15	15	15		16	16	17	17	17		143				

B FINAL

date 24-Oct-20

Sugimoto (2020) - race pattern analysis of japan's top male and female 400m hurdlers- 2020 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kawabata, Szuka (JPN) (1993)	time	6.64	10.99	15.58	20.30	25.26		30.53	35.82	41.11	46.93	52.97		59.45	7 / 1			
reaction time	interval		4.35	4.59	4.72	4.96		5.27	5.29	5.29	5.82	6.04	6.48			13.66	15.52	17.15
	velocity	6.78	8.05	7.63	7.42	7.06		6.64	6.62	6.62	6.01	5.79	6.17	6.73		7.69	6.77	6.12
H1 lead leg	strides		15	16	16	17		17	17	17	19	19		153				
Saito, Mayu (JPN) (1995)	time	6.62	11.03	15.57	20.39	25.41		30.81	36.47	41.86	47.61	53.45		59.97	4 / 2			
reaction time	interval		4.41	4.54	4.82	5.02		5.40	5.66	5.39	5.75	5.84	6.52			13.77	16.08	16.98
	velocity	6.80	7.94	7.71	7.26	6.97		6.48	6.18	6.49	6.09	5.99	6.13	6.67		7.63	6.53	6.18
H1 lead leg	strides		16	16	17	17		17	18	18	19	19		157				
Yokota, Karen (JPN) (1999)	time	6.79	11.36	16.05	20.94	25.96		31.20	36.49	41.89	47.65	53.69		60.50	3 / 6			
reaction time	interval		4.57	4.69	4.89	5.02		5.24	5.29	5.40	5.76	6.04	6.81			14.15	15.55	17.20
	velocity	6.63	7.66	7.46	7.16	6.97		6.68	6.62	6.48	6.08	5.79	5.87	6.61		7.42	6.75	6.10
H1 lead leg	strides		16	16	17	17		17	17	17	17	19		153				

C FINAL

date 24-Oct-20

Sugimoto (2020) - race pattern analysis of japan's top male and female 400m hurdlers- 2020 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tsuha, Aiki (JPN) (2000)	time	6.72	11.28	15.97	21.14	26.38		31.51	36.67	42.03	47.73	53.40		59.94	6 / 1			
reaction time	interval		4.56	4.69	5.17	5.24		5.13	5.16	5.36	5.70	5.67	6.54			14.42	15.53	16.73
	velocity	6.70	7.68	7.46	6.77	6.68		6.82	6.78	6.53	6.14	6.17	6.12	6.67		7.28	6.76	6.28
H1 lead leg	strides		17	17	17	17		17	17	17	19	19		157				
Kuki, Yurie (JPN) (1993)	time	6.82	11.33	15.90	20.87	26.29		31.65	36.99	42.38	48.03	53.80		60.75	3 / 2			
reaction time	interval		4.51	4.57	4.97	5.42		5.36	5.34	5.39	5.65	5.77	6.95			14.05	16.12	16.81
	velocity	6.60	7.76	7.66	7.04	6.46		6.53	6.55	6.49	6.19	6.07	5.76	6.58		7.47	6.51	6.25
H1 lead leg	strides		15	15	16	17		18	17	17	17	17		149				

2020 Japanese National Championships (Niigata, JPN)**FINAL**

date 03-Oct-20

Sugimoto (2020) - race pattern analysis of japan's top male and female 400m hurdlers- 2020 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ibrahim, Ayesyia (JPN) (1998)	time	6.59	10.79	15.12	19.60	24.24		29.11	34.05	39.24	44.66	50.13		56.50	6 / 1			
reaction time	0.220 interval		4.20	4.33	4.48	4.64		4.87	4.94	5.19	5.42	5.47	6.37	PB		13.01	14.45	16.08
	velocity	6.83	8.33	8.08	7.81	7.54		7.19	7.09	6.74	6.46	6.40	6.28	7.08		8.07	7.27	6.53
H1 lead leg	R strides		22	15	15	15		15	15	15	16	16	20	179				
Utsunomiya, Eri (JPN) (1993)	time	6.61	10.98	15.52	20.15	24.91		29.90	34.93	40.17	45.53	50.90		57.09	9 / 2			
reaction time	0.169 interval		4.37	4.54	4.63	4.76		4.99	5.03	5.24	5.36	5.37	6.19			13.54	14.78	15.97
	velocity	6.81	8.01	7.71	7.56	7.35		7.01	6.96	6.68	6.53	6.52	6.46	7.01		7.75	7.10	6.57
H1 lead leg	R strides		23	15	15	15		16	16	17	17	17	21	187				
Ito, Akiko (JPN) (1995)	time	6.52	10.86	15.37	20.00	24.77		29.75	34.72	40.02	45.46	50.92		57.34	7 / 3			
reaction time	0.147 interval		4.34	4.51	4.63	4.77		4.98	4.97	5.30	5.44	5.46	6.42			13.48	14.72	16.20
	velocity	6.90	8.06	7.76	7.56	7.34		7.03	7.04	6.60	6.43	6.41	6.23	6.98		7.79	7.13	6.48
H1 lead leg	L strides		23	15	15	16		16	16	17	17	17	21.2	189.2				
Yamamoto, Ami (JPN) (2002)	time	6.57	11.01	15.53	20.14	24.91		29.90	34.97	40.21	45.63	51.12		57.43	5 / 4			
reaction time	0.156 interval		4.44	4.52	4.61	4.77		4.99	5.07	5.24	5.42	5.49	6.31	PB		13.57	14.83	16.15
	velocity	6.85	7.88	7.74	7.59	7.34		7.01	6.90	6.68	6.46	6.38	6.34	6.97		7.74	7.08	6.50
H1 lead leg	L strides		24	16	16	16		17	17	17	18	18	22	197				
Koyama, Kana (JPN) (1998)	time	6.74	11.16	15.72	20.42	25.28		30.18	35.32	40.56	45.91	51.32		57.44	4 / 5			
reaction time	0.158 interval		4.42	4.56	4.70	4.86		4.90	5.14	5.24	5.35	5.41	6.12	PB		13.68	14.90	16.00
	velocity	6.68	7.92	7.68	7.45	7.20		7.14	6.81	6.68	6.54	6.47	6.54	6.96		7.68	7.05	6.56
H1 lead leg	L strides		22	15	15	16		16	17	17	17	17	21	188				
Sekimoto, Moeka (JPN) (2001)	time	6.76	11.24	15.83	20.55	25.41		30.45	35.49	40.69	45.95	51.38		57.89	3 / 6			
reaction time	0.200 interval		4.48	4.59	4.72	4.86		5.04	5.04	5.20	5.26	5.43	6.51			13.79	14.94	15.89
	velocity	6.66	7.81	7.63	7.42	7.20		6.94	6.94	6.73	6.65	6.45	6.14	6.91		7.61	7.03	6.61
H1 lead leg	R strides		22	15	15	15		16	16	17	17	17	21.2	186.2				
Tsugawa, Rui (JPN) (2001)	time	6.94	11.59	16.35	21.19	26.18		31.20	36.25	41.37	46.66	52.00		58.21	8 / 7			
reaction time	0.184 interval		4.65	4.76	4.84	4.99		5.02	5.05	5.12	5.29	5.34	6.21			14.25	15.06	15.75
	velocity	6.48	7.53	7.35	7.23	7.01		6.97	6.93	6.84	6.62	6.55	6.44	6.87		7.37	6.97	6.67
H1 lead leg	L strides		23	17	17	17		17	17	17	17	17	21.2	197.2				
Kawamura, Yuka (JPN) (2001)	time	6.96	11.51	16.18	20.99	25.84		30.85	36.00	41.29	46.68	52.17		58.38	2 / 8			
reaction time	0.212 interval		4.55	4.67	4.81	4.85		5.01	5.15	5.29	5.39	5.49	6.21	PB		14.03	15.01	16.17
	velocity	6.47	7.69	7.49	7.28	7.22		6.99	6.80	6.62	6.49	6.38	6.44	6.85		7.48	7.00	6.49

H1 lead leg	R	strides	23	16	16	16	16	17	17	17	17	17	21	193
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2020 All Japan Corporate Championships (Kumagaya, JPN)**FINAL**

date 20-Sep-20

Sugimoto (2020) - race pattern analysis of japan's top male and female 400m hurdlers- 2020 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-in	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Utsunomiya, Eri (JPN) (1993)	time	6.76	11.14	15.67	20.35	25.31		30.41	35.67	41.04	46.40	51.85		58.12	6 / 1			
	reaction time	0.260	interval	4.38	4.53	4.68	4.96	5.10	5.26	5.37	5.36	5.45	6.27			13.59	15.32	16.18
		velocity	6.66	7.99	7.73	7.48	7.06	6.86	6.65	6.52	6.53	6.42	6.38	6.88		7.73	6.85	6.49
	H1 lead leg		strides	15	15	15	16	16	17	17	17	17	17	145				
Ito, Akiko (JPN) (1995)	time	6.74	11.13	15.75	20.59	25.53		30.61	35.74	41.17	46.65	52.29		59.04	5 / 2			
	reaction time	0.205	interval	4.39	4.62	4.84	4.94	5.08	5.13	5.43	5.48	5.64	6.75			13.85	15.15	16.55
		velocity	6.68	7.97	7.58	7.23	7.09	6.89	6.82	6.45	6.39	6.21	5.93	6.78		7.58	6.93	6.34
	H1 lead leg		strides	15	15	16	16	16	16	17	17	17	17	145				
Aoki, Sayaka (JPN) (1986)	time	6.97	11.70	16.52	21.49	26.53		31.68	36.92	42.29	47.75	53.40		59.81	3 / 3			
	reaction time	0.252	interval	4.73	4.82	4.97	5.04	5.15	5.24	5.37	5.46	5.65	6.41			14.52	15.43	16.48
		velocity	6.46	7.40	7.26	7.04	6.94	6.80	6.68	6.52	6.41	6.19	6.24	6.69		7.23	6.80	6.37
	H1 lead leg		strides	16	16	17	17	17	17	17	17	17	17	151				
Kuki, Yurie (JPN) (1993)	time	6.97	11.54	16.30	21.17	26.29		31.43	36.79	42.28	47.80	53.40		59.94	7 / 4			
	reaction time	0.192	interval	4.57	4.76	4.87	5.12	5.14	5.36	5.49	5.52	5.60	6.54			14.20	15.62	16.61
		velocity	6.46	7.66	7.35	7.19	6.84	6.81	6.53	6.38	6.34	6.25	6.12	6.67		7.39	6.72	6.32
	H1 lead leg		strides	15	15	15	16	16	17	17	17	17	17	145				
Kawabata, Szuka (JPN) (1993)	time	6.76	11.18	15.90	20.72	25.73		30.88	36.19	41.84	47.58	53.50		59.98	2 / 5			
	reaction time	0.198	interval	4.42	4.72	4.82	5.01	5.15	5.31	5.65	5.74	5.92	6.48			13.96	15.47	17.31
		velocity	6.66	7.92	7.42	7.26	6.99	6.80	6.59	6.19	6.10	5.91	6.17	6.67		7.52	6.79	6.07
	H1 lead leg		strides	15	16	16	17	17	17	18	18	19	153					
Minamisawa, Akane (JPN) (1993)	time	7.16	12.00	16.87	21.82	26.83		32.03	37.52	43.03	48.58	54.29		60.69	4 / 6			
	reaction time	0.243	interval	4.84	4.87	4.95	5.01	5.20	5.49	5.51	5.55	5.71	6.40			14.66	15.70	16.77
		velocity	6.28	7.23	7.19	7.07	6.99	6.73	6.38	6.35	6.31	6.13	6.25	6.59		7.16	6.69	6.26
	H1 lead leg		strides	16	16	16	16	16	17	17	17	18	149					
Saito, Mayu (JPN) (1995)	time	6.59	10.94	15.45	20.22	25.26		30.53	36.14	42.04	48.30	54.70		62.14	8 / 7			
	reaction time	0.217	interval	4.35	4.51	4.77	5.04	5.27	5.61	5.90	6.26	6.40	7.44			13.63	15.92	18.56
		velocity	6.83	8.05	7.76	7.34	6.94	6.64	6.24	5.93	5.59	5.47	5.38	6.44		7.70	6.60	5.66
	H1 lead leg		strides	16	16	17	17	17	18	18	19	19	157					

2020 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)**FINAL**

date 17-Sep-20

Henson (2020) - Athlete First: 2020 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-in	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bol, Femke (NED) (2000)	time	6.40	10.52	14.68	19.00	23.48	25.4	28.08	32.80	37.72	42.84	48.04		53.90	5 / 1			
	reaction time	0.178	interval	4.12	4.16	4.32	4.48	4.60	4.72	4.92	5.12	5.20	5.86			12.60	13.80	15.24
		velocity	7.03	8.50	8.41	8.10	7.81	7.87	7.61	7.42	7.11	6.84	6.73	6.83	7.42	8.33	7.61	6.89
	H1 lead leg	L	strides	21	15	15	15	15	15	15	16	16	18.5	176.5				
Ryzhykova, Anna (UKR) (1993)	time	6.44	10.56	14.76	19.12	23.68	25.7	28.44	33.32	38.32	43.36	48.52		54.54	6 / 2			
	reaction time	0.157	interval	4.12	4.20	4.36	4.56	4.76	4.88	5.00	5.04	5.16	6.02			12.68	14.20	15.20
		velocity	6.99	8.50	8.33	8.03	7.68	7.78	7.35	7.17	7.00	6.94	6.78	6.64	7.33	8.28	7.39	6.91
	H1 lead leg	R	strides	22	14	14	14	15	15	15	15	15	19.7	172.7				
Tkachuk, Viktoriya (UKR) (1993)	time	6.52	10.76	15.16	19.60	24.16	26.2	28.76	33.64	38.68	43.80	49.04		54.93	9 / 3			
	reaction time	0.270	interval	4.24	4.40	4.44	4.56	4.60	4.88	5.04	5.12	5.24	5.89	PB		13.08	14.04	15.40
		velocity	6.90	8.25	7.95	7.88	7.68	7.63	7.61	7.17	6.94	6.84	6.68	6.79	7.28	8.03	7.48	6.82
	H1 lead leg	L	strides	22	15	15	15	15	16	16	16	16	19.7	180.7				
Petersen, Sara Slott (DEN) (1993)	time	6.36	10.52	14.72	19.08		25.6	28.24	33.12	38.24	43.56	48.96		55.20	3 / 4			
	reaction time	0.114	interval	4.16	4.20	4.36		9.16	4.88	5.12	5.32	5.40	6.24			12.72	14.04	15.84
		velocity	7.08	8.41	8.33	8.03	7.81	7.64	7.17	6.84	6.58	6.48	6.41	7.25		8.25	7.48	6.63
	H1 lead leg	R	strides	22	15	15	15		16	16	17	17	21	169				
luel, Amalie (NOR) (1994)	time	6.40	10.64	14.96	19.36	23.88	25.9	28.52	33.28	38.44	43.72	49.16		55.27	8 / 5			
	reaction time	0.143	interval	4.24	4.32	4.40	4.52	4.64	4.76	5.16	5.28	5.44	6.11			12.96	13.92	15.88
		velocity	7.03	8.25	8.10	7.95	7.74	7.72	7.54	7.35	6.78	6.63	6.43	6.55	7.24	8.10	7.54	6.61
	H1 lead leg	L	strides	23	15	15	15	15	15	16	16	16	19	180				
Knight, Jessie (GBR) (1994)	time	6.40	10.72	15.16	19.60		26.2	28.88	33.84	38.92	44.16	49.48		55.58	2 / 6			
	reaction time	0.164	interval	4.32	4.44	4.44		9.28	4.96	5.08	5.24	5.32	6.10			13.20	14.24	15.64
		velocity	7.03	8.10	7.88	7.88	7.63	7.54	7.06	6.89	6.68	6.58	6.56	7.20		7.95	7.37	6.71
	H1 lead leg	R	strides	23	15	15	15	15	15	16	16	16	19.2	149.2				
Zapletalová, Emma (SVK) (2000)	time	6.48	10.72	15.00	19.40	23.96	26.0	28.60	33.52	38.68	44.16	49.72		56.02	7 / 7			
	reaction time	0.135	interval	4.24	4.28	4.40	4.56	4.64	4.92	5.16	5.48	5.56	6.30			12.92	14.12	16.20
		velocity	6.94	8.25	8.18	7.95	7.68	7.69	7.54	7.11	6.78	6.39	6.29	6.35	7.14	8.13	7.44	6.48
	H1 lead leg	R	strides	23	15	15	15	15	16	16	17	17	19.7	183.7				

Folorunso, Ayomide (ITA) († time	6.60	10.96	15.36	19.84		26.5	29.08	33.84	38.72	43.92	50.08			56.58	4 / 8				
reaction time	0.187	interval	4.36	4.40	4.48		9.24	4.76	4.88	5.20	6.16	6.50				13.24	14.00	16.24	
		velocity	6.82	8.03	7.95	7.81		7.55	7.58	7.35	7.17	6.73	5.68	6.15	7.07		7.93	7.50	6.47
H1 lead leg	L	strides	23	16	16	16			15	15	15	19	21	156					

2020 Chinese National Championships (Shaoxing, CHN)

FINAL

date 17-Sep-20

CAA Hurdle Development (2020)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mo Jiadie (CHN) (2000)	time	6.46	10.79	15.17	19.67	24.25		29.04	34.08	39.37	44.92	50.37		56.77	4 / 1			
reaction time	interval		4.33	4.38	4.50	4.58		4.79	5.04	5.29	5.55	5.45	6.40			13.21	14.41	16.29
	velocity	6.97	8.08	7.99	7.78	7.64		7.31	6.94	6.62	6.31	6.42	6.25	7.05		7.95	7.29	6.45
H1 lead leg	L	strides	24	16	16	16		17	17	18	18	18	21.5	197.5				
Lu Zhangwei (CHN) (2001)	time	6.54	11.00	15.42	20.12	24.83		29.75	34.83	40.04	45.58	51.29		57.89	3 / 2			
reaction time	interval		4.46	4.42	4.70	4.71		4.92	5.08	5.21	5.54	5.71	6.60			13.58	14.71	16.46
	velocity	6.88	7.85	7.92	7.45	7.43		7.11	6.89	6.72	6.32	6.13	6.06	6.91		7.73	7.14	6.38
H1 lead leg	R	strides	24	16	16	16		17	17	17	18	18	22	197				
Huang Yan (CHN) (1996)	time	6.62	11.00	15.42	20.12	24.92		29.87	35.08	40.46	46.08	51.92		58.68	6 / 3			
reaction time	interval		4.38	4.42	4.70	4.80		4.95	5.21	5.38	5.62	5.84	6.76			13.50	14.96	16.84
	velocity	6.80	7.99	7.92	7.45	7.29		7.07	6.72	6.51	6.23	5.99	5.92	6.82		7.78	7.02	6.24
H1 lead leg	R	strides	24	16	17			17	18	18	19	19	23	171				
Ou Ying (CHN) (2001)	time	6.87	11.46	16.04	20.71	25.46		30.54	35.79	41.17	46.71	52.38		58.80	5 / 4			
reaction time	interval		4.59	4.58	4.67	4.75		5.08	5.25	5.38	5.54	5.67	6.42	PB		13.84	15.08	16.59
	velocity	6.55	7.63	7.64	7.49	7.37		6.89	6.67	6.51	6.32	6.17	6.23	6.80		7.59	6.96	6.33
H1 lead leg	L	strides	24	17	17	17		17	17	17	18	19	21	201				
Wang Hongyan (CHN) (1998)	time		11.42	16.08	20.83	25.71		30.79	36.04	41.54	47.42	53.29		60.17	8 / 5			
reaction time	interval			4.66	4.75	4.88		5.08	5.25	5.50	5.88	5.87	6.88				15.21	17.25
	velocity		7.01	7.51	7.37	7.17		6.89	6.67	6.36	5.95	5.96	5.81	6.65			6.90	6.09
H1 lead leg		strides		17				17	18	18		19	23	112				
Chen Liying (CHN) (1994)	time	6.75	11.25	16.00	20.83			30.96	36.33	42.21	48.12	54.25		61.14	2 / 6			
reaction time	interval		4.50	4.75	4.83			30.96	5.37	5.88	5.91	6.13	6.89			14.08	15.50	17.92
	velocity	6.67	7.78	7.37	7.25			1.13	6.52	5.95	5.92	5.71	5.81	6.54		7.46	6.77	5.86
H1 lead leg	R	strides	14		16				18	19	18	19	22	126				
Lan Tianlu (CHN) (1999)	time		10.92	15.33	19.87	24.54		29.54	34.83	40.50	46.75	53.54		61.76	7 / 7			
reaction time	interval			4.41	4.54	4.67		5.00	5.29	5.67	6.25	6.79	8.22				14.96	18.71
	velocity		7.33	7.94	7.71	7.49		7.00	6.62	6.17	5.60	5.15	4.87	6.48			7.02	5.61
H1 lead leg		strides		16				17	17	18	19	20	24	131				
Hu Lihong (CHN) (1999)	time	6.92		16.46					37.54	43.25	49.25	55.67		63.09	1 / 8			
reaction time	interval			9.54					21.08	5.71	6.00	6.42	7.42					18.13
	velocity	6.50		7.34					6.64	6.13	5.83	5.45	5.39	6.34				5.79
H1 lead leg	L	strides	24							17	17	18	21	97				

2020 Galà dei Castelli (Bellinzona, SUI) (TV Analysis)

FINAL

date 15-Sep-20

Henson (2020) - Athlete First: 2020 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Boi, Femke (NED) (2000)	time	6.60	10.76	15.00	19.32	23.72		28.32	33.08	38.04	43.28	48.56		54.33	3 / 1			
reaction time	interval		4.16	4.24	4.32	4.40		4.60	4.76	4.96	5.24	5.28	5.77			12.72	13.76	15.48
	velocity	6.82	8.41	8.25	8.10	7.95		7.61	7.35	7.06	6.68	6.63	6.93	7.36		8.25	7.63	6.78
H1 lead leg	L	strides	22	15	15	15		15	15	15	16	16	19	178				
Sprunger, Leá (SUI) (1990)	time	6.48	10.80	15.16	19.56	24.08		28.80	33.60	38.68	43.72	49.00		54.98	5 / 2			
reaction time	interval		4.32	4.36	4.40	4.52		4.72	4.80	5.08	5.04	5.28	5.98			13.08	14.04	15.40
	velocity	6.94	8.10	8.03	7.95	7.74		7.42	7.29	6.89	6.94	6.63	6.69	7.28		8.03	7.48	6.82
H1 lead leg	R	strides	21	14	14	14		15	15	15	15	15	18.5	170.5				
Tkachuk, Viktoriya (UKR) (1998)	time	6.44	10.76	15.32	19.80	24.32		29.08	33.88	38.96	44.08	49.28		55.15	4 / 3			
reaction time	interval		4.32	4.56	4.48	4.52		4.76	4.80	5.08	5.12	5.20	5.87			13.36	14.08	15.40
	velocity	6.99	8.10	7.68	7.81	7.74		7.35	7.29	6.89	6.84	6.73	6.81	7.25		7.86	7.46	6.82
H1 lead leg	L	strides	22	15	15	15		15	15	16	16	16	19.5	179.5				
Giger, Yasmin (SUI) (1999)	time	6.60	10.92	15.36				29.68	34.72		45.20	50.52		56.42	2 / 4			
reaction time	interval		4.32	4.44				14.32	5.04		10.48	5.32	5.90					15.80
	velocity	6.82	8.10	7.88				7.33	6.94		6.68	6.58	6.78	7.09				6.65
H1 lead leg	R	strides	23	15	15				16			17	20.2	106.2				
Kloster, Line (NOR) (1990)	time	6.36	10.60	15.04	19.52	24.20		29.00	34.04		44.80	50.32		56.71	6 / 5			
reaction time	interval		4.24	4.44	4.48	4.68		4.80	5.04		10.76	5.52	6.39			13.16	14.52	16.28
	velocity	7.08	8.25	7.88	7.81	7.48		7.29	6.94		6.51	6.34	6.26	7.05		7.98	7.23	6.45
H1 lead leg	R	strides	22	15	15	15		16	16			17	20	151				
Cavalleri, Valentina (ITA) (1998)	time	6.76	11.20	15.88				30.42	35.32		46.08	51.60		57.80	1 / 6			
reaction time	interval		4.44	4.68				14.54	4.90		10.76	5.52	6.20					16.28

	velocity	6.66	7.88	7.48		7.22	7.14	6.51	6.34	6.45	6.92		6.45
H1 lead leg	L strides	23	16	16			16		17	20.5	108.5		

2020 Bauhaus Galan (Stockholm, SWE) (TV Analysis)**FINAL**

date 23-Aug-20

Henson (2020) - Athlete First: 2020 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bo, Femke (NED) (2000)	time	6.57		15.20	19.57	24.10	26.0	28.77	33.57	38.53	43.77	48.90		54.68	4 / 1			
	reaction time	0.226	interval	8.63	4.37	4.53		4.67	4.80	4.96	5.24	5.13	5.78			13.00	14.00	15.33
	velocity	6.85		8.11	8.01	7.73	7.69	7.49	7.29	7.06	6.68	6.82	6.92	7.32		8.08	7.50	6.85
H1 lead leg	L strides	21	15		15	15		15	15	15	16	16	18.5	161.5				
Ryzhykova, Anna (UKR) (1991)	time	6.50	10.67	15.00	19.37	24.00	26.0	28.87	33.77	38.63	43.80	49.10		55.19	2 / 2			
	reaction time	0.156	interval	4.17	4.33	4.37	4.63	4.87	4.90	4.86	5.17	5.30	6.09			12.87	14.40	15.33
	velocity	6.92	8.39	8.08	8.01	7.56	7.69	7.19	7.14	7.20	6.77	6.60	6.57	7.25		8.16	7.29	6.85
H1 lead leg	R strides	21	14		14	15		15	15	16	15	16	19.5	160.5				
luel, Amalie (NOR) (1994)	time	6.47	10.67	15.03	19.53	24.17	26.2	28.97	33.93	39.07	44.33	49.63		55.92	8 / 3			
	reaction time	0.162	interval	4.20	4.36	4.50	4.64	4.80	4.96	5.14	5.26	5.30	6.29			13.06	14.40	15.70
	velocity	6.96	8.33	8.03	7.78	7.54	7.63	7.29	7.06	6.81	6.65	6.60	6.36	7.15		8.04	7.29	6.69
H1 lead leg	L strides	22	15		15	15		15	15	16	16	16	19	164				
Petersen, Sara Slott (DEN) (1991)	time	6.50		15.17	19.57	24.07	26.1	28.87	33.80	38.87	44.27	49.83		56.30	5 / 4			
	reaction time	0.209	interval	8.67	4.40	4.50		4.80	4.93	5.07	5.40	5.56	6.47			13.07	14.23	16.03
	velocity	6.92		8.07	7.95	7.78	7.66	7.29	7.10	6.90	6.48	6.29	6.18	7.10		8.03	7.38	6.55
H1 lead leg	R strides	21	15		15	15		16	16	17	18	18	21.5	172.5				
Watson, Sage (CAN) (1994)	time	6.40	10.67	15.00	19.40	23.97	26.0	28.87	33.93	39.03	44.47	50.07		56.31	3 / 5			
	reaction time	0.208	interval	4.27	4.33	4.40	4.57	4.90	5.06	5.10	5.44	5.60	6.24			13.00	14.53	16.14
	velocity	7.03	8.20	8.08	7.95	7.66	7.69	7.14	6.92	6.86	6.43	6.25	6.41	7.10		8.08	7.23	6.51
H1 lead leg	R strides	21	15		15	15		16	16	16	17	17	20	168				
Sprunger, Leá (SUI) (1990)	time	6.50	10.87	15.27	19.77	24.43	26.3	29.20	34.20	39.27	44.73	50.23		56.40	6 / 6			
	reaction time	0.151	interval	4.37	4.40	4.50	4.66	4.77	5.00	5.07	5.46	5.50	6.17			13.27	14.43	16.03
	velocity	6.92	8.01	7.95	7.78	7.51	7.60	7.34	7.00	6.90	6.41	6.36	6.48	7.09		7.91	7.28	6.55
H1 lead leg	R strides	20	14	14	14	14		15	15	15	16	16	19	172				
Hejnová, Zuzana (CZE) (1988)	time	6.70	11.03	15.40	19.87	24.50	26.5	29.37	34.33	39.33	44.73	50.23		56.75	7 / 7			
	reaction time	0.151	interval	4.33	4.37	4.47	4.63	4.87	4.96	5.00	5.40	5.50	6.52			13.17	14.46	15.90
	velocity	6.72	8.08	8.01	7.83	7.56	7.55	7.19	7.06	7.00	6.48	6.36	6.13	7.05		7.97	7.26	6.60
H1 lead leg	R strides	21	15	15	15	15		16	16	16	17	17	20.5	183.5				
Palmqvist, Hanna (SWE) (1991)	time	6.23	10.47	14.80	19.37	24.23	26.4	29.30		39.77	45.47	51.47		58.56	1 / 8			
	reaction time	0.168	interval	4.24	4.33	4.57	4.86	5.07		10.47	5.70	6.00	7.09			13.14		
	velocity	7.22	8.25	8.08	7.66	7.20	7.58	6.90		6.69	6.14	5.83	5.64	6.83		7.99		
H1 lead leg	L strides	21	15		15	16		16			18	18	22.2	141.2				

2020 Seiko Golden Grand Prix (Tokyo, JPN)**FINAL**

date 23-Aug-20

Sugimoto (2020) - race pattern analysis of japan's top male and female 400m hurdlers- 2020 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Sekimoto, Moeka (JPN) (2001)	time	6.62	11.01	15.50	20.14	24.89		29.68	34.65	39.81	45.20	50.80		57.51	7 / 1			
	reaction time	0.174	interval	4.39	4.49	4.64	4.75	4.79	4.97	5.16	5.39	5.60	6.71			13.52	14.51	16.15
	velocity	6.80	7.97	7.80	7.54	7.37		7.31	7.04	6.78	6.49	6.25	5.96	6.96		7.77	7.24	6.50
H1 lead leg	strides		15	15	15	15		15	16	16	17	17	141					
Ibrahim, Ayesya (JPN) (1998)	time	6.66	10.94	15.30	19.87	24.67		29.65	34.75	40.14	45.68	51.47		58.11	4 / 2			
	reaction time	0.192	interval	4.28	4.36	4.57	4.80	4.98	5.10	5.39	5.54	5.79	6.64			13.21	14.88	16.72
	velocity	6.76	8.18	8.03	7.66	7.29		7.03	6.86	6.49	6.32	6.04	6.02	6.88		7.95	7.06	6.28
H1 lead leg	strides		15	15	15	15		15	15	16	16	17	139					
Koyama, Kana (JPN) (1998)	time	6.74	11.24	15.85	20.60	25.49		30.60	35.75	41.07	46.48	52.00		58.14	8 / 3			
	reaction time	0.146	interval	4.50	4.61	4.75	4.89	5.11	5.15	5.32	5.41	5.52	6.14			13.86	15.15	16.25
	velocity	6.68	7.78	7.59	7.37	7.16		6.85	6.80	6.58	6.47	6.34	6.51	6.88		7.58	6.93	6.46
H1 lead leg	strides		15	15	15	15		16	16	17	17	17	143					
Ito, Akiko (JPN) (1995)	time	6.57	10.88	15.42	20.12	25.03		30.01	35.00	40.34	45.95	51.74		58.56	5 / 4			
	reaction time	0.136	interval	4.31	4.54	4.70	4.91	4.98	4.99	5.34	5.61	5.79	6.82			13.55	14.88	16.74
	velocity	6.85	8.12	7.71	7.45	7.13		7.03	7.01	6.55	6.24	6.04	5.87	6.83		7.75	7.06	6.27
H1 lead leg	strides		15	15	16	16		16	16	17	17	17	145					
Utsunomiya, Eri (JPN) (1993)	time	6.62	11.03	15.60	20.30	25.29		30.31	35.45	40.97	47.01	53.12		59.86	6 / 5			
	reaction time	0.190	interval	4.41	4.57	4.70	4.99	5.02	5.14	5.52	6.04	6.11	6.74			13.68	15.15	17.67
	velocity	6.80	7.94	7.66	7.45	7.01		6.97	6.81	6.34	5.79	5.73	5.93	6.68		7.68	6.93	5.94
H1 lead leg	strides		15	15	15	16		16	16	17	20	19	149					
Shibata, Haruka (JPN) (1991)	time	6.91	11.54	16.30	21.37	26.59		31.82	37.04	42.43	47.96	53.72		60.15	9 / 6			
	reaction time	0.161	interval	4.63	4.76	5.07	5.22	5.23	5.22	5.39	5.53	5.76	6.43			14.46	15.67	16.68
	velocity	6.51	7.56	7.35	6.90	6.70		6.69	6.70	6.49	6.33	6.08	6.22	6.65		7.26	6.70	6.29
H1 lead leg	strides		16	16	17	17		17	17	17	17	19	153					

Mizuguchi, Moe (JPN) (2002)	time	6.86	11.53	16.37	21.10	25.99	31.15	36.45	42.09	47.98	53.90	60.50	2 / 7				
	reaction time	0.156	interval	4.67	4.84	4.73	4.89	5.16	5.30	5.64	5.89	5.92	6.60		14.24	15.35	17.45
	velocity	6.56	7.49	7.23	7.40	7.16	6.78	6.60	6.21	5.94	5.91	6.06	6.61		7.37	6.84	6.02
	H1 lead leg	strides	16	17	16	17	17	17	18	18	18	154					
Beppu, Riho (JPN) (2003)	time	6.86	11.51	16.33	21.27	26.31	31.50	37.02	42.59	48.40	54.47	61.24	1 / 8				
	reaction time	0.132	interval	4.65	4.82	4.94	5.04	5.19	5.52	5.57	5.81	6.07	PB		14.41	15.75	17.45
	velocity	6.56	7.53	7.26	7.09	6.94	6.74	6.34	6.28	6.02	5.77	5.91	6.53		7.29	6.67	6.02
	H1 lead leg	strides	16	16	17	17	17	18	18	19	19	157					
Oshiden, Moe (JPN) (1993)	time	6.92	11.68	16.60	21.52	26.61	31.87	37.30	42.89	48.92	55.59	63.18	3 / 9				
	reaction time	0.164	interval	4.76	4.92	4.92	5.09	5.26	5.43	5.59	6.03	6.67	7.59		14.60	15.78	18.29
	velocity	6.50	7.35	7.11	7.11	6.88	6.65	6.45	6.26	5.80	5.25	5.27	6.33		7.19	6.65	5.74
	H1 lead leg	strides	16	16	16	16	17	17	17	18	20	153					

2020 István Gyulai Memorial (Székesfehérvár, HUN) (TV Analysis)

FINAL

date 19-Aug-20

Henson (2020) - Athlete First: 2020 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bo, Femke (NED) (2000)	time	6.52	10.72	15.08	19.56	24.12	28.80	33.64	38.60	43.76	48.92	54.67	4 / 1					
	reaction time	0.205	interval	4.20	4.36	4.48	4.56	4.68	4.84	4.96	5.16	5.75				13.04	14.08	15.28
	velocity	6.90	8.33	8.03	7.81	7.68	7.48	7.23	7.06	6.78	6.78	6.96	7.32			8.05	7.46	6.87
	H1 lead leg	L	strides	22	15	15	15	15	15	15	16	16	19	178				
Ryzhykova, Anna (UKR) (1991)	time	6.44	10.56	14.88	19.32	24.00	28.92	33.92	39.08	44.40	49.88	55.86	3 / 2					
	reaction time	0.162	interval	4.12	4.32	4.44	4.68	4.92	5.00	5.16	5.32	5.48	5.98			12.88	14.60	15.96
	velocity	6.99	8.50	8.10	7.88	7.48	7.11	7.00	6.78	6.58	6.39	6.69	7.16			8.15	7.19	6.58
	H1 lead leg	R	strides	22	14	14	14	15	15	15	16	16	19.5	175.5				
Watson, Sage (CAN) (1994)	time	6.40	10.60	14.92	19.36	23.92	28.72	33.76	39.00	44.52	50.04	56.29	5 / 3					
	reaction time	0.199	interval	4.20	4.32	4.44	4.56	4.80	5.04	5.24	5.52	6.25				12.96	14.40	16.28
	velocity	7.03	8.33	8.10	7.88	7.68	7.29	6.94	6.68	6.34	6.34	6.40	7.11			8.10	7.29	6.45
	H1 lead leg	R	strides	22	15	15	15	16	16	16	17	17	20	184				
Sprunger, Leá (SUI) (1990)	time	6.56	10.96	15.44	19.96	24.64	29.52	34.60	39.84	45.24	50.72	56.65	6 / 4					
	reaction time	0.207	interval	4.40	4.48	4.52	4.68	4.88	5.08	5.24	5.40	5.48	5.93			13.40	14.64	16.12
	velocity	6.86	7.95	7.81	7.74	7.48	7.17	6.89	6.68	6.48	6.39	6.75	7.06			7.84	7.17	6.51
	H1 lead leg	R	strides	21	14	14	14	15	15	15	16	16	154					
Zapletalová, Emma (SVK) (2000)	time	6.60	11.00	15.40	19.76	24.32	29.04	33.92	39.36	44.96	50.44	56.68	1 / 5					
	reaction time	0.129	interval	4.36	4.48	4.56	4.72	4.88	5.44	5.60	5.48	6.24	NR NUR			13.16	14.16	16.52
	velocity	6.82	7.98	7.68	7.48	7.16	7.42	7.17	6.43	6.25	6.39	6.41	7.06			7.98	7.42	6.36
	H1 lead leg	R	strides	23	15	15	15	15	15	16	17	16	20	137				
Molnár, Janka (HUN) (2001)	time	6.80	11.20	15.60	20.24	24.92	29.76	34.76	39.96	45.28	50.76	57.10	2 / 6					
	reaction time	0.218	interval	4.36	4.48	4.68	4.84	5.00	5.20	5.32	5.48	6.34				13.44	14.52	16.00
	velocity	6.62	7.81	7.48	7.16	6.84	7.23	7.00	6.73	6.58	6.39	6.31	7.01			7.81	7.23	6.56
	H1 lead leg	R	strides	24	16	16	16	16	17	17	17	17	124					
Linkiewicz, Joanna (POL) (1991)	time	6.64	11.08	15.64	20.28	25.08	30.08	35.24	40.32	45.56	50.84	57.11	8 / 7					
	reaction time	0.175	interval	4.44	4.56	4.64	4.80	5.00	5.16	5.08	5.24	6.00				13.64	14.96	
	velocity	6.78	7.88	7.68	7.54	7.29	7.00	6.78	6.89	6.68	6.48	6.48	7.00			7.70	7.02	
	H1 lead leg	L	strides	24	16	16	16	17	17	17	17	156						
Mátó, Sára (HUN) (2000)	time	6.64	11.04	15.60	20.20	24.96	29.88	35.04	40.12	45.48	50.84	57.61	7 / 8					
	reaction time	0.195	interval	4.40	4.56	4.60	4.76	4.92	5.16	5.08	5.36	6.00				13.56	14.84	
	velocity	6.78	7.95	7.68	7.61	7.35	7.11	6.78	6.89	6.53	6.34	6.34	6.94			7.74	7.08	
	H1 lead leg	L	strides	22	15	15	16	16	16	16	17	148						

2020 Shimane High School Championships (Izumo, JPN)

FINAL

date 12-Jul-20

Shimizu (2020) - shimane high school championships 2020 - biomechanics data analysis

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Matsumoto, Haruka (JPN)	time	7.38	12.72	18.30	24.00	29.92	35.85	41.92	48.47	55.13	61.62	68.37	8 / 1					
	reaction time	interval	5.34	5.58	5.70	5.92	5.93	6.07	6.55	6.66	6.49	6.75				16.62	17.92	19.70
	velocity	6.10	6.55	6.27	6.14	5.91	5.90	5.77	5.34	5.26	5.39	5.93	5.85			6.32	5.86	5.33
	H1 lead leg	strides	26	19	19	19	19	19	19	21	21	21	23	226				
Nishikiori, Reina (JPN)	time	7.53	12.80	18.33	24.02	29.95	35.82	41.88	48.50	55.52	62.45	69.77	9 / 2					
	reaction time	interval	5.27	5.53	5.69	5.93	5.87	6.06	6.62	7.02	6.93	7.32				16.49	17.86	20.57
	velocity	5.98	6.64	6.33	6.15	5.90	5.96	5.78	5.29	4.99	5.05	5.46	5.73			6.37	5.88	5.10
	H1 lead leg	strides	26	19	19	19	19	19	19	21	21	21	24	227				
Kanda, Saki (JPN)	time	8.15	13.90	19.62	25.45	31.42	37.40	43.48	49.83	56.47	63.02	69.90	7 / 3					
	reaction time	interval	5.75	5.72	5.83	5.97	5.98	6.08	6.35	6.64	6.55	6.88				17.30	18.03	19.54
	velocity	5.52	6.09	6.12	6.00	5.86	5.85	5.76	5.51	5.27	5.34	5.81	5.72			6.07	5.82	5.37
	H1 lead leg	strides	28	20	20	21	21	20	21	22	22	26.5	241.5					
Ueki, Kyoka (JPN)	time	7.38	12.58	17.93	23.50	29.37	35.42	41.77	48.43	55.13	61.82	69.97	5 / 4					

reaction time	interval	5.20	5.35	5.57	5.87	6.05	6.35	6.66	6.70	6.69	8.15	16.12	18.27	20.05		
H1 lead leg	velocity	6.10	6.73	6.54	6.28	5.96	5.79	5.51	5.26	5.22	5.23	4.91	5.72	6.51	5.75	5.24
	strides	26	19	19	19	19	19	21	21	21	21	25.5	230.5			

2020 Inspiration Games (Zürich, SUI) (TV Analysis) (300m Hurdles)

FINAL

date 09-Jul-20

Henson (2020) - Athlete First: 2020 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Moline, Georganne (USA) (1 time)	time	6.20	10.10	14.20	18.46	22.86	27.50	32.46						39.08	3 / 1			
reaction time	interval		3.90	4.10	4.26	4.40	4.64	4.96					6.62	(Walnut, CA)		12.76	14.00	
	velocity	8.06	8.97	8.54	8.22	7.95	7.54	7.06					6.04	7.68		8.23	7.50	
H1 lead leg	R strides	22	15	15	15	15	16	16					22.5	136.5				
Sprunger, Leá (SUI) (1990)	time	6.36	10.56	14.80	19.23	23.80	28.53	33.33						39.25	5 / 2			
reaction time	interval		4.20	4.24	4.43	4.57	4.73	4.80					5.92	(Zürich, SUI)		13.24	14.10	
	velocity	7.86	8.33	8.25	7.90	7.66	7.40	7.29					6.76	7.64		7.93	7.45	
H1 lead leg	R strides	21	14	14	14	14	15	15					20	127				
Hejnová, Zuzana (CZE) (1986)	time	7.33	11.63	16.03	20.53	25.30	30.20	35.13						40.97	3 / 3			
reaction time	interval		4.30	4.40	4.50	4.77	4.90	4.93					5.84	(Papendal, NED)		13.67	14.60	
	velocity	6.82	8.14	7.95	7.78	7.34	7.14	7.10					6.85	7.32		7.68	7.19	
H1 lead leg	R strides	25	15	15	15	16	16	16					20	138				

2020 Impossible Games (Oslo, NOR) (TV Analysis) (300m Hurdles)

FINAL

date 11-Jun-20

Henson (2020) - Athlete First: 2020 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Petersen, Sara Slott (DEN) (1 time)	time	7.04	11.14	15.38	19.72	24.22	28.96	34.00						39.42	4 / 1			
reaction time	0.125 interval		4.10	4.24	4.34	4.50	4.74	5.04					5.42			13.08	14.28	
	velocity	7.10	8.54	8.25	8.06	7.78	7.38	6.94					7.38	7.61		8.03	7.35	
H1 lead leg	R strides	25	15	15	15	15	15	17					20	137				
luel, Amalie (NOR) (1994)	time	7.00	11.08	15.45	19.89	24.42	29.09	33.90						39.44	8 / 2			
reaction time	0.137 interval		4.08	4.37	4.44	4.53	4.67	4.81					5.54			13.34	14.01	
	velocity	7.14	8.58	8.01	7.88	7.73	7.49	7.28					7.22	7.61		7.87	7.49	
H1 lead leg	L strides	25	15	15	15	15	15	15					18.7	133.7				
Sprunger, Leá (SUI) (1990)	time	6.94	11.04	15.28	19.85	24.49	29.30	34.27						39.86	6 / 3			
reaction time	0.151 interval		4.10	4.24	4.57	4.64	4.81	4.97					5.59			13.45	14.42	
	velocity	7.20	8.54	8.25	7.66	7.54	7.28	7.04					7.16	7.53		7.81	7.28	
H1 lead leg	R strides	23	13	13	14	14	15	15					18.2	125.2				

2019 National Sports Festival (Hitachinaka, JPN)

FINAL

date 05-Oct-19

Enomoto (2019) - research on athlete performance and technique- 2019 data book

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Sekimoto, Moeka (JPN) (2001)	time	6.67	10.94	15.40	19.97	24.64	29.53	34.57	39.82	45.15	50.92			57.83	5 / 1			
reaction time	0.204 interval		4.27	4.46	4.57	4.67	4.89	5.04	5.25	5.33	5.77	6.91				13.30	14.60	16.35
	velocity	6.75	8.20	7.85	7.66	7.49	7.16	6.94	6.67	6.57	6.07	5.79	6.92	6.92		7.89	7.19	6.42
H1 lead leg	strides		15	15	15	15	16	16	17	17	17	17	143					

Youth FINAL

date 05-Oct-19

Wamani (2023) - race analysis of men's and women's 400m hurdles in the 2022 season

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Yamamoto, Ami (JPN) (2002)	time	6.71	11.19	15.82	20.54	25.38	30.35	35.44	40.61	46.03	51.53			57.77	4 / 1			
reaction time	0.211 interval		4.48	4.63	4.72	4.84	4.97	5.09	5.17	5.42	5.50	6.24	PB			13.83	14.90	16.09
	velocity	6.71	7.81	7.56	7.42	7.23	7.04	6.88	6.77	6.46	6.36	6.41	6.92	6.92		7.59	7.05	6.53
H1 lead leg	strides		17	17	17	17	17	17	17	17	18	18	155					

2019 IAAF World Championships (Doha, QAT)

FINAL

date 04-Oct-19

Sugimoto (2019) - world championship competition performance analysis- women's hurdles

Henson (2020) - Athlete First: 2019 year end hurdle report (TV Analysis)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Muhammad, Dalilah (USA) (1 time)	time	6.19	10.11	14.23	18.49	22.86	27.24	31.72	36.39	41.21	46.23			52.16	6 / 1			
reaction time	0.200 interval		3.92	4.12	4.26	4.37	4.38	4.48	4.67	4.82	5.02	5.93	WR			12.30	13.23	14.51
	velocity	7.27	8.93	8.50	8.22	8.01	7.99	7.81	7.49	7.26	6.97	6.75	7.67	7.67		8.54	7.94	7.24
H1 lead leg	R strides	23	15	15	15	15	15	15	15	16	16	16	20	180				
McLaughlin, Sydney (USA) (1 time)	time	6.27	10.27	14.38	18.65	22.98	27.42	31.96	36.73	41.57	46.58			52.23	4 / 2			
reaction time	0.161 interval		4.00	4.11	4.27	4.33	4.44	4.54	4.77	4.84	5.01	5.65	PB			12.38	13.31	14.62
	velocity	7.18	8.75	8.52	8.20	8.08	7.88	7.71	7.34	7.23	6.99	7.08	7.66	7.66		8.48	7.89	7.18
H1 lead leg	R strides	23	15	15	15	15	15	15	16	16	16	16	19.2	180.2				
Clayton, Rushell (JAM) (1991)	time	6.42	10.61	14.87	19.24	23.79	28.38	33.16	38.00	42.91	47.91			53.74	5 / 3			
reaction time	0.137 interval		4.19	4.26	4.37	4.55	4.59	4.78	4.84	4.91	5.00	5.83	PB			12.82	13.92	14.75
	velocity	7.01	8.35	8.22	8.01	7.69	7.63	7.32	7.23	7.13	7.00	6.86	7.44	7.44		8.19	7.54	7.12
H1 lead leg	L strides	23	15	15	15	15	15	16	15	16	16	19	180					
Sprunger, Leá (SUI) (1990)	time	6.28	10.47	14.71	19.00	23.49	28.11	32.93	37.93	42.94	48.08			54.06	9 / 4			
reaction time	0.199 interval		4.19	4.24	4.29	4.49	4.62	4.82	5.00	5.01	5.14	5.98	NR PB			12.72	13.93	15.15
	velocity	7.17	8.35	8.25	8.16	7.80	7.58	7.26	7.00	6.99	6.81	6.69	7.40	7.40		8.25	7.54	6.93
H1 lead leg	R strides	23	14	14	14	14	15	15	15	15	15	15	18.5	172.5				

Hejnová, Zuzana (CZE) (1986)	time	6.47	10.71	14.98	19.32	23.82	28.36	33.03	37.94	42.91	48.05	54.23	8 / 5	<i>Henson (2020)</i>		
reaction time	0.141	interval	4.24	4.27	4.34	4.50	4.54	4.67	4.91	4.97	5.14	6.18		12.85	13.71	15.02
velocity	6.96	8.25	8.20	8.06	7.78	7.71	7.49	7.13	7.04	6.81	6.47	7.38		8.17	7.66	6.99
H1 lead leg	R	strides	22	15	15	15	15	15	16	16	20	149				
Spencer, Ashley (USA) (1993)	time	6.44	10.71	14.98	19.35	23.82	33.03	37.87	42.97	48.08	54.45	2 / 6	<i>Henson (2020)</i>			
reaction time	0.163	interval	4.27	4.27	4.37	4.47	9.21	4.84	5.10	5.11	6.37			12.91	13.68	15.05
velocity	6.99	8.20	8.20	8.01	7.83	7.60	7.23	6.86	6.85	6.28	7.35			8.13	7.68	6.98
H1 lead leg	L	strides	22	15	15	15	15	15	16	19	117					
Ryzhykova, Anna (UKR) (1991)	time	6.40	10.48	14.65	18.98	23.45	28.13	33.00	38.00	43.04	48.35	54.45	3 / 7	<i>Henson (2020)</i>		
reaction time	0.173	interval	4.08	4.17	4.33	4.47	4.68	4.87	5.00	5.04	6.10			12.58	14.02	15.35
velocity	7.03	8.58	8.39	8.08	7.83	7.48	7.19	7.00	6.94	6.59	6.56	7.35		8.35	7.49	6.84
H1 lead leg	R	strides	22	14	14	14	15	15	15	16	19.2	144.2				
Watson, Sage (CAN) (1994)	time	6.27	10.48	14.75	19.12	23.66	28.26	33.06	38.07	43.24	48.61	54.82	7 / 8	<i>Henson (2020)</i>		
reaction time	0.186	interval	4.21	4.27	4.37	4.54	4.60	4.80	5.01	5.17	5.37	6.21		12.85	13.94	15.55
velocity	7.18	8.31	8.20	8.01	7.71	7.61	7.29	6.99	6.77	6.52	6.44	7.30		8.17	7.53	6.75
H1 lead leg	R	strides	22	15	15	15	15	15	16	17	20	165				

Semi-Final 3 (TV A)

date 02-Oct-19

Henson (2020) - Athlete First: 2019 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin, Sydney (USA) (1991)	time	6.30	10.41	14.71	19.00	23.48	27.99	32.69	37.60	42.57	47.74	53.81	5 / 1					
reaction time	0.170	interval	4.11	4.30	4.29	4.48	4.51	4.70	4.91	4.97	5.17	6.07				12.70	13.69	15.05
velocity	7.14	8.52	8.14	8.16	7.81	7.76	7.45	7.13	7.04	6.77	6.59	7.43				8.27	7.67	6.98
H1 lead leg	R	strides	23	15	15	15	15	15	15	16	16	18.5	178.5					
Sprunger, Leá (SUI) (1990)	time	6.37	10.47	14.75	23.55	28.25	33.10	38.10	43.21	48.45	54.52	6 / 2						15.35
reaction time	0.191	interval	4.10	4.28	8.80	4.70	4.85	5.00	5.11	5.24	6.07							6.84
velocity	7.06	8.54	8.18	7.95	7.45	7.22	7.00	6.85	6.68	6.59	7.34							
H1 lead leg	R	strides	23	14	14	14	15	15	15	15	15	18.5	173.5					
Salmon, Shiann (JAM) (1999)	time	6.34	10.57	14.95	24.09	28.82	33.73	38.68	43.81	48.98	55.16	7 / 3						15.25
reaction time	0.186	interval	4.23	4.38	9.14	4.73	4.91	4.95	5.13	5.17	6.18	PB						6.89
velocity	7.10	8.27	7.99	7.66	7.40	7.13	7.07	6.82	6.77	6.47	7.25							
H1 lead leg	R	strides	22	15	15	15	16	16	16	17	20.5	136.5						
Pedroso, Yadisleidis (ITA) (1991)	time	6.54	10.84	15.18	24.26	28.93	33.76	38.74	43.84	49.15	55.40	8 / 4						15.39
reaction time	0.208	interval	4.30	4.34	9.08	4.67	4.83	4.98	5.10	5.31	6.25							6.82
velocity	6.88	8.14	8.06	7.71	7.49	7.25	7.03	6.86	6.59	6.40	7.22							
H1 lead leg	R	strides	24	16	16	16	16	16	17	17	21	143						
Jamal, Aminat (BRN) (1997)	time	6.37	10.54	14.85	23.76	33.43	38.54	43.88	49.28	55.54	4 / 5							15.85
reaction time	0.210	interval	4.17	4.31	8.91	9.67	5.11	5.34	5.40	6.26								6.62
velocity	7.06	8.39	8.12	7.86	7.24	6.85	6.55	6.48	6.39	7.20								
H1 lead leg	R	strides	22	15	15	16	16	17	17	19.7	104.7							
Woodruff, Gianna (PAN) (1991)	time	6.34	10.37	14.61	23.59	33.50	38.57	43.78	49.21	55.61	2 / 6							15.71
reaction time	0.223	interval	4.03	4.24	8.98	9.91	5.07	5.21	5.43	6.40	AR							6.68
velocity	7.10	8.68	8.25	7.80	7.06	6.90	6.72	6.45	6.25	7.19								
H1 lead leg	L	strides	23	15	15	16	16	17	17	20	123							
Turner, Jessica (GBR) (1995)	time	6.60	11.08	15.58	24.72	29.46	34.20	39.14	44.34	49.65	55.87	9 / 7						15.45
reaction time	0.189	interval	4.48	4.50	9.14	4.74	4.74	4.94	5.20	5.31	6.22							6.80
velocity	6.82	7.81	7.78	7.66	7.38	7.38	7.09	6.73	6.59	6.43	7.16							
H1 lead leg	L	strides	24	16	16	16	16	17	17	20.7	142.7							
Boden, Lauren (AUS) (1988)	time	6.47	10.71	15.01	23.86	33.33	38.47	43.78	49.31	55.94	3 / 8							15.98
reaction time	0.173	interval	4.24	4.30	8.85	9.47	5.14	5.31	5.53	6.63								6.57
velocity	6.96	8.25	8.14	7.91	7.39	6.81	6.59	6.33	6.03	7.15								
H1 lead leg	L	strides	22	15	15	16	16	16	17	20.5	121.5							

Semi-Final 2 (TV A)

date 02-Oct-19

Henson (2020) - Athlete First: 2019 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Clayton, Rushell (JAM) (1991)	time	6.44	10.64	14.88	19.28	23.84	28.52	33.36	38.32	43.36	48.36	54.17	7 / 1					
reaction time	0.148	interval	4.20	4.24	4.40	4.56	4.68	4.84	4.96	5.04	5.00	5.81				12.84	14.08	15.00
velocity	6.99	8.33	8.25	7.95	7.68	7.48	7.23	7.06	6.94	7.00	6.88	7.38				8.18	7.46	7.00
H1 lead leg	L	strides	23	15	15	15	15	16	16	16	16	19	181					
Hejnová, Zuzana (CZE) (1986)	time	6.64	10.92	15.24	19.64	24.12	28.72	33.40	38.28	43.24	48.36	54.41	5 / 2					
reaction time	0.162	interval	4.28	4.32	4.40	4.48	4.60	4.68	4.88	4.96	5.12	6.05				13.00	13.76	14.96
velocity	6.78	8.18	8.10	7.95	7.81	7.61	7.48	7.17	7.06	6.84	6.61	7.35				8.08	7.63	7.02
H1 lead leg	R	strides	22	15	15	15	15	15	16	16	16	19.7	179.7					
Spencer, Ashley (USA) (1993)	time	6.24	10.40	14.52	18.88	23.32	27.92	32.64	37.76	42.96	48.28	54.42	8 / 3					
reaction time	0.171	interval	4.16	4.12	4.36	4.44	4.60	4.72	5.12	5.20	5.32	6.14				12.64	13.76	15.64
velocity	7.21	8.41	8.50	8.03	7.88	7.61	7.42	6.84	6.73	6.58	6.51	7.35				8.31	7.63	6.71

H1 lead leg	L	strides	22	15	15	15	15	15	15	15	16	16	16	19.2	179.2					
luel, Amalie (NOR) (1994)	time		6.32	10.52	14.76	19.16	23.68		28.36	33.20	38.28	43.48	48.84		55.03	4 / 4				
reaction time	0.151	interval		4.20	4.24	4.40	4.52		4.68	4.84	5.08	5.20	5.36	6.19			12.84	14.04	15.64	
		velocity		7.12	8.33	8.25	7.95	7.74		7.48	7.23	6.89	6.73	6.53	6.46	7.27		8.18	7.48	6.71
H1 lead leg	L	strides	23	15	15	15	15		15	15	16	16	16	19	164					
Folorunso, Ayomide (ITA) (1987)	time		6.52	10.68	14.92	19.24	23.68		28.40	33.28	38.40	43.52	48.92		55.36	6 / 5				
reaction time	0.198	interval		4.16	4.24	4.32	4.44		4.72	4.88	5.12	5.12	5.40	6.44			12.72	14.04	15.64	
		velocity		6.90	8.41	8.25	8.10	7.88		7.42	7.17	6.84	6.84	6.48	6.21	7.23		8.25	7.48	6.71
H1 lead leg	R	strides	22	15	15	15	15		16	17	17	17	17	21	187					
Linkiewicz, Joanna (POL) (1987)	time		6.48	10.72	15.04	19.56	24.24		29.04	33.96	38.92	44.00	49.24		55.38	9 / 6				
reaction time	0.166	interval		4.24	4.32	4.52	4.68		4.80	4.92	4.96	5.08	5.24	6.14			13.08	14.40	15.28	
		velocity		6.94	8.25	8.10	7.74	7.48		7.29	7.11	7.06	6.89	6.68	6.51	7.22		8.03	7.29	6.87
H1 lead leg	L	strides	24	16	16	16	16		17	17	17	17	17	20.5	176.5					
Carli, Sarah (AUS) (1994)	time		6.36	10.52	14.80	19.24	23.88		28.76	33.68	38.72	44.00	49.36		55.43	2 / 7				
reaction time	0.167	interval		4.16	4.28	4.44	4.64		4.88	4.92	5.04	5.28	5.36	6.07	PB		12.88	14.44	15.68	
		velocity		7.08	8.41	8.18	7.88	7.54		7.17	7.11	6.94	6.63	6.53	6.59	7.22		8.15	7.27	6.70
H1 lead leg	L	strides	23	15	15	15	15		16	16	16	16	17	20	168					
Krafzik, Carolina (GER) (1991)	time		6.36	10.44	14.64	19.04	23.60		28.52	33.56	38.80	44.20	49.88		56.41	3 / 8				
reaction time	0.191	interval		4.08	4.20	4.40	4.56		4.92	5.04	5.24	5.40	5.68	6.53			12.68	14.52	16.32	
		velocity		7.08	8.58	8.33	7.95	7.68		7.11	6.94	6.68	6.48	6.16	6.13	7.09		8.28	7.23	6.43
H1 lead leg	L	strides	23	15	15	15	15		16	17	17	17	18	18	151					

Semi-Final 1 (TV Analysis) date 02-Oct-19

Henson (2020) - Athlete First: 2019 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Muhammad, Dalilah (USA) (1991)	time		6.14	10.07	14.25	18.55	23.08		27.63	32.36	37.30	42.37	47.64		53.91	5 / 1				
reaction time	0.167	interval		3.93	4.18	4.30	4.53		4.55	4.73	4.94	5.07	5.27	6.27			12.41	13.81	15.28	
		velocity		7.33	8.91	8.37	8.14	7.73		7.69	7.40	7.09	6.90	6.64	6.38	7.42		8.46	7.60	6.87
H1 lead leg	R	strides	23	15	15	15	15		15	15	16	16	16	19.2	180.2					
Watson, Sage (CAN) (1994)	time		6.34	10.51	14.71		23.59		28.16	33.03	37.97	43.13	48.35		54.32	4 / 2				
reaction time	0.183	interval		4.17	4.20		8.88		4.57	4.87	4.94	5.16	5.22	5.97	NR PB				15.32	
		velocity		7.10	8.39	8.33	7.88		7.66	7.19	7.09	6.78	6.70	6.70	7.36				6.85	
H1 lead leg	R	strides	22	15	15				15	16	16	16	16	20	151					
Ryzhykova, Anna (UKR) (1991)	time		6.54	10.67	14.85	19.22	23.75		28.46	33.30	38.24	43.21	48.35		54.45	6 / 3				
reaction time	0.171	interval		4.13	4.18	4.37	4.53		4.71	4.84	4.94	4.97	5.14	6.10			12.68	14.08	15.05	
		velocity		6.88	8.47	8.37	8.01	7.73		7.43	7.23	7.09	7.04	6.81	6.56	7.35		8.28	7.46	6.98
H1 lead leg	R	strides	22	14	14	14	14		15	15	15	15	15	19.2	172.2					
Hechavarria, Zurian (CUB) (1991)	time		6.44	10.54	14.75		23.62		28.36	33.20	38.24	43.48	48.85		55.03	7 / 4				
reaction time	0.216	interval		4.10	4.21		8.87		4.74	4.84	5.04	5.24	5.37	6.18					15.65	
		velocity		6.99	8.54	8.31	7.89		7.38	7.23	6.94	6.68	6.52	6.47	7.27				6.71	
H1 lead leg	L	strides	23	15	15				16	16	16	17	17	21.2	156.2					
Claes, Hanne (BEL) (1991)	time		6.34	10.47	14.71		23.56		33.10	38.10	43.34	48.81		55.25	3 / 5					
reaction time	0.159	interval		4.13	4.24		8.85		9.54	5.00	5.24	5.47	6.44						15.71	
		velocity		7.10	8.47	8.25	7.91		7.34	7.00	6.68	6.40	6.21	7.24					6.68	
H1 lead leg	R	strides	23	15	15						17	17	21	108						
Rudakova, Vera (ANA) (1992)	time		6.50	10.74	15.05	19.55	24.22		28.99	33.90	38.94	44.14	49.38		55.57	8 / 6				
reaction time	0.246	interval		4.24	4.31	4.50	4.67		4.77	4.91	5.04	5.20	5.24	6.19			13.05	14.35	15.48	
		velocity		6.92	8.25	8.12	7.78	7.49		7.34	7.13	6.94	6.73	6.68	6.46	7.20		8.05	7.32	6.78
H1 lead leg	L	strides	21	15	15		15		15	15	16	16	16	144						
Boi, Femke (NED) (2000)	time		6.64	10.88	15.18	19.65	24.26		33.97	39.00	44.48	49.98		56.37	2 / 7					
reaction time	0.219	interval		4.24	4.30	4.47	4.61		9.71	5.03	5.48	5.50	6.39				13.01	14.32	16.01	
		velocity		6.78	8.25	8.14	7.83	7.59		7.21	6.96	6.39	6.36	6.26	7.10		8.07	7.33	6.56	
H1 lead leg	L	strides	22				15					16	16	69						
Beesley, Meghan (GBR) (1998)	time		6.34	10.54	14.81		23.82		28.59	33.46	38.70	44.28	50.05		56.89	9 / 8				
reaction time	0.173	interval		4.20	4.27		9.01		4.77	4.87	5.24	5.58	5.77	6.84					16.59	
		velocity		7.10	8.33	8.20	7.77		7.34	7.19	6.68	6.27	6.07	5.85	7.03				6.33	
H1 lead leg	L	strides	24	16	16		16			17		19	19	127						

Heat 5 (TV Analysis) date 01-Oct-19

Henson (2021) - Athlete First: 2019 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Clayton, Rushell (JAM) (1991)	time		6.60	10.76	15.04	19.36	23.88		33.60	38.68	43.88	49.16		55.23	7 / 1				
reaction time	0.176	interval		4.16	4.28	4.32	4.52		9.72	5.08	5.20	5.28	6.07				12.76	14.24	15.56
		velocity		6.82	8.41	8.18	8.10	7.74		7.20	6.89	6.73	6.63	6.59	7.24		8.23	7.37	6.75
H1 lead leg	L	strides	23	15	15	15	15				16	16	16	19	135				

Heat 4 (TV Analysis) date 01-Oct-19

Henson (2021) - Athlete First: 2019 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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luel, Amalie (NOR) (1994)	time	6.32	10.48	14.76	19.08	23.72	28.40	33.18	38.16	43.20	48.56	54.72	5 / 1					
	reaction time	0.157	interval	4.16	4.28	4.32	4.64	4.68	4.78	4.98	5.04	5.36	6.16	NR PB	12.76	14.10	15.38	
			velocity	7.12	8.41	8.18	8.10	7.54	7.48	7.32	7.03	6.94	6.53	6.49	7.31	8.23	7.45	6.83
	H1 lead leg	L	strides	23	15	15	15	15	15	15	16	16	19	164				

Heat 3 (TV Analysis) date 01-Oct-19

Henson (2021) - Athlete First: 2019 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Muhammad, Dalilah (USA) (-	time	6.24	10.28	14.60	18.96	23.56		28.40	33.24	38.20	43.44	48.68		54.87	5 / 1			
	reaction time	0.194	interval	4.04	4.32	4.36	4.60	4.84	4.84	4.96	5.24	5.24	6.19			12.72	14.28	15.44
			velocity	7.21	8.66	8.10	8.03	7.61	7.23	7.23	7.06	6.68	6.68	6.46	7.29	8.25	7.35	6.80
	H1 lead leg	R	strides	23	15	15	15	15	15	15	16	16	19.2	179.2				

Heat 1 (TV Analysis) date 01-Oct-19

Henson (2021) - Athlete First: 2019 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin, Sydney (USA) (-	time	6.48	10.64	14.92	19.40	23.92		33.40	38.52	43.44	48.52			54.45	8 / 1			
	reaction time	0.176	interval	4.16	4.28	4.48	4.52	9.48	5.12	4.92	5.08	5.93				12.92	14.00	15.12
			velocity	6.94	8.41	8.18	7.81	7.74	7.38	6.84	7.11	6.89	6.75	7.35		8.13	7.50	6.94
	H1 lead leg	R	strides	23	15	15	15	16	16	16	16	18.2	149.2					
Sprunger, Leá (SUI) (1990)	time	6.36	10.52	14.76	19.16	23.64		28.36	33.24	38.28	43.40	48.68		54.98	4 / 2			
	reaction time	0.182	interval	4.16	4.24	4.40	4.48	4.72	4.88	5.04	5.12	5.28	6.30			12.80	14.08	15.44
			velocity	7.08	8.41	8.25	7.95	7.81	7.42	7.17	6.94	6.84	6.63	6.35	7.28	8.20	7.46	6.80
	H1 lead leg	R	strides	21	14	14	14	15	15	15	15	15	19	157				

2019 The Match - Europe v USA (Minsk, BLR) (TV Analysis)**FINAL**

date 10-Sep-19

Henson (2020) - Athlete First: 2019 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ryzhykova, Anna (UKR) (1991)	time	6.54	10.67	14.88	19.18	23.65		28.42	33.40	38.47	43.71	49.01		55.32	6 / 1			
	reaction time		interval	4.13	4.21	4.30	4.47	4.77	4.98	5.07	5.24	5.30	6.31			12.64	14.22	15.61
			velocity	6.88	8.47	8.31	8.14	7.83	7.34	7.03	6.90	6.68	6.60	6.34	7.23	8.31	7.38	6.73
	H1 lead leg	R	strides	14	14	14	14	15	15	15	16	16	19.7	152.7				
Sprunger, Leá (SUI) (1990)	time	6.47	10.71		19.41	23.92		28.69		38.77	44.07	49.45		55.46	4 / 2			
	reaction time		interval	4.24	8.70	4.51		4.77		10.08	5.30	5.38	6.01			12.94		
			velocity	6.96	8.25	8.05	7.76	7.34		6.94	6.60	6.51	6.66	7.21		8.11		
	H1 lead leg	R	strides	14	14	14	14	15		16	16	18.5	107.5					
Beesley, Meghan (GBR) (1988)	time	6.34	10.54		19.18	23.72		28.46		38.53	43.84	49.25		55.49	2 / 3			
	reaction time		interval	4.20	8.64	4.54		4.74		10.07	5.31	5.41	6.24			12.84		
			velocity	7.10	8.33	8.10	7.71	7.38		6.95	6.59	6.47	6.41	7.21		8.18		
	H1 lead leg	L	strides	16	16	16	16	17		18	18	22.2	123.2					
Spencer, Ashley (USA) (1993)	time	6.47	10.71	15.05	19.48	23.99		28.66	33.43	38.50	43.61	48.88		dnf	5 / --			
	reaction time		interval	4.24	4.34	4.43	4.51	4.67	4.77	5.07	5.11	5.27				13.01	13.95	15.45
			velocity	6.96	8.25	8.06	7.90	7.76	7.49	7.34	6.90	6.85	6.64			8.07	7.53	6.80
	H1 lead leg	L	strides	15	15	15	15	15	15	16	16	16		123				

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

date 29-Aug-19

Henson (2020) - Athlete First: 2019 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
McLaughlin, Sydney (USA) (-	time	6.32	10.44		19.02	23.56	25.4	28.16	32.76	37.40	42.32	47.24		52.85	3 / 1				
	reaction time	0.147	interval	4.12	8.58	4.54		4.60	4.60	4.64	4.92	4.92	5.61			12.70	13.74	14.48	
			velocity	7.12	8.50	8.16	7.87	7.61	7.61	7.54	7.11	7.11	7.13	7.57		8.27	7.64	7.25	
	H1 lead leg	R	strides	23	15	15	15	15	15	15	16	16	19	149					
Little, Shamier (USA) (1995)	time	6.18	10.40		18.96	23.38	25.3	27.92	32.68		42.56	47.74		53.86	2 / 2				
	reaction time	0.202	interval	4.22	8.56	4.42		4.54	4.76		9.88	5.18	6.12			12.78	13.72	15.06	
			velocity	7.28	8.29	8.18	7.92	7.91	7.71	7.35	7.09	6.76	6.54	7.43		8.22	7.65	6.97	
	H1 lead leg	L	strides	22	15	15	15	15	15	15	16	16	20	118					
Muhammad, Dalilah (USA) (-	time	6.24	10.20	14.48	19.06	23.64	25.6	28.22	32.78	37.54	42.46	47.48		54.13	4 / 3				
	reaction time	0.193	interval	3.96	4.28	4.58	4.58	4.58	4.56	4.76	4.92	5.02	6.65			12.82	13.72	14.70	
			velocity	7.21	8.84	8.18	7.64	7.64	7.81	7.64	7.68	7.35	7.11	6.97	6.02	7.39	8.19	7.65	7.14
	H1 lead leg	R	strides	23	15	15	15	15	15	16	16	16	19.5	180.5					
Hejnová, Zuzana (CZE) (1988)	time	6.64	10.96	15.32	19.76	24.24	26.2	28.88	33.56	38.44	43.48	48.64		54.75	6 / 4				
	reaction time	0.144	interval	4.32	4.36	4.44	4.48	4.64	4.68	4.88	5.04	5.16	6.11			13.12	13.80	15.08	
			velocity	6.78	8.10	8.03	7.88	7.81	7.63	7.54	7.48	7.17	6.94	6.78	6.55	7.31	8.00	7.61	6.96
	H1 lead leg	R	strides	22	15	15	15	15	15	16	16	16	20	180					
Sprunger, Leá (SUI) (1990)	time	6.32	10.48		19.04	23.48	25.4	28.16	33.00	38.00	43.12	48.60		55.14	7 / 5				
	reaction time	0.140	interval	4.16	8.56	4.44		4.68	4.84	5.00	5.12	5.48	6.54			12.72	13.96	15.60	
			velocity	7.12	8.41	8.18	7.88	7.87	7.48	7.23	7.00	6.84	6.39	6.12	7.25	8.25	7.52	6.73	
	H1 lead leg	R	strides	21	14	14	14	15	15	15	16	16	20	130					
Ryzhykova, Anna (UKR) (1991)	time	6.48	10.64		19.24	23.88	25.9	28.72	33.68	38.72	43.88	49.20		55.28	1 / 6				
	reaction time	0.149	interval	4.16	8.60	4.64		4.84	4.96	5.04	5.16	5.32	6.08			12.76	14.44	15.52	
			velocity	6.94	8.41	8.14	7.54	7.72	7.23	7.06	6.94	6.78	6.58	7.24		8.23	7.27	6.77	

H1 lead leg	R	strides	22	14		15	15	15	15	16	19.7	131.7						
Russell, Janieve (JAM) (1993)	time		6.60	10.92	19.92	24.60	26.5	29.40	34.36	39.36		55.87	8 / 7					
reaction time	0.144	interval		4.32	9.00	4.68		4.80	4.96	5.00				13.32	14.44			
		velocity	6.82	8.10	7.78	7.48	7.55	7.29	7.06	7.00		7.16		7.88	7.27			
H1 lead leg	R	strides	23	15		15		16	16	16		101						
Spencer, Ashley (USA) (1993)	time		6.44	10.68	15.00	19.52	24.16	26.2	28.96	33.92	39.04	44.48	56.90	5 / 8				
reaction time	0.132	interval		4.24	4.32	4.52	4.64		4.80	4.96	5.12	5.44			13.08	14.40		
		velocity	6.99	8.25	8.10	7.74	7.54	7.63	7.29	7.06	6.84	6.43	7.03		8.03	7.29		
H1 lead leg	L	strides	22	15	15	15	15	15	15	16	16	144						

2019 Chinese National Grand Prix Final (Daqing, CHN)

FINAL

date 23-Aug-19

CAA Hurdle Development (2019)

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Huang Yan (CHN) (1996)	time		6.80	11.28	15.94	20.62	25.44		30.40	35.56	40.86	46.28	51.97		58.44	7 / 1			
reaction time	0.238	interval		4.48	4.66	4.68	4.82		4.96	5.16	5.30	5.42	5.69	6.47			13.82	14.94	16.41
		velocity	6.62	7.81	7.51	7.48	7.26		7.06	6.78	6.60	6.46	6.15	6.18	6.84		7.60	7.03	6.40
H1 lead leg	L	strides	24	17	17	17	17		17	18	18	18	19	23	205				
Lu Zhangwei (CHN) (2001)	time		6.87	11.23	15.85	20.64	25.48		30.60	35.65	41.01	46.65	52.57		59.30	5 / 2			
reaction time	0.247	interval		4.36	4.62	4.79	4.84		5.12	5.05	5.36	5.64	5.92	6.73			13.77	15.01	16.92
		velocity	6.55	8.03	7.58	7.31	7.23		6.84	6.93	6.53	6.21	5.91	5.94	6.75		7.63	7.00	6.21
H1 lead leg	R	strides	24	17	17	17	17		17	17	17	18	18	23	202				
Lan Tianlu (CHN) (1999)	time		6.80	11.28	15.92	20.82	25.80		30.94	36.14	41.41	47.06	53.10		60.04	8 / 3			
reaction time	0.228	interval		4.48	4.64	4.90	4.98		5.14	5.20	5.27	5.65	6.04	6.94			14.02	15.32	16.96
		velocity	6.62	7.81	7.54	7.14	7.03		6.81	6.73	6.64	6.19	5.79	5.76	6.66		7.49	6.85	6.19
H1 lead leg	L	strides	23	16	16	17	17		17	17	17	18	19	22.5	199.5				
Hu Lihong (CHN) (1999)	time		7.00	11.60	16.42	21.30	26.30		31.38	36.66	42.14	47.81	53.79		60.89	9 / 4			
reaction time	0.217	interval		4.60	4.82	4.88	5.00		5.08	5.28	5.48	5.67	5.98	7.10			14.30	15.36	17.13
		velocity	6.43	7.61	7.26	7.17	7.00		6.89	6.63	6.39	6.17	5.85	5.63	6.57		7.34	6.84	6.13
H1 lead leg	L	strides	23	16	16	16	16		16	16	17	17	17	21	191				
Tao Xue (CHN) (1999)	time		7.14	11.68	16.33	21.15	26.16		31.38	36.80	42.71	48.70	54.82		61.74	3 / 5			
reaction time	0.294	interval		4.54	4.65	4.82	5.01		5.22	5.42	5.91	5.99	6.12	6.92			14.01	15.65	18.02
		velocity	6.30	7.71	7.53	7.26	6.99		6.70	6.46	5.92	5.84	5.72	5.78	6.48		7.49	6.71	5.83
H1 lead leg	L	strides	23	16	16	16	16		17	17	18	18	18	21	196				
Jiang Liyunzhe (CHN) (2002)	time		6.72	11.26	15.83	20.65	25.68		30.95	36.27	41.86	48.03	54.77		63.02	2 / 6			
reaction time	0.224	interval		4.54	4.57	4.82	5.03		5.27	5.32	5.59	6.17	6.74	8.25			13.93	15.62	18.50
		velocity	6.70	7.71	7.66	7.26	6.96		6.64	6.58	6.26	5.67	5.19	4.85	6.35		7.54	6.72	5.68
H1 lead leg	L	strides	24	16	16	16	16		17	17	17	18	20	23.5	200.5				
Ou Ying (CHN) (2001)	time		7.04	11.56	16.22	20.94	25.93		31.03	36.39	42.04	fell			68.86	4 / --			
reaction time	0.234	interval		4.52	4.66	4.72	4.99		5.10	5.36	5.65			DQ			13.90	15.45	
		velocity	6.39	7.74	7.51	7.42	7.01		6.86	6.53	6.19			5.81			7.55	6.80	
H1 lead leg	L	strides	24	17	17	17	17		17	17	17			143					
Zhou Yu (CHN) (1999)	time		6.91	11.41	fell										dnf	6 / --			
reaction time	0.238	interval		4.50															
		velocity	6.51	7.78															
H1 lead leg	L	strides	24	16											40				

Heat 2

date 22-Aug-19

CAA Hurdle Development (2019)

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Zhou Yu (CHN) (1999)	time		7.00	11.53	16.28	21.09	26.01		31.08	36.44	41.89	47.56	53.29		59.70	4 / 1			
reaction time	0.233	interval		4.53	4.75	4.81	4.92		5.07	5.36	5.45	5.67	5.73	6.41			14.09	15.35	16.85
		velocity	6.43	7.73	7.37	7.28	7.11		6.90	6.53	6.42	6.17	6.11	6.24	6.70		7.45	6.84	6.23
H1 lead leg	L	strides	24	16	16	16	16		16	17	17	18	18	21.8	195.8				
Ou Ying (CHN) (2001)	time		7.04	11.60	16.25	20.97	25.89		31.13	36.47	41.99	47.65	53.49		59.81	6 / 2			
reaction time	0.249	interval		4.56	4.65	4.72	4.92		5.24	5.34	5.52	5.66	5.84	6.32			13.93	15.50	17.02
		velocity	6.39	7.68	7.53	7.42	7.11		6.68	6.55	6.34	6.18	5.99	6.33	6.69		7.54	6.77	6.17
H1 lead leg	L	strides	24	17	17	17	17		17	17	17	18	18	21	200				
Hu Lihong (CHN) (1999)	time		7.06	11.72	16.54	21.38	26.38		31.38	36.52	41.98	47.56	53.37		60.18	9 / 3			
reaction time	0.216	interval		4.66	4.82	4.84	5.00		5.00	5.14	5.46	5.58	5.81	6.81			14.32	15.14	16.85
		velocity	6.37	7.51	7.26	7.23	7.00		7.00	6.81	6.41	6.27	6.02	5.87	6.65		7.33	6.94	6.23
H1 lead leg	L	strides	23	16	16	16	16		16	16	17	17	17	20.8	190.8				
Tao Xue (CHN) (1999)	time		7.26	11.90	16.73	21.59	26.64		32.00	37.54	43.16	49.03	54.92		61.66	7 / 4			
reaction time	0.317	interval		4.64	4.83	4.86	5.05		5.36	5.54	5.62	5.87	5.89	6.74			14.33	15.95	17.38
		velocity	6.20	7.54	7.25	7.20	6.93		6.53	6.32	6.23	5.96	5.94	5.93	6.49		7.33	6.58	6.04
H1 lead leg	L	strides	23	16	16	16	16		17	17	17	18	18	21	195				
Liu Hongjuan (CHN) (1996)	time		7.10	11.78	16.54	21.52	26.71		32.28	37.95	43.96	50.03	56.19		63.27	8 / 5			

reaction time	0.284	interval	4.68	4.76	4.98	5.19		5.57	5.67	6.01	6.07	6.16	7.08		14.42	16.43	18.24		
		velocity	6.34	7.48	7.35	7.03	6.74		6.28	6.17	5.82	5.77	5.68	6.32		7.28	6.39	5.76	
H1 lead leg	L	strides	23	16	16	16	16		18	18	19	19	19	22.2	202.2				
Chen Zhuo (CHN) (2001)	time		7.12	11.95	16.88	22.01	27.36		32.90	38.82	44.90	51.17	57.49		64.44	3 / 6			
reaction time	0.223	interval	4.83	4.93	5.13	5.35		5.54	5.92	6.08	6.27	6.32	6.95			14.89	16.81	18.67	
		velocity	6.32	7.25	7.10	6.82	6.54		6.32	5.91	5.76	5.58	5.54	5.76	6.21		7.05	6.25	5.62
H1 lead leg	L	strides	23	17	17	17	17		17	18	18	19	19	22	204				

Heat 1

date 22-Aug-19

CAA Hurdle Development (2019)

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Lu Zhangwei (CHN) (2001)	time		6.84	11.33	15.97	20.75	25.68		30.74	35.97	41.46	47.08	52.85		59.39	6 / 1			
reaction time	0.256	interval	4.49	4.64	4.78	4.93		5.06	5.23	5.49	5.62	5.77	5.77	6.54			13.91	15.22	16.88
		velocity	6.58	7.80	7.54	7.32	7.10		6.92	6.69	6.38	6.23	6.07	6.12	6.74		7.55	6.90	6.22
H1 lead leg	R	strides	24	17	17	17	17		17	17	18	18	19	22.5	203.5				
Huang Yan (CHN) (1996)	time		6.80	11.30	15.92	20.59	25.41		30.31	35.55	41.14	46.95	52.80		59.43	4 / 2			
reaction time	0.255	interval	4.50	4.62	4.67	4.82		4.90	5.24	5.59	5.81	5.85	6.63				13.79	14.96	17.25
		velocity	6.62	7.78	7.58	7.49	7.26		7.14	6.68	6.26	6.02	5.98	6.03	6.73		7.61	7.02	6.09
H1 lead leg	L	strides	24	17	17	17	17		17	18	19	19	19	22.5	206.5				
Lan Tianlu (CHN) (1999)	time		7.02	11.63	16.38	21.29	26.24		31.45	36.70	42.06	47.56	53.55		60.49	7 / 3			
reaction time	0.306	interval	4.61	4.75	4.91	4.95		5.21	5.25	5.36	5.50	5.99	6.94				14.27	15.41	16.85
		velocity	6.41	7.59	7.37	7.13	7.07		6.72	6.67	6.53	6.36	5.84	5.76	6.61		7.36	6.81	6.23
H1 lead leg	L	strides	23	16	16	16	16		17	17	17	17	18	22	195				
Jiang Liyunzhe (CHN) (2002)	time		6.76	11.44	16.30	21.32	26.40		31.65	37.02	42.53	48.20	54.29		61.32	8 / 4			
reaction time	0.171	interval	4.68	4.86	5.02	5.08		5.25	5.37	5.51	5.67	6.09	7.03				14.56	15.70	17.27
		velocity	6.66	7.48	7.20	6.97	6.89		6.67	6.52	6.35	6.17	5.75	5.69	6.52		7.21	6.69	6.08
H1 lead leg	L	strides	24	16	16	16	16		17	17	17	17	18	21.5	195.5				
Chen Liying (CHN) (1994)	time		6.96	11.56	16.34	21.28	26.36		31.50	36.99	42.94	48.98	55.14		62.07	9 / 5			
reaction time	0.226	interval	4.60	4.78	4.94	5.08		5.14	5.49	5.95	6.04	6.16	6.93				14.32	15.71	18.15
		velocity	6.47	7.61	7.32	7.09	6.89		6.81	6.38	5.88	5.79	5.68	5.77	6.44		7.33	6.68	5.79
H1 lead leg	R	strides	24	18	17	17	17		17	18	19	19	19	22	207				
Di Chengqian (CHN) (1999)	time		7.07	11.95	16.93	22.12	27.49		33.20	39.12	45.46		59.00		66.19	3 / 6			
reaction time	0.228	interval	4.88	4.98	5.19	5.37		5.71	5.92	6.34		13.54	7.19				15.05	17.00	19.88
		velocity	6.36	7.17	7.03	6.74	6.52		6.13	5.91	5.52		5.17	5.56	6.04		6.98	6.18	5.28
H1 lead leg	L	strides	23	16	16	16	16		17	17	19			21.2	161.2				

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			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mo Jiadie (CHN) (2000)	time		6.66	11.08	15.66	20.38	25.26		30.26	35.42	40.58	46.04	51.58		57.76	6 / 1			
reaction time	0.241	interval	4.42	4.58	4.72	4.88		5.00	5.16	5.16	5.46	5.54	6.18				13.72	15.04	16.16
		velocity	6.76	7.92	7.64	7.42	7.17		7.00	6.78	6.78	6.41	6.32	6.47	6.93		7.65	6.98	6.50
H1 lead leg	L	strides	23	16	16	16	16		17	17	17	18	18	20.8	194.8				
Lu Zhangwei (CHN) (2001)	time		6.84	11.32	15.96	20.74	25.62		30.64	35.88	41.18	46.70	52.28		58.53	5 / 2			
reaction time	0.206	interval	4.48	4.64	4.78	4.88		5.02	5.24	5.30	5.52	5.58	6.25	PB			13.90	15.14	16.40
		velocity	6.58	7.81	7.54	7.32	7.17		6.97	6.68	6.60	6.34	6.27	6.40	6.83		7.55	6.94	6.40
H1 lead leg	R	strides	24	17	17	17	17		17	17	17	18	18	21.5	200.5				
Zou Yifan (CHN) (2000)	time		7.14	11.66	16.18	20.82	25.66		30.74	36.08	41.68	47.38	53.22		59.56	4 / 3			
reaction time	0.314	interval	4.52	4.52	4.64	4.84		5.08	5.34	5.60	5.70	5.84	6.34	PB			13.68	15.26	17.14
		velocity	6.30	7.74	7.74	7.54	7.23		6.89	6.55	6.25	6.14	5.99	6.31	6.72		7.68	6.88	6.13
H1 lead leg	R	strides	24	16	17	17	17		17	18	18	18	18	21	201				
Wang Jiaqi (CHN) (2000)	time		6.88	11.40	16.08	20.92	25.90		31.02	36.42	41.98	47.62	53.38		59.89	8 / 4			
reaction time	0.255	interval	4.52	4.68	4.84	4.98		5.12	5.40	5.56	5.64	5.76	6.51	PB			14.04	15.50	16.96
		velocity	6.54	7.74	7.48	7.23	7.03		6.84	6.48	6.29	6.21	6.08	6.14	6.68		7.48	6.77	6.19
H1 lead leg	R	strides	24	17	17	17	17		17	18	18	18	18	22	203				
Liang Yina (CHN) (2001)	time		6.94	11.52	16.20	21.04	26.14		31.54	37.10	42.74	48.54	54.48		61.35	7 / 5			
reaction time	0.364	interval	4.58	4.68	4.84	5.10		5.40	5.56	5.64	5.80	5.94	6.87				14.10	16.06	17.38
		velocity	6.48	7.64	7.48	7.23	6.86		6.48	6.29	6.21	6.03	5.89	5.82	6.52		7.45	6.54	6.04
H1 lead leg	L	strides	24	17	17	17	17		18	18	18	18	18	22	204				
Fu Yijia (CHN) (2001)	time		7.12	11.84	16.72	21.70	26.88		32.30	37.98	43.78	49.92	56.58		63.84	9 / 6			
reaction time	0.408	interval	4.72	4.88	4.98	5.18		5.42	5.68	5.80	6.14	6.66	7.26				14.58	16.28	18.60
		velocity	6.32	7.42	7.17	7.03	6.76		6.46	6.16	6.03	5.70	5.26	5.51	6.27		7.20	6.45	5.65
H1 lead leg	L	strides	24	17	17	17	17		17	18	18	19	20	22	206				
Chen Zhuo (CHN) (2001)	time		7.08	11.80	16.66	21.82	27.34		33.06	39.12	45.38	51.74	58.22		65.23	2 / 7			
reaction time	0.198	interval	4.72	4.86	5.16	5.52		5.72	6.06	6.26	6.36	6.48	7.01				14.74	17.30	19.10
		velocity	6.36	7.42	7.20	6.78	6.34		6.12	5.78	5.59	5.50	5.40	5.71	6.13		7.12	6.07	5.50
H1 lead leg	L	strides	23	16	16	16	17		17	18	18	19	19	22	201				

Dou Lingyu (CHN) (2000)	time	6.94	11.52	16.34	21.36	26.72		32.44	38.56	45.16	51.80	58.52		66.01	3 / 8			
	reaction time	0.203	interval	4.58	4.82	5.02	5.36	5.72	6.12	6.60	6.64	6.72	7.49			14.42	17.20	19.96
			velocity	6.48	7.64	7.26	6.97	6.53	6.12	5.72	5.30	5.27	5.21	5.34	6.06	7.28	6.10	5.26
	H1 lead leg	L	strides	25	17	17	17	18	18	19	20	20	21	24	216			

U18 FINAL		date 17-Aug-19		CAA Hurdle Development (2019)														
		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Zhou Xiaohan (CHN) (2002)	time	6.82	11.36	16.16	20.98	25.92		31.00	36.20	41.72	47.22	52.82		59.37	5 / 1			
	reaction time	0.236	interval	4.54	4.80	4.82	4.94	5.08	5.20	5.52	5.50	5.60	6.55			14.16	15.22	16.62
			velocity	6.60	7.71	7.29	7.26	7.09	6.89	6.73	6.34	6.36	6.25	6.11	6.74	7.42	6.90	6.32
	H1 lead leg	R	strides	24	16	16	17	17	17	18	18	18	19	23	203			
Xiong Yiqi (CHN) (2002)	time	7.20	12.02	16.92	21.92	27.14		32.64	38.26	44.00	49.90	55.78		62.41	8 / 2			
	reaction time	0.223	interval	4.82	4.90	5.00	5.22	5.50	5.62	5.74	5.90	5.88	6.63			14.72	16.34	17.52
			velocity	6.25	7.26	7.14	7.00	6.70	6.36	6.23	6.10	5.93	5.95	6.03	6.41	7.13	6.43	5.99
	H1 lead leg	L	strides	25	17	17	17	17	19	19	19	19	19	23.2	211.2			
Chen Leyi (CHN) (2003)	time	7.24	11.94	16.80	21.76	26.82		32.20	37.70	43.48	49.40	55.42		62.45	4 / 3			
	reaction time	0.397	interval	4.70	4.86	4.96	5.06	5.38	5.50	5.78	5.92	6.02	7.03			14.52	15.94	17.72
			velocity	6.22	7.45	7.20	7.06	6.92	6.51	6.36	6.06	5.91	5.81	5.69	6.41	7.23	6.59	5.93
	H1 lead leg	R	strides	26	17	17	17	17	18	18	19	19	19	23	210			
Li Yirong (CHN) (2002)	time	7.08	11.86	16.78	21.82	26.92		32.24	37.66	43.40	49.50	55.94		63.46	6 / 4			
	reaction time	0.188	interval	4.78	4.92	5.04	5.10	5.32	5.42	5.74	6.10	6.44	7.52			14.74	15.84	18.28
			velocity	6.36	7.32	7.11	6.94	6.86	6.58	6.46	6.10	5.74	5.43	5.32	6.30	7.12	6.63	5.74
	H1 lead leg	L	strides	25	17	17	17	17	18	18	19	20	21	24.5	213.5			
Pan Jianan (CHN) (2002)	time	6.92	11.32	16.20	21.16	26.34		31.70	37.22	43.32	49.60	55.98		63.98	9 / 5			
	reaction time	0.249	interval	4.40	4.88	4.96	5.18	5.36	5.52	6.10	6.28	6.38	8.00			14.24	16.06	18.76
			velocity	6.50	7.95	7.17	7.06	6.76	6.53	6.34	5.74	5.57	5.49	5.00	6.25	7.37	6.54	5.60
	H1 lead leg	L	strides	23	15	17	17	17	17	17	19	19	19	24.2	204.2			
Chen Qian (CHN) (2002)	time	7.22	12.06	17.00	21.96	27.12		32.46	38.22	44.30	50.64	57.20		65.02	2 / 6			
	reaction time	0.144	interval	4.84	4.94	4.96	5.16	5.34	5.76	6.08	6.34	6.56	7.82			14.74	16.26	18.98
			velocity	6.23	7.23	7.09	7.06	6.78	6.55	6.08	5.76	5.52	5.34	5.12	6.15	7.12	6.46	5.53
	H1 lead leg	L	strides	24	17	17	17	17	17	18	19	20	20	24	210			
Wang Shuzhen (CHN) (2002)	time	7.20	12.36	17.40	22.44	27.76		33.36	39.32	45.72	52.32	59.06		67.12	3 / 7			
	reaction time	0.204	interval	5.16	5.04	5.04	5.32	5.60	5.96	6.40	6.60	6.74	8.06			15.24	16.88	19.74
			velocity	6.25	6.78	6.94	6.94	6.58	6.25	5.87	5.47	5.30	5.19	4.96	5.96	6.89	6.22	5.32
	H1 lead leg	L	strides	24	17	17	17	17	17	18	19	19	19	23	207			
He Xueying (CHN) (2002)	time	6.80	11.56	16.44	21.40	26.52		31.62	36.70	41.94	<i>fell</i>			dnf	7 / --			
	reaction time		interval	4.76	4.88	4.96	5.12	5.10	5.08	5.24						14.60	15.30	
			velocity	6.62	7.35	7.17	7.06	6.84	6.86	6.89	6.68					7.19	6.86	
	H1 lead leg	L	strides	24	17	17	17	17	17	17	17	19		162				
U20 Heat 2		date 17-Aug-19		CAA Hurdle Development (2019)														
		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Zou Yifan (CHN) (2000)	time	7.24	11.86	16.54	21.32	26.26		31.38	36.78	42.30	48.20	54.36		61.15	4 / 1			
	reaction time	0.269	interval	4.62	4.68	4.78	4.94	5.12	5.40	5.52	5.90	6.16	6.79			14.08	15.46	17.58
			velocity	6.22	7.58	7.48	7.32	7.09	6.84	6.48	6.34	5.93	5.68	5.89	6.54	7.46	6.79	5.97
	H1 lead leg	L	strides	24	17	17	17	17	17	17	17	19	19	21.2	202.2			
Lu Zhangwei (CHN) (2001)	time	7.06	11.68	16.44	21.26	26.26		31.42	36.72	42.20	48.06	54.18		61.70	7 / 2			
	reaction time	0.191	interval	4.62	4.76	4.82	5.00	5.16	5.30	5.48	5.86	6.12	7.52			14.20	15.46	17.46
			velocity	6.37	7.58	7.35	7.26	7.00	6.78	6.60	6.39	5.97	5.72	5.32	6.48	7.39	6.79	6.01
	H1 lead leg	R	strides	23	17	17	17	17	17	17	17	18	20	23	203			
Wang Jiaqi (CHN) (2000)	time	7.18	11.70	16.34	21.10	26.10		31.40	37.02	42.96	49.18	55.78		62.86	3 / 3			
	reaction time	0.394	interval	4.52	4.64	4.76	5.00	5.30	5.62	5.94	6.22	6.60	7.08			13.92	15.92	18.76
			velocity	6.27	7.74	7.54	7.35	7.00	6.60	6.23	5.89	5.63	5.30	5.65	6.36	7.54	6.60	5.60
	H1 lead leg	R	strides	24	17	17	17	17	18	18	19	19	21	22.5	209.5			
Wang Yuanyuan (CHN) (2000)	time	7.32	12.12	17.00	22.04	27.28		32.80	38.54	44.48	50.70	56.90		63.49	5 / 4			
	reaction time	0.191	interval	4.80	4.88	5.04	5.24	5.52	5.74	5.94	6.22	6.20	6.59			14.72	16.50	18.36
			velocity	6.15	7.29	7.17	6.94	6.68	6.34	6.10	5.89	5.63	5.65	6.07	6.30	7.13	6.36	5.72
	H1 lead leg	L	strides	24	17	17	17	18	18	18	19	19	19	22	208			
Ou Ying (CHN) (2001)	time	7.26	11.98	16.76	21.82	26.88		32.14	37.40	42.80	53.34	59.54		66.39	6 / 5			
	reaction time	0.246	interval	4.72	4.78	5.06	5.06	5.26	5.26	5.40	10.54	6.20	6.85			14.56	15.58	22.14
			velocity	6.20	7.42	7.32	6.92	6.92	6.65	6.65	6.48	3.32	5.65	5.84	6.03	7.21	6.74	4.74
	H1 lead leg	L	strides	24	17	17	17	17	17	17	17	<i>fell</i>	19	21.5	183.5			
Xie Hanmeng (CHN) (2001)	time	7.36	12.16	17.20	22.58	28.38		34.82	41.86			66.74		76.27	2 / 6			
	reaction time	0.232	interval	4.80	5.04	5.38	5.80	6.44	7.04			24.88	9.53			15.22	19.28	24.88
			velocity	6.11	7.29	6.94	6.51	6.03	5.43	4.97		4.22	4.20	5.24		6.90	5.45	4.22

H1 lead leg	L	strides	24	17	17	17	18	19	20	21	153								
Luo Ouxuan (CHN) (2000)	time		7.32	12.26	17.24	22.36						dnf	9 / --						
reaction time	interval		4.94	4.98	5.12														15.04
	velocity		6.15	7.09	7.03	6.84													6.98
H1 lead leg	R	strides	24	16	16	16					72								

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CAA Hurdle Development (2019)

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mo Jiadie (CHN) (2000)	time		6.78	11.34	16.10	20.94	25.94		31.14	36.54	41.94	47.78	53.66		60.37	6 / 1			
reaction time	0.222 interval		4.56	4.76	4.84	5.00			5.20	5.40	5.40	5.84	5.88	6.71			14.16	15.60	17.12
	velocity		6.64	7.68	7.35	7.23	7.00		6.73	6.48	6.48	5.99	5.95	5.96	6.63		7.42	6.73	6.13
H1 lead leg	L	strides	24	16	16	16	16		17	17	17	18	18	21	196				
Liang Yina (CHN) (2001)	time		6.98	11.70	16.58	21.56	26.80		32.32	38.08	43.84	49.84	55.92		62.37	7 / 2			
reaction time	0.241 interval		4.72	4.88	4.98	5.24			5.52	5.76	5.76	6.00	6.08	6.45			14.58	16.52	17.84
	velocity		6.45	7.42	7.17	7.03	6.68		6.34	6.08	6.08	5.83	5.76	6.20	6.41		7.20	6.36	5.89
H1 lead leg	R	strides	25	16	17	17	17		18	18	18	19	19	21.5	205.5				
Fu Yijia (CHN) (2001)	time		7.06	11.92	16.90	21.94	27.14		32.46	38.02	43.72	49.80	55.90		63.00	5 / 3			
reaction time	0.258 interval		4.86	4.98	5.04	5.20			5.32	5.56	5.70	6.08	6.10	7.10			14.88	16.08	17.88
	velocity		6.37	7.20	7.03	6.94	6.73		6.58	6.29	6.14	5.76	5.74	5.63	6.35		7.06	6.53	5.87
H1 lead leg	L	strides	24	17	17	17	17		17	18	18	19	19	21.2	204.2				
Chen Zhuo (CHN) (2001)	time		6.88	11.64	16.52	21.50	26.68		32.10	37.80	43.72	49.94	56.24		63.25	3 / 4			
reaction time	0.172 interval		4.76	4.88	4.98	5.18			5.42	5.70	5.92	6.22	6.30	7.01			14.62	16.30	18.44
	velocity		6.54	7.35	7.17	7.03	6.76		6.46	6.14	5.91	5.63	5.56	5.71	6.32		7.18	6.44	5.69
H1 lead leg	L	strides	23	17	17	17	17		17	17	17	18	19	21.5	200.5				
Dou Lingyu (CHN) (2000)	time		6.82	11.40	16.14	20.98	26.16		31.62	37.38	43.34	49.56	55.90		63.46	2 / 5			
reaction time	0.188 interval		4.58	4.74	4.84	5.18			5.46	5.76	5.96	6.22	6.34	7.56	PB		14.16	16.40	18.52
	velocity		6.60	7.64	7.38	7.23	6.76		6.41	6.08	5.87	5.63	5.52	5.29	6.30		7.42	6.40	5.67
H1 lead leg	L	strides	25	17	17	17	18		18	19	19	20	20	24	214				
Yang Xinyue (CHN) (2001)	time		7.10	11.96	16.90	21.82	26.96		32.32	38.12	44.34	50.68	57.28		65.56	8 / 6			
reaction time	0.174 interval		4.86	4.94	4.92	5.14			5.36	5.80	6.22	6.34	6.60	8.28			14.72	16.30	19.16
	velocity		6.34	7.20	7.09	7.11	6.81		6.53	6.03	5.63	5.52	5.30	4.83	6.10		7.13	6.44	5.48
H1 lead leg	L	strides	24	17	17	17	17		17	19	19	19	19	185					

2019 Pan American Games (Lima, PER) (TV Analysis)**FINAL**

date 08-Aug-19

Henson (2020) - Athlete First: 2019 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Watson, Sage (CAN) (1994)	time		6.34	10.52	14.76	19.10			28.20	33.03	38.13	43.33	48.82		55.16	6 / 1			
reaction time	0.220 interval		4.18	4.24	4.34				9.10	4.83	5.10	5.20	5.49	6.34			12.76	13.93	15.79
	velocity		7.10	8.37	8.25	8.06			7.69	7.25	6.86	6.73	6.38	6.31	7.25		8.23	7.54	6.65
H1 lead leg	R	strides	22	15	15	15				15	16	16	17	20	151				
Cockrell, Anna (USA) (1997)	time		6.34	10.38	14.83	19.38	24.03		28.79	33.72	38.76	43.89			55.50	8 / 2			
reaction time	0.247 interval		4.04	4.45	4.55	4.65			4.76	4.93	5.04	5.13					13.04	14.34	
	velocity		7.10	8.66	7.87	7.69	7.53		7.35	7.10	6.94	6.82			7.21		8.05	7.32	
H1 lead leg	L	strides	22	14	15	15	15		15	15	16	16			143				
Clayton, Rushell (JAM) (199)	time		6.38	10.44	14.65	18.96			28.24	33.14	38.27	43.58	49.00		55.53	4 / 3			
reaction time	0.188 interval		4.06	4.21	4.31				9.28	4.90	5.13	5.31	5.42	6.53			12.58	14.18	15.86
	velocity		7.05	8.62	8.31	8.12			7.54	7.14	6.82	6.59	6.46	6.13	7.20		8.35	7.40	6.62
H1 lead leg	L	strides	23	15	15	15				16	16	17	17	21.2	155.2				

2019 Japanese National High School Championships (Okinawa, JPN)**FINAL**

date 06-Aug-19

Kota (2019) - 72nd high school championships: JAF scientific committee - biomechanics data collection

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tsugawa, Rui (JPN) (2001)	time		6.85	11.38	16.03	20.82	25.66		30.65	35.60	40.60	46.03	51.73		58.14	3 / 1			
reaction time	interval		4.53	4.65	4.79	4.84			4.99	4.95	5.00	5.43	5.70	6.41	PB		13.97	14.78	16.13
	velocity		6.57	7.73	7.53	7.31	7.23		7.01	7.07	7.00	6.45	6.14	6.24	6.88		7.52	7.10	6.51
H1 lead leg		strides	17	17	17	17			17	17	17	19	19		157				
Tawa, Rina (JPN) (2002)	time		6.88	11.48	16.07	20.79	25.88		30.93	36.20	41.54	46.92	52.43		58.60	4 / 2			
reaction time	interval		4.60	4.59	4.72	5.09			5.05	5.27	5.34	5.38	5.51	6.17	PB		13.91	15.41	16.23
	velocity		6.54	7.61	7.63	7.42	6.88		6.93	6.64	6.55	6.51	6.35	6.48	6.83		7.55	6.81	6.47
H1 lead leg		strides	16	16	16	17			17	18	18	18	18		154				
Nakano, Nano (JPN) (2001)	time		6.95	11.56	16.27	21.09	26.03		31.21	36.40	41.68	47.19	52.70		58.92	5 / 3			
reaction time	interval		4.61	4.71	4.82	4.94			5.18	5.19	5.28	5.51	5.51	6.22	PB		14.14	15.31	16.30
	velocity		6.47	7.59	7.43	7.26	7.09		6.76	6.74	6.63	6.35	6.35	6.43	6.79		7.43	6.86	6.44
H1 lead leg		strides	17	17	17	17			19	19	19	19	19		163				
Aoki, Honoka (JPN) (2001)	time		6.83	11.39	16.05	20.80	25.78		30.91	36.07	41.42	46.97	52.71		58.94	8 / 4			
reaction time	interval		4.56	4.66	4.75	4.98			5.13	5.16	5.35	5.55	5.74	6.23			13.97	15.27	16.64
	velocity		6.59	7.68	7.51	7.37	7.03		6.82	6.78	6.54	6.31	6.10	6.42	6.79		7.52	6.88	6.31

H1 lead leg	strides		17	17	17	17		17	17	18	18	18		156				
Shimizu, Hana (JPN) (2001)	time	6.80	11.33	15.97	20.79	25.85		31.01	36.14	41.31	46.85	52.55		59.07	6 / 5			
reaction time	interval		4.53	4.64	4.82	5.06		5.16	5.13	5.17	5.54	5.70	6.52	PB		13.99	15.35	16.41
	velocity	6.62	7.73	7.54	7.26	6.92		6.78	6.82	6.77	6.32	6.14	6.13	6.77		7.51	6.84	6.40
H1 lead leg	strides		17	17	17	17		17	17	17	19	19		157				
Saka, Nozomi (JPN) (2001)	time	6.67	11.16	15.75	20.47	25.38		30.53	35.72	41.02	46.60	52.63		59.48	2 / 6			
reaction time	interval		4.49	4.59	4.72	4.91		5.15	5.19	5.30	5.58	6.03	6.85	PB		13.80	15.25	16.91
	velocity	6.75	7.80	7.63	7.42	7.13		6.80	6.74	6.60	6.27	5.80	5.84	6.72		7.61	6.89	6.21
H1 lead leg	strides		16	16	16	16		17	17	17	17	19		151				
Kawamura, Yuka (JPN) (2001)	time	6.83	11.46	16.18	20.97	25.95		31.16	36.37	41.61	47.20	53.00		59.91	7 / 7			
reaction time	interval		4.63	4.72	4.79	4.98		5.21	5.21	5.24	5.59	5.80	6.91			14.14	15.40	16.63
	velocity	6.59	7.56	7.42	7.31	7.03		6.72	6.72	6.68	6.26	6.03	5.79	6.68		7.43	6.82	6.31
H1 lead leg	strides		17	17	17	17		17	17	18	18	19		157				
Shiomi, Mikoto (JPN) (2001)	time	6.93	11.75	16.60	21.62	26.77		32.08	37.50	42.88	48.38	54.04		59.96	1 / 8			
reaction time	interval		4.82	4.85	5.02	5.15		5.31	5.42	5.38	5.50	5.66	5.92			14.69	15.88	16.54
	velocity	6.49	7.26	7.22	6.97	6.80		6.59	6.46	6.51	6.36	6.18	6.76	6.67		7.15	6.61	6.35
H1 lead leg	strides		17	17	17	17		18	18	18	18	18	18	158				

2019 Chinese World Championship Trials (Shenyang, CHN)

FINAL

date 03-Aug-19

CAA Hurdle Development (2019)

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Huang Yan (CHN) (1996)	time	6.96	11.51	16.23	21.00	25.89		30.95	36.14	41.42	46.85	52.29		58.39	1 / 1				
reaction time	0.263 interval		4.55	4.72	4.77	4.89		5.06	5.19	5.28	5.43	5.44	6.10			14.04	15.14	16.15	
	velocity	6.47	7.69	7.42	7.34	7.16		6.92	6.74	6.63	6.45	6.43	6.56	6.85		7.48	6.94	6.50	
H1 lead leg	L strides		24	17	17	17	17		17	18	18	18	18	22	203				
Lan Tianlu (CHN) (1999)	time	6.88	11.56	16.26	21.08	26.04		31.22	36.42	41.70	46.98	52.36		58.48	7 / 2				
reaction time	0.256 interval		4.68	4.70	4.82	4.96		5.18	5.20	5.28	5.28	5.38	6.12	PB		14.20	15.34	15.94	
	velocity	6.54	7.48	7.45	7.26	7.06		6.76	6.73	6.63	6.63	6.51	6.54	6.84		7.39	6.84	6.59	
H1 lead leg	L strides		23	16	16	16	16		17	17	17	17	17	21	193				
Lu Zhangwei (CHN) (2001)	time	6.88	11.38	15.98	20.72	25.62		30.72	35.94	41.30	46.92	52.54		58.90	6 / 3				
reaction time	0.275 interval		4.50	4.60	4.74	4.90		5.10	5.22	5.36	5.62	5.62	6.36	PB		13.84	15.22	16.60	
	velocity	6.54	7.78	7.61	7.38	7.14		6.86	6.70	6.53	6.23	6.23	6.29	6.79		7.59	6.90	6.33	
H1 lead leg	R strides		24	17	17	17	17		17	17	17	18	18	22.2	201.2				
Ding Yirui (CHN) (2002)	time	6.84	11.33	15.98	20.69	25.64		30.86	36.24	41.77	47.50	53.12		59.63	2 / 4				
reaction time	0.245 interval		4.49	4.65	4.71	4.95		5.22	5.38	5.53	5.73	5.62	6.51	PB		13.85	15.55	16.88	
	velocity	6.58	7.80	7.53	7.43	7.07		6.70	6.51	6.33	6.11	6.23	6.14	6.71		7.58	6.75	6.22	
H1 lead leg	L strides		23	15	15	15	16		16	17	17	17	17	21	189				
Wu Fangfang (CHN) (1997)	time	6.96	11.65	16.32	21.12	26.11		31.35	36.65	42.16	47.73	53.52		60.01	5 / 5				
reaction time	0.244 interval		4.69	4.67	4.80	4.99		5.24	5.30	5.51	5.57	5.79	6.49			14.16	15.53	16.87	
	velocity	6.47	7.46	7.49	7.29	7.01		6.68	6.60	6.35	6.28	6.04	6.16	6.67		7.42	6.76	6.22	
H1 lead leg	L strides		24	16	16	16	16		17	17	17	17	17	21.5	194.5				
Chen Liying (CHN) (1994)	time	6.84	11.45	16.07	20.82	25.68		30.76	36.07	41.54	47.29	53.34		60.13	4 / 6				
reaction time	0.185 interval		4.61	4.62	4.75	4.86		5.08	5.31	5.47	5.75	6.05	6.79	PB		13.98	15.25	17.27	
	velocity	6.58	7.59	7.58	7.37	7.20		6.89	6.59	6.40	6.09	5.79	5.89	6.65		7.51	6.89	6.08	
H1 lead leg	R strides		24	16	16	16	16		17	17	17	18	19	22.2	198.2				
Hu Lihong (CHN) (1999)	time	7.02	11.66	16.36	21.08	26.00		31.02	36.22	41.60	47.22	53.10		60.34	8 / 7				
reaction time	0.231 interval		4.64	4.70	4.72	4.92		5.02	5.20	5.38	5.62	5.88	7.24			14.06	15.14	16.88	
	velocity	6.41	7.54	7.45	7.42	7.11		6.97	6.73	6.51	6.23	5.95	5.52	6.63		7.47	6.94	6.22	
H1 lead leg	L strides		23	16	16	16	16		16	16	17	17	17	21	191				
Liu Hongjuan (CHN) (1996)	time	7.02	11.78	16.57	21.44	26.46		31.68	37.02	42.61	48.28	54.20		61.02	3 / 8				
reaction time	0.251 interval		4.76	4.79	4.87	5.02		5.22	5.34	5.59	5.67	5.92	6.82			14.42	15.58	17.18	
	velocity	6.41	7.35	7.31	7.19	6.97		6.70	6.55	6.26	6.17	5.91	5.87	6.56		7.28	6.74	6.11	
H1 lead leg	L strides		23	16	16	16	16		17	17	18	18	19	22.2	198.2				

Heat 2

date 03-Aug-19

CAA Hurdle Development (2019)

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Lu Zhangwei (CHN) (2001)	time	6.90	11.48	16.26	21.12	26.16		31.46	36.78	42.16	47.74	53.38		59.81	6 / 1				
reaction time	0.229 interval		4.58	4.78	4.86	5.04		5.30	5.32	5.38	5.58	5.64	6.43			14.22	15.66	16.60	
	velocity	6.52	7.64	7.32	7.20	6.94		6.60	6.58	6.51	6.27	6.21	6.22	6.69		7.38	6.70	6.33	
H1 lead leg	R strides		24	17	17	17	17		17	17	17	18	18	21.5	200.5				
Chen Liying (CHN) (1994)	time	6.92	11.63	16.31	21.08	25.93		31.08	36.52	42.07	47.70	53.55		60.34	1 / 2				
reaction time	0.193 interval		4.71	4.68	4.77	4.85		5.15	5.44	5.55	5.63	5.85	6.79			14.16	15.44	17.03	
	velocity	6.50	7.43	7.48	7.34	7.22		6.80	6.43	6.31	6.22	5.98	5.89	6.63		7.42	6.80	6.17	
H1 lead leg	R strides		24	16	16	16	16		17	18	18	18	18	22	199				
Hu Lihong (CHN) (1999)	time	7.08	11.80	16.68	21.54	26.54		31.72	36.88	42.26	47.84	53.62		60.44	8 / 3				

reaction time	0.229	interval	4.72	4.88	4.86	5.00	5.18	5.16	5.38	5.58	5.78	6.82		14.46	15.34	16.74	
		velocity	6.36	7.42	7.17	7.20	7.00	6.76	6.78	6.51	6.27	6.06	5.87	6.62	7.26	6.84	6.27
H1 lead leg	L	strides	23	16	16	16	16	16	16	17	17	17	20.7	190.7			
Huang Yan (CHN) (1996)	time	6.96	11.79	16.55	21.31	26.26	31.50	36.85	42.24	47.98	53.89		60.51	3 / 4			
reaction time	0.212	interval	4.83	4.76	4.76	4.95	5.24	5.35	5.39	5.74	5.91	6.62		14.35	15.54	17.04	
		velocity	6.47	7.25	7.35	7.35	7.07	6.68	6.54	6.49	6.10	5.92	6.04	6.61	7.32	6.76	6.16
H1 lead leg	L	strides	25	17	17	17	17	18	18	18	19	19	21.7	206.7			
Ding Yirui (CHN) (2002)	time	6.84	11.46	16.33	21.29	26.44	31.95	37.29	42.71	48.26	54.09		60.85	4 / 5			
reaction time	0.250	interval	4.62	4.87	4.96	5.15	5.51	5.34	5.42	5.55	5.83	6.76		14.45	16.00	16.80	
		velocity	6.58	7.58	7.19	7.06	6.80	6.35	6.55	6.46	6.31	6.00	5.92	6.57	7.27	6.56	6.25
H1 lead leg	L	strides	23	15	16	16	17	17	17	17	17	18	21.2	194.2			
Jiang Liyunzhe (CHN) (2002)	time	7.02	11.97	17.02	22.26	27.58	33.10	38.52	44.02	49.66	55.60		62.33	7 / 6			
reaction time	0.179	interval	4.95	5.05	5.24	5.32	5.52	5.42	5.50	5.64	5.94	6.73		15.24	16.26	17.08	
		velocity	6.41	7.07	6.93	6.68	6.58	6.34	6.46	6.36	6.21	5.89	5.94	6.42	6.89	6.46	6.15
H1 lead leg	L	strides	24	16	16	16	16	17	17	17	17	17	20.5	193.5			
Zhou Yu (CHN) (1999)	time	7.09	11.86	16.75	21.71	26.78	32.23	37.76	43.57	49.56	55.67		62.55	5 / 7			
reaction time	0.236	interval	4.77	4.89	4.96	5.07	5.45	5.53	5.81	5.99	6.11	6.88		14.62	16.05	17.91	
		velocity	6.35	7.34	7.16	7.06	6.90	6.42	6.33	6.02	5.84	5.73	5.81	6.39	7.18	6.54	5.86
H1 lead leg	R	strides	25	16	16	16	16	17	17	18	19	19	22	201			

Heat 1

date 03-Aug-19

CAA Hurdle Development (2019)

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Liu Hongjuan (CHN) (1996)	time	7.09	11.84	16.70	21.70	26.83		32.22	37.74	43.24	49.02	54.87		61.69	4 / 1				
reaction time	0.228	interval	4.75	4.86	5.00	5.13		5.39	5.52	5.50	5.78	5.85	6.82				14.61	16.04	17.13
		velocity	6.35	7.37	7.20	7.00	6.82		6.49	6.34	6.36	6.06	5.98	5.87	6.48		7.19	6.55	6.13
H1 lead leg	L	strides	23	16	16	16	16		17	17	17	18	18	21.2	195.2				
Wu Fangfang (CHN) (1997)	time	7.19	12.04	17.00	22.09	27.68		33.58	39.51	45.71	52.10	58.41		65.54	5 / 2				
reaction time	0.247	interval	4.85	4.96	5.09	5.59		5.90	5.93	6.20	6.39	6.31	7.13				14.90	17.42	18.90
		velocity	6.26	7.22	7.06	6.88	6.26		5.93	5.90	5.65	5.48	5.55	5.61	6.10		7.05	6.03	5.56
H1 lead leg	L	strides	24	16	16	16	18		19	17	19	19	19	21.2	204.2				
Lan Tianlu (CHN) (1999)	time	7.16	12.16	17.21	22.51	27.91		33.67	39.97	46.15	52.55	58.93		66.40	2 / 3				
reaction time	0.269	interval		5.00	5.05	5.30	5.40		5.76	6.30	6.18	6.40	6.38	7.47			15.35	17.46	18.96
		velocity	6.28	7.00	6.93	6.60	6.48		6.08	5.56	5.66	5.47	5.49	5.35	6.02		6.84	6.01	5.54
H1 lead leg	L	strides	23	16	16	16	16		17	18	18	18	18	22	198				

2019 USATF National Championships (Des Moines, IA)

Henson (2020) - Athlete First: 2019 year end hurdle report

FINAL

date 28-Jul-19

Vazel (2019) - statistical analysis and historical context of the new 400H world record

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Muhammad, Dalilah (USA) (1993)	time	6.25	10.15	14.27	18.48	22.79		27.19	31.66	36.39	41.26	46.32		52.20	4 / 1				
reaction time	0.287	interval	3.90	4.12	4.21	4.31		4.40	4.47	4.73	4.87	5.06	5.88	WR			12.23	13.18	14.66
		velocity	7.20	8.97	8.50	8.31	8.12		7.95	7.83	7.40	7.19	6.92	6.80	7.66		8.59	7.97	7.16
H1 lead leg	R	strides	23	15	15	15	15		15	15	16	16	16	20	181				
McLaughlin, Sydney (USA) (1993)	time	6.37	10.54	14.71	18.98	23.32		28.12	32.72	37.52	42.55	47.52		52.88	6 / 2				Henson (2020)
reaction time	0.198	interval	4.17	4.17	4.27	4.34		4.80	4.60	4.80	5.03	4.97	5.36				12.61	13.74	14.80
		velocity	7.06	8.39	8.39	8.20	8.06		7.29	7.61	7.29	6.96	7.04	7.46	7.56		8.33	7.64	7.09
H1 lead leg	R	strides	23	15	15	15	15		15	15	15	16	16	18.5	178.5				
Spencer, Ashley (USA) (1993)	time	6.57	10.74	14.98	19.32	23.76		33.13	37.60	42.44	47.34		53.11	3 / 3					Henson (2020)
reaction time	0.202	interval	4.17	4.24	4.34	4.44		9.37	4.47	4.84	4.90	5.77	=PB				12.75	13.81	14.21
		velocity	6.85	8.39	8.25	8.06	7.88		7.47	7.83	7.23	7.14	6.93	7.53			8.24	7.60	7.39
H1 lead leg	L	strides	22	15	15	15	15		15	15	15	15	18.2	145.2					
Little, Shamier (USA) (1995)	time	6.15	10.11	14.28	18.45	22.78		27.36	32.13	37.07	42.10	47.34		53.91	5 / 4				Henson (2020)
reaction time	0.198	interval	3.96	4.17	4.17	4.33		4.58	4.77	4.94	5.03	5.24	6.57				12.30	13.68	15.21
		velocity	7.32	8.84	8.39	8.39	8.08		7.64	7.34	7.09	6.96	6.68	6.09	7.42		8.54	7.68	6.90
H1 lead leg	L	strides	23	14	14	14	14		15	16	16	16	17	21	180				
Tate, Cassandra (USA) (1990)	0.224	no information available												54.91	7 / 5				
Cockrell, Anna (USA) (1997)	0.204	no information available												56.14	2 / 6				
Seymour, Kiah (USA) (1994)	0.207	no information available												56.24	8 / 7				
Bookman, Deonca (USA) (1990)	0.270	no information available												57.37	1 / 8				

2019 Müller Anniversary Games (London, GBR) (TV Analysis)

Henson (2020) - Athlete First: 2019 year end hurdle report

FINAL

date 21-Jul-19

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Clayton, Rushell (JAM) (1999)	time	6.52	10.70	15.00	19.40	23.92		28.64	33.48	38.40	43.36	48.36		54.16	4 / 1				
reaction time	0.165	interval	4.18	4.30	4.40	4.52		4.72	4.84	4.92	4.96	5.00	5.80	PB			12.88	14.08	14.88
		velocity	6.90	8.37	8.14	7.95	7.74		7.42	7.23	7.11	7.06	7.00	6.90	7.39		8.15	7.46	7.06
H1 lead leg	L	strides	23	15	15	15	15		15	16	16	16	16	19.5	181.5				
Hejnová, Zuzana (CZE) (1986)	time	6.60	10.88	15.24	19.68	24.20		28.80	33.48	38.28	43.24	48.28		54.33	5 / 2				

reaction time	0.150	interval	4.28	4.36	4.44	4.52	4.60	4.68	4.80	4.96	5.04	6.05		13.08	13.80	14.80	
		velocity	6.82	8.18	8.03	7.88	7.74	7.61	7.48	7.29	7.06	6.94	6.61	7.36	8.03	7.61	7.09
H1 lead leg	R	strides	22	15	15	15	15	15	15	16	16	16	20	180			
Belle, Tia Adana (BAR) (1996)	time	6.44	10.64	14.88	19.28	23.84	28.48	33.32	38.28	43.36	48.56		54.54	7 / 3			
reaction time	0.152	interval	4.20	4.24	4.40	4.56	4.64	4.84	4.96	5.08	5.20	5.98		12.84	14.04	15.24	
		velocity	6.99	8.33	8.25	7.95	7.68	7.54	7.23	7.06	6.89	6.73	6.69	7.33	8.18	7.48	6.89
H1 lead leg	L	strides	23	15	15	15	15	15	16	16	16	16	19.7	181.7			
Ryzhykova, Anna (UKR) (1991)	time	6.60	10.80	15.04	19.40	23.92	28.60	33.40	38.32	43.40	48.56		54.64	2 / 4			
reaction time	0.158	interval	4.20	4.24	4.36	4.52	4.68	4.80	4.92	5.08	5.16	6.08		12.80	14.00	15.16	
		velocity	6.82	8.33	8.25	8.03	7.74	7.48	7.29	7.11	6.89	6.78	6.58	7.32	8.20	7.50	6.93
H1 lead leg	R	strides	22	14	14	14	15	15	15	15	16	16	19.5	174.5			
Russell, Janieve (JAM) (1993)	time	6.52	10.72	15.12	19.64	24.16	28.84	33.52	38.44	43.48	48.76		55.14	6 / 5			
reaction time	0.162	interval	4.20	4.40	4.52	4.52	4.68	4.68	4.92	5.04	5.28	6.38		13.12	13.88	15.24	
		velocity	6.90	8.33	7.95	7.74	7.74	7.48	7.48	7.11	6.94	6.63	6.27	7.25	8.00	7.56	6.89
H1 lead leg	R	strides	22	15	15	15	15	15	15	16	16	17	20.2	181.2			
Beesley, Meghan (GBR) (1986)	time	6.44	10.64	15.00	19.40	23.92	28.60	33.44	38.48	43.80	49.12		55.20	8 / 6			
reaction time	0.152	interval	4.20	4.36	4.40	4.52	4.68	4.84	5.04	5.32	5.32	6.08		12.96	14.04	15.68	
		velocity	6.99	8.33	8.03	7.95	7.74	7.48	7.23	6.94	6.58	6.58	6.58	7.25	8.10	7.48	6.70
H1 lead leg	R	strides	24	16	16	16	16	17	17	18	18	22.5	180.5				
Watson, Sage (CAN) (1994)	time	6.40	10.56	14.80	19.12	23.52	28.20	33.08	38.20	43.60	49.12		55.32	9 / 7			
reaction time	0.180	interval	4.16	4.24	4.32	4.40	4.68	4.88	5.12	5.40	5.52	6.20		12.72	13.96	16.04	
		velocity	7.03	8.41	8.25	8.10	7.95	7.48	7.17	6.84	6.48	6.34	6.45	7.23	8.25	7.52	6.55
H1 lead leg	R	strides	22	15	15	15	15	16	16	17	17	20	168				
Nel, Wenda (RSA) (1988)	time	6.60	10.96	15.44	20.04	24.68	29.36	34.28	39.28	44.48	50.04		56.39	1 / 8			
reaction time	0.175	interval	4.36	4.48	4.60	4.64	4.68	4.92	5.00	5.20	5.56	6.35		13.44	14.24	15.76	
		velocity	6.82	8.03	7.81	7.61	7.54	7.48	7.11	7.00	6.73	6.29	6.30	7.09	7.81	7.37	6.66
H1 lead leg	L	strides	23	16	16	16	16	17	17	17	18	18	156				

2019 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)

FINAL

date 12-Jul-19

Henson (2020) - Athlete First: 2019 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin, Sydney (USA)	time	6.26	10.44	14.74	19.08	23.54	25.4	28.06	32.68	37.60	42.58	47.68		53.32	4 / 1				
reaction time	0.151	interval	4.18	4.30	4.34	4.46		4.52	4.62	4.92	4.98	5.10	5.64				12.82	13.60	15.00
		velocity	7.19	8.37	8.14	8.06	7.85	7.87	7.74	7.58	7.11	7.03	6.86	7.09	7.50		8.19	7.72	7.00
H1 lead leg	R	strides	23	15	15	15	15	15	15	15	16	16	16	18.5	179.5				
Spencer, Ashley (USA) (1993)	time	6.42	10.68	15.06	19.52	24.06	26.1		33.32	38.16	43.34	48.50		54.46	3 / 2				
reaction time	0.152	interval	4.26	4.38	4.46	4.54		9.26	4.84	5.18	5.16	5.96					13.10	13.80	15.18
		velocity	7.01	8.22	7.99	7.85	7.71	7.66	7.56	7.23	6.76	6.78	6.71	7.34			8.02	7.61	6.92
H1 lead leg	L	strides	22	15	15	15	15		15	16	16	16	18.5	147.5					
Hejnová, Zuzana (CZE) (1986)	time	6.58	10.86	15.14	19.50	23.98	25.9	28.58	33.34	38.28	43.34	48.46		54.55	6 / 3				
reaction time	0.162	interval	4.28	4.28	4.36	4.48		4.60	4.76	4.94	5.06	5.12	6.09				12.92	13.84	15.12
		velocity	6.84	8.18	8.18	8.03	7.81	7.72	7.61	7.35	7.09	6.92	6.84	6.57	7.33		8.13	7.59	6.94
H1 lead leg	R	strides	22	15	15	15	15	15	15	15	16	16	20.2	180.2					
Russell, Janieve (JAM) (1993)	time	6.40	10.68	15.08	19.60	24.20	26.2		33.54	38.44	43.48	48.64		54.70	5 / 4				
reaction time	0.150	interval	4.28	4.40	4.52	4.60		9.34	4.90	5.04	5.16	6.06					13.20	13.94	15.10
		velocity	7.03	8.18	7.95	7.74	7.63	7.49	7.14	6.94	6.78	6.60	7.31				7.95	7.53	6.95
H1 lead leg	R	strides	22	15	15	15	15		16	16	16	20	150						
Clayton, Rushell (JAM) (1991)	time	6.48	10.56	14.80	19.20	23.52	25.6		33.24	38.32	43.56	48.84		54.82	1 / 5				
reaction time	0.183	interval	4.08	4.24	4.40			14.04	5.08	5.24	5.28	5.98					12.72	14.04	15.60
		velocity	6.94	8.58	8.25	7.95	7.81	7.48	6.89	6.68	6.63	6.69	7.30				8.25	7.48	6.73
H1 lead leg	L	strides	22	15	15	15		16	17	17	19.5	136.5							
Sprunger, Leá (SUI) (1990)	time	6.44	10.72	15.08	19.48	24.04	26.0		33.76	38.88	44.24	49.60		55.60	2 / 6				
reaction time	0.143	interval	4.28	4.36	4.40	4.56		9.72	5.12	5.36	5.36	6.00					13.04	14.28	15.84
		velocity	6.99	8.18	8.03	7.95	7.69	7.20	6.84	6.53	6.53	6.67	7.19				8.05	7.35	6.63
H1 lead leg	R	strides	21	14	14	14	14		15	16	16	18.7	142.7						
Carter, Kori (USA) (1992)	time	6.28	10.48	14.80	19.16	23.72	25.7		33.44	38.56	43.80	49.20		55.63	7 / 7				
reaction time	0.140	interval	4.20	4.32	4.36	4.56		9.72	5.12	5.24	5.40	6.43					12.88	14.28	15.76
		velocity	7.17	8.33	8.10	8.03	7.68	7.78	7.20	6.84	6.68	6.48	6.22	7.19			8.15	7.35	6.66
H1 lead leg	L	strides	23	15	15	15	15		17	17	17	20.2	154.2						
Ryzhykova, Anna (UKR) (1991)	time	6.56	10.80	15.10	19.52	23.92	26.3	29.04	34.08	39.16	44.36	49.64		55.65	8 / 8				
reaction time	0.170	interval	4.24	4.30	4.42		9.52	5.04	5.08	5.20	5.28	6.01					12.96	14.56	15.56
		velocity	6.86	8.25	8.14	7.92	7.60	7.35	6.94	6.89	6.73	6.63	6.66	7.19			8.10	7.21	6.75
H1 lead leg	R	strides	22	14	14	14		15	15	15	16	125							

2019 Chinese National Championships (Shenyang, CHN)

FINAL

date 10-Jul-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Mo Jiadie (CHN) (2000)	time	6.61	10.89	15.28	19.87	24.55		29.46	34.47	39.59	44.93	50.61		56.70	3 / 1				
	reaction time	0.293	interval	4.28	4.39	4.59	4.68	4.91	5.01	5.12	5.34	5.68	6.09	PB		13.26	14.60	16.14	
		velocity	6.81	8.18	7.97	7.63	7.48		7.13	6.99	6.84	6.55	6.16	6.57	7.05		7.92	7.19	6.51
	H1 lead leg	L	strides	24	16	16	16	16	17	17	17	18	18	21.5	196.5				
Zhou Yu (CHN) (1999)	time	6.72	11.14	15.80	20.53	25.39		30.30	35.35	40.52	46.00	51.60		58.04	5 / 2				
	reaction time	0.210	interval	4.42	4.66	4.73	4.86	4.91	5.05	5.17	5.48	5.60	6.44	PB		13.81	14.82	16.25	
		velocity	6.70	7.92	7.51	7.40	7.20		7.13	6.93	6.77	6.39	6.25	6.21	6.89		7.60	7.09	6.46
	H1 lead leg	L	strides	24	16	16	16	16	16	17	17	18	18	22.2	196.2				
Huang Yan (CHN) (1996)	time	6.77	11.26	15.83	20.45	25.21		30.08	35.05	40.32	45.88	51.53		58.11	4 / 3				
	reaction time	0.199	interval	4.49	4.57	4.62	4.76	4.87	4.97	5.27	5.56	5.65	6.58			13.68	14.60	16.48	
		velocity	6.65	7.80	7.66	7.58	7.35		7.19	7.04	6.64	6.29	6.19	6.08	6.88		7.68	7.19	6.37
	H1 lead leg	L	strides	24	17	17	17	17	17	17	18	19	19	23.2	205.2				
Lan Tianlu (CHN) (1999)	time	6.87	11.47	16.10	20.73	25.52		30.56	35.67	40.97	46.41	52.23		58.79	6 / 4				
	reaction time	0.203	interval	4.60	4.63	4.63	4.79	5.04	5.11	5.30	5.44	5.82	6.56	PB		13.86	14.94	16.56	
		velocity	6.55	7.61	7.56	7.56	7.31		6.94	6.85	6.60	6.43	6.01	6.10	6.80		7.58	7.03	6.34
	H1 lead leg	L	strides	23	16	16	16	16	17	17	17	17	18	21.7	194.7				
Wu Fangfang (CHN) (1997)	time	6.92	11.51	16.15	20.90	25.72		30.78	35.98	41.34	46.79	52.45		58.84	1 / 5				
	reaction time	0.225	interval	4.59	4.64	4.75	4.82	5.06	5.20	5.36	5.45	5.66	6.39	PB		13.98	15.08	16.47	
		velocity	6.50	7.63	7.54	7.37	7.26		6.92	6.73	6.53	6.42	6.18	6.26	6.80		7.51	6.96	6.38
	H1 lead leg	L	strides	24	16	16	16	16	17	17	17	17	17	22	195				
Lu Zhangwei (CHN) (2001)	time	6.84	11.24	15.85	20.58	25.44		30.48	35.67	41.02	46.70	52.48		59.05	2 / 6				
	reaction time	0.273	interval	4.40	4.61	4.73	4.86	5.04	5.19	5.35	5.68	5.78	6.57	PB		13.74	15.09	16.81	
		velocity	6.58	7.95	7.59	7.40	7.20		6.94	6.74	6.54	6.16	6.06	6.09	6.77		7.64	6.96	6.25
	H1 lead leg	R	strides	24	17	17	17	17	17	17	17	18	18	22.5	201.5				
Ou Ying (CHN) (2001)	time	6.94	11.52	16.18	20.94	25.89		31.06	36.37	41.77	47.26	52.93		59.30	7 / 7				
	reaction time	0.245	interval	4.58	4.66	4.76	4.95	5.17	5.31	5.40	5.49	5.67	6.37			14.00	15.43	16.56	
		velocity	6.48	7.64	7.51	7.35	7.07		6.77	6.59	6.48	6.38	6.17	6.28	6.75		7.50	6.80	6.34
	H1 lead leg	L	strides	24	17	17	17	17	17	17	17	17	18	21.2	199.2				
Liu Xin (CHN) (1992)	time	7.20	11.86	16.82	21.95	27.32		33.01	38.72	44.56				64.88	8 / 8				
	reaction time	0.428	interval	4.66	4.96	5.13	5.37	5.69	5.71	5.84						14.75	16.77		
		velocity	6.25	7.51	7.06	6.82	6.52		6.15	6.13	5.99				6.17		7.12	6.26	
	H1 lead leg	L	strides	25	17	17	17	18	18	19	19			150					

Heat 3

date 09-Jul-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Mo Jiadie (CHN) (2000)	time	6.70	11.18	15.71	20.42	25.21		30.23	35.42	40.81	46.51	52.27		58.75	4 / 1				
	reaction time	0.295	interval	4.48	4.53	4.71	4.79	5.02	5.19	5.39	5.70	5.76	6.48			13.72	15.00	16.85	
		velocity	6.72	7.81	7.73	7.43	7.31		6.97	6.74	6.49	6.14	6.08	6.17	6.81		7.65	7.00	6.23
	H1 lead leg	L	strides	24	16	16	16	16	17	17	17	18	18	21.2	196.2				
Ou Ying (CHN) (2001)	time	7.19	11.86	16.65	21.52	26.57		31.80	37.03	42.34	47.81	53.40		59.61	8 / 2				
	reaction time	0.299	interval	4.67	4.79	4.87	5.05	5.23	5.23	5.31	5.47	5.59	6.21			14.33	15.51	16.37	
		velocity	6.26	7.49	7.31	7.19	6.93		6.69	6.69	6.59	6.40	6.26	6.44	6.71		7.33	6.77	6.41
	H1 lead leg	L	strides	24	17	17	17	17	17	17	17	17	18	21.2	199.2				
Wu Fangfang (CHN) (1997)	time	6.99	11.71	16.41	21.28	26.24		31.40	36.62	41.94	47.64	53.13		59.64	5 / 3				
	reaction time	0.226	interval	4.72	4.70	4.87	4.96	5.16	5.22	5.32	5.70	5.49	6.51			14.29	15.34	16.51	
		velocity	6.44	7.42	7.45	7.19	7.06		6.78	6.70	6.58	6.14	6.38	6.14	6.71		7.35	6.84	6.36
	H1 lead leg	L	strides	24	16	16	16	16	17	17	17	17	17	21.5	194.5				
Lu Zhangwei (CHN) (2001)	time	6.90	11.39	15.96	20.75	25.67		30.81	36.15	41.50	47.17	53.13		60.11	6 / 4				
	reaction time	0.244	interval	4.49	4.57	4.79	4.92	5.14	5.34	5.35	5.67	5.96	6.98			13.85	15.40	16.98	
		velocity	6.52	7.80	7.66	7.31	7.11		6.81	6.55	6.54	6.17	5.87	5.73	6.65		7.58	6.82	6.18
	H1 lead leg	R	strides	24	17	17	17	17	17	17	17	18	19	23	203				
Wang Jiahui (CHN) (2000)	time	6.95	11.64	16.46	21.42	26.52		31.76	37.25	42.92	48.66	54.49		60.97	7 / 5				
	reaction time	0.213	interval	4.69	4.82	4.96	5.10	5.24	5.49	5.67	5.74	5.83	6.48	PB		14.47	15.83	17.24	
		velocity	6.47	7.46	7.26	7.06	6.86		6.68	6.38	6.17	6.10	6.00	6.17	6.56		7.26	6.63	6.09
	H1 lead leg	R	strides	23	17	17	17	17	17	18	18	19	19	22.2	204.2				
Huo Xinghua (CHN) (1996)	time	6.94	11.39	16.08	20.97	26.06		31.50	37.13	43.19	49.60	56.17		64.20	3 / 6				
	reaction time	0.371	interval	4.45	4.69	4.89	5.09	5.44	5.63	6.06	6.41	6.57	8.03			14.03	16.16	19.04	
		velocity	6.48	7.87	7.46	7.16	6.88		6.43	6.22	5.78	5.46	5.33	4.98	6.23		7.48	6.50	5.51
	H1 lead leg	L	strides	23	15	16	16	16	17	17	18	19	19	24	200				

Heat 2

date 09-Jul-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Huang Yan (CHN) (1996)	time	6.85	11.41	16.13	20.89	25.71		30.64	35.92	41.24	46.88	52.65		59.33	4 / 1			
	reaction time	0.225	interval	4.56	4.72	4.76	4.82	4.93	5.28	5.32	5.64	5.77	6.68			14.04	15.03	16.73

	velocity	6.57	7.68	7.42	7.35	7.26	7.10	6.63	6.58	6.21	6.07	5.99	6.74	7.48	6.99	6.28
H1 lead leg	L	strides	24	17	17	17	17	18	18	19	19	23	206			
Lan Tianlu (CHN) (1999)	time	6.90	11.52	16.16	20.99	25.86	30.90	36.03	41.34	46.88	52.68		59.40	7 / 2		
reaction time	0.228	interval	4.62	4.64	4.83	4.87	5.04	5.13	5.31	5.54	5.80	6.72	PB	14.09	15.04	16.65
	velocity	6.52	7.58	7.54	7.25	7.19	6.94	6.82	6.59	6.32	6.03	5.95	6.73	7.45	6.98	6.31
H1 lead leg	L	strides	23	16	16	16	17	17	17	17	18	21.5	194.5			
Jiang Liyunzhe (CHN) (2002)	time	6.79	11.47	16.20	21.20	26.16	31.24	36.42	41.67	47.23	53.08		59.69	6 / 3		
reaction time	0.180	interval	4.68	4.73	5.00	4.96	5.08	5.18	5.25	5.56	5.85	6.61	DQ	14.41	15.22	16.66
	velocity	6.63	7.48	7.40	7.00	7.06	6.89	6.76	6.67	6.29	5.98	6.05	6.70	7.29	6.90	6.30
H1 lead leg	L	strides	24	16	16	16	17	17	17	17	18	20.5	194.5			
Hu Lihong (CHN) (1999)	time	6.94	11.51	16.26	21.05	25.96	31.13	36.33	41.66	47.29	53.35		60.39	5 / 4-3		
reaction time	0.211	interval	4.57	4.75	4.79	4.91	5.17	5.20	5.33	5.63	6.06	7.04		14.11	15.28	17.02
	velocity	6.48	7.66	7.37	7.31	7.13	6.77	6.73	6.57	6.22	5.78	5.68	6.62	7.44	6.87	6.17
H1 lead leg	L	strides	23	16	16	16	17	17	17	17	17	21	193			
Tao Xue (CHN) (1999)	time	7.09	11.73	16.43	21.18	26.07	31.21	36.53	42.03	47.84	53.95		61.55	3 / 5-4		
reaction time	0.286	interval	4.64	4.70	4.75	4.89	5.14	5.32	5.50	5.81	6.11	7.60		14.09	15.35	17.42
	velocity	6.35	7.54	7.45	7.37	7.16	6.81	6.58	6.36	6.02	5.73	5.26	6.50	7.45	6.84	6.03
H1 lead leg	L	strides	23	16	16	16	17	17	17	17	18	22	195			

Heat 1

		date	CAA Hurdle Development (2019)																
		09-Jul-19	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Zhou Yu (CHN) (1999)	time	6.82	11.32	15.98	20.72	25.57	30.53	35.68	41.00	46.56	52.17		58.71	8 / 1					
reaction time	0.239	interval	4.50	4.66	4.74	4.85	4.96	5.15	5.32	5.56	5.61	6.54				13.90	14.96	16.49	
	velocity	6.60	7.78	7.51	7.38	7.22	7.06	6.80	6.58	6.29	6.24	6.12	6.81			7.55	7.02	6.37	
H1 lead leg	L	strides	24	16	16	16	16	16	17	17	18	18	21.5	195.5					
Liu Xin (CHN) (1992)	time	7.19	11.78	16.40	21.12	25.92	30.93	36.07	41.39	46.96	52.75		59.86	7 / 2					
reaction time	0.281	interval	4.59	4.62	4.72	4.80	5.01	5.14	5.32	5.57	5.79	7.11				13.93	14.95	16.68	
	velocity	6.26	7.63	7.58	7.42	7.29	6.99	6.81	6.58	6.28	6.04	5.63	6.68			7.54	7.02	6.29	
H1 lead leg	L	strides	25	17	17	17	18	18	19	19	19	24	210						
Chen Liying (CHN) (1994)	time	6.90	11.48	16.13	20.83	25.66	30.69	35.94	41.41	47.16	53.37		60.26	6 / 3					
reaction time	0.194	interval	4.58	4.65	4.70	4.83	5.03	5.25	5.47	5.75	6.21	6.89	PB			13.93	15.11	17.43	
	velocity	6.52	7.64	7.53	7.45	7.25	6.96	6.67	6.40	6.09	5.64	5.81	6.64			7.54	6.95	6.02	
H1 lead leg	R	strides	24	16	16	16	17	17	17	18	20	22.5	199.5						
Liu Hongjuan (CHN) (1996)	time	6.94	11.58	16.25	21.10	26.04	31.21	36.48	41.89	47.71	53.58		60.57	3 / 4					
reaction time	0.291	interval	4.64	4.67	4.85	4.94	5.17	5.27	5.41	5.82	5.87	6.99				14.16	15.38	17.10	
	velocity	6.48	7.54	7.49	7.22	7.09	6.77	6.64	6.47	6.01	5.96	5.72	6.60			7.42	6.83	6.14	
H1 lead leg	L	strides	23	16	16	16	17	17	17	17	18	18	22.5	196.5					
Zhuang Dongmei (CHN) (20)	time	6.70	11.19	15.78	20.49	25.44	30.76	36.40	42.39	49.03	56.07		64.93	5 / 5					
reaction time	0.250	interval	4.49	4.59	4.71	4.95	5.32	5.64	5.99	6.64	7.04	8.86				13.79	15.91	19.67	
	velocity	6.72	7.80	7.63	7.43	7.07	6.58	6.21	5.84	5.27	4.97	4.51	6.16			7.61	6.60	5.34	
H1 lead leg	L	strides	24	17	17	17	18	18	19	20	20	25.7	212.7						

2019 Athletissima (Lausanne, SUI) (TV Analysis)

FINAL

		date	Henson (2020) - Athlete First: 2019 year end hurdle report																
		05-Jul-19	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Little, Shamier (USA) (1995)	time	6.12	10.24	14.50	18.88	23.32	25.3	27.90	32.74	37.72	42.80	48.00		53.73	5 / 1				
reaction time	0.223	interval	4.12	4.26	4.38	4.44	4.58	4.84	4.98	5.08	5.20	5.73					12.76	13.86	15.26
	velocity	7.35	8.50	8.22	7.99	7.88	7.91	7.64	7.23	7.03	6.89	6.73	6.98	7.44			8.23	7.58	6.88
H1 lead leg	L	strides	23	15	15	15	15	15	16	16	16	17	19.7	182.7					
Hejnová, Zuzana (CZE) (1986)	time	6.54	10.88	15.22	24.14	26.1	28.74	33.36	38.16	43.10	48.16		54.11	4 / 2					
reaction time	0.149	interval	4.34	4.34	8.92	7.66	4.60	4.62	4.80	4.94	5.06	5.95							14.80
	velocity	6.88	8.06	8.06	7.85	7.61	7.58	7.29	7.09	6.92	6.72	7.39							7.09
H1 lead leg	R	strides	22	15	15	15	15	15	16	16	16	19.7	149.7						
Spencer, Ashley (USA) (1993)	time	6.44	10.62	14.90	23.94	25.9	28.60	33.22	38.00	42.96	48.24		54.11	3 / 3					
reaction time	0.146	interval	4.18	4.28	9.04	7.72	4.66	4.62	4.78	4.96	5.28	5.87							15.02
	velocity	6.99	8.37	8.18	7.74	7.51	7.58	7.32	7.06	6.63	6.81	7.39							6.99
H1 lead leg	L	strides	22	14	14	14	15	15	15	15	16	19	145						
Russell, Janieve (JAM) (1993)	time	6.56	10.80	15.20	24.20	26.1	28.88	33.60	38.44	43.64	49.04		55.13	2 / 4					
reaction time	0.150	interval	4.24	4.40	9.00	7.66	4.68	4.72	4.84	5.20	5.40	6.09							15.44
	velocity	6.86	8.25	7.95	7.78	7.66	7.48	7.42	7.23	6.73	6.48	6.57	7.26						6.80
H1 lead leg	R	strides	22	15	15	15	15	15	15	17	17	19.5	150.5						
Sprunger, Leá (SUI) (1990)	time	6.44	10.64	14.96	19.44	24.00	26.0	28.80	33.68	38.68	43.96	49.32		55.24	7 / 5				
reaction time	0.125	interval	4.20	4.32	4.48	4.56	4.80	4.88	5.00	5.28	5.36	5.92					13.00	14.24	15.64
	velocity	6.99	8.33	8.10	7.81	7.68	7.69	7.29	7.17	7.00	6.63	6.53	6.76	7.24			8.08	7.37	6.71
H1 lead leg	R	strides	21	14	14	14	15	15	15	15	16	16	154						

luel, Amalie (NOR) (1994)	time	6.44	10.64	14.92	19.40	24.04	26.1	28.84	33.72	38.72	44.08	49.36		55.48	8 / 6			
reaction time	0.156	interval	4.20	4.28	4.48	4.64		4.80	4.88	5.00	5.36	5.28	6.12			12.96	14.32	15.64
		velocity	6.99	8.33	8.18	7.81	7.54	7.66	7.29	7.17	7.00	6.53	6.63	6.54	7.21	8.10	7.33	6.71
H1 lead leg	L	strides	23	15	15	15	15		15	15	15	16	16		160			
Carter, Kori (USA) (1992)	time	6.36	10.56	14.84	19.20	23.72	25.8	28.60	33.52	38.68	43.96	49.28		55.55	6 / 7			
reaction time	0.129	interval	4.20	4.28	4.36	4.52		4.88	4.92	5.16	5.28	5.32	6.27			12.84	14.32	15.76
		velocity	7.08	8.33	8.18	8.03	7.74	7.75	7.17	7.11	6.78	6.63	6.58	6.38	7.20	8.18	7.33	6.66
H1 lead leg	L	strides	23	15	15	15	15		16	16	16	17	17		165			
Tate, Cassandra (USA) (1990)	time	6.36	10.40	14.76		23.72	25.7	28.60	33.56	38.76	44.24	50.00		56.90	1 / 8			
reaction time	0.201	interval	4.04	4.36		8.96		4.88	4.96	5.20	5.48	5.76	6.90					16.44
		velocity	7.08	8.66	8.03		7.81	7.78	7.17	7.06	6.73	6.39	6.08	5.80	7.03			6.39
H1 lead leg	R	strides	22	14	15			16	15	16	17	17		132				

2019 Japanese National Championships (Fukuoka, JPN)

FINAL

date 30-Jun-19

Yamanaka (2019) - research on athlete performance and technique- 2019 data book

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-in	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ito, Akiko (JPN) (1995)	time	6.47	10.73	15.17	19.74	24.44		29.28	34.28	39.51	44.91	50.52		57.09	4 / 1			
reaction time	0.151	interval	4.26	4.44	4.57	4.70		4.84	5.00	5.23	5.40	5.61	6.57	PB		13.27	14.54	16.24
		velocity	6.96	8.22	7.88	7.66	7.45	7.23	7.00	6.69	6.48	6.24	6.09	7.01		7.91	7.22	6.47
H1 lead leg	L	strides	23	15	15	15	16	16	16	17	17	17	21.2	188.2				
Koyama, Kana (JPN) (1998)	time	6.77	11.16	15.65	20.32	25.18		30.03	35.14	40.44	45.85	51.40		57.61	6 / 2			
reaction time	0.172	interval	4.39	4.49	4.67	4.86		4.85	5.11	5.30	5.41	5.55	6.21			13.55	14.82	16.26
		velocity	6.65	7.97	7.80	7.49	7.20	7.22	6.85	6.60	6.47	6.31	6.44	6.94		7.75	7.09	6.46
H1 lead leg	L	strides	22	15	15	15	16	16	17	17	17	17	20.7	187.7				
Sekimoto, Moeka (JPN) (2000)	time	6.75	11.11	15.55	20.15	24.84		29.70	34.65	39.81	45.18	50.88		57.73	5 / 3			
reaction time	0.182	interval	4.36	4.44	4.60	4.69		4.86	4.95	5.16	5.37	5.70	6.85	PB		13.40	14.50	16.23
		velocity	6.67	8.03	7.88	7.61	7.46	7.20	7.07	6.78	6.52	6.14	5.84	6.93		7.84	7.24	6.47
H1 lead leg	R	strides	22	15	15	15	15	16	16	17	17	17	22	187				
Shibata, Haruka (JPN) (1991)	time	6.72	11.19	15.83	20.57	25.43		30.45	35.60	40.86	46.28	51.82		58.18	3 / 4			
reaction time	0.174	interval	4.47	4.64	4.74	4.86		5.02	5.15	5.26	5.42	5.54	6.36			13.85	15.03	16.22
		velocity	6.70	7.83	7.54	7.38	7.20	6.97	6.80	6.65	6.46	6.32	6.29	6.88		7.58	6.99	6.47
H1 lead leg	L	strides	24	16	16	16	16	16	17	17	17	17	21.2	193.2				
Oshiden, Moe (JPN) (1993)	time	6.77	11.24	15.90	20.67	25.53		30.53	35.64	40.91	46.40	52.07		58.60	2 / 5			
reaction time	0.151	interval	4.47	4.66	4.77	4.86		5.00	5.11	5.27	5.49	5.67	6.53			13.90	14.97	16.43
		velocity	6.65	7.83	7.51	7.34	7.20	7.00	6.85	6.64	6.38	6.17	6.13	6.83		7.55	7.01	6.39
H1 lead leg	R	strides	23	16	16	16	16	17	17	17	17	17	21.7	193.7				
Takeishi, Konomi (JPN) (1999)	time	6.66	11.14	15.88	20.82	25.81		30.90	36.30	41.86	47.28	52.69		58.76	8 / 6			
reaction time	0.148	interval	4.48	4.74	4.94	4.99		5.09	5.40	5.56	5.42	5.41	6.07			14.16	15.48	16.39
		velocity	6.76	7.81	7.38	7.09	7.01	6.88	6.48	6.29	6.46	6.47	6.59	6.81		7.42	6.78	6.41
H1 lead leg	R	strides	23	15	15	16	16	16	17	18	17	17		170				
Ibrahimu, Aisya (JPN) (1998)	time	6.76	11.19	15.80	20.49	25.31		30.35	35.57	41.09	46.98	52.90		59.43	9 / 7			
reaction time	0.231	interval	4.43	4.61	4.69	4.82		5.04	5.22	5.52	5.89	5.92	6.53			13.73	15.08	17.33
		velocity	6.66	7.90	7.59	7.46	7.26	6.94	6.70	6.34	5.94	5.91	6.13	6.73		7.65	6.96	6.06
H1 lead leg	R	strides	22	15	15	15	15	15	15	16	17	16		161				

2019 Bislett Games (Oslo, NOR) (TV Analysis)

FINAL

date 13-Jun-19

Henson (2020) - Athlete First: 2019 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-in	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin, Sydney (USA) (1995)	time	6.36	10.64	14.96		23.76	25.6	28.30	33.00	38.02	43.14	48.38		54.16	4 / 1			
reaction time	0.213	interval	4.28	4.32		8.80		4.54	4.70	5.02	5.12	5.24	5.78					15.38
		velocity	7.08	8.18	8.10	7.95	7.81	7.71	7.45	6.97	6.84	6.68	6.92	7.39				6.83
H1 lead leg	R	strides	23	15	15			15	15	16	16	16	19	150				
Muhammad, Dalilah (USA) (1995)	time	6.10	10.04	14.20	18.58	23.12	25.0	27.72	32.40	37.28	42.44	47.88		54.35	5 / 2			
reaction time	0.205	interval	3.94	4.16	4.38	4.54		4.60	4.68	4.88	5.16	5.44	6.47			12.48	13.82	15.48
		velocity	7.38	8.88	8.41	7.99	7.71	8.00	7.61	7.48	7.17	6.78	6.43	6.18	7.36	8.41	7.60	6.78
H1 lead leg	R	strides	23	15	15	15	15	15	15	15	16	17	20.5	181.5				
Little, Shamier (USA) (1995)	time	6.32	10.42	14.62	18.88	23.38	25.3	28.06	32.90	37.86	43.10	48.50		54.92	6 / 3			
reaction time	0.273	interval	4.10	4.20	4.26	4.50		4.68	4.84	4.96	5.24	5.40	6.42			12.56	14.02	15.60
		velocity	7.12	8.54	8.33	8.22	7.78	7.91	7.48	7.23	7.06	6.68	6.48	6.23	7.28	8.36	7.49	6.73
H1 lead leg	R	strides	24	15	15	15	15	16	16	16	17	17	20	186				
Carter, Kori (USA) (1992)	time	6.24	10.28	14.40		23.08	25.0	27.76	32.80	38.00	43.44	49.12		55.67	3 / 4			
reaction time	0.137	interval	4.04	4.12		8.68		4.68	5.04	5.20	5.44	5.68	6.55					16.32
		velocity	7.21	8.66	8.50	8.06	8.00	7.48	6.94	6.73	6.43	6.16	6.11	7.19				6.43
H1 lead leg	L	strides	23	15	15			16	17	17	18	18	20.7	159.7				
luel, Amalie (NOR) (1994)	time	6.36	10.52	14.84	19.24	23.88	25.9	28.68	33.72	38.72	44.04	49.48		55.80	8 / 5			
reaction time	0.169	interval	4.16	4.32	4.40	4.64		4.80	5.04	5.00	5.32	5.44	6.32			12.88	14.48	15.76

	velocity	7.08	8.41	8.10	7.95	7.54	7.72	7.29	6.94	7.00	6.58	6.43	6.33	7.17	8.15	7.25	6.66
H1 lead leg	L	strides	23	15	15	15	15	15	16	16	16	16	19.2	181.2			
Ryzhykova, Anna (UKR) (1991)	time	6.52	10.72	14.96		24.20	26.2	29.04	34.04	39.04	44.28	49.80		56.26	2 / 6		
reaction time	0.178	interval	4.20	4.24		9.24		4.84	5.00	5.00	5.24	5.52	6.46				15.76
	velocity	6.90	8.33	8.25		7.58	7.63	7.23	7.00	7.00	6.68	6.34	6.19	7.11			6.66
H1 lead leg	R	strides	22	14	14			15	15	15	15	16	21	147			
Sprunger, Leá (SUI) (1990)	time	6.40	10.64	15.04	19.44	24.08	26.1	28.92	33.96	39.08	44.48	50.16		56.46	7 / 7		
reaction time	0.179	interval	4.24	4.40	4.40	4.64		4.84	5.04	5.12	5.40	5.68	6.30		13.04	14.52	16.20
	velocity	7.03	8.25	7.95	7.95	7.54	7.66	7.23	6.94	6.84	6.48	6.16	6.35	7.08	8.05	7.23	6.48
H1 lead leg	R	strides	21	14	14	14		15	15	15	16	16	19.2	173.2			
Beesley, Meghan (GBR) (1996)	time	6.40	10.64	15.00		24.16	26.1	28.80	33.96	39.12	44.64	50.36		57.13	1 / 8		
reaction time	0.166	interval	4.24	4.36		9.16		4.64	5.16	5.16	5.52	5.72	6.77				16.40
	velocity	7.03	8.25	8.03		7.64	7.66	7.54	6.78	6.78	6.34	6.12	5.91	7.00			6.40
H1 lead leg	R	strides	24	16	16			16	17	17	18	19	23.5	166.5			

2019 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)

FINAL

date 06-Jun-19

Henson (2020) - Athlete First: 2019 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Muhammad, Dalilah (USA) (1991)	time	6.24	10.26	14.58	19.10	23.76		28.40	33.00	37.68	42.58	47.70		53.67	5 / 1			
reaction time	0.147	interval	4.02	4.32	4.52	4.66		4.64	4.60	4.68	4.90	5.12	5.97			12.86	13.90	14.70
	velocity	7.21	8.71	8.10	7.74	7.51		7.54	7.61	7.48	7.14	6.84	6.70	7.45		8.16	7.55	7.14
H1 lead leg	R	strides	23	15	15	15		15	15	15	15	16	19.5	178.5				
Little, Shamier (USA) (1995)	time	6.28	10.44	14.72	19.12	23.64		28.32	33.08	38.04	43.12	48.30		54.40	4 / 2			
reaction time	0.215	interval	4.16	4.28	4.40	4.52		4.68	4.76	4.96	5.08	5.18	6.10			12.84	13.96	15.22
	velocity	7.17	8.41	8.18	7.95	7.74		7.48	7.35	7.06	6.89	6.76	6.56	7.35		8.18	7.52	6.90
H1 lead leg	R	strides	24	15	15	15		16	16	16	16	16	20	184				
Hejnová, Zuzana (CZE) (1986)	time	6.66	10.96	15.34	19.80	24.40		29.04	33.74	38.58	43.62	48.78		54.82	7 / 3			
reaction time	0.162	interval	4.30	4.38	4.46	4.60		4.64	4.70	4.84	5.04	5.16	6.04			13.14	13.94	15.04
	velocity	6.76	8.14	7.99	7.85	7.61		7.54	7.45	7.23	6.94	6.78	6.62	7.30		7.99	7.53	6.98
H1 lead leg	R	strides	22	15	15	15		15	15	16	16	16	20	180				
Carter, Kori (USA) (1992)	time	6.32	10.36	14.60	18.92	23.44		28.12	33.00	38.08	43.20	48.56		55.09	2 / 4			
reaction time	0.153	interval	4.04	4.24	4.32	4.52		4.68	4.88	5.08	5.12	5.36	6.53			12.60	14.08	15.56
	velocity	7.12	8.66	8.25	8.10	7.74		7.48	7.17	6.89	6.84	6.53	6.13	7.26		8.33	7.46	6.75
H1 lead leg	L	strides	23	15	16	16		16	16	17	17	18	21	191				
Russell, Janieve (JAM) (1993)	time	6.64	10.88	15.20	19.56	24.08		28.84	33.68	38.68	43.88	49.20		55.42	3 / 5			
reaction time	0.173	interval	4.24	4.32	4.36	4.52		4.76	4.84	5.00	5.20	5.32	6.22			12.92	14.12	15.52
	velocity	6.78	8.25	8.10	8.03	7.74		7.35	7.23	7.00	6.73	6.58	6.43	7.22		8.13	7.44	6.77
H1 lead leg	L	strides	23	15	15	15		16	16	16	17	17	20	185				
Ryzhykova, Anna (UKR) (1991)	time	6.44	10.64	14.92	19.40	24.08		28.96	33.84	38.80	44.00	49.40		55.64	8 / 6			
reaction time	0.157	interval	4.20	4.28	4.48	4.68		4.88	4.88	4.96	5.20	5.40	6.24			12.96	14.44	15.56
	velocity	6.99	8.33	8.18	7.81	7.48		7.17	7.17	7.06	6.73	6.48	6.41	7.19		8.10	7.27	6.75
H1 lead leg	R	strides	22	14	14	14		15	15	15	15	16	19.5	174.5				
Watson, Sage (CAN) (1994)	time	6.52	10.80	15.20	19.72	24.32		29.00	33.92	38.96	44.20	49.60		55.71	1 / 7			
reaction time	0.171	interval	4.28	4.40	4.52	4.60		4.68	4.92	5.04	5.24	5.40	6.11			13.20	14.20	15.68
	velocity	6.90	8.18	7.95	7.74	7.61		7.48	7.11	6.94	6.68	6.48	6.55	7.18		7.95	7.39	6.70
H1 lead leg	R	strides	22	15	15	15		15	16	16	16	17	19.7	181.7				
Folorunso, Ayomide (IRA) (1991)	time	6.56	10.84	15.20	19.68	24.28		29.04	33.88	38.88	44.04	49.60		55.99	9 / 8			
reaction time	0.194	interval	4.28	4.36	4.48	4.60		4.76	4.84	5.00	5.16	5.56	6.39			13.12	14.20	15.72
	velocity	6.86	8.18	8.03	7.81	7.61		7.35	7.23	7.00	6.78	6.29	6.26	7.14		8.00	7.39	6.68
H1 lead leg	R	strides	23	16	16	16		16	16	17	17	17	21	191				
Sprunger, Leá (SUI) (1990)	time	6.48	10.80	15.20	19.76	24.44		29.32	34.32	39.34	44.72	50.24		56.36	6 / 9			
reaction time	0.143	interval	4.32	4.40	4.56	4.68		4.88	5.00	5.02	5.38	5.52	6.12			13.28	14.56	15.92
	velocity	6.94	8.10	7.95	7.68	7.48		7.17	7.00	6.97	6.51	6.34	6.54	7.10		7.91	7.21	6.60
H1 lead leg	R	strides	21	14	14	14		15	15	15	16	16	19	173				

2019 Chinese National Grand Prix 4 (Luoyang, CHN)

FINAL

date 29-May-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Zhou Yu (CHN) (1999)	time	6.95	11.52	16.14	20.77	25.57		30.54	35.83	41.17	46.74	52.33		58.48	6 / 1			
reaction time		interval	4.57	4.62	4.63	4.80		4.97	5.29	5.34	5.57	5.59	6.15	PB		13.82	15.06	16.50
	velocity	6.47	7.66	7.58	7.56	7.29		7.04	6.62	6.55	6.28	6.26	6.50	6.84		7.60	6.97	6.36
H1 lead leg	L	strides	24	16	16	16		16	17	17	18	18	21.2	195.2				
Ou Ying (CHN) (2001)	time	7.07	11.73	16.48	21.27	26.32		31.56	36.88	42.31	47.88	53.55		59.71	4 / 2			
reaction time		interval	4.66	4.75	4.79	5.05		5.24	5.32	5.43	5.57	5.67	6.16			14.20	15.61	16.67
	velocity	6.36	7.51	7.37	7.31	6.93		6.68	6.58	6.45	6.28	6.17	6.49	6.70		7.39	6.73	6.30
H1 lead leg	L	strides	24	17	17	17		17	17	17	18	18	21	200				

Hu Lihong (CHN) (1999)	time	7.02	11.64	16.35	21.17	26.17	31.33	36.70	42.12	47.86	53.87	60.75	5 / 3				
	reaction time			4.62	4.71	4.82	5.00	5.16	5.37	5.42	5.74	6.01	6.88		14.15	15.53	17.17
	velocity	6.41	7.58	7.43	7.26	7.00	6.78	6.52	6.46	6.10	5.82	5.81	6.58		7.42	6.76	6.12
	H1 lead leg L	strides	23	16	16	16	16	17	17	17	17	17	20.7	192.7			
Chen Liying (CHN) (1994)	time	7.05	11.61	16.28	20.95	25.79	30.88	36.28	42.01	47.86	53.95	60.83	7 / 4				
	reaction time			4.56	4.67	4.67	4.84	5.09	5.40	5.73	5.85	6.09	6.88		13.90	15.33	17.67
	velocity	6.38	7.68	7.49	7.49	7.23	6.88	6.48	6.11	5.98	5.75	5.81	6.58		7.55	6.85	5.94
	H1 lead leg R	strides	24	16	16	16	16	17	17	19	18	19	22	200			
Wu Fangfang (CHN) (1997)	time	7.29	11.99	16.71	21.58	26.59	31.86	37.38	43.06	48.90	55.18	61.76	8 / 5				
	reaction time			4.70	4.72	4.87	5.01	5.27	5.52	5.68	5.84	6.28	6.58		14.29	15.80	17.80
	velocity	6.17	7.45	7.42	7.19	6.99	6.64	6.34	6.16	5.99	5.57	6.08	6.48		7.35	6.65	5.90
	H1 lead leg L	strides	24	16	16	17	16	17	17	17	17	19	21.2	197.2			
Zhuang Dongmei (CHN) (2019)	time	6.82	11.42	16.06	20.82	25.88	31.09	36.57	42.42	48.78	55.30	61.94	2 / 6				
	reaction time			4.60	4.64	4.76	5.06	5.21	5.48	5.85	6.36	6.52	6.64		14.00	15.75	18.73
	velocity	6.60	7.61	7.54	7.35	6.92	6.72	6.39	5.98	5.50	5.37	6.02	6.46		7.50	6.67	5.61
	H1 lead leg L	strides	24	17	17	17	17	17	17	19	20	20	22.2	207.2			
Tao Xue (CHN) (1999)	time	6.92	11.29	15.78	20.40							dnf	1 / --				
	reaction time			4.37	4.49	4.62									13.48		
	velocity	6.50	8.01	7.80	7.58										7.79		
	H1 lead leg L	strides	13	15	15	16							59				

2019 Shimane High School Championships (Izumo, JPN)

FINAL

date 25-May-19

Shimizu (2019) - shimane high school championships 2019 - biomechanics data analysis

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
村上 芽生	time	7.72	12.79	18.24	23.98	29.78		35.70	41.70	47.86	53.88	59.95		66.71	4 / 1				
	reaction time			5.07	5.45	5.74	5.80	5.92	6.00	6.16	6.02	6.07	6.76				16.26	17.72	18.25
	velocity	5.83	6.90	6.42	6.10	6.03		5.91	5.83	5.68	5.81	5.77	5.92	6.00			6.46	5.93	5.75
	H1 lead leg	strides	25	17	17	19	19		19	19	19	19	19	24	216				
Yagura, Yume (JPN)	time	7.72	12.89	18.71	24.78	30.68		36.58	42.49	48.51	54.53	60.68		67.74	3 / 2				
	reaction time			5.17	5.82	6.07	5.90	5.90	5.91	6.02	6.02	6.15	7.06				17.06	17.71	18.19
	velocity	5.83	6.77	6.01	5.77	5.93		5.93	5.92	5.81	5.81	5.69	5.67	5.90			6.15	5.93	5.77
	H1 lead leg	strides	25	17	19	19	19		19	19	19	19	19	23	217				
Fujii, Yui (JPN)	time	7.69	13.04	18.73	24.53	30.32		36.30	42.49	48.96	55.56	62.25		69.45	6 / 3				
	reaction time			5.35	5.69	5.80	5.79	5.98	6.19	6.47	6.60	6.69	7.20				16.84	17.96	19.76
	velocity	5.85	6.54	6.15	6.03	6.04		5.85	5.65	5.41	5.30	5.23	5.56	5.76			6.24	5.85	5.31
	H1 lead leg	strides	26	19	19	19	19		19	19	20	21	21	25	227				
Kanda, Saki (JPN)	time	7.89	13.77	19.84	25.81	31.80		37.85	43.92	50.19	56.48	62.96		70.37	8 / 4				
	reaction time			5.88	6.07	5.97	5.99	6.05	6.07	6.27	6.29	6.48	7.41				17.92	18.11	19.04
	velocity	5.70	5.95	5.77	5.86	5.84		5.79	5.77	5.58	5.56	5.40	5.40	5.68			5.86	5.80	5.51
	H1 lead leg	strides	29	21	21	21	21		21	21	22	22	22	27	248				
Matsui, Natsumi (JPN)	time	7.82	13.27	19.19	25.15	31.12		37.27	43.46	49.92	56.41	63.05		70.51	2 / 5				
	reaction time			5.45	5.92	5.96	5.97	6.15	6.19	6.46	6.49	6.64	7.46				17.33	18.31	19.59
	velocity	5.75	6.42	5.91	5.87	5.86		5.69	5.65	5.42	5.39	5.27	5.36	5.67			6.06	5.73	5.36
	H1 lead leg	strides	25	18	19	19	19		19	19	20	20	21	25	224				
Natsuki, Okuni (JPN)	time	7.77	13.29	19.23	25.23	31.22		37.52	44.02	50.61	57.08	63.60		70.60	7 / 6				
	reaction time			5.52	5.94	6.00	5.99	6.30	6.50	6.59	6.47	6.52	7.00				17.46	18.79	19.58
	velocity	5.79	6.34	5.89	5.83	5.84		5.56	5.38	5.31	5.41	5.37	5.71	5.67			6.01	5.59	5.36
	H1 lead leg	strides	25	17	19	19	19		21	21	21	21	21	25	229				
Fujioka, Shiho (JPN)	time	7.77	13.62	19.56	25.46	31.42		37.75	44.32	50.71	57.25	63.77		70.60	9 / 7				
	reaction time			5.85	5.94	5.90	5.96	6.33	6.57	6.39	6.54	6.52	6.83				17.69	18.86	19.45
	velocity	5.79	5.98	5.89	5.93	5.87		5.53	5.33	5.48	5.35	5.37	5.86	5.67			5.94	5.57	5.40
	H1 lead leg	strides	26	19	19	19	19		21	21	21	21	21	23	230				
元上 一葉	time	7.92	13.36	19.34	25.40	31.48		37.75	44.22	50.83	57.41	64.12		72.10	5 / 8				
	reaction time			5.44	5.98	6.06	6.08	6.27	6.47	6.61	6.58	6.71	7.98				17.48	18.82	19.90
	velocity	5.68	6.43	5.85	5.78	5.76		5.58	5.41	5.30	5.32	5.22	5.01	5.55			6.01	5.58	5.28
	H1 lead leg	strides	27	20	20	20	21		21	21	21	21	21	27	240				

2019 Seiko Golden Grand Prix (Osaka, JPN)

FINAL

date 19-May-19

Hirokawa (2019) - research on athlete performance and technique- 2019 data book

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Muhammad, Dalilah (USA) (1996)	time	6.21	10.23	14.51	18.94	23.47		28.16	32.75	37.49	42.46	47.80		53.88	5 / 1				
	reaction time 0.181			4.02	4.28	4.43	4.53	4.69	4.59	4.74	4.97	5.34	6.08				12.73	13.81	15.05
	velocity	7.25	8.71	8.18	7.90	7.73		7.46	7.63	7.38	7.04	6.55	6.58	7.42			8.25	7.60	6.98
	H1 lead leg R	strides	23	15	15	15	15		15	15	15	16	16	20	180				
Belle, Tia Adana (BAR) (1996)	time	6.51	10.64	14.85	19.24	23.77		28.56	33.60	38.66	43.88	49.23		55.42	6 / 2				

reaction time	0.177	interval	4.13	4.21	4.39	4.53	4.79	5.04	5.06	5.22	5.35	6.19		12.73	14.36	15.63	
		velocity	6.91	8.47	8.31	7.97	7.73	7.31	6.94	6.92	6.70	6.54	6.46	7.22	8.25	7.31	6.72
H1 lead leg	L	strides	23	15	15	15	15	16	16	16	16	20	182				
Tate, Cassandra (USA) (1990)	time	6.34	10.38	14.58	19.17	23.89	28.65	33.52	38.44	43.66	49.18		55.45	8 / 3			
reaction time	0.233	interval	4.04	4.20	4.59	4.72	4.76	4.87	4.92	5.22	5.52	6.27		12.83	14.35	15.66	
		velocity	7.10	8.66	8.33	7.63	7.42	7.35	7.19	7.11	6.70	6.34	6.38	7.21	8.18	7.32	6.70
H1 lead leg	R	strides	22	15	15	15	15	15	15	15	16	16	19.7	178.7			
Linkiewicz, Joanna (POL) (1988)	time	6.56	10.84	15.30	19.81	24.57	29.51	34.52	39.57	44.76	50.07		56.35	7 / 4			
reaction time	0.112	interval	4.28	4.46	4.51	4.76	4.94	5.01	5.05	5.19	5.31	6.28		13.25	14.71	15.55	
		velocity	6.86	8.18	7.85	7.76	7.35	7.09	6.99	6.93	6.74	6.59	6.37	7.10	7.92	7.14	6.75
H1 lead leg	L	strides	24	16	16	16	16	17	17	17	17	21	194				
Utsunomiya, Eri (JPN) (1993)	time	6.52	10.82	15.33	19.87	24.56	29.60	34.70	39.96	45.33	50.83		57.31	9 / 5			
reaction time	0.167	interval	4.30	4.51	4.54	4.69	5.04	5.10	5.26	5.37	5.50	6.48		13.35	14.83	16.13	
		velocity	6.90	8.14	7.76	7.71	7.46	6.94	6.86	6.65	6.52	6.36	6.17	6.98	7.87	7.08	6.51
H1 lead leg	R	strides	23	15	15	15	15	16	16	17	17	17	21.2	187.2			
Koyama, Kana (JPN) (1998)	time	6.67	10.99	15.53	20.29	25.21	30.18	35.25	40.42	45.85	51.32		57.45	3 / 6			
reaction time	0.173	interval	4.32	4.54	4.76	4.92	4.97	5.07	5.17	5.43	5.47	6.13	PB	13.62	14.96	16.07	
		velocity	6.75	8.10	7.71	7.35	7.11	7.04	6.90	6.77	6.45	6.40	6.53	6.96	7.71	7.02	6.53
H1 lead leg	L	strides	22	15	15	15	16	16	17	17	17	17	22	189			
Ito, Akiko (JPN) (1995)	time	6.49	10.79	15.25	19.95	24.82	29.86	34.87	40.14	45.63	51.16		57.61	2 / 7			
reaction time	0.141	interval	4.30	4.46	4.70	4.87	5.04	5.01	5.27	5.49	5.53	6.45	PB	13.46	14.92	16.29	
		velocity	6.93	8.14	7.85	7.45	7.19	6.94	6.99	6.64	6.38	6.33	6.20	6.94	7.80	7.04	6.45
H1 lead leg	L	strides	23	15	15	16	16	16	16	17	17	17	21	189			
Seymour, Katrina (BAH) (1991)	time	6.72	11.23	15.80	20.59	25.51	30.56	35.52	40.56	45.85	51.42		58.04	4 / 8			
reaction time	0.163	interval	4.51	4.57	4.79	4.92	5.05	4.96	5.04	5.29	5.57	6.62		13.87	14.93	15.90	
		velocity	6.70	7.76	7.66	7.31	7.11	6.93	7.06	6.94	6.62	6.28	6.04	6.89	7.57	7.03	6.60
H1 lead leg	R	strides	22	15	15	15	15	16	16	16	16	17	20.2	183.2			
Aoki, Honoka (JPN) (2001)	time	6.74	11.09	15.65	20.35	25.28	30.43	35.62	40.97	46.55	52.17		58.45	1 / 9			
reaction time	0.167	interval	4.35	4.56	4.70	4.93	5.15	5.19	5.35	5.58	5.62	6.28	PB	13.61	15.27	16.55	
		velocity	6.68	8.05	7.68	7.45	7.10	6.80	6.74	6.54	6.27	6.23	6.37	6.84	7.71	6.88	6.34
H1 lead leg	R	strides	23	16	17	17	17	17	17	18	18	19	21	200			

2019 Kinami Memorial (Osaka, JPN)

A FINAL

date 06-May-19

Matsubayashi (2019) - research on athlete performance and technique- 2019 data book

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Utsunomiya, Eri (JPN) (1993)	time	6.52	10.83	15.30	19.90	24.69	29.75	34.82	40.05	45.40	50.79		57.05	7 / 1				
reaction time	interval	4.31	4.47	4.60	4.79		5.06	5.07	5.23	5.35	5.39	6.26			13.38	14.92	15.97	
	velocity	6.90	8.12	7.83	7.61	7.31	6.92	6.90	6.69	6.54	6.49	6.39	7.01		7.85	7.04	6.57	
H1 lead leg	R	strides	23	15	15	15	16	16	17	17	17	21	187					
Koyama, Kana (JPN) (1998)	time	6.76	11.11	15.57	20.24	25.14	30.11	35.09	40.22	45.62	51.20		57.77	3 / 2				
reaction time	interval	4.35	4.46	4.67	4.90		4.97	4.98	5.13	5.40	5.58	6.57	PB		13.48	14.85	16.11	
	velocity	6.66	8.05	7.85	7.49	7.14	7.04	7.03	6.82	6.48	6.27	6.09	6.92		7.79	7.07	6.52	
H1 lead leg		strides	15	15	15	16	16	17	17	17	17	21.5	166.5					
Sekimoto, Moeka (JPN) (2001)	time	6.72	11.21	15.72	20.32	25.11	30.04	35.04	40.26	45.74	51.53		58.40	6 / 3				
reaction time	interval	4.49	4.51	4.60	4.79		4.93	5.00	5.22	5.48	5.79	6.87	PB		13.60	14.72	16.49	
	velocity	6.70	7.80	7.76	7.61	7.31	7.10	7.00	6.70	6.39	6.04	5.82	6.85		7.72	7.13	6.37	
H1 lead leg	R	strides	22	15	15	15	16	16	17	17	17	22	187					
Oshiden, Moe (JPN) (1993)	time	6.87	11.44	16.20	20.95	25.96	31.08	36.32	41.57	46.96	52.45		58.88	2 / 4				
reaction time	interval	4.57	4.76	4.75	5.01		5.12	5.24	5.25	5.39	5.49	6.43			14.08	15.37	16.13	
	velocity	6.55	7.66	7.35	7.37	6.99	6.84	6.68	6.67	6.49	6.38	6.22	6.79		7.46	6.83	6.51	
H1 lead leg		strides	16	16	16	16	17	17	17	17	17	21	170					
Higa, Kazuki (JPN) (1998)	time	6.97	11.53	16.22	20.99	25.88	30.91	36.04	41.32	46.78	52.43		59.03	5 / 5				
reaction time	interval	4.56	4.69	4.77	4.89		5.03	5.13	5.28	5.46	5.65	6.60			14.02	15.05	16.39	
	velocity	6.46	7.68	7.46	7.34	7.16	6.96	6.82	6.63	6.41	6.19	6.06	6.78		7.49	6.98	6.41	
H1 lead leg	L	strides	24	16	16	16	17	17	17	17	17	21.7	194.7					

B FINAL

date 06-May-19

Matsubayashi (2019) - research on athlete performance and technique- 2019 data book

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ibrahimu, Aisya (JPN) (1998)	time	6.71	11.13	15.72	20.35	25.19	30.18	35.35	40.57	46.08	51.69		58.09	9 / 1				
reaction time	interval	4.42	4.59	4.63	4.84		4.99	5.17	5.22	5.51	5.61	6.40	PB		13.64	15.00	16.34	
	velocity	6.71	7.92	7.63	7.56	7.23	7.01	6.77	6.70	6.35	6.24	6.25	6.89		7.70	7.00	6.43	
H1 lead leg	R	strides	15	15	15	15	15	15	15	16	16	19.7	156.7					
Shibata, Haruka (JPN) (1991)	time	6.67	11.09	15.56	20.27	25.21	30.18	35.32	40.54	46.10	51.85		58.24	8 / 2				
reaction time	interval	4.42	4.47	4.71	4.94		4.97	5.14	5.22	5.56	5.75	6.39			13.60	15.05	16.53	
	velocity	6.75	7.92	7.83	7.43	7.09	7.04	6.81	6.70	6.29	6.09	6.26	6.87		7.72	6.98	6.35	
H1 lead leg	L	strides	24	16	16	17	17	17	17	18	18	21.2	198.2					

Carothers, Keina (JPN) (1997)	time	6.81	11.34	16.00	20.77	25.59	30.63	35.77	41.14	46.61	52.32	58.90	3 / 3				
reaction time	interval		4.53	4.66	4.77	4.82	5.04	5.14	5.37	5.47	5.71	6.58		PB	13.96	15.00	16.55
	velocity	6.61	7.73	7.51	7.34	7.26	6.94	6.81	6.52	6.40	6.13	6.08			7.52	7.00	6.34
H1 lead leg	R strides		16	16	16	16	17	17	17	17	17	21.7					

2019 Doha Diamond League (Doha, QAT) (TV Analysis)

FINAL

date 03-May-19

Henson (2020) - Athlete First: 2019 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Muhammad, Dalilah (USA) (1993)	time	6.24	10.31	14.68	19.11	23.59	25.5	28.02	32.56	37.23	42.28	47.48		53.61	5 / 1			
reaction time	0.179 interval		4.07	4.37	4.43	4.48		4.43	4.54	4.67	5.05	5.20	6.13			12.87	13.45	14.92
	velocity	7.21	8.60	8.01	7.90	7.81	7.84	7.90	7.71	7.49	6.93	6.73	6.53	7.46		8.16	7.81	7.04
H1 lead leg	R strides		23	15	15	15		15	15	15	16	16	20	180				
Spencer, Ashley (USA) (1993)	time	6.47	10.70	15.06	19.55	24.20	26.1	28.81	33.56	38.40	43.42	48.64		54.72	2 / 2			
reaction time	0.156 interval		4.23	4.36	4.49	4.65		4.61	4.75	4.84	5.02	5.22	6.08			13.08	14.01	15.08
	velocity	6.96	8.27	8.03	7.80	7.53	7.66	7.59	7.37	7.23	6.97	6.70	6.58	7.31		8.03	7.49	6.96
H1 lead leg	L strides		22	15	15	15		15	15	15	15	15	19	176				
Ryzhykova, Anna (UKR) (1991)	time	6.58	10.70	14.91	19.35	23.99	25.9	28.73	33.60	38.60	43.64	48.84		54.82	4 / 3			
reaction time	0.149 interval		4.12	4.21	4.44	4.64		4.74	4.87	5.00	5.04	5.20	5.98			12.77	14.25	15.24
	velocity	6.84	8.50	8.31	7.88	7.54	7.72	7.38	7.19	7.00	6.94	6.73	6.69	7.30		8.22	7.37	6.89
H1 lead leg	R strides		22	14	14	14		15	15	15	15	16	19.2	174.2				
Russell, Janieve (JAM) (1993)	time	6.60	10.78	15.08	19.52	23.99	26.0	28.63	33.46	38.47	43.64	48.92		55.28	6 / 4			
reaction time	0.131 interval		4.18	4.30	4.44	4.47		4.64	4.83	5.01	5.17	5.28	6.36			12.92	13.94	15.46
	velocity	6.82	8.37	8.14	7.88	7.83	7.69	7.54	7.25	6.99	6.77	6.63	6.29	7.24		8.13	7.53	6.79
H1 lead leg	L strides		23	15	15	15		16	16	16	17	17	20	185				
Boden, Lauren (AUS) (1988)	time	6.54	10.74	15.05	19.48	23.96	25.9	28.56	33.30	38.34	43.54	49.01		55.60	9 / 5			
reaction time	0.147 interval		4.20	4.31	4.43	4.48		4.60	4.74	5.04	5.20	5.47	6.59			12.94	13.82	15.71
	velocity	6.88	8.33	8.12	7.90	7.81	7.72	7.61	7.38	6.94	6.73	6.40	6.07	7.19		8.11	7.60	6.68
H1 lead leg	L strides		22	15	15	15		15	15	16	16	17	21	182				
Beesley, Meghan (GBR) (1996)	time	6.34	10.51	14.88	19.18	23.79	25.7	28.53	33.50	38.84	44.28	49.75		56.01	3 / 6			
reaction time	0.157 interval		4.17	4.37	4.30	4.61		4.74	4.97	5.34	5.44	5.47	6.26			12.84	14.32	16.25
	velocity	7.10	8.39	8.01	8.14	7.59	7.78	7.38	7.04	6.55	6.43	6.40	6.39	7.14		8.18	7.33	6.46
H1 lead leg	L strides		24	16	16	16		17	17	18	18	18	22.7	198.7				
Nel, Wenda (RSA) (1988)	time	6.54	10.88	15.35	19.95	24.62	26.5	29.23	34.10	39.10	44.21	49.75		56.16	7 / 7			
reaction time	0.206 interval		4.34	4.47	4.60	4.67		4.61	4.87	5.00	5.11	5.54	6.41			13.41	14.15	15.65
	velocity	6.88	8.06	7.83	7.61	7.49	7.55	7.59	7.19	7.00	6.85	6.32	6.24	7.12		7.83	7.42	6.71
H1 lead leg	L strides		23	16	16	16		16	17	17	17	18	22	194				
van der Walt, Zenéy (RSA) (1987)	time	6.54	10.88			24.52	26.5	29.36		39.54	44.91	50.35		56.45	1 / 8			
reaction time	0.167 interval		4.34			13.64		4.84		10.18	5.37	5.44	6.10					
	velocity	6.88	8.06			7.70	7.55	7.23		6.88	6.52	6.43	6.56	7.09				
H1 lead leg	L strides		23	15				16		17	17	20.5	108.5					
Pedroso, Yadisleidis (ITA) (1991)	time	6.71	11.08	15.51	20.12	24.72	26.8	29.46	34.37	39.44	44.64	50.38		57.20	8 / 9			
reaction time	0.257 interval		4.37	4.43	4.61	4.60		4.74	4.91	5.07	5.20	5.74	6.82			13.41	14.25	16.01
	velocity	6.71	8.01	7.90	7.59	7.61	7.46	7.38	7.13	6.90	6.73	6.10	5.87	6.99		7.83	7.37	6.56
H1 lead leg	R strides		24	16	16	16		16	16	17	17	18	22	194				

2019 Shizuoka International Athletics Meeting (Fukuroi, JPN)

A FINAL

date 03-May-19

Kobayashi (2019) - research on athlete performance and technique- 2019 data book

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Koyama, Kana (JPN) (1998)	time	6.77	11.13	15.55	20.14	25.03		29.86	34.95	40.24	45.78	51.45		57.80	1 / 1				
reaction time	interval		4.36	4.42	4.59	4.89		4.83	5.09	5.29	5.54	5.67	6.35			=PB	13.37	14.81	16.50
	velocity	6.65	8.03	7.92	7.63	7.16		7.25	6.88	6.62	6.32	6.17	6.30	6.92		7.85	7.09	6.36	
H1 lead leg	strides		15	15	15	16		16	17	17	17	17		145					
Ito, Akiko (JPN) (1995)	time	6.62	11.01	15.53	20.22	25.13		30.15	35.10	40.39	45.90	51.55		58.08	1 / 2				
reaction time	interval		4.39	4.52	4.69	4.91		5.02	4.95	5.29	5.51	5.65	6.53			13.60	14.88	16.45	
	velocity	6.80	7.97	7.74	7.46	7.13		6.97	7.07	6.62	6.35	6.19	6.13	6.89		7.72	7.06	6.38	
H1 lead leg	strides		15	15	16	16		16	16	17	17	17		145					
Utsunomiya, Eri (JPN) (1993)	time	6.52	10.81	15.28	19.85	24.69		29.71	34.87	40.26	45.81	51.72		58.68	1 / 3				
reaction time	interval		4.29	4.47	4.57	4.84		5.02	5.16	5.39	5.55	5.91	6.96			13.33	15.02	16.85	
	velocity	6.90	8.16	7.83	7.66	7.23		6.97	6.78	6.49	6.31	5.92	5.75	6.82		7.88	6.99	6.23	
H1 lead leg	strides		15	15	15	15		16	16	17	17	18		144					
Yoshida, Kasumi (JPN) (1996)	time	6.77	11.28	15.82	20.54	25.44		30.50	35.74	41.21	47.03	53.07		59.90	1 / 4				
reaction time	interval		4.51	4.54	4.72	4.90		5.06	5.24	5.47	5.82	6.04	6.83			13.77	15.20	17.33	
	velocity	6.65	7.76	7.71	7.42	7.14		6.92	6.68	6.40	6.01	5.79	5.86	6.68		7.63	6.91	6.06	
H1 lead leg	strides		16	16	16	16		17	17	17	19	19		153					

B FINAL

date 03-May-19

Kobayashi (2019) - research on athlete performance and technique- 2019 data book

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Oshiden, Moe (JPN) (1993)	time	6.87	11.41	16.15	20.97	25.94		31.11	36.37	41.73	47.31	53.17		59.54	/ 1			
	reaction time		interval	4.54	4.74	4.82	4.97		5.17	5.26	5.36	5.58	6.37			14.10	15.40	16.80
	velocity	6.55	7.71	7.38	7.26	7.04		6.77	6.65	6.53	6.27	5.97	6.28	6.72		7.45	6.82	6.25
	H1 lead leg		strides	16	16	16	16		17	17	17	17	17		149			
Sekimoto, Moeka (JPN) (2001)	time	6.89	11.31	15.82	20.42	25.13		30.00	35.22	40.64	46.41	52.64		59.55	/ 2			
	reaction time		interval	4.42	4.51	4.60	4.71		4.87	5.22	5.42	5.77	6.23	6.91		13.53	14.80	17.42
	velocity	6.53	7.92	7.76	7.61	7.43		7.19	6.70	6.46	6.07	5.62	5.79	6.72		7.76	7.09	6.03
	H1 lead leg		strides	15	15	15	15		15	16	16	17	18		142			
Kawabata, Szuka (JPN) (1993)	time	6.76	11.21	15.87	20.64	25.58		30.66	36.05	41.68	47.36	53.32		59.87	/ 3			
	reaction time		interval	4.45	4.66	4.77	4.94		5.08	5.39	5.63	5.68	6.55			13.88	15.41	17.27
	velocity	6.66	7.92	7.51	7.34	7.09		6.89	6.49	6.22	6.16	5.87	6.11	6.68		7.56	6.81	6.08
	H1 lead leg		strides	15	16	16	16		16	17	18	18	19		151			

C FINAL

date 03-May-19

Kobayashi (2019) - research on athlete performance and technique- 2019 data book

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Aoki, Honoka (JPN) (2001)	time	7.01	11.49	16.10	20.80	25.66		30.78	36.14	41.71	47.38	53.07		59.25	/ 1			
	reaction time		interval	4.48	4.61	4.70	4.86		5.12	5.36	5.57	5.67	6.18			13.79	15.34	16.93
	velocity	6.42	7.81	7.59	7.45	7.20		6.84	6.53	6.28	6.17	6.15	6.47	6.75		7.61	6.84	6.20
	H1 lead leg		strides	17	17	17	17		17	18	18	18	18		157			

2019 Asian Athletics Championships (Doha, QAT)**FINAL**

date 22-Apr-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Huang Yan (CHN) (1996)	time	6.80	11.33	16.01	20.73	25.61		30.72	36.00	41.27	46.64	52.06		58.29	8 / 7			
	reaction time 0.194		interval	4.53	4.68	4.72	4.88		5.11	5.28	5.27	5.37	5.42	6.23		13.93	15.27	16.06
	velocity	6.62	7.73	7.48	7.42	7.17		6.85	6.63	6.64	6.52	6.46	6.42	6.86		7.54	6.88	6.54
	H1 lead leg L		strides	24	17	17	17		18	18	18	18	18	22	204			
Mo Jiadie (CHN) (2000)	time	6.89	11.39	15.96	20.72	25.55		30.53	35.68	41.04	46.78	52.56		59.20	9 / 8			
	reaction time 0.181		interval	4.50	4.57	4.76	4.83		4.98	5.15	5.36	5.74	5.78	6.64		13.83	14.96	16.88
	velocity	6.53	7.78	7.66	7.35	7.25		7.03	6.80	6.53	6.10	6.06	6.02	6.76		7.59	7.02	6.22
	H1 lead leg L		strides	24	16	16	16		17	17	18	18	18	21.5	197.5			

Heat 2

date 21-Apr-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Huang Yan (CHN) (1996)	time	6.57	11.06	15.70	20.40	25.22		30.13	35.38	40.71	46.18	51.87		58.46	6 / 3			
	reaction time 0.180		interval	4.49	4.64	4.70	4.82		4.91	5.25	5.33	5.47	5.69	6.59		13.83	14.98	16.49
	velocity	6.85	7.80	7.54	7.45	7.26		7.13	6.67	6.57	6.40	6.15	6.07	6.84		7.59	7.01	6.37
	H1 lead leg L		strides	24	17	17	17		17	18	18	18	19	22.5	204.5			

Heat 1

date 21-Apr-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mo Jiadie (CHN) (2000)	time	6.64	11.02	15.58	20.23	25.12		30.23	35.42	40.70	46.31	51.92		58.28	6 / 3			
	reaction time 0.224		interval	4.38	4.56	4.65	4.89		5.11	5.19	5.28	5.61	5.61	6.36		13.59	15.19	16.50
	velocity	6.78	7.99	7.68	7.53	7.16		6.85	6.74	6.63	6.24	6.24	6.29	6.86		7.73	6.91	6.36
	H1 lead leg L		strides	24	16	16	16		17	17	17	18	18	21.2	196.2			

2019 Chinese National Grand Prix 2 (Huangshi, CHN)**FINAL**

date 12-Apr-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tao Xue (CHN) (1999)	time	7.12	11.66	16.35	21.14	26.04		31.36	36.47	41.89	47.36	53.04		59.57	6 / 1			
	reaction time 0.287		interval	4.54	4.69	4.79	4.90		5.32	5.11	5.42	5.47	5.68	6.53		14.02	15.33	16.57
	velocity	6.32	7.71	7.46	7.31	7.14		6.58	6.85	6.46	6.40	6.16	6.13	6.71		7.49	6.85	6.34
	H1 lead leg L		strides	23	16	16	16		17	17	17	17	18	21.2	194.2			
Wu Xueting (CHN) (1995)	time	7.00	11.52	16.34	21.24	26.30		31.44	36.88	42.70	48.50	54.42		60.92	4 / 2			
	reaction time 0.224		interval	4.52	4.82	4.90	5.06		5.14	5.44	5.82	5.80	5.92	6.50		14.24	15.64	17.54
	velocity	6.43	7.74	7.26	7.14	6.92		6.81	6.43	6.01	6.03	5.91	6.15	6.57		7.37	6.71	5.99
	H1 lead leg L		strides	23	16	16	16		16	17	18	18	18	21	195			
Liu Xin (CHN) (1992)	time	7.42	12.22	16.96	21.76	26.76		31.98	37.32	42.86	48.62	54.40		60.97	2 / 3			
	reaction time 0.355		interval	4.80	4.74	4.80	5.00		5.22	5.34	5.54	5.76	5.78	6.57		14.34	15.56	17.08
	velocity	6.06	7.29	7.38	7.29	7.00		6.70	6.55	6.32	6.08	6.06	6.09	6.56		7.32	6.75	6.15
	H1 lead leg L		strides	25	17	17	17		18	18	19	19	19	23.5	209.5			
Jiang Liyunzhe (CHN) (2002)	time	7.02	11.76	16.63	21.67	26.81		32.01	37.30	42.74	48.42	54.38		61.11	8 / 4			
	reaction time 0.264		interval	4.74	4.87	5.04	5.14		5.20	5.29	5.44	5.68	5.96	6.73		14.65	15.63	17.08
	velocity	6.41	7.38	7.19	6.94	6.81		6.73	6.62	6.43	6.16	5.87	5.94	6.55		7.17	6.72	6.15
	H1 lead leg L		strides	24	16	16	16		17	17	17	17	18	21.2	195.2			
Zhou Yu (CHN) (1999)	time	6.95	11.63	16.40	21.29	26.24		31.38	36.60	41.97	47.53	53.40		61.11	7 / 5			
	reaction time 0.205		interval	4.68	4.77	4.89	4.95		5.14	5.22	5.37	5.56	5.87	7.71		14.34	15.31	16.80
	velocity	6.47	7.48	7.34	7.16	7.07		6.81	6.70	6.52	6.29	5.96	5.19	6.55		7.32	6.86	6.25
	H1 lead leg L		strides	24	16	16	16		17	17	17	18	19	23	199			

Liu Hongjuan (CHN) (1996)	time	6.98	11.57	16.34	21.30	26.32	31.58	37.18	42.92	48.72	54.62		61.30	5 / 6			
	reaction time	0.265	interval	4.59	4.77	4.96	5.02	5.26	5.60	5.74	5.80	5.90	6.68		14.32	15.88	17.44
	velocity	6.45	7.63	7.34	7.06	6.97	6.65	6.25	6.10	6.03	5.93	5.99	6.53		7.33	6.61	6.02
	H1 lead leg	L	strides	23	16	16	16	16	17	18	18	19	19	22.2	200.2		
Wang Jiaqi (CHN) (2000)	time	7.20	11.74	16.42	21.24	26.46	31.88	37.50	43.34	49.20	55.24		61.96	3 / 7			
	reaction time	0.300	interval	4.54	4.68	4.82	5.22	5.42	5.62	5.84	5.86	6.04	6.72		14.04	16.26	17.74
	velocity	6.25	7.71	7.48	7.26	6.70	6.46	6.23	5.99	5.97	5.79	5.95	6.46		7.48	6.46	5.92
	H1 lead leg	R	strides	24	17	17	18	18	19	19	19	19	22.2	209.2			
Lu Zhangwei (CHN) (2001)	time	7.04	11.53					36.58	42.46	48.53	54.75		62.25	9 / 8			
	reaction time	0.326	interval	4.49				25.05	5.88	6.07	6.22	7.50					18.17
	velocity	6.39	7.80					6.99	5.95	5.77	5.63	5.33	6.43				5.78
	H1 lead leg	R	strides	24	17					19	19	19	23	121			

Heat 5

date 12-Apr-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wang Jiaqi (CHN) (2000)	time	7.10	11.64	16.34	21.26	26.42		31.94	37.62	43.30	49.18	55.05		61.69	3 / 1			
	reaction time	0.265	interval	4.54	4.70	4.92	5.16	5.52	5.68	5.68	5.88	5.87	6.64			14.16	16.36	17.43
	velocity	6.34	7.71	7.45	7.11	6.78		6.34	6.16	6.16	5.95	5.96	6.02	6.48		7.42	6.42	6.02
	H1 lead leg	R	strides	17	17	17	18	18	19	19	19	19	22.2	185.2				
Liu Xin (CHN) (1992)	time	7.09	11.71	16.55	21.52	26.72		32.25	37.77	43.36	49.20	55.07		61.85	8 / 2			
	reaction time	0.310	interval	4.62	4.84	4.97	5.20	5.53	5.52	5.59	5.84	5.87	6.78			14.43	16.25	17.30
	velocity	6.35	7.58	7.23	7.04	6.73		6.33	6.34	6.26	5.99	5.96	5.90	6.47		7.28	6.46	6.07
	H1 lead leg	L	strides	25	17	17	18	19	19	19	20	20	24	215				
Ma Jie (CHN) (1998)	time	7.10	11.82	16.70	22.00	27.66		33.56						67.77	2 / 7			
	reaction time	0.335	interval	4.72	4.88	5.30	5.66	5.90								14.90		
	velocity	6.34	7.42	7.17	6.60	6.18		5.93						5.90		7.05		
	H1 lead leg	L	strides	16	16	17	17	17						83				

Heat 4

date 12-Apr-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tao Xue (CHN) (1999)	time	7.17	11.77	16.55	21.30	26.26		31.34	36.70	42.24	47.81	53.50		60.12	8 / 1			
	reaction time	0.349	interval	4.60	4.78	4.75	4.96	5.08	5.36	5.54	5.57	5.69	6.62			14.13	15.40	16.80
	velocity	6.28	7.61	7.32	7.37	7.06		6.89	6.53	6.32	6.28	6.15	6.04	6.65		7.43	6.82	6.25
	H1 lead leg	R	strides	24	16	16	16	16	17	17	17	17	21.2	193.2				
Jiang Liyunzhe (CHN) (2002)	time	7.04	11.71	16.58	21.57	26.63		31.67	36.90	42.32	48.16	54.23		61.37	7 / 2			
	reaction time	0.188	interval	4.67	4.87	4.99	5.06	5.04	5.23	5.42	5.84	6.07	7.14			14.53	15.33	17.33
	velocity	6.39	7.49	7.19	7.01	6.92		6.94	6.69	6.46	5.99	5.77	5.60	6.52		7.23	6.85	6.06
	H1 lead leg	L	strides	24	16	16	16	17	17	18	18	18	22	198				

Heat 3

date 12-Apr-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Zhou Yu (CHN) (1999)	time	6.97	11.66	16.50	21.39	26.39		31.63	36.91	42.17	47.71	53.54		59.98	9 / 1			
	reaction time	0.252	interval	4.69	4.84	4.89	5.00	5.24	5.28	5.26	5.54	5.83	6.44	PB		14.42	15.52	16.63
	velocity	6.46	7.46	7.23	7.16	7.00		6.68	6.63	6.65	6.32	6.00	6.21	6.67		7.28	6.77	6.31
	H1 lead leg	L	strides	24	16	16	16	17	17	17	18	19	22.2	198.2				
Liu Hongjuan (CHN) (1996)	time	6.86	11.43	16.19	21.10	26.06		31.30	36.57	42.04	47.69	53.48		60.19	7 / 2			
	reaction time	0.227	interval	4.57	4.76	4.91	4.96	5.24	5.27	5.47	5.65	5.79	6.71			14.24	15.47	16.91
	velocity	6.56	7.66	7.35	7.13	7.06		6.68	6.64	6.40	6.19	6.04	5.96	6.65		7.37	6.79	6.21
	H1 lead leg	L	strides	23	16	16	16	17	17	18	19	19	22.5	199.5				
Wang Chen (CHN) (1999)	time	7.09	11.81	16.72	21.83	27.01		32.35	37.84	43.67	49.80	56.86		63.98	8 / 4			
	reaction time	0.259	interval	4.72	4.91	5.11	5.18	5.34	5.49	5.83	6.13	7.06	7.12			14.74	16.01	19.02
	velocity	6.35	7.42	7.13	6.85	6.76		6.55	6.38	6.00	5.71	4.96	5.62	6.25		7.12	6.56	5.52
	H1 lead leg	L	strides	24	17	17	17	17	17	18	20	21	23	208				

Heat 2

date 12-Apr-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wu Xueting (CHN) (1995)	time	7.03	11.63	16.47	21.40	26.51		31.73	37.12	42.76	48.63	54.54		61.24	9 / 1			
	reaction time	0.309	interval	4.60	4.84	4.93	5.11	5.22	5.39	5.64	5.87	5.91	6.70			14.37	15.72	17.42
	velocity	6.40	7.61	7.23	7.10	6.85		6.70	6.49	6.21	5.96	5.92	5.97	6.53		7.31	6.68	6.03
	H1 lead leg	L	strides	23	16	16	16	16	17	17	18	18	21.2	194.2				
Lu Zhangwei (CHN) (2001)	time	6.98	11.52	16.12	20.84	25.74		30.94	36.56	42.20	48.04	54.20		61.28	3 / 3			
	reaction time	0.237	interval	4.54	4.60	4.72	4.90	5.20	5.62	5.64	5.84	6.16	7.08			13.86	15.72	17.64
	velocity	6.45	7.71	7.61	7.42	7.14		6.73	6.23	6.21	5.99	5.68	5.65	6.53		7.58	6.68	5.95
	H1 lead leg	R	strides	17	17	17	17	17	18	18	19	19	22.5	181.5				

Heat 1

date 12-Apr-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Xiao Xia (CHN) (1991)	time	7.04	11.82	16.75	21.82	26.94		32.41	37.92	43.67	49.46	55.17		61.97	9 / 1			
	reaction time	0.399	interval	4.78	4.93	5.07	5.12	5.47	5.51	5.75	5.79	5.71	6.80			14.78	16.10	17.25
	velocity	6.39	7.32	7.10	6.90	6.84		6.40	6.35	6.09	6.04	6.13	5.88	6.45		7.10	6.52	6.09

H1 lead leg	L	strides	23	16	16	16	16	17	17	17	17	17	21.2	193.2					
Hu Lihong (CHN) (1999)	time		6.97	11.53	16.25	21.02	26.02	31.31	36.73	42.41	48.36	54.65		62.30	7 / 2				
reaction time	0.210	interval		4.56	4.72	4.77	5.00	5.29	5.42	5.68	5.95	6.29	7.65			14.05	15.71	17.92	
		velocity	6.46	7.68	7.42	7.34	7.00	6.62	6.46	6.16	5.88	5.56	5.23	6.42		7.47	6.68	5.86	
H1 lead leg	L	strides	23	16	16	16	16	17	17	17	17	18	22	195					

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CAA Hurdle Development (2019)

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mo Jiadie (CHN) (2000)	time		6.84	11.31	15.88	20.62	25.44		30.44	35.58	40.87	46.48	52.12		58.34	7 / 1			
reaction time	0.283	interval		4.47	4.57	4.74	4.82		5.00	5.14	5.29	5.61	5.64	6.22			13.78	14.96	16.54
		velocity	6.58	7.83	7.66	7.38	7.26		7.00	6.81	6.62	6.24	6.21	6.43	6.86		7.62	7.02	6.35
H1 lead leg	L	strides	24	16	16	16	16		17	17	17	18	18	21.5	196.5				
Lu Zhangwei (CHN) (2001)	time		6.91	11.44	16.03	20.75	25.71		30.84	36.08	41.48	47.21	52.88		59.22	6 / 2			
reaction time	0.260	interval		4.53	4.59	4.72	4.96		5.13	5.24	5.40	5.73	5.67	6.34	PB		13.84	15.33	16.80
		velocity	6.51	7.73	7.63	7.42	7.06		6.82	6.68	6.48	6.11	6.17	6.31	6.75		7.59	6.85	6.25
H1 lead leg	R	strides	24	17	17	17	17		17	17	17	18	18	22	201				
Liu Hongjuan (CHN) (1996)	time		6.88	11.40	15.96	20.76	25.64		30.82	36.06	41.54	47.12	52.92		59.65	4 / 3			
reaction time	0.250	interval		4.52	4.56	4.80	4.88		5.18	5.24	5.48	5.58	5.80	6.73			13.88	15.30	16.86
		velocity	6.54	7.74	7.68	7.29	7.17		6.76	6.68	6.39	6.27	6.03	5.94	6.71		7.56	6.86	6.23
H1 lead leg	L	strides	23	16	16	16	16		17	17	18	18	19	22.5	198.5				
Jiang Liyunzhe (CHN) (2002)	time		6.72	11.30	16.00	20.83	25.86		30.94	36.26	41.76	47.71	53.88		60.80	3 / 4			
reaction time	0.194	interval		4.58	4.70	4.83	5.03		5.08	5.32	5.50	5.95	6.17	6.92	PB		14.11	15.43	17.62
		velocity	6.70	7.64	7.45	7.25	6.96		6.89	6.58	6.36	5.88	5.67	5.78	6.58		7.44	6.80	5.96
H1 lead leg	L	strides	24	16	16	16	16		17	17	17	18	18	21.5	196.5				
Lan Tianlu (CHN) (1999)	time		6.85	11.26	15.88	20.60	25.47		30.56	35.83	41.47	47.44	53.76		61.06	9 / 5			
reaction time	0.303	interval		4.41	4.62	4.72	4.87		5.09	5.27	5.64	5.97	6.32	7.30			13.75	15.23	17.93
		velocity	6.57	7.94	7.58	7.42	7.19		6.88	6.64	6.21	5.86	5.54	5.48	6.55		7.64	6.89	5.86
H1 lead leg	L	strides	23	16	16	16	16		17	17	18	19	19	23	200				
Liu Xin (CHN) (1992)	time		7.16	11.85	16.68	21.53	26.66		32.06	37.48	43.04	48.78	54.65		61.71	8 / 6			
reaction time	0.269	interval		4.69	4.83	4.85	5.13		5.40	5.42	5.56	5.74	5.87	7.06			14.37	15.95	17.17
		velocity	6.28	7.46	7.25	7.22	6.82		6.48	6.46	6.29	6.10	5.96	5.67	6.48		7.31	6.58	6.12
H1 lead leg	L	strides	25	17	17	17	18		18	19	19	19	20	24	213				
Hu Lihong (CHN) (1999)	time		6.98	11.50	16.20	21.00	26.02		31.24	36.68	42.30	48.22	54.46		62.02	2 / 7			
reaction time	0.191	interval		4.52	4.70	4.80	5.02		5.22	5.44	5.62	5.92	6.24	7.56			14.02	15.68	17.78
		velocity	6.45	7.74	7.45	7.29	6.97		6.70	6.43	6.23	5.91	5.61	5.29	6.45		7.49	6.70	5.91
H1 lead leg	L	strides	23	16	16	16	16		17	17	17	17	17	22	194				
Di Chengqian (CHN) (1999)	time		6.88	11.50	16.26	21.24	26.42		31.86	37.50	43.26	49.56		63.58	5 / 8				
reaction time	0.197	interval		4.62	4.76	4.98	5.18		5.44	5.64	5.76	6.30					14.36	16.26	
		velocity	6.54	7.58	7.35	7.03	6.76		6.43	6.21	6.08	5.56		6.29			7.31	6.46	
H1 lead leg	L	strides	23	16	16	16	16		17	17	17	19		157					

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date 07-Apr-19

CAA Hurdle Development (2019)

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Liu Hongjuan (CHN) (1996)	time		6.99	11.63	16.35	21.25	26.13		31.35	36.78	42.37	48.15	53.99		60.55	7 / 1			
reaction time	0.278	interval		4.64	4.72	4.90	4.88		5.22	5.43	5.59	5.78	5.84	6.56			14.26	15.53	17.21
		velocity	6.44	7.54	7.42	7.14	7.17		6.70	6.45	6.26	6.06	5.99	6.10	6.61		7.36	6.76	6.10
H1 lead leg	L	strides	23	16	16	16	16		17	18	18	19	19	22.5	200.5				
Liu Xin (CHN) (1992)	time		7.14	11.86	16.75	21.62	26.63		31.75	37.00	42.49	48.13	54.00		60.80	6 / 2			
reaction time	0.247	interval		4.72	4.89	4.87	5.01		5.12	5.25	5.49	5.64	5.87	6.80			14.48	15.38	17.00
		velocity	6.30	7.42	7.16	7.19	6.99		6.84	6.67	6.38	6.21	5.96	5.88	6.58		7.25	6.83	6.18
H1 lead leg	L	strides	24	17	17	17	17		18	18	19	19	20	24	210				
Chen Liying (CHN) (1994)	time		7.05	11.75	16.43	21.19	26.06		31.21	36.47	41.92	47.80	54.04		61.01	8 / 3			
reaction time	0.194	interval		4.70	4.68	4.76	4.87		5.15	5.26	5.45	5.88	6.24	6.97			14.14	15.28	17.57
		velocity	6.38	7.45	7.48	7.35	7.19		6.80	6.65	6.42	5.95	5.61	5.74	6.56		7.43	6.87	5.98
H1 lead leg	R	strides	24	16	16	16	16		17	17	17	18	20	23	200				
Ma Jie (CHN) (1998)	time		6.79	11.36	16.15	21.25	26.88		32.95	39.39	46.25				67.91	4 / 8			
reaction time	0.211	interval		4.57	4.79	5.10	5.63		6.07	6.44	6.86						14.46	18.14	
		velocity	6.63	7.66	7.31	6.86	6.22		5.77	5.43	5.10			5.89			7.26	5.79	
H1 lead leg	L	strides	23	16	16	16	16		17	19	19			142					

Heat 4

date 07-Apr-19

CAA Hurdle Development (2019)

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Lu Zhangwei (CHN) (2001)	time		6.85	11.38	15.96	20.62	25.47		30.51	35.71	41.12	46.90	53.02		59.89	6 / 1			
reaction time	0.220	interval		4.53	4.58	4.66	4.85		5.04	5.20	5.41	5.78	6.12	6.87			13.77	15.09	17.31
		velocity	6.57	7.73	7.64	7.51	7.22		6.94	6.73	6.47	6.06	5.72	5.82	6.68		7.63	6.96	6.07
H1 lead leg	R	strides	24	17	17	17	17		17	17	17	19	19	23	204				

Lan Tianlu (CHN) (1999)	time	6.97	11.62	16.48	21.25	26.10	31.18	36.67	42.39	48.23	54.03		60.76	5 / 2				
reaction time	0.256	interval	4.65	4.86	4.77	4.85	5.08	5.49	5.72	5.84	5.80	6.73			14.28	15.42	17.36	
		velocity	6.46	7.53	7.20	7.34	7.22	6.89	6.38	6.12	5.99	6.03	5.94	6.58		7.35	6.81	6.05
H1 lead leg	L	strides	23	16	16	16	16	17	17	18	18	18	22	197				
Ou Ying (CHN) (2001)	time	6.97	11.63	16.43	21.25	26.31	31.55	36.95	42.52	48.23	54.29		61.52	4 / 3				
reaction time	0.280	interval	4.66	4.80	4.82	5.06	5.24	5.40	5.57	5.71	6.06	7.23			14.28	15.70	17.34	
		velocity	6.46	7.51	7.29	7.26	6.92	6.68	6.48	6.28	6.13	5.78	5.53	6.50		7.35	6.69	6.06
H1 lead leg	L	strides	24	17	17	17	17	17	17	17	18	19	22.5	202.5				
Ye Xiulan (CHN) (1998)	time	6.99	11.60	16.50	21.39	26.53	31.78	37.37	43.12	48.93	54.89		61.91	3 / 4				
reaction time	0.252	interval	4.61	4.90	4.89	5.14	5.25	5.59	5.75	5.81	5.96	7.02			14.40	15.98	17.52	
		velocity	6.44	7.59	7.14	7.16	6.81	6.67	6.26	6.09	6.02	5.87	5.70	6.46		7.29	6.57	5.99
H1 lead leg	R	strides	24	16	17	16	17	17	18	18	18	18	22.5	201.5				

Heat 3

date 07-Apr-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wu Fangfang (CHN) (1997)	time	7.12	11.91	16.74	21.67	26.69		32.00	37.49	43.11	48.76	54.76		61.04	7 / 1			
reaction time	0.319	interval	4.79	4.83	4.93	5.02		5.31	5.49	5.62	5.65	6.00	6.28			14.55	15.82	17.27
		velocity	6.32	7.31	7.25	7.10	6.97	6.59	6.38	6.23	6.19	5.83	6.37	6.55		7.22	6.64	6.08
H1 lead leg	L	strides	24	16	16	16	16	17	17	17	17	19	22	197				
Liang Yina (CHN) (2001)	time	7.06	11.73	16.55	21.45	26.54		31.83	37.52	43.29	49.22	55.39		62.02	8 / 2			
reaction time	0.376	interval	4.67	4.82	4.90	5.09		5.29	5.69	5.77	5.93	6.17	6.63			14.39	16.07	17.87
		velocity	6.37	7.49	7.26	7.14	6.88	6.62	6.15	6.07	5.90	5.67	6.03	6.45		7.30	6.53	5.88
H1 lead leg	L	strides	24	17	17	17	17	18	18	18	19	19	22	206				
Wang Chen (CHN) (1999)	time	6.92	11.56	16.43	21.44	26.53		31.86	37.47	43.63	49.74	55.74		62.33	4 / 3			
reaction time	0.235	interval	4.64	4.87	5.01	5.09		5.33	5.61	6.16	6.11	6.00	6.59			14.52	16.03	18.27
		velocity	6.50	7.54	7.19	6.99	6.88	6.57	6.24	5.68	5.73	5.83	6.07	6.42		7.23	6.55	5.75
H1 lead leg	L	strides	24	17	17	17	17	17	17	19	19	19	22.5	205.5				
Wu Xueting (CHN) (1995)	time	6.94	11.60	16.50	21.45	26.59		31.87	37.44	43.21	49.09	55.32		62.34	9 / 4			
reaction time	0.345	interval	4.66	4.90	4.95	5.14		5.28	5.57	5.77	5.88	6.23	7.02			14.51	15.99	17.88
		velocity	6.48	7.51	7.14	7.07	6.81	6.63	6.28	6.07	5.95	5.62	5.70	6.42		7.24	6.57	5.87
H1 lead leg	L	strides	22	16	16	16	16	16	17	18	18	18	21.5	194.5				
Xiao Xia (CHN) (1991)	time	7.11	11.96	17.12	22.41	27.86		33.42	39.12	44.85	50.47	56.27		63.02	1 / 6			
reaction time	0.370	interval	4.85	5.16	5.29	5.45		5.56	5.70	5.73	5.62	5.80	6.75			15.30	16.71	17.15
		velocity	6.33	7.22	6.78	6.62	6.42	6.29	6.14	6.11	6.23	6.03	5.93	6.35		6.86	6.28	6.12
H1 lead leg	L	strides	22	16	16	17	17	17	17	17	17	17	21	194				

Heat 2

date 07-Apr-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Di Chengqian (CHN) (1999)	time	6.74	11.33	16.03	20.80	25.78		31.03	36.48	42.06	47.92	53.75		60.53	6 / 1			
reaction time	0.273	interval	4.59	4.70	4.77	4.98		5.25	5.45	5.58	5.86	5.83	6.78			14.06	15.68	17.27
		velocity	6.68	7.63	7.45	7.34	7.03	6.67	6.42	6.27	5.97	6.00	5.90	6.61		7.47	6.70	6.08
H1 lead leg	L	strides	23	16	16	16	16	17	17	17	17	17	21	193				
Tao Xue (CHN) (1999)	time	7.04	11.56	16.21	20.97	25.93		31.00	36.52	42.31	48.34	54.42		61.29	2 / 2			
reaction time	0.307	interval	4.52	4.65	4.76	4.96		5.07	5.52	5.79	6.03	6.08	6.87			13.93	15.55	17.90
		velocity	6.39	7.74	7.53	7.35	7.06	6.90	6.34	6.04	5.80	5.76	5.82	6.53		7.54	6.75	5.87
H1 lead leg	L	strides	23	16	16	16	16	16	17	18	18	18	21	195				
Huang Yan (CHN) (1996)	time	6.72	11.26	15.98	20.64	25.48		30.60	36.17	41.74	47.56	53.35		74.88	9 / 8			
reaction time	0.319	interval	4.54	4.72	4.66	4.84		5.12	5.57	5.57	5.82	7.79	19.53			13.92	15.53	19.18
		velocity	6.70	7.71	7.42	7.51	7.23	6.84	6.28	6.28	6.01	4.49	2.05	5.34		7.54	6.76	5.47
H1 lead leg	L	strides	24	17	17	17	17	18	19	19	19	23	27	217				

Heat 1

date 07-Apr-19

CAA Hurdle Development (2019)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mo Jiadie (CHN) (2000)	time	7.00	11.53	16.20	21.04	26.02		31.18	36.47	42.19	47.90	53.69		60.19	8 / 1			
reaction time	0.319	interval	4.53	4.67	4.84	4.98		5.16	5.29	5.72	5.71	5.79	6.50			14.04	15.43	17.22
		velocity	6.43	7.73	7.49	7.23	7.03	6.78	6.62	6.12	6.13	6.04	6.15	6.65		7.48	6.80	6.10
H1 lead leg	L	strides	24	16	16	16	16	17	17	18	18	18	21	197				
Hu Lihong (CHN) (1999)	time	7.04	11.63	16.40	21.27	26.29		31.50	36.87	42.42	48.11	54.04		60.94	7 / 2			
reaction time	0.186	interval	4.59	4.77	4.87	5.02		5.21	5.37	5.55	5.69	5.93	6.90			14.23	15.60	17.17
		velocity	6.39	7.63	7.34	7.19	6.97	6.72	6.52	6.31	6.15	5.90	5.80	6.56		7.38	6.73	6.12
H1 lead leg	L	strides	24	16	16	16	16	17	17	17	17	17	21	194				
Jiang Liyunzhe (CHN) (2002)	time	6.84	11.62	16.37	21.30	26.36		31.68	37.07	42.59	48.52	54.45		60.97	1 / 3			
reaction time	0.217	interval	4.78	4.75	4.93	5.06		5.32	5.39	5.52	5.93	5.93	6.52	PB		14.46	15.77	17.38
		velocity	6.58	7.32	7.37	7.10	6.92	6.58	6.49	6.34	5.90	5.90	6.13	6.56		7.26	6.66	6.04
H1 lead leg	L	strides	24	16	16	16	16	17	17	17	18	18	21	196				
Ding Xiaoxue (CHN) (1998)	time	7.11	11.93	16.92	22.06	27.44		33.10	39.06	45.48				67.07	2 / 9			

reaction time	0.295	interval	4.82	4.99	5.14	5.38	5.66	5.96	6.42									14.95	17.00	
		velocity	6.33	7.26	7.01	6.81	6.51	6.18	5.87	5.45								5.96	7.02	6.18
H1 lead leg	L	strides	25	17	17	17	18	18	19	20								151		

2018 National Sports Festival (Fukui, JPN)

FINAL

date 06-Oct-18

Morioka (2018) - race pattern analysis of Japan's top 400m hurdles - main national competitions in 2018

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Utsunomiya, Eri (JPN) (1993)	time	6.50	10.84	15.28	19.88	24.83		29.80	34.87	40.06	45.43	51.10		57.54	7 / 1			
	reaction time	0.159	interval	4.34	4.44	4.60	4.95	4.97	5.07	5.19	5.37	5.67	6.44			13.38	14.99	16.23
			velocity	6.92	8.06	7.88	7.61	7.07	7.04	6.90	6.74	6.52	6.17	6.21	6.95	7.85	7.00	6.47
H1 lead leg	L	strides	15	15	15	16		16	17	17	17	17		145				

2018 Chinese National Championships (Taiyuan, CHN)

FINAL

date 16-Sep-18

Henson (2018) - coaching observations

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Huang Yan (CHN) (1996)	time	6.73	11.20	15.77	20.39	25.13		29.95	35.09	40.26	45.60	51.25		57.61	5 / 1			
	reaction time		interval	4.47	4.57	4.62	4.74	4.82	5.14	5.17	5.34	5.65	6.36			13.66	14.70	16.16
			velocity	6.69	7.83	7.66	7.58	7.38	7.26	6.81	6.77	6.55	6.19	6.29	6.94	7.69	7.14	6.50
H1 lead leg	L	strides	24	17	17	17		17	18	18	18	19	23	205				
Mo Jiadie (CHN) (2000)	time	6.76	11.18	15.68	20.32	25.09		30.08	35.28	40.69	46.18	51.78		57.86	3 / 2			
	reaction time		interval	4.42	4.50	4.64	4.77	4.99	5.20	5.41	5.49	5.60	6.08	PB		13.56	14.96	16.50
			velocity	6.66	7.92	7.78	7.54	7.34	7.01	6.73	6.47	6.38	6.25	6.58	6.91	7.74	7.02	6.36
H1 lead leg	L	strides	24	16	16	16		17	17	18	18	18	21.5	197.5				
Wu Xueting (CHN) (1995)	time	6.86	11.27	15.75	20.37	25.23		30.28	35.47	40.82	46.31	52.00		58.65	4 / 3			
	reaction time		interval	4.41	4.48	4.62	4.86	5.05	5.19	5.35	5.49	5.69	6.65			13.51	15.10	16.53
			velocity	6.56	7.94	7.81	7.58	7.20	6.93	6.74	6.54	6.38	6.15	6.02	6.82	7.77	6.95	6.35
H1 lead leg	L	strides	22	15	15	16		16	17	17	17	18	21.5	189.5				
Hu Lihong (CHN) (1999)	time	6.96	11.51	16.25	20.97	25.93		31.03	36.27	41.65	47.18	52.92		59.62	7 / 4			
	reaction time		interval	4.55	4.74	4.72	4.96	5.10	5.24	5.38	5.53	5.74	6.70			14.01	15.30	16.65
			velocity	6.47	7.69	7.38	7.42	7.06	6.86	6.68	6.51	6.33	6.10	5.97	6.71	7.49	6.86	6.31
H1 lead leg	L	strides	23	16	16	16		17	17	17	17	17	20.5	192.5				
Liu Xin (CHN) (1992)	time	7.11	11.72	16.48	21.30	26.21		31.18	36.42	41.94	47.54	53.34		59.80	1 / 5			
	reaction time		interval	4.61	4.76	4.82	4.91	4.97	5.24	5.52	5.60	5.80	6.46			14.19	15.12	16.92
			velocity	6.33	7.59	7.35	7.26	7.13	7.04	6.68	6.34	6.25	6.03	6.19	6.69	7.40	6.94	6.21
H1 lead leg	L	strides	25	17	17	17		17	18	19	19	20	23.5	209.5				
Ou Ying (CHN) (2001)	time	7.00	11.65	16.42	21.28	26.26		31.46	36.78	42.16	47.78	53.67		60.42	6 / 6			
	reaction time		interval	4.65	4.77	4.86	4.98	5.20	5.32	5.38	5.62	5.89	6.75			14.28	15.50	16.89
			velocity	6.43	7.53	7.34	7.20	7.03	6.73	6.58	6.51	6.23	5.94	5.93	6.62	7.35	6.77	6.22
H1 lead leg	L	strides	24	17	17	17		17	17	17	17	18	22	200				
Wu Fangfang (CHN) (1997)	time	7.06	11.70	16.36	21.14	26.07		31.23	36.64	42.21	47.81	53.36		60.44	2 / 7			
	reaction time		interval	4.64	4.66	4.78	4.93	5.16	5.41	5.57	5.60	10.55	2.08			14.08	15.50	21.72
			velocity	6.37	7.54	7.51	7.32	7.10	6.78	6.47	6.28	6.25	3.32	19.23	6.62	7.46	6.77	4.83
H1 lead leg	L	strides	23	16	16	16		17	17	17	17	19	23	197				
Tao Xue (CHN) (1999)	time	7.12	11.71	16.35	21.12	26.04		31.23	36.65	42.21	48.16	54.30		61.55	8 / 8			
	reaction time		interval	4.59	4.64	4.77	4.92	5.19	5.42	5.56	5.95	6.14	7.25			14.00	15.53	17.65
			velocity	6.32	7.63	7.54	7.34	7.11	6.74	6.46	6.29	5.88	5.70	5.52	6.50	7.50	6.76	5.95
H1 lead leg	L	strides	24	16	16	16		17	17	17	18	18	21.5	196.5				

Heat 3

date 15-Sep-18

Henson (2018) - coaching observations

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Mo Jiadie (CHN) (2000)	time	6.74	11.08	15.58	20.13	24.99		30.12	35.55	41.26	47.15	53.17		59.60	5 / 1			
	reaction time		interval	4.34	4.50	4.55	4.86	5.13	5.43	5.71	5.89	6.02	6.43			13.39	15.42	17.62
			velocity	6.68	8.06	7.78	7.69	7.20	6.82	6.45	6.13	5.94	5.81	6.22	6.71	7.84	6.81	5.96
H1 lead leg	L	strides	24	16	16	16		17	18	18	19	19	21.5	200.5				
Tao Xue (CHN) (1999)	time	6.95	11.51	16.17	20.85	25.79		31.03	36.40	42.09	47.92	53.82		60.48	7 / 2			
	reaction time		interval	4.56	4.66	4.68	4.94	5.24	5.37	5.69	5.83	5.90	6.66			13.90	15.55	17.42
			velocity	6.47	7.68	7.51	7.48	7.09	6.68	6.52	6.15	6.00	5.93	6.01	6.61	7.55	6.75	6.03
H1 lead leg	L	strides	23	16	16	16		17	17	17	18	18	21	195				
Qiu Zhangyan (CHN) (1998)	time	7.04	11.70	16.53	21.42	26.46		31.56	36.80	42.24	47.93	53.79		60.51	2 / 3			
	reaction time		interval	4.66	4.83	4.89	5.04	5.10	5.24	5.44	5.69	5.86	6.72			14.38	15.38	16.99
			velocity	6.39	7.51	7.25	7.16	6.94	6.86	6.68	6.43	6.15	5.97	5.95	6.61	7.30	6.83	6.18
H1 lead leg	L	strides	24	17	17	17		17	17	18	18	19	23	204				
Chen Liying (CHN) (1994)	time	7.00	11.60	16.32	21.17	26.34		31.59	36.97	42.63	48.34	54.28		61.00	4 / 4			
	reaction time		interval	4.60	4.72	4.85	5.17	5.25	5.38	5.66	5.71	5.94	6.72			14.17	15.80	17.31
			velocity	6.43	7.61	7.42	7.22	6.77	6.67	6.51	6.18	6.13	5.89	5.95	6.56	7.41	6.65	6.07
H1 lead leg	L	strides	24	16	16	17		17	17	18	18	19	22	201				
Zhuang Yilan (CHN) (2000)	time	6.87	11.38	16.11	21.00	26.11		31.38	36.85	42.55	48.41	54.52		61.38	6 / 5			

reaction time	interval		4.51	4.73	4.89	5.11		5.27	5.47	5.70	5.86	6.11	6.86			14.13	15.85	17.67
	velocity	6.55	7.76	7.40	7.16	6.85		6.64	6.40	6.14	5.97	5.73	5.83	6.52		7.43	6.62	5.94
H1 lead leg	L	strides	25	15	17	17	17	17	17	17	19	19	21.5	201.5				
Liu Hongjuan (CHN) (1996)	time		7.06	11.61	16.25	21.07	26.01		31.20	36.72	42.36	48.27	54.57		61.85	3 / 6		
reaction time	interval		4.55	4.64	4.82	4.94		5.19	5.52	5.64	5.91	6.30	7.28			14.01	15.65	17.85
	velocity	6.37	7.69	7.54	7.26	7.09		6.74	6.34	6.21	5.92	5.56	5.49	6.47		7.49	6.71	5.88
H1 lead leg	L	strides	23	16	16	16	16	17	18	18	19	20	23	202				

Heat 2

date 15-Sep-18

Henson (2018) - coaching observations

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wu Xueting (CHN) (1995)	time		6.86	11.26	15.83	20.51	25.41		30.53	35.87	41.32	46.85	52.47		58.81	5 / 1			
reaction time	interval		4.40	4.57	4.68	4.90		5.12	5.34	5.45	5.53	5.62	6.34				13.65	15.36	16.60
	velocity	6.56	7.95	7.66	7.48	7.14		6.84	6.55	6.42	6.33	6.23	6.31	6.80		7.69	6.84	6.33	
H1 lead leg	L	strides	22	15	15	15	16	16	17	17	17	17	17	21	188				
Hu Lihong (CHN) (1999)	time		6.94	11.48	16.25	21.04	25.93		31.00	36.20	41.51	47.00	52.69		59.46	2 / 2			
reaction time	interval		4.54	4.77	4.79	4.89		5.07	5.20	5.31	5.49	5.69	6.77	PB			14.10	15.16	16.49
	velocity	6.48	7.71	7.34	7.31	7.16		6.90	6.73	6.59	6.38	6.15	5.91	6.73		7.45	6.93	6.37	
H1 lead leg	L	strides	23	16	16	16	16	17	17	17	17	17	17	20.5	192.5				
Wu Fangfang (CHN) (1997)	time		7.00	11.60	16.27	21.05	26.00		31.28	36.74	42.21	47.81	53.52		59.88	3 / 3			
reaction time	interval		4.60	4.67	4.78	4.95		5.28	5.46	5.47	5.60	5.71	6.36				14.05	15.69	16.78
	velocity	6.43	7.61	7.49	7.32	7.07		6.63	6.41	6.40	6.25	6.13	6.29	6.68		7.47	6.69	6.26	
H1 lead leg	L	strides	24	16	16	16	16	17	17	17	17	17	17	21.5	194.5				
Wang Hongyan (CHN) (1998)	time		7.04	11.73	16.53	21.46	26.41		31.69	37.12	42.71	48.50	54.39		60.96	7 / 4			
reaction time	interval		4.69	4.80	4.93	4.95		5.28	5.43	5.59	5.79	5.89	6.57				14.42	15.66	17.27
	velocity	6.39	7.46	7.29	7.10	7.07		6.63	6.45	6.26	6.04	5.94	6.09	6.56		7.28	6.70	6.08	
H1 lead leg	L	strides	25	17	17	17	17	18	18	18	19	19	22.7	207.7					
Ding Xiaoxue (CHN) (1998)	time		6.90	11.66	16.31	21.12	26.11		31.28	36.60	42.16	48.01	54.22		61.56	6 / 5			
reaction time	interval		4.76	4.65	4.81	4.99		5.17	5.32	5.56	5.85	6.21	7.34				14.22	15.48	17.62
	velocity	6.52	7.35	7.53	7.28	7.01		6.77	6.58	6.29	5.98	5.64	5.45	6.50		7.38	6.78	5.96	
H1 lead leg	L	strides	25	18	17	17	17	17	18	19	19	20	24	211					
Di Chengqian (CHN) (1999)	time		6.89	11.48	16.27	21.47									74.18	4 / 6			
reaction time	interval		4.59	4.79	5.20												14.58		
	velocity	6.53	7.63	7.31	6.73									5.39		7.20			
H1 lead leg	L	strides	23	16	16	18								73					

Heat 1

date 15-Sep-18

Henson (2018) - coaching observations

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Huang Yan (CHN) (1996)	time		6.74	11.21	15.82	20.45	25.18		30.05	35.23	40.57	46.05	51.80		58.67	7 / 1			
reaction time	interval		4.47	4.61	4.63	4.73		4.87	5.18	5.34	5.48	5.75	6.87				13.71	14.78	16.57
	velocity	6.68	7.83	7.59	7.56	7.40		7.19	6.76	6.55	6.39	6.09	5.82	6.82		7.66	7.10	6.34	
H1 lead leg	L	strides	24	17	17	17	17	17	18	18	18	19	19	23	205				
Ou Ying (CHN) (2001)	time		7.02	11.61	16.37	21.10	26.00		31.10	36.28	41.57	47.01	52.69		59.16	6 / 2			
reaction time	interval		4.59	4.76	4.73	4.90		5.10	5.18	5.29	5.44	5.68	6.47	PB			14.08	15.18	16.41
	velocity	6.41	7.63	7.35	7.40	7.14		6.86	6.76	6.62	6.43	6.16	6.18	6.76		7.46	6.92	6.40	
H1 lead leg	L	strides	24	17	17	17	17	17	17	17	17	17	18	21.7	199.7				
Liu Xin (CHN) (1992)	time		7.04	11.58	16.16	20.90	25.76		30.83	36.07	41.41	46.98	52.67		59.18	3 / 3			
reaction time	interval		4.54	4.58	4.74	4.86		5.07	5.24	5.34	5.57	5.69	6.51				13.86	15.17	16.60
	velocity	6.39	7.71	7.64	7.38	7.20		6.90	6.68	6.55	6.28	6.15	6.14	6.76		7.58	6.92	6.33	
H1 lead leg	L	strides	25	17	17	17	17	17	18	18	19	19	25.3	209.3					
Liang Yina (CHN) (2001)	time		7.02	11.56	16.23	20.99	25.92		31.03	36.43	41.93	47.66	53.69		60.38	5 / 4			
reaction time	interval		4.54	4.67	4.76	4.93		5.11	5.40	5.50	5.73	6.03	6.69				13.97	15.44	17.26
	velocity	6.41	7.71	7.49	7.35	7.10		6.85	6.48	6.36	6.11	5.80	5.98	6.62		7.52	6.80	6.08	
H1 lead leg	L	strides	25	17	17	17	17	17	18	18	18	18		164					
Zou Yifan (CHN) (2000)	time		7.06	11.68	16.42	21.17	26.03		31.11	36.40	42.00	47.88	53.94		60.48	4 / 5			
reaction time	interval		4.62	4.74	4.75	4.86		5.08	5.29	5.60	5.88	6.06	6.54				14.11	15.23	17.54
	velocity	6.37	7.58	7.38	7.37	7.20		6.89	6.62	6.25	5.95	5.78	6.12	6.61		7.44	6.89	5.99	
H1 lead leg	L	strides	24	17	17	17	17	17	17	18	20		164						
Wang Chen (CHN) (1999)	time		6.79	11.31	15.98	20.77	25.79		31.06	36.78	42.92				63.63	2 / 6			
reaction time	interval		4.52	4.67	4.79	5.02		5.27	5.72	6.14							13.98	16.01	
	velocity	6.63	7.74	7.49	7.31	6.97		6.64	6.12	5.70				6.29		7.51	6.56		
H1 lead leg	L	strides	23	17	17	17	17	17	18	19				145					

2018 IAAF Continental Cup (Ostrava, CZE) (TV Analysis)

FINAL

date 09-Sep-18

Henson (2021) - Athlete First: 2018 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Russell, Janieve (JAM) (1993)	time		6.36	10.60	14.94	19.32	23.76		28.28	32.92	37.62	42.64	47.64		53.62	1 / 1			
reaction time	0.156 interval		4.24	4.34	4.38	4.44		4.52	4.64	4.70	5.02	5.00	5.98				12.96	13.60	14.72

	velocity	7.08	8.25	8.06	7.99	7.88		7.74	7.54	7.45	6.97	7.00	6.69	7.46		8.10	7.72	7.13
H1 lead leg	R	strides	22	15	15	15	15	15	15	15	16	16	19.2	178.2				
Little, Shamier (USA) (1995)	time	6.28	10.52	14.88	19.32	23.84		28.36	33.00	37.84	42.80	47.88		53.86	5 / 2			
reaction time	0.223	interval	4.24	4.36	4.44	4.52		4.52	4.64	4.84	4.96	5.08	5.98			13.04	13.68	14.88
	velocity	7.17	8.25	8.03	7.88	7.74		7.74	7.54	7.23	7.06	6.89	6.69	7.43		8.05	7.68	7.06
H1 lead leg	R	strides	23	15	15	15	15	15	15	15	15	16	19.2	178.2				
Ryzhykova, Anna (UKR) (1991)	time	6.36	10.48	14.68	19.00	23.36		28.00	32.88	37.80	43.04	48.24		54.47	8 / 3			
reaction time	0.172	interval	4.12	4.20	4.32	4.36		4.64	4.88	4.92	5.24	5.20	6.23			12.64	13.88	15.36
	velocity	7.08	8.50	8.33	8.10	8.03		7.54	7.17	7.11	6.68	6.73	6.42	7.34		8.31	7.56	6.84
H1 lead leg	R	strides	22	14	14	14	14	15	15	15	16	16	19.7	174.7				
Beesley, Meghan (GBR) (1996)	time	6.24	10.44	14.84	19.20	23.72		28.40	33.32	38.52	43.96	49.40		55.58	4 / 4			
reaction time	0.170	interval	4.20	4.40	4.36	4.52		4.68	4.92	5.20	5.44	5.44	6.18			12.96	14.12	16.08
	velocity	7.21	8.33	7.95	8.03	7.74		7.48	7.11	6.73	6.43	6.43	6.47	7.20		8.10	7.44	6.53
H1 lead leg	L	strides	24	16	16	16	16	16	17	17	18	18	22	196				
Yusuf Jamal, Aminat (BRN)	time	6.20	10.32	14.52	18.72	23.04		27.64	32.64	37.80	43.16	48.84		55.65	3 / 5			
reaction time	0.194	interval	4.12	4.20	4.20	4.32		4.60	5.00	5.16	5.36	5.68	6.81			12.52	13.92	16.20
	velocity	7.26	8.50	8.33	8.33	8.10		7.61	7.00	6.78	6.53	6.16	5.87	7.19		8.39	7.54	6.48
H1 lead leg	R	strides	23	15	15	15	15	15	16	17	17	18	21.5	187.5				
Nel, Wenda (RSA) (1988)	time	6.32	10.56	15.04	19.52	24.12		28.80	33.68	38.76	44.12	49.80		56.54	2 / 6			
reaction time	0.192	interval	4.24	4.48	4.48	4.60		4.68	4.88	5.08	5.36	5.68	6.74			13.20	14.16	16.12
	velocity	7.12	8.25	7.81	7.81	7.61		7.48	7.17	6.89	6.53	6.16	5.93	7.07		7.95	7.42	6.51
H1 lead leg	L	strides	23	16	16	16	16	16	17	17	18	19	22.5	196.5				
Lhabze, Lamiae (MAR) (1984)	time	6.44	10.76	15.20	19.72	24.40		29.28	34.36		45.04	50.68		57.35	6 / 7			
reaction time	0.158	interval	4.32	4.44	4.52	4.68		4.88	5.08		10.68	5.64	6.67			13.28	14.64	16.32
	velocity	6.99	8.10	7.88	7.74	7.48		7.17	6.89		6.55	6.21	6.00	6.97		7.91	7.17	6.43
H1 lead leg	L	strides	23	15	15	15	15	15	16			17	19.5	150.5				
Utsunomiya, Eri (JPN) (1993)	time	6.24	10.48	14.92	19.48	24.36		29.72	34.96	40.32	45.96			58.92	7 / 8			
reaction time	0.181	interval	4.24	4.44	4.56	4.88		5.36	5.24	5.36	5.64					13.24	15.48	
	velocity	7.21	8.25	7.88	7.68	7.17		6.53	6.68	6.53	6.21			6.79		7.93	6.78	
H1 lead leg	L	strides	23	15	15	15	16	18	17		18			137				

2018 Weltklasse (Zürich, SUI) (TV Analysis)

FINAL

date 30-Aug-18

Henson (2020) - Athlete First: 2018 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Muhammad, Dalilah (USA) (1993)	time	6.24	10.36	14.68	19.16	23.68	25.7	28.16	32.76	37.56	42.60	47.76		53.88	5 / 1			
reaction time	0.184	interval	4.12	4.32	4.48	4.52		4.48	4.60	4.80	5.04	5.16	6.12			12.92	13.60	15.00
	velocity	7.21	8.50	8.10	7.81	7.74	7.78	7.81	7.61	7.29	6.94	6.78	6.54	7.42		8.13	7.72	7.00
H1 lead leg	R	strides	22	15	15	15		15	15	15	16	16	20.2	179.2				
Little, Shamier (USA) (1995)	time	6.24	10.44	14.75	19.20	23.64	25.6	28.24	32.96	37.84	42.88	48.08		54.21	3 / 2			
reaction time	0.213	interval	4.20	4.31	4.45	4.44		4.60	4.72	4.88	5.04	5.20	6.13			12.96	13.76	15.12
	velocity	7.21	8.33	8.12	7.87	7.88	7.81	7.61	7.42	7.17	6.94	6.73	6.53	7.38		8.10	7.63	6.94
H1 lead leg	R	strides	23	15	15	15	15	15	15	16	16	17	20	182				
Russell, Janieve (JAM) (1993)	time	6.52	10.80	15.16		24.12	26.1	28.68	33.32	38.12	43.12	48.32		54.38	6 / 3			
reaction time	0.153	interval	4.28	4.36		8.96		4.56	4.64	4.80	5.00	5.20	6.06					15.00
	velocity	6.90	8.18	8.03		7.81	7.66	7.68	7.54	7.29	7.00	6.73	6.60	7.36				7.00
H1 lead leg	R	strides	22	15	15			15	15	16		17	20	135				
Moline, Georganne (USA) (1991)	time	6.52	10.72	15.04		23.92	25.9	28.48	33.16		43.24	48.76		55.00	2 / 4			
reaction time	0.261	interval	4.20	4.32		8.88		4.56	4.68		10.08	5.52	6.24					15.60
	velocity	6.90	8.33	8.10		7.88	7.72	7.68	7.48		6.94	6.34	6.41	7.27				6.73
H1 lead leg	L	strides	23	16	15			15	15			17	20.2	121.2				
Doyle, Eilidh (GBR) (1987)	time	6.52	10.76	15.08		23.96	26.0	28.68	33.48		43.64	48.92		55.05	7 / 5			
reaction time	0.176	interval	4.24	4.32		8.88		4.72	4.80		10.16	5.28	6.13					15.44
	velocity	6.90	8.25	8.10		7.88	7.69	7.42	7.29		6.89	6.63	6.53	7.27				6.80
H1 lead leg	L	strides	23	15	15			16	16			17	21	123				
Sprunger, Leá (SUI) (1990)	time	6.52	10.84	15.20	19.72	24.20	26.2	28.96	33.84	38.84	44.00	49.44		55.36	4 / 6			
reaction time	0.174	interval	4.32	4.36	4.52	4.48		4.76	4.88	5.00	5.16	5.44	5.92			13.20	14.12	15.60
	velocity	6.90	8.10	8.03	7.74	7.81	7.63	7.35	7.17	7.00	6.78	6.43	6.76	7.23		7.95	7.44	6.73
H1 lead leg	R	strides	21	14	14	14	14	15	15	15		17	18.5	157.5				
Watson, Sage (CAN) (1994)	time	6.52	10.80	15.08		23.96	26.0	28.56	33.44		43.84			55.57	8 / 7			
reaction time	0.184	interval	4.28	4.28		8.88		4.60	4.88		10.40							
	velocity	6.90	8.18	8.18		7.88	7.69	7.61	7.17		6.73			7.20				
H1 lead leg	R	strides	22	15	15			15	16					83				

2018 Müller Grand Prix (Birmingham, GBR) (TV Analysis)

FINAL

date 18-Aug-18

Henson (2020) - Athlete First: 2018 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Sprunger, Leá (SUI) (1990)	time	6.44	10.77	15.25	19.78	24.35		29.13	34.06	39.00	44.04	49.18		54.86	4 / 1			
	reaction time	0.116	interval	4.33	4.48	4.53	4.57	4.78	4.93	4.94	5.04	5.14	5.68			13.34	14.28	15.12
	velocity	6.99	8.08	7.81	7.73	7.66		7.32	7.10	7.09	6.94	6.81	7.04	7.29		7.87	7.35	6.94
	H1 lead leg	R	21	14	14	14	14		15	15	15	15	15	18.2	170.2			
Russell, Janieve (JAM) (1993)	time	6.60	10.98	15.55	20.18	24.79		29.66	34.47	39.39	44.24	49.21		54.91	6 / 2			
	reaction time	0.149	interval	4.38	4.57	4.63	4.61	4.87	4.81	4.92	4.85	4.97	5.70			13.58	14.29	14.74
	velocity	6.82	7.99	7.66	7.56	7.59		7.19	7.28	7.11	7.22	7.04	7.02	7.28		7.73	7.35	7.12
	H1 lead leg	R	22	15	15	15	15		15	15	16	16	16	19.2	179.2			
Beesley, Meghan (GBR) (198)	time	6.37	10.64	15.11	19.65	24.22		29.13	34.06	39.17	44.41	49.68		55.83	7 / 3			
	reaction time	0.168	interval	4.27	4.47	4.54	4.57	4.91	4.93	5.11	5.24	5.27	6.15			13.28	14.41	15.62
	velocity	7.06	8.20	7.83	7.71	7.66		7.13	7.10	6.85	6.68	6.64	6.50	7.16		7.91	7.29	6.72
	H1 lead leg	R	24	16	16	16	16		17	17	17	18	18	22	197			
Doyle, Eilidh (GBR) (1987)	time	6.47	10.74	15.21	19.85	24.69		29.59	34.63	39.74	45.01	50.38		56.61	3 / 4			
	reaction time	0.159	interval	4.27	4.47	4.64	4.84	4.90	5.04	5.11	5.27	5.37	6.23			13.38	14.78	15.75
	velocity	6.96	8.20	7.83	7.54	7.23		7.14	6.94	6.85	6.64	6.52	6.42	7.07		7.85	7.10	6.67
	H1 lead leg	L	23	15	15	16	16		16	17	17	18	18	21	192			
Watson, Sage (CAN) (1994)	time	6.50	10.84	15.41	19.99	24.79		29.76	34.83	40.07	45.44			57.11	8 / 5			
	reaction time	0.174	interval	4.34	4.57	4.58	4.80	4.97	5.07	5.24	5.37					13.49	14.84	
	velocity	6.92	8.06	7.66	7.64	7.29		7.04	6.90	6.68	6.52			7.00		7.78	7.08	
	H1 lead leg	R	21	15	16	16		16	16	17	17			134				
Nel, Wenda (RSA) (1988)	time	6.40	10.71	15.18	19.82	24.62		29.43	34.43	39.57	45.08	50.85		57.51	2 / 6			
	reaction time	0.183	interval	4.31	4.47	4.64	4.80	4.81	5.00	5.14	5.51	5.77	6.66			13.42	14.61	16.42
	velocity	7.03	8.12	7.83	7.54	7.29		7.28	7.00	6.81	6.35	6.07	6.01	6.96		7.82	7.19	6.39
	H1 lead leg	L	23	16	16	16	16		16	17	17	18	18	22	195			

2018 Japanese National High School Championships (Nagoya, JPN)

FINAL

date 04-Aug-18

Kota (2018) - 71st high school championships: JAF scientific committee - biomechanics data collection

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Oike, Saori (JPN)	time	7.04	11.71	16.45	21.32	26.31		31.38	36.45	41.63	46.95	52.65		59.00	5 / 1			
	reaction time		interval	4.67	4.74	4.87	4.99	5.07	5.07	5.18	5.32	5.70	6.35	PB		14.28	15.13	16.20
	velocity	6.39	7.49	7.38	7.19	7.01		6.90	6.90	6.76	6.58	6.14	6.30	6.78		7.35	6.94	6.48
	H1 lead leg		strides	17	17	17	17		17	17	17	17	19	155				
Aoki, Honoka (JPN) (2001)	time	7.01	11.64	16.43	21.32	26.33		31.48	36.70	41.99	47.40	52.95		59.08	6 / 2			
	reaction time		interval	4.63	4.79	4.89	5.01	5.15	5.22	5.29	5.41	5.55	6.13	PB		14.31	15.38	16.25
	velocity	6.42	7.56	7.31	7.16	6.99		6.80	6.70	6.62	6.47	6.31	6.53	6.77		7.34	6.83	6.46
	H1 lead leg		strides	17	17	17	17		17	17	18	18	18	156				
Shimizu, Hana (JPN) (2001)	time	6.77	11.38	16.12	20.97	26.08		31.21	36.42	41.74	47.43	53.14		59.61	4 / 3			
	reaction time		interval	4.61	4.74	4.85	5.11	5.13	5.21	5.32	5.69	5.71	6.47	PB		14.20	15.45	16.72
	velocity	6.65	7.59	7.38	7.22	6.85		6.82	6.72	6.58	6.15	6.13	6.18	6.71		7.39	6.80	6.28
	H1 lead leg		strides	17	17	17	17		17	17	17	19	19	157				
Ban, Nozomi (JPN) (2001)	time	6.97	11.64	16.38	21.34	26.43		31.61	36.90	42.31	47.83	53.50		59.96	8 / 4			
	reaction time		interval	4.67	4.74	4.96	5.09	5.18	5.29	5.41	5.52	5.67	6.46			14.37	15.56	16.60
	velocity	6.46	7.49	7.38	7.06	6.88		6.76	6.62	6.47	6.34	6.17	6.19	6.67		7.31	6.75	6.33
	H1 lead leg		strides	16	16	17	17		17	17	17	17	17	151				
Okawa, Nazuna (JPN) (2001)	time	7.26	12.08	17.00	21.94	26.94		32.10	37.27	42.51	47.95	53.79		60.12	2 / 5			
	reaction time		interval	4.82	4.92	4.94	5.00	5.16	5.17	5.24	5.44	5.84	6.33			14.68	15.33	16.52
	velocity	6.20	7.26	7.11	7.09	7.00		6.78	6.77	6.68	6.43	5.99	6.32	6.65		7.15	6.85	6.36
	H1 lead leg		strides	17	17	17	17		17	17	17	17	19	155				
Saijara, Mai (JPN)	time	6.86	11.49	16.25	21.26	26.43		31.82	37.47	43.14	48.98	54.67		60.86	9 / 6			
	reaction time		interval	4.63	4.76	5.01	5.17	5.39	5.65	5.67	5.84	5.69	6.19			14.40	16.21	17.20
	velocity	6.56	7.56	7.35	6.99	6.77		6.49	6.19	6.17	5.99	6.15	6.46	6.57		7.29	6.48	6.10
	H1 lead leg		strides	17	17	17	17		17	18	18	19	19	159				
Tsugawa, Rui (JPN) (2001)	time	6.97	11.63	16.53	21.57	26.74		32.05	37.35	42.99	48.87	54.77		60.89	7 / 7			
	reaction time		interval	4.66	4.90	5.04	5.17	5.31	5.30	5.64	5.88	5.90	6.12			14.60	15.78	17.42
	velocity	6.46	7.51	7.14	6.94	6.77		6.59	6.60	6.21	5.95	5.93	6.54	6.57		7.19	6.65	6.03
	H1 lead leg		strides	17	17	17	17		17	17	19	19	19	159				
Kawamura, Yuka (JPN) (2001)	time	6.77	11.39	16.37	21.34	26.46		31.66	37.07	42.83	49.00	54.79		61.38	3 / 8			
	reaction time		interval	4.62	4.98	4.97	5.12	5.20	5.41	5.76	6.17	5.79	6.59			14.57	15.73	17.72
	velocity	6.65	7.58	7.03	7.04	6.84		6.73	6.47	6.08	5.67	6.04	6.07	6.52		7.21	6.68	5.93
	H1 lead leg		strides	17	17	17	17		17	17	19	19	19	159				

2018 Müller Anniversary Games (London, GBR) (TV Analysis)

FINAL

date 21-Jul-18

Henson (2020) - Athlete First: 2018 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Little, Shamier (USA) (1995)	time	6.32	10.60	14.92	19.32	23.92		28.52	33.36	38.24	43.24	48.24		53.95	5 / 1			

reaction time	0.143	interval	4.28	4.32	4.40	4.60	4.60	4.84	4.88	5.00	5.00	5.71		13.00	14.04	14.88
		velocity	7.12	8.18	8.10	7.95	7.61	7.61	7.23	7.17	7.00	7.01	7.41	8.08	7.48	7.06
H1 lead leg	L	strides	23	15	14	15	15	15	16	16	16	19.5	180.5			
Russell, Janieve (JAM) (1993)	time	6.44	10.68	15.08	19.60	24.08	28.68	33.44	38.28	43.16	48.20		53.96	6 / 2		
reaction time	0.206	interval	4.24	4.40	4.52	4.48	4.60	4.76	4.84	4.88	5.04	5.76		13.16	13.84	14.76
		velocity	6.99	8.25	7.95	7.74	7.81	7.61	7.35	7.23	7.17	6.94	7.41	7.98	7.59	7.11
H1 lead leg	R	strides	22	15	15	15	15	15	15	16	16	16	19.5	179.5		
Muhammad, Dalilah (USA) (1993)	time	6.12	10.32	14.68	19.20	23.84	28.56	33.32	38.32	43.44	48.56		54.86	4 / 3		
reaction time	interval	4.20	4.36	4.52	4.64	4.72	4.76	5.00	5.12	5.12	6.30			13.08	14.12	15.24
	velocity	7.35	8.33	8.03	7.74	7.54	7.42	7.35	7.00	6.84	6.84	6.35	7.29	8.03	7.44	6.89
H1 lead leg	R	strides	23	15	15	15	15	15	16	16	16	19.7	180.7			
Moline, Georganne (USA) (1993)	time	6.44	10.80	15.16	19.56	24.04	28.64	33.40	38.48	43.88	49.32		55.47	7 / 4		
reaction time	0.211	interval	4.36	4.36	4.40	4.48	4.60	4.76	5.08	5.40	5.44	6.15		13.12	13.84	15.92
	velocity	6.99	8.03	8.03	7.95	7.81	7.61	7.35	6.89	6.48	6.43	6.50	7.21	8.00	7.59	6.60
H1 lead leg	L	strides	23	16	15	15	15	15	15	16	17	17	20	184		
Nel, Wenda (RSA) (1988)	time	6.40	10.72	15.16	19.68	24.32	29.04	33.92	38.96	44.04	49.32		55.67	1 / 5		
reaction time	0.179	interval	4.32	4.44	4.52	4.64	4.72	4.88	5.04	5.08	5.28	6.35		13.28	14.24	15.40
	velocity	7.03	8.10	7.88	7.74	7.54	7.42	7.17	6.94	6.89	6.63	6.30	7.19	7.91	7.37	6.82
H1 lead leg	L	strides	23	16	16	16	16	16	17	17	17	21.7	192.7			
Tracey, Ristananna (JAM) (1993)	time	6.44	10.68	14.96	19.36	24.00	28.84	33.88	39.12	44.48	49.80		56.07	9 / 6		
reaction time	0.204	interval	4.24	4.28	4.40	4.64	4.84	5.04	5.24	5.36	5.32	6.27		12.92	14.52	15.92
	velocity	6.99	8.25	8.18	7.95	7.54	7.23	6.94	6.68	6.53	6.58	6.38	7.13	8.13	7.23	6.60
H1 lead leg	L	strides	23	15	15	15	16	16	16	17	17	20.5	187.5			
Doyle, Eilidh (GBR) (1987)	time	6.40	10.68	15.16	19.52	24.00	28.72	33.64	38.76	44.32	49.68		56.18	8 / 7		
reaction time	0.149	interval	4.28	4.48	4.36	4.48	4.72	4.92	5.12	5.56	5.36	6.50		13.12	14.12	16.04
	velocity	7.03	8.18	7.81	8.03	7.81	7.42	7.11	6.84	6.29	6.53	6.15	7.12	8.00	7.44	6.55
H1 lead leg	L	strides	23	16	16	15	15	16	17	17	18	18	22	193		
Watson, Sage (CAN) (1994)	time	6.44	10.72	15.04	19.44	24.00	28.80	33.82	38.88	44.20	49.80		56.21	2 / 8		
reaction time	0.174	interval	4.28	4.32	4.40	4.56	4.80	5.02	5.06	5.32	5.60	6.41		13.00	14.38	15.98
	velocity	6.99	8.18	8.10	7.95	7.68	7.29	6.97	6.92	6.58	6.25	6.24	7.12	8.08	7.30	6.57
H1 lead leg	R	strides	22	15	15	15	16	16	16	17	17	20	184			
Spencer, Ashley (USA) (1993)	time	6.60	10.88	15.24	19.76	24.40	29.20	34.04	39.20	44.64	50.24		57.00	3 / 9		
reaction time	0.164	interval	4.28	4.36	4.52	4.64	4.80	4.84	5.16	5.44	5.60	6.76		13.16	14.28	16.20
	velocity	6.82	8.18	8.03	7.74	7.54	7.29	7.23	6.78	6.43	6.25	5.92	7.02	7.98	7.35	6.48
H1 lead leg	L	strides	22	15	15	15	15	15	16	16	16	19.5	179.5			

2018 IAAF World Junior Championships (Tampere, FIN) (TV Analysis)

FINAL

date 13-Jul-18

Henson (2020) - Athlete First: 2018 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Van Der Walt, Zeney (RSA) (1993)	time	6.50	10.66	15.03	19.40	23.96	28.66	33.53	38.66	43.80	49.16		55.34	5 / 1				
reaction time	0.206	interval	4.16	4.37	4.37	4.56	4.70	4.87	5.13	5.14	5.36	6.18			12.90	14.13	15.63	
	velocity	6.92	8.41	8.01	8.01	7.68	7.45	7.19	6.82	6.81	6.53	6.47	7.23		8.14	7.43	6.72	
H1 lead leg	L	strides	23	15	15	15	15	16	17	17	17	20.5	185.5					
Salmon, Shiann (JAM) (1999)	time	6.13	10.33	14.73	19.30	23.90	28.70	33.70	38.70	43.86	49.36		56.11	4 / 2				
reaction time	0.167	interval	4.20	4.40	4.57	4.60	4.80	5.00	5.00	5.16	5.50	6.75			13.17	14.40	15.66	
	velocity	7.34	8.33	7.95	7.66	7.61	7.29	7.00	7.00	6.78	6.36	5.93	7.13		7.97	7.29	6.70	
H1 lead leg	R	strides	22	15	15	15	15	16	16	16	17	21	183					
Giger, Yasmin (SUI) (1999)	time	6.40	10.70	15.06	19.66	24.36	29.20	34.16	39.30	44.66	50.40		56.98	8 / 3				
reaction time	0.179	interval	4.30	4.36	4.60	4.70	4.84	4.96	5.14	5.36	5.74	6.58			13.26	14.50	16.24	
	velocity	7.03	8.14	8.03	7.61	7.45	7.23	7.06	6.81	6.53	6.10	6.08	7.02		7.92	7.24	6.47	
H1 lead leg	R	strides	23	15	15	15	15	16	16	16	17	17	147					
Gallego, Sara (ESP) (2000)	time	6.76	11.20	15.66	20.26	25.00	29.86	34.86	39.93	45.26	50.73		57.11	6 / 4				
reaction time	0.190	interval	4.44	4.46	4.60	4.74	4.86	5.00	5.07	5.33	5.47	6.38	NJR PB		13.50	14.60	15.87	
	velocity	6.66	7.88	7.85	7.61	7.38	7.20	7.00	6.90	6.57	6.40	6.27	7.00		7.78	7.19	6.62	
H1 lead leg	R	strides	24	17	17	17	17	17	17	17	18	18	161					

2018 Athletissima (Lausanne, SUI) (TV Analysis)

FINAL

date 05-Jul-18

Henson (2020) - Athlete First: 2018 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Little, Shamier (USA) (1995)	time	6.16	10.36	14.68	19.04	23.48	28.04	32.72	37.52	42.44	47.48		53.41	4 / 1				
reaction time	0.188	interval	4.20	4.32	4.36	4.44	4.56	4.68	4.80	4.92	5.04	5.93			12.88	13.68	14.76	
	velocity	7.31	8.33	8.10	8.03	7.88	7.68	7.48	7.29	7.11	6.94	6.75	7.49		8.15	7.68	7.11	
H1 lead leg	R	strides	23	15	15	15	15	15	16	16	16	20	181					
Russell, Janieve (JAM) (1993)	time	6.32	10.52	14.84	19.20	23.68	28.16	32.80	37.48	42.44	47.48		53.46	5 / 2				
reaction time	0.147	interval	4.20	4.32	4.36	4.48	4.48	4.64	4.68	4.96	5.04	5.98	PB		12.88	13.60	14.68	
	velocity	7.12	8.33	8.10	8.03	7.81	7.81	7.54	7.48	7.06	6.94	6.69	7.48		8.15	7.72	7.15	

H1 lead leg	R	strides	22	15	15	15	15	15	15	15	15	16	16	19.5	178.5				
Moline, Georganne (USA) (1			6.32	10.56	19.32	23.72			28.24	32.80	37.56	42.52	47.68		53.90	7 / 3			
reaction time	0.204	interval	4.24	8.76	4.40			4.52	4.56	4.76	4.96	5.16	6.22				13.00	13.48	14.88
		velocity	7.12	8.25	7.99	7.95		7.74	7.68	7.35	7.06	6.78	6.43	7.42			8.08	7.79	7.06
H1 lead leg	R	strides	22	15		15		15	15	15	16	16	20	149					
Muhammad, Dalilah (USA) (6.16	10.20	14.48	18.80	23.20		27.88	32.80	37.84	42.96	48.28		54.61	3 / 4			
reaction time	0.182	interval	4.04	4.28	4.32	4.40		4.68	4.92	5.04	5.12	5.32	6.33				12.64	14.00	15.48
		velocity	7.31	8.66	8.18	8.10	7.95	7.48	7.11	6.94	6.84	6.58	6.32	7.32			8.31	7.50	6.78
H1 lead leg	R	strides	23	15	15	15	15	15	16	16	16	16	19.5	181.5					
Spencer, Ashley (USA) (1993			6.40	10.72	19.64	24.16		28.80	33.64	38.52	43.56	48.76		54.74	8 / 5				
reaction time	0.153	interval	4.32	8.92	4.52		4.64	4.84	4.88	5.04	5.20	5.98					13.24	14.00	15.12
		velocity	7.03	8.10	7.85	7.74	7.54	7.23	7.17	6.94	6.73	6.69	7.31				7.93	7.50	6.94
H1 lead leg	L	strides	22	15		15		15	15	15	15	15	127						
Sprunger, Leá (SUI) (1990)			6.40	10.72	19.48	24.00		28.72	33.60	38.56	43.60	48.80		54.79	6 / 6				
reaction time	0.126	interval	4.32	8.76	4.52		4.72	4.88	4.96	5.04	5.20	5.99					13.08	14.12	15.20
		velocity	7.03	8.10	7.99	7.74	7.42	7.17	7.06	6.94	6.73	6.68	7.30				8.03	7.44	6.91
H1 lead leg	R	strides	21	14		14		15	15	15	15	15	18.5	142.5					
Tate, Cassandra (USA) (1990)			6.28	10.40	19.16	23.64		28.32	33.28	38.40	43.56	49.00		55.45	2 / 7				
reaction time	0.208	interval	4.12	8.76	4.48		4.68	4.96	5.12	5.16	5.44	6.45					12.88	14.12	15.72
		velocity	7.17	8.50	7.99	7.81	7.48	7.06	6.84	6.78	6.43	6.20	7.21				8.15	7.44	6.68
H1 lead leg	R	strides	22	15		15		15	16	16	16	20	151						

2018 USATF National Championships (Des Moines, IA) (TV Analysis)

FINAL

date 24-Jun-18

Henson (2020) - Athlete First: 2018 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Little, Shamier (USA) (1995)	time		6.30	10.51	14.78	19.15	23.55		28.09	32.66	37.40	42.31	47.54		53.61	5 / 1			
reaction time	interval		4.21	4.27	4.37	4.40		4.54	4.57	4.74	4.91	5.23	6.07				12.85	13.51	14.88
	velocity		7.14	8.31	8.20	8.01	7.95	7.71	7.66	7.38	7.13	6.69	6.59	7.46			8.17	7.77	7.06
H1 lead leg	R	strides	23	15	15	15	15	15	15	15	15	16	16	20	180				
Moline, Georganne (USA) (1	time		6.40	10.51	14.71	19.05	23.49		27.99	32.56	37.27	42.24	47.58		54.12	4 / 2			
reaction time	interval		4.11	4.20	4.34	4.44		4.50	4.57	4.71	4.97	5.34	6.54				12.65	13.51	15.02
	velocity		7.03	8.52	8.33	8.06	7.88	7.78	7.66	7.43	7.04	6.55	6.12	7.39			8.30	7.77	6.99
H1 lead leg	R	strides	22	15	15	15	15	15	15	15	15	16	17	20.5	180.5				
Tate, Cassandra (USA) (1990)	time		6.24	10.34	14.54	18.88	23.32		27.86	32.63	37.70	43.01	48.58		55.00	3 / 3			
reaction time	interval		4.10	4.20	4.34	4.44		4.54	4.77	5.07	5.31	5.57	6.42				12.64	13.75	15.95
	velocity		7.21	8.54	8.33	8.06	7.88	7.71	7.34	6.90	6.59	6.28	6.23	7.27			8.31	7.64	6.58
H1 lead leg	R	strides	22	15	15	15	15	15	15	15	15	16	17	20	180				
Payne, Kymber (USA) (1996)	time		6.47	10.67	14.91	19.32	23.75		28.46	33.30	38.27	43.44	48.91		55.54	6 / 4			
reaction time	interval		4.20	4.24	4.41	4.43		4.71	4.84	4.97	5.17	5.47	6.63				12.85	13.98	15.61
	velocity		6.96	8.33	8.25	7.94	7.90	7.43	7.23	7.04	6.77	6.40	6.03	7.20			8.17	7.51	6.73
H1 lead leg	L	strides	24	15	15	15	15	16	16	17	17	17	20	187					
Cockrell, Anna (USA) (1997)	time		6.17	10.17	14.34	18.68	23.29		33.06	38.30	43.74	49.45		56.14	8 / 5				
reaction time	interval		4.00	4.17	4.34	4.61		9.77	5.24	5.44	5.71	6.69					12.51	14.38	16.39
	velocity		7.29	8.75	8.39	8.06	7.59	7.16	6.68	6.43	6.13	5.98	7.13				8.39	7.30	6.41
H1 lead leg	L	strides	22	14	15	15	15				16	17	17	131					

2018 Japanese National Championships (Yamaguchi, JPN)

FINAL

date 24-Jun-18

Morioka (2018) - race pattern analysis of Japan's top 400m hurdles - main national competitions in 2018

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Utsumomiya, Eri (JPN) (1993)	time		6.50	10.85	15.37	20.09	25.10		30.21	35.38	40.62	45.94	51.28		57.37	6 / 1			
reaction time	0.178	interval	4.35	4.52	4.72	5.01		5.11	5.17	5.24	5.32	5.34	6.09				13.59	15.29	15.90
	velocity		6.92	8.05	7.74	7.42	6.99	6.85	6.77	6.68	6.58	6.55	6.57	6.97			7.73	6.87	6.60
H1 lead leg	R		23	15	15	15	16	16	17	17	17	17	21	189					
Aoki, Sayaka (JPN) (1986)	time		6.54	10.99	15.61	20.26	25.11		30.08	35.12	40.26	45.55	51.09		57.64	5 / 2			
reaction time	0.175	interval	4.45	4.62	4.65	4.85		4.97	5.04	5.14	5.29	5.54	6.55				13.72	14.86	15.97
	velocity		6.88	7.87	7.58	7.53	7.22	7.04	6.94	6.81	6.62	6.32	6.11	6.94			7.65	7.07	6.57
H1 lead leg	L		24	16	16	16	16	17	17	17	17	17	21.5	194.5					
Koyama, Kana (JPN) (1991)	time		6.62	10.97	15.52	20.41	25.35		30.37	35.49	40.75	46.14	51.63		57.94	4 / 3			
reaction time	0.164	interval	4.35	4.55	4.89	4.94		5.02	5.12	5.26	5.39	5.49	6.31				13.79	15.08	16.14
	velocity		6.80	8.05	7.69	7.16	7.09	6.97	6.84	6.65	6.49	6.38	6.34	6.90			7.61	6.96	6.51
H1 lead leg	L		22	15	15	16	16	17	17	17	17	17	21	190					

2018 NCAA Championships (Eugene, OR) (TV Analysis)

FINAL

date 09-Jun-18

Henson (2020) - Athlete First: 2018 year end hurdle report

McLaughlin, Sydney (USA) (time		6.43	10.53	14.63	18.90	23.20		27.73	32.43	37.33	42.60	47.93		53.96	4 / 1			
reaction time	interval		4.10	4.10	4.27	4.30		4.53	4.70	4.90	5.27	5.33	6.03				12.47	13.53	15.50

	velocity	7.00	8.54	8.54	8.20	8.14		7.73	7.45	7.14	6.64	6.57	6.63	7.41		8.42	7.76	6.77
H1 lead leg	R	strides	14	14	14	14		15	15	15	16	16	19.2	152.2				
Cockrell, Anna (USA) (1997)	time	6.43	10.43		19.16	23.73		28.56	33.63	38.80	44.06	49.40		55.71	5 / 2			
reaction time	interval		4.00		8.73	4.57		4.83	5.07	5.17	5.26	5.34	6.31			12.73	14.47	15.77
	velocity	7.00	8.75		8.02	7.66		7.25	6.90	6.77	6.65	6.55	6.34	7.18		8.25	7.26	6.66
H1 lead leg	L	strides	14		15			16	16	16		16	20.5	113.5				
Payne, Kymber (USA) (1996)	time	6.73	10.93	15.20	19.53	23.96		28.73	33.70		44.33	50.03		56.88	6 / 3			
reaction time	interval		4.20	4.27	4.33	4.43		4.77	4.97		10.63	5.70	6.85			12.80	14.17	16.33
	velocity	6.69	8.33	8.20	8.08	7.90		7.34	7.04		6.59	6.14	5.84	7.03		8.20	7.41	6.43
H1 lead leg	L	strides	24	15	15	15		16	16	17		18	136					

2018 Bislett Games (Oslo, NOR) (TV Analysis)

FINAL

date 07-Jun-18

Henson (2020) - Athlete First: 2018 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Muhammad, Dalilah (USA) (1990)	time	6.04	10.08	14.44	18.96	23.56	25.5	28.08	32.72	37.64	42.48	47.64		53.65	5 / 1			
reaction time	0.166 interval		4.04	4.36	4.52	4.60		4.52	4.64	4.92	4.84	5.16	6.01			12.92	13.76	14.92
	velocity	7.45	8.66	8.03	7.74	7.61	7.84	7.74	7.54	7.11	7.23	6.78	6.66	7.46		8.13	7.63	7.04
H1 lead leg	R	strides	23	15	15	15		15	15	16	16	16	19.7	180.7				
Little, Shamier (USA) (1995)	time	6.20	10.28	14.52	18.88	23.36	25.3	27.88	32.56	37.48	42.48	47.68		53.94	4 / 2			
reaction time	0.200 interval		4.08	4.24	4.36	4.48		4.52	4.68	4.92	5.00	5.20	6.26			12.68	13.68	15.12
	velocity	7.26	8.58	8.25	8.03	7.81	7.91	7.74	7.48	7.11	7.00	6.73	6.39	7.42		8.28	7.68	6.94
H1 lead leg	R	strides	23	15	15	15		15	15	16	16	16	20	181				
Watson, Sage (CAN) (1994)	time	6.36	10.56	14.88		24.00	26.0	28.68	33.64	38.64	43.68	48.84		54.55	1 / 3			
reaction time	0.162 interval		4.20	4.32		9.12		4.68	4.96	5.00	5.04	5.16	5.71					15.20
	velocity	7.08	8.33	8.10		7.68	7.69	7.48	7.06	7.00	6.94	6.78	7.01	7.33				6.91
H1 lead leg	R	strides	22	15	15			15	16	16	16	16	19	150				
Sprunger, Leá (SUI) (1990)	time	6.36	10.64	15.00		24.16		28.88	33.76	38.80	43.96	49.24		55.07	3 / 4			
reaction time	0.138 interval		4.28	4.36		9.16		4.72	4.88	5.04	5.16	5.28	5.83					15.48
	velocity	7.08	8.18	8.03		7.64		7.42	7.17	6.94	6.78	6.63	6.86	7.26				6.78
H1 lead leg	R	strides	21	14	14			15	15	15	16	16	18.5	144.5				
Hejnová, Zuzana (CZE) (1988)	time	6.56	10.80	15.16	19.64	24.20	26.2	28.76	33.52	38.44	43.50	48.80		55.16	7 / 5			
reaction time	0.145 interval		4.24	4.36	4.48	4.56		4.56	4.76	4.92	5.06	5.30	6.36			13.08	13.88	15.28
	velocity	6.86	8.25	8.03	7.81	7.68	7.63	7.68	7.35	7.11	6.92	6.60	6.29	7.25		8.03	7.56	6.87
H1 lead leg	R	strides	22	15	15	15		15	15	16	16	16	20.2	180.2				
luel, Amalie (NOR) (1994)	time	6.44	10.60	15.04		24.20	26.3	28.92	33.88	38.96	44.04	49.20		55.26	8 / 6			
reaction time	0.140 interval		4.16	4.44		9.16		4.72	4.96	5.08	5.16	6.06	NR PB					15.32
	velocity	6.99	8.41	7.88		7.64	7.60	7.42	7.06	6.89	6.89	6.78	6.60	7.24				6.85
H1 lead leg	L	strides	23	15	15			15	15	16	16	16		131				
Pedroso, Yadisleidis (ITA) (1990)	time	6.40	10.64	15.00	19.56	24.24	26.3	28.96	33.96	38.92	44.04	49.24		55.47	6 / 7			
reaction time	0.226 interval		4.24	4.36	4.56	4.68		4.72	5.00	4.96	5.12	5.20	6.23			13.16	14.40	15.28
	velocity	7.03	8.25	8.03	7.68	7.48	7.60	7.42	7.00	7.06	6.84	6.73	6.42	7.21		7.98	7.29	6.87
H1 lead leg	L	strides	23	16	16	16		16	17	17	17	17		171				
Kloster, Line (NOR) (1990)	time	6.56	10.84	15.28		24.84	26.9	29.68	34.64	39.76	44.96	50.24		56.48	2 / 8			
reaction time	0.190 interval		4.28	4.44		9.56		4.84	4.96	5.12	5.20	5.28	6.24					15.60
	velocity	6.86	8.18	7.88		7.32	7.43	7.23	7.06	6.84	6.73	6.63	6.41	7.08				6.73
H1 lead leg	R	strides	23	15	15			16	16		17	17		119				

2018 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)

FINAL

date 31-May-18

Henson (2020) - Athlete First: 2018 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Moline, Georganne (USA) (1990)	time	6.32	10.44	14.72	19.12	23.56		28.08	32.72	37.64	42.80	48.08		53.97	7 / 1			
reaction time	0.213 interval		4.12	4.28	4.40	4.44		4.52	4.64	4.92	5.16	5.28	5.89			12.80	13.60	15.36
	velocity	7.12	8.50	8.18	7.95	7.88		7.74	7.54	7.11	6.78	6.63	6.79	7.41		8.20	7.72	6.84
H1 lead leg	R	strides	22	15	15	15		15	15	16	17	17	20	182				
Russell, Janieve (JAM) (1993)	time	6.44	10.64	14.96	19.48	24.16		28.88	33.72	38.52	43.48	48.40		54.08	5 / 2			
reaction time	0.165 interval		4.20	4.32	4.52	4.68		4.72	4.84	4.80	4.96	4.92	5.68			13.04	14.24	14.68
	velocity	6.99	8.33	8.10	7.74	7.48		7.42	7.23	7.29	7.06	7.11	7.04	7.40		8.05	7.37	7.15
H1 lead leg	R	strides	22	15	15	15		15	16	16	16	16	19.2	180.2				
Muhammad, Dalilah (USA) (1990)	time	6.20	10.32	14.68	19.20	23.92		28.64	33.40	38.32	43.36	48.52		54.65	4 / 3			
reaction time	0.172 interval		4.12	4.36	4.52	4.72		4.72	4.76	4.92	5.04	5.16	6.13			13.00	14.20	15.12
	velocity	7.26	8.50	8.03	7.74	7.42		7.42	7.35	7.11	6.94	6.78	6.53	7.32		8.08	7.39	6.94
H1 lead leg	R	strides	22	15	15	15		15	15	16	16	16	19.2	179.2				
Folorunso, Ayomide (ITA) (1990)	time	6.48	10.76	15.12	19.56	24.08		28.76	33.68	38.64	43.80	49.08		55.16	2 / 4			
reaction time	0.182 interval		4.28	4.36	4.44	4.52		4.68	4.92	4.96	5.16	5.28	6.08	PB		13.08	14.12	15.40
	velocity	6.94	8.18	8.03	7.88	7.74		7.48	7.11	7.06	6.78	6.63	6.58	7.25		8.03	7.44	6.82
H1 lead leg	R	strides	23	16	16	16		16	16	17	17	17	20.7	190.7				

Pedroso, Yadisleidis (ITA) (1 time	6.48	10.80	15.20	19.76	24.44	29.16	34.04	39.00	44.08	49.28	55.43	8 / 5			
reaction time	0.226	interval	4.32	4.40	4.56	4.72	4.88	4.96	5.08	5.20	6.15		13.28	14.28	15.24
velocity	6.94	8.10	7.95	7.68	7.48	7.42	7.17	7.06	6.89	6.73	6.50	7.22	7.91	7.35	6.89
H1 lead leg	L	strides	23	16	16	16	16	17	17	17	20.7	191.7			
Tkachuk, Viktoriya (UKR) (1 time	6.52	10.76	15.12	19.64	24.24	29.00	33.96	39.08	44.32	49.64	55.69	9 / 6			
reaction time	0.251	interval	4.24	4.36	4.52	4.76	4.96	5.12	5.24	5.32	6.05		13.12	14.32	15.68
velocity	6.90	8.25	8.03	7.74	7.61	7.35	7.06	6.84	6.68	6.58	6.61	7.18	8.00	7.33	6.70
H1 lead leg	L	strides	22	15	15	15	15	16	16	17	17	20	183		
Tate, Cassandra (USA) (1990 time	6.24	10.44	14.76	19.28	24.00	28.80	33.80	38.92	44.28	49.76	56.09	3 / 7			
reaction time	0.228	interval	4.20	4.32	4.52	4.80	5.00	5.12	5.36	5.48	6.33		13.04	14.52	15.96
velocity	7.21	8.33	8.10	7.74	7.42	7.29	7.00	6.84	6.53	6.39	6.32	7.13	8.05	7.23	6.58
H1 lead leg	R	strides	22	15	15	15	15	15	16	16	20	180			
Sprunger, Leá (SUI) (1990 time	6.40	10.68	15.00	19.44	24.08	28.80	33.72	39.04	44.48	50.08	56.36	6 / 8			
reaction time	0.147	interval	4.28	4.32	4.44	4.72	4.92	5.32	5.44	5.60	6.28		13.04	14.28	16.36
velocity	7.03	8.18	8.10	7.88	7.54	7.42	7.11	6.58	6.43	6.25	6.37	7.10	8.05	7.35	6.42
H1 lead leg	R	strides	21	14	14	14	15	15	17	17	19	177			
Adekoya, Kemi (BRN) (1993 time	6.40	10.56	14.80	19.12	23.72	28.84	34.16	39.60	45.12	50.68	56.83	1 / 9			
reaction time	0.186	interval	4.16	4.24	4.32	5.12	5.32	5.44	5.52	5.56	6.15		12.72	15.04	16.52
velocity	7.03	8.41	8.25	8.10	7.61	6.84	6.58	6.43	6.34	6.29	6.50	7.04	8.25	6.98	6.36
H1 lead leg	R	strides	23	15	15	16	17	17	17	17	169				

2018 Prefontaine Classic (Eugene, OR) (TV Analysis)

FINAL

date 26-May-18

Henson (2020) - Athlete First: 2018 year end hurdle report

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Russell, Janieve (JAM) (1993 time	6.72	10.96	15.24	19.68	24.16		33.40	38.28	43.24	48.28			54.06	5 / 1			
reaction time	0.200	interval	4.24	4.28	4.44	4.48	9.24	4.88	4.96	5.04	5.78				12.96	13.72	14.88
velocity	6.70	8.25	8.18	7.88	7.81		7.58	7.17	7.06	6.94	6.92	7.40			8.10	7.65	7.06
H1 lead leg	L	strides	23	14	15	15			16	16	20	150					
Muhammad, Dalilah (USA) (time	6.28	10.32	14.56	18.92	23.40		32.64	37.60	42.64	47.96			54.09	4 / 2			
reaction time	0.222	interval	4.04	4.24	4.36	4.48	9.24	4.96	5.04	5.32	6.13				12.64	13.72	15.32
velocity	7.17	8.66	8.25	8.03	7.81		7.58	7.06	6.94	6.58	6.53	7.40			8.31	7.65	6.85
H1 lead leg	R	strides	23	15	15	15			16	16	17	20.2	152.2				
Moline, Georganne (USA) (1 time	6.72	11.00	15.16	19.36	23.68	28.08	32.64	37.52	42.60	48.04			54.33	1 / 3			
reaction time	0.219	interval	4.28	4.16	4.20	4.32	4.40	4.56	4.88	5.08	5.44	6.29			12.64	13.28	15.40
velocity	6.70	8.18	8.41	8.33	8.10	7.95	7.68	7.17	6.89	6.43	6.36	7.36			8.31	7.91	6.82
H1 lead leg	L	strides	23	16	15	15	15	15	16	16	17	20	168				
Watson, Sage (CAN) (1994 time	6.56	10.72	14.96	19.36	23.92		33.52	38.52	43.68	49.00			54.81	7 / 4			
reaction time	0.199	interval	4.16	4.24	4.40	4.56	9.60	5.00	5.16	5.32	5.81				12.80	14.16	15.48
velocity	6.86	8.41	8.25	7.95	7.68		7.29	7.00	6.78	6.58	6.88	7.30			8.20	7.42	6.78
H1 lead leg	R	strides	22	15	15	15			16	16	17	19.2	150.2				
Little, Shamier (USA) (1995 time	6.44	10.52	14.64	18.88	23.28	27.88	32.68	37.72	43.12	48.72			55.23	2 / 5			
reaction time	0.249	interval	4.08	4.12	4.24	4.40	4.60	4.80	5.04	5.40	6.51				12.44	13.80	16.04
velocity	6.99	8.58	8.50	8.25	7.95	7.61	7.29	6.94	6.48	6.25	6.14	7.24			8.44	7.61	6.55
H1 lead leg	R	strides	23	15	15	15	15	16	16	17	17	20	184				
Hejnová, Zuzana (CZE) (198 time	6.80	11.08	15.40	19.80	24.32		33.76	38.68	43.80	49.08			55.36	6 / 6			
reaction time	0.190	interval	4.28	4.32	4.40	4.52	9.44	4.92	5.12	5.28	6.28				13.00	13.96	15.32
velocity	6.62	8.18	8.10	7.95	7.74		7.42	7.11	6.84	6.63	6.37	7.23			8.08	7.52	6.85
H1 lead leg	R	strides	22	15	15	15			16	16	16	20	150				
Spencer, Ashley (USA) (1993 time	6.56	10.84	15.12	19.56	24.16	28.80	33.56	38.56	43.96	49.36			55.58	3 / 7			
reaction time	0.183	interval	4.28	4.28	4.44	4.60	4.64	4.76	5.00	5.40	6.22				13.00	14.00	15.80
velocity	6.86	8.18	8.18	7.88	7.61	7.54	7.35	7.00	6.48	6.48	6.43	7.20			8.08	7.50	6.65
H1 lead leg	L	strides	22	15	15	15	15	15	15	16	16	19	178				
Tate, Cassandra (USA) (1990 time	6.52	10.76	15.08	19.64	24.16		33.88	39.00	44.28				55.97	8 / 8			
reaction time	0.256	interval	4.24	4.32	4.56	4.52	9.72	5.12	5.28						13.12	14.24	
velocity	6.90	8.25	8.10	7.68	7.74		7.20	6.84	6.63			7.15			8.00	7.37	
H1 lead leg	R	strides	22	15	15	15			16	16		114					

2018 Shimane High School Championships (Izumo, JPN)

FINAL

date 26-May-18

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

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
村上 日和	7.45	12.52	17.83	23.27	28.92		34.75	40.52	46.85	52.87	58.95		65.96	5 / 1			
reaction time		interval	5.07	5.31	5.44	5.65	5.83	5.77	6.33	6.02	6.08	7.01			15.82	17.25	18.43
velocity	6.04	6.90	6.59	6.43	6.19		6.00	6.07	5.53	5.81	5.76	5.71	6.06		6.64	6.09	5.70
H1 lead leg		strides	24	17	18	19	20	20	21	21	21	25	224				
Takahara, Nanami (JPN)	7.55	12.73	18.15	23.63	29.17		34.90	40.58	46.77	53.05	59.52		66.62	4 / 2			

reaction time	interval	5.18	5.42	5.48	5.54	5.73	5.68	6.19	6.28	6.47	7.10		16.08	16.95	18.94	
	velocity	5.96	6.76	6.46	6.39	6.32	6.11	6.16	5.65	5.57	5.41	5.63	6.00	6.53	6.19	5.54
H1 lead leg	strides	25	17	19	19	19	19	19	21	21	21	24	224			
村上 芽生	time	7.63	13.07	18.68	24.45	30.40	36.53	42.67	48.80	54.78	60.63		67.05	6 / 3		
reaction time	interval		5.44	5.61	5.77	5.95	6.13	6.14	6.13	5.98	5.85	6.42		16.82	18.22	17.96
	velocity	5.90	6.43	6.24	6.07	5.88	5.71	5.70	5.71	5.85	5.98	6.23	5.97	6.24	5.76	5.85
H1 lead leg	strides	26	19	19	19	19	19	19	19	19	19	23	220			
Natsuki, Okuni (JPN)	time	7.53	12.70	18.12	23.67	29.33	35.33	41.43	47.55	54.27	60.57		67.06	3 / 4		
reaction time	interval		5.17	5.42	5.55	5.66	6.00	6.10	6.12	6.72	6.30	6.49		16.14	17.76	19.14
	velocity	5.98	6.77	6.46	6.31	6.18	5.83	5.74	5.72	5.21	5.56	6.16	5.96	6.51	5.91	5.49
H1 lead leg	strides	25	17	18	18	18	19	19	19	21	20	24	218			

2018 South Eastern Conference Championships (Knoxville, TN) (TV Analysis)

FINAL

date 13-May-18

Henson (2020) - Athlete First: 2018 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin, Sydney (USA)	(time)	6.23	10.40	14.66	18.93	23.33	27.83	32.43	37.13	42.16	47.20	47.20		52.75	5 / 1			
reaction time	interval		4.17	4.26	4.27	4.40	4.50	4.60	4.70	5.03	5.04	5.55	WJR PB			12.70	13.50	14.77
	velocity	7.22	8.39	8.22	8.20	7.95	7.78	7.61	7.45	6.96	6.94	7.21	7.58			8.27	7.78	7.11
H1 lead leg	R strides		15	15	15	15	15	15	15	16	16	18.5	155.5					

2018 Shanghai Diamond League (Shanghai, CHN) (TV Analysis)

FINAL

date 12-May-18

Henson (2020) - Athlete First: 2018 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Muhammad, Dalilah (USA)	(time)	6.12	10.16	14.48	18.88	23.52	28.08	32.76	37.56	42.72	47.84	47.84		53.77	4 / 1			
reaction time	0.186 interval		4.04	4.32	4.40	4.64	4.56	4.68	4.80	5.16	5.12	5.93				12.76	13.88	15.08
	velocity	7.35	8.66	8.10	7.95	7.54	7.68	7.48	7.29	6.78	6.84	6.75	7.44			8.23	7.56	6.96
H1 lead leg	R strides		23	15	15	15	15	15	15	15	16	16	19.5	179.5				
Russell, Janieve (JAM) (1993)	(time)	6.40	10.48	14.76	19.12	23.56	28.16	32.96	37.92	42.88	47.96	47.96		53.78	3 / 2			
reaction time	0.170 interval		4.08	4.28	4.36	4.44	4.60	4.80	4.96	4.96	5.08	5.82	PB			12.72	13.84	15.00
	velocity	7.03	8.58	8.18	8.03	7.88	7.61	7.29	7.06	7.06	6.89	6.87	7.44			8.25	7.59	7.00
H1 lead leg	R strides		22	15	15	15	15	15	15	16	16	16	19.5	179.5				
Watson, Sage (CAN) (1994)	(time)	6.44	10.68	15.00	19.44	23.96	28.64	33.44	38.44	43.72	49.12	49.12		55.23	7 / 3			
reaction time	0.180 interval		4.24	4.32	4.44	4.52	4.68	4.80	5.00	5.28	5.40	6.11				13.00	14.00	15.68
	velocity	6.99	8.25	8.10	7.88	7.74	7.48	7.29	7.00	6.63	6.48	6.55	7.24			8.08	7.50	6.70
H1 lead leg	R strides		22	15	15	15	15	15	15	16	17	17	162					
Nel, Wenda (RSA) (1988)	(time)	6.44	10.84	15.44	20.08	24.88	29.64	34.52	39.44	44.32	49.20	49.20		55.63	8 / 4			
reaction time	0.184 interval		4.40	4.60	4.64	4.80	4.76	4.88	4.92	5.16	5.16	6.24				13.64	14.44	
	velocity	6.99	7.95	7.61	7.54	7.29	7.35	7.17	7.11	6.89	6.89	7.16	7.19			7.70	7.27	
H1 lead leg	L strides		23	16	16	16	16	16	17	17	17	17	137					
Linkiewicz, Joanna (POL) (1987)	(time)	6.60	10.92	15.32	19.84	24.44	29.24	34.12	39.08	44.24	49.60	49.60		55.84	2 / 5			
reaction time	0.138 interval		4.32	4.40	4.52	4.60	4.80	4.88	4.96	5.16	5.36	6.24				13.24	14.28	15.48
	velocity	6.82	8.10	7.95	7.74	7.61	7.29	7.17	7.06	6.78	6.53	6.41	7.16			7.93	7.35	6.78
H1 lead leg	L strides		25	16	16	16	17	17	17	17	18	18	175					

2018 National Relay Championships (Fayetteville, AR) (TV Analysis)

A FINAL

date 27-Apr-18

Henson (2020) - Athlete First: 2018 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McLaughlin, Sydney (USA)	(time)	6.31	10.30	14.66	19.08	23.53	28.06	32.80	37.66	42.81	47.95	47.95		53.60	5 / 1			
reaction time	interval		3.99	4.32	4.40	4.45	4.53	4.74	4.86	5.15	5.14	5.65	WJR PB			12.77	13.72	15.15
	velocity	7.13	8.77	8.10	7.97	7.87	7.73	7.38	7.20	6.80	6.81	7.08	7.46			8.22	7.65	6.93
H1 lead leg	R strides		22	15	15	15	15	15	15	16	16	18.5	147.5					

2017 Memorial van Damme (Brussels, BEL) (TV Analysis)

FINAL

date 01-Sep-17

Henson (2020) - Athlete First: 2017 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Muhammad, Dalilah (USA)	(time)	6.00	10.04	14.36	18.76	23.16	25.3	27.68	32.44	37.44	42.52	47.76		53.89	6 / 1			
reaction time	0.154 interval		4.04	4.32	4.40	4.40	4.52	4.76	5.00	5.08	5.24	6.13				12.76	13.68	15.32
	velocity	7.50	8.66	8.10	7.95	7.95	7.91	7.74	7.35	7.00	6.89	6.68	6.53	7.42		8.23	7.68	6.85
H1 lead leg	R strides		23	15	15	15	15	15	15	16	16	16	20	181				
Hejnová, Zuzana (CZE) (1986)	(time)	6.40	10.64	14.88	19.20	23.64	25.7	28.16	32.84	37.72	42.76	47.88		53.93	7 / 2			
reaction time	0.156 interval		4.24	4.24	4.32	4.44	4.52	4.68	4.88	5.04	5.12	6.05				12.80	13.64	15.04
	velocity	7.03	8.25	8.25	8.10	7.88	7.78	7.74	7.48	7.17	6.94	6.84	6.61	7.42		8.20	7.70	6.98
H1 lead leg	R strides		22	15	15	15	15	15	15	16	16	16	20	180				
Spencer, Ashley (USA) (1993)	(time)	6.32	10.60	14.92	19.40	23.96	26.2	28.60	33.32	38.24	43.28	48.68		54.92	5 / 3			
reaction time	0.167 interval		4.28	4.32	4.48	4.56	4.64	4.72	4.92	5.04	5.40	6.24				13.08	13.92	15.36
	velocity	7.12	8.18	8.10	7.81	7.68	7.63	7.54	7.42	7.11	6.94	6.48	6.41	7.28		8.03	7.54	6.84
H1 lead leg	L strides		22	15	15	15	15	15	15	15	15	16	18.7	176.7				
Doyle, Eilidh (GBR) (1987)	(time)	6.32	10.52	14.84	19.28	23.76	25.9	28.40	33.16	38.20	43.32	48.64		55.04	4 / 4			

reaction time	0.196	interval	4.20	4.32	4.44	4.48		4.64	4.76	5.04	5.12	5.32	6.40		12.96	13.88	15.48	
		velocity	7.12	8.33	8.10	7.88	7.81	7.72	7.54	7.35	6.94	6.84	6.58	6.25	7.27	8.10	7.56	6.78
H1 lead leg	L	strides	23	15	15	15	15		16	16	17	17	17	22	188			
Petersen, Sara Slott (DEN) (1988)		time	6.36	10.52	14.84	19.20	23.64	25.8	28.20	32.96	38.08	43.40	49.04		55.54	3 / 5		
reaction time	0.216	interval	4.16	4.32	4.36	4.44		4.56	4.76	5.12	5.32	5.64	6.50		12.84	13.76	16.08	
		velocity	7.08	8.41	8.10	8.03	7.88	7.75	7.68	7.35	6.84	6.58	6.21	6.15	7.20	8.18	7.63	6.53
H1 lead leg	R	strides	22	15	15	15	15		15	15	16	17	18	21	184			
Russell, Janieve (JAM) (1993)		time	6.32	10.52	14.84	19.24	23.80	26.0	28.40	33.24	38.32	43.52	49.04		55.60	9 / 6		
reaction time	0.178	interval	4.20	4.32	4.40	4.56		4.60	4.84	5.08	5.20	5.52	6.56		12.92	14.00	15.80	
		velocity	7.12	8.33	8.10	7.95	7.68	7.69	7.61	7.23	6.89	6.73	6.34	6.10	7.19	8.13	7.50	6.65
H1 lead leg	R	strides	22	15	15	15	15		15	15	16	16	17	20.2	181.2			
Sprunger, Leá (SUI) (1990)		time	6.40	10.76	15.16	19.60	24.20	26.4	28.92	33.84	38.92	44.24	49.80		55.98	8 / 7		
reaction time	0.165	interval	4.36	4.40	4.44	4.60		4.72	4.92	5.08	5.32	5.56	6.18		13.20	14.24	15.96	
		velocity	7.03	8.03	7.95	7.88	7.61	7.58	7.42	7.11	6.89	6.58	6.29	6.47	7.15	7.95	7.37	6.58
H1 lead leg	R	strides	21	14	14	14	14		14	14	15	15	17	152				
Nel, Wenda (RSA) (1988)		time	6.32	10.52	14.88	19.40	24.00	26.1	28.64	33.52	38.68	44.08	49.72		56.30	2 / 8		
reaction time	0.219	interval	4.20	4.36	4.52	4.60		4.64	4.88	5.16	5.40	5.64	6.58		13.08	14.12	16.20	
		velocity	7.12	8.33	8.03	7.74	7.61	7.66	7.54	7.17	6.78	6.48	6.21	6.08	7.10	8.03	7.44	6.48
H1 lead leg	L	strides	23	16	16	16	16		16	17	17	18	18	22	195			

2017 Weltklasse (Zürich, SUI) (TV Analysis)

FINAL

date 24-Aug-17

Henson (2020) - Athlete First: 2017 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Hejnová, Zuzana (CZE) (1988)		time	6.56	10.84	15.16	19.56	24.04		28.64	33.32	38.20	43.16	48.20		54.13	5 / 1			
reaction time	0.158	interval	4.28	4.32	4.40	4.48		4.60	4.68	4.88	4.96	5.04	5.93				13.00	13.76	14.88
		velocity	6.86	8.18	8.10	7.95	7.81		7.61	7.48	7.17	7.06	6.94	6.75	7.39		8.08	7.63	7.06
H1 lead leg	R	strides	22	15	15	15	15		15	15	16	16	16	19.7	179.7				
Petersen, Sara Slott (DEN) (1988)		time	6.36	10.52	14.80	19.16	23.60		28.16	32.88		42.92	48.20		54.35	7 / 2			
reaction time	0.146	interval	4.16	4.28	4.36	4.44		4.56	4.72		10.04	5.28	6.15				12.80	13.72	15.32
		velocity	7.08	8.41	8.18	8.03	7.88		7.68	7.42		6.97	6.63	6.50	7.36		8.20	7.65	6.85
H1 lead leg	R	strides	21	15	15	15	15		15	15		17	20.5	133.5					
Sprunger, Leá (SUI) (1990)		time	6.36	10.56	14.92	19.36	23.88		28.64	33.60	38.68	43.84	48.96		54.66	6 / 3			
reaction time	0.124	interval	4.20	4.36	4.44	4.52		4.76	4.96	5.08	5.16	5.12	5.70				13.00	14.24	15.36
		velocity	7.08	8.33	8.03	7.88	7.74		7.35	7.06	6.89	6.78	6.84	7.02	7.32		8.08	7.37	6.84
H1 lead leg	R	strides	21	14	14	14	14		15	15	15	15	15	18.2	170.2				
Fontanive, Petra (SUI) (1988)		time	6.32	10.60	15.04	19.56	24.24		28.96	33.84		43.88	48.96		54.66	4 / 4			
reaction time	0.157	interval	4.28	4.44	4.52	4.68		4.72	4.88		10.04	5.08	5.70				13.24	14.28	15.12
		velocity	7.12	8.18	7.88	7.74	7.48		7.42	7.17		6.97	6.89	7.02	7.32		7.93	7.35	6.94
H1 lead leg	L	strides	23	16	16	16	16		17	17		17	21	143					
Doyle, Eilidh (GBR) (1987)		time	6.36	10.52	14.80	19.16	23.68		28.40	33.28		43.40	48.80		55.09	3 / 5			
reaction time	0.163	interval	4.16	4.28	4.36	4.52		4.72	4.88		10.12	5.40	6.29				12.80	14.12	15.52
		velocity	7.08	8.41	8.18	8.03	7.74		7.42	7.17		6.92	6.48	6.36	7.26		8.20	7.44	6.77
H1 lead leg	L	strides	23	15	15	15	15		16	16		18	21.7	139.7					
Nel, Wenda (RSA) (1988)		time	6.48	10.80	15.28	19.84	24.52		29.20	34.12		44.24	49.60		55.86	2 / 6			
reaction time	0.198	interval	4.32	4.48	4.56	4.68		4.68	4.92		10.12	5.36	6.26				13.36	14.28	15.48
		velocity	6.94	8.10	7.81	7.68	7.48		7.48	7.11		6.92	6.53	6.39	7.16		7.86	7.35	6.78
H1 lead leg	L	strides	23	16	16	16	16		16	17		17	21.2	142.2					

2017 Müller Grand Prix (Birmingham, GBR) (TV Analysis)

FINAL

date 20-Aug-17

Henson (2021) - Athlete First: 2017 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Hejnová, Zuzana (CZE) (1988)		time	6.52	10.68	14.96	19.28	23.80		28.40	33.12	38.08	43.16	48.28		54.18	5 / 1			
reaction time	0.155	interval	4.16	4.28	4.32	4.52		4.60	4.72	4.96	5.08	5.12	5.90				12.76	13.84	15.16
		velocity	6.90	8.41	8.18	8.10	7.74		7.61	7.42	7.06	6.89	6.84	6.78	7.38		8.23	7.59	6.93
H1 lead leg	R	strides	22	15	15	15	15		15	15	16	16	16	20	180				
Muhammad, Dalilah (USA) (1988)		time	6.16	10.20	14.48	18.92	23.48		28.12	32.88	37.84	42.96	48.20		54.20	4 / 2			
reaction time	0.159	interval	4.04	4.28	4.44	4.56		4.64	4.76	4.96	5.12	5.24	6.00				12.76	13.96	15.32
		velocity	7.31	8.66	8.18	7.88	7.68		7.54	7.35	7.06	6.84	6.68	6.67	7.38		8.23	7.52	6.85
H1 lead leg	R	strides	23	15	15	15	15		15	15	16	16	16	20	181				
Russell, Janieve (JAM) (1993)		time	6.36	10.56	14.80	19.16	23.64		28.32	33.16	38.08	43.12	48.32		54.67	6 / 3			
reaction time	0.134	interval	4.20	4.24	4.36	4.48		4.68	4.84	4.92	5.04	5.20	6.35				12.80	14.00	15.16
		velocity	7.08	8.33	8.25	8.03	7.81		7.48	7.23	7.11	6.94	6.73	6.30	7.32		8.20	7.50	6.93
H1 lead leg	R	strides	22	15	15	15	15		15	16	16	16	16	20	181				
Doyle, Eilidh (GBR) (1987)		time	6.36	10.56	14.80	19.04	23.40		27.96	32.88	38.08	43.36	48.72		54.89	2 / 4			
reaction time	0.158	interval	4.20	4.24	4.24	4.36		4.56	4.92	5.20	5.28	5.36	6.17				12.68	13.84	15.84
		velocity	7.08	8.33	8.25	8.25	8.03		7.68	7.11	6.73	6.63	6.53	6.48	7.29		8.28	7.59	6.63

H1 lead leg	L	strides	23	15	15	15	15	16	17	17	18	18	22	191						
Petersen, Sara Slott (DEN)	(1	time	6.64	10.92	15.20	19.60	24.04	28.64	33.44	38.40	43.64	48.96		55.28	7 / 5					
reaction time	0.154	interval		4.28	4.28	4.40	4.44	4.60	4.80	4.96	5.24	5.32	6.32			12.96	13.84	15.52		
		velocity	6.78	8.18	8.18	7.95	7.88	7.61	7.29	7.06	6.68	6.58	6.33	7.24		8.10	7.59	6.77		
H1 lead leg	R	strides	22	15	15	15	15	15	16	16	17	17	20.5	183.5						
Little, Shamier (USA)	(1995)	time	6.48	10.64	14.88	19.20	23.76	28.56	33.56	38.80	44.32	50.24		57.42	3 / 6					
reaction time	0.220	interval		4.16	4.24	4.32	4.56	4.80	5.00	5.24	5.52	5.92	7.18			12.72	14.36	16.68		
		velocity	6.94	8.41	8.25	8.10	7.68	7.29	7.00	6.68	6.34	5.91	5.57	6.97		8.25	7.31	6.29		
H1 lead leg	R	strides	24	15	15	15	15	16	16	16	17	18		167						

2017 IAAF World Championships (London, GBR) (TV Analysis)

FINAL

date 10-Aug-17

Henson (2020) - Athlete First: 2017 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Carter, Kori (USA)	(1992)	time	6.20	10.28	14.28	18.48	22.92	27.32	32.00	36.92	41.92	47.04		53.07	9 / 1					
reaction time	0.151	interval		4.08	4.00	4.20	4.44	4.40	4.68	4.92	5.00	5.12	6.03				12.28	13.52	15.04	
		velocity	7.26	8.58	8.75	8.33	7.88	7.95	7.48	7.11	7.00	6.84	6.63	7.54			8.55	7.77	6.98	
H1 lead leg	L	strides	24	15	15	15	16	16	16	17	17	17	20	188						
Muhammad, Dalilah (USA)	(1990)	time	5.88	9.84	14.04	18.32	22.68	27.16	31.84	36.88	41.88	47.16		53.50	4 / 2					
reaction time	0.152	interval		3.96	4.20	4.28	4.36	4.48	4.68	5.04	5.00	5.28	6.34				12.44	13.52	15.32	
		velocity	7.65	8.84	8.33	8.18	8.03	7.81	7.48	6.94	7.00	6.63	6.31	7.48			8.44	7.77	6.85	
H1 lead leg	R	strides	23	15	15	15	15	15	15	16	16	16	20	181						
Tracey, Ristananna (JAM)	(1991)	time	6.24	10.36	14.40	18.68	23.00	27.56	32.28	37.28	42.40	47.60		53.74	7 / 3					
reaction time	0.178	interval		4.12	4.04	4.28	4.32	4.56	4.72	5.00	5.12	5.20	6.14	PB			12.44	13.60	15.32	
		velocity	7.21	8.50	8.66	8.18	8.10	7.68	7.42	7.00	6.84	6.73	6.51	7.44			8.44	7.72	6.85	
H1 lead leg	L	strides	23	15	15	15	15	16	16	17	17	17	20.2	186.2						
Hejnová, Zuzana (CZE)	(1986)	time	6.36	10.52	14.68	18.92	23.28	27.76	32.36	37.20	42.24	47.64		54.20	6 / 4					
reaction time	0.151	interval		4.16	4.16	4.24	4.36	4.48	4.60	4.84	5.04	5.40	6.56				12.56	13.44	15.28	
		velocity	7.08	8.41	8.41	8.25	8.03	7.81	7.61	7.23	6.94	6.48	6.10	7.38			8.36	7.81	6.87	
H1 lead leg	R	strides	22	15	15	15	15	15	15	16	16	17	20.5	181.5						
Sprunger, Leá (SUI)	(1990)	time	6.24	10.40	14.68	19.12	23.68	28.32	33.12	38.12	43.24	48.52		54.59	5 / 5					
reaction time	0.183	interval		4.16	4.28	4.44	4.56	4.64	4.80	5.00	5.12	5.28	6.07				12.88	14.00	15.40	
		velocity	7.21	8.41	8.18	7.88	7.68	7.54	7.29	7.00	6.84	6.63	6.59	7.33			8.15	7.50	6.82	
H1 lead leg	R	strides	21	14	14	15	15	15	15	15	15	15	18.7	172.7						
Watson, Sage (CAN)	(1994)	time	6.20	10.32	14.48	18.76	23.16	27.72	32.40	37.52	42.80	48.44		54.92	8 / 6					
reaction time	0.172	interval		4.12	4.16	4.28	4.40	4.56	4.68	5.12	5.28	5.64	6.48				12.56	13.64	16.04	
		velocity	7.26	8.50	8.41	8.18	7.95	7.68	7.48	6.84	6.63	6.21	6.17	7.28			8.36	7.70	6.55	
H1 lead leg	R	strides	22	15	15	15	15	15	15	16	16	17	20	181						
Tate, Cassandra (USA)	(1990)	time	6.24	10.36	14.68	19.00	23.48	28.08	32.88	37.88	43.32	48.88		55.43	3 / 7					
reaction time	0.216	interval		4.12	4.32	4.32	4.48	4.60	4.80	5.00	5.44	5.56	6.55				12.76	13.88	16.00	
		velocity	7.21	8.50	8.10	8.10	7.81	7.61	7.29	7.00	6.43	6.29	6.11	7.22			8.23	7.56	6.56	
H1 lead leg	R	strides	22	15	15	15	15	15	15	15	17	17	20	166						
Doyle, Eilidh (GBR)	(1987)	time	6.32		14.80	19.16	23.68	28.32	33.24	38.40	43.68	49.16		55.71	2 / 8					
reaction time	0.157	interval			8.48	4.36	4.52	4.64	4.92	5.16	5.28	5.48	6.55				12.84	14.08	15.92	
		velocity	7.12		8.25	8.03	7.74	7.54	7.11	6.78	6.63	6.39	6.11	7.18			8.18	7.46	6.60	
H1 lead leg	L	strides	23			15	15	16	17	17	18	18	21.5	160.5						

2017 Japanese National High School Championships (Yamagata, JPN)

FINAL

date 31-Jul-17

Kota (2017) - 70th high school championships: JAF scientific committee - biomechanics data collection

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Takagi, Rina (JPN)	(1999)	time	6.82	11.18	15.73	20.55	25.49	30.71	36.09	41.46	46.98	52.70		59.20	6 / 1					
reaction time	0.213	interval		4.36	4.55	4.82	4.94	5.22	5.38	5.37	5.52	5.72	6.50				13.73	15.54	16.61	
		velocity	6.60	8.03	7.69	7.26	7.09	6.70	6.51	6.52	6.34	6.12	6.15	6.76			7.65	6.76	6.32	
H1 lead leg		strides		16	16	16	16	17	17	17	17	18	150							
Nishimura, Neneka (JPN)	(1999)	time	6.81	11.26	15.83	20.59	25.43	30.48	35.74	41.22	46.93	52.67		59.33	4 / 2					
reaction time	0.218	interval		4.45	4.57	4.76	4.84	5.05	5.26	5.48	5.71	5.74	6.66				13.78	15.15	16.93	
		velocity	6.61	7.87	7.66	7.35	7.23	6.93	6.65	6.39	6.13	6.10	6.01	6.74			7.62	6.93	6.20	
H1 lead leg		strides		17	17	17	17	17	18	19	19	19	160							
Oshiro, Funa (JPN)	(1999)	time	7.16	11.90	16.73	21.69	26.68	32.07	37.27	42.58	47.93	53.47		59.63	7 / 3					
reaction time	0.285	interval		4.74	4.83	4.96	4.99	5.39	5.20	5.31	5.35	5.54	6.16				14.53	15.58	16.20	
		velocity	6.28	7.38	7.25	7.06	7.01	6.49	6.73	6.59	6.54	6.32	6.49	6.71			7.23	6.74	6.48	
H1 lead leg		strides		17	17	17	17	18	18	18	18	18	158							
Kozaki, Haruka (JPN)	(1999)	time	6.86	11.38	16.08	20.97	25.98	31.16	36.65	42.18	47.68	53.29		59.67	8 / 4					
reaction time	0.185	interval		4.52	4.70	4.89	5.01	5.18	5.49	5.53	5.50	5.61	6.38				14.11	15.68	16.64	
		velocity	6.56	7.74	7.45	7.16	6.99	6.76	6.38	6.33	6.36	6.24	6.27	6.70			7.44	6.70	6.31	
H1 lead leg		strides		17	17	17	17	17	17	17	17	17	153							

Fukushima, Eriko (JPN)	time	6.94	11.49	16.22	21.05	26.04		31.38	36.77	42.29	47.91	53.54		59.75	9 / 5			
reaction time	0.218	interval	4.55	4.73	4.83	4.99		5.34	5.39	5.52	5.62	5.63	6.21			14.11	15.72	16.77
		velocity	6.48	7.69	7.40	7.25	7.01		6.55	6.49	6.34	6.23	6.22	6.44	6.69	7.44	6.68	6.26
H1 lead leg		strides		17	17	17	17		18	18	19	19	19	161				
Sekimoto, Moeka (JPN) (2000)	time	6.86	11.29	15.97	20.89	26.08		31.26	36.74	42.16	47.75	53.32		59.83	2 / 6			
reaction time	0.187	interval	4.43	4.68	4.92	5.19		5.18	5.48	5.42	5.59	5.57	6.51			14.03	15.85	16.58
		velocity	6.56	7.90	7.48	7.11	6.74		6.76	6.39	6.46	6.26	6.28	6.14	6.69	7.48	6.62	6.33
H1 lead leg		strides		15	15	15	16		16	16	16	17	17	143				
Kawano, Shiho (JPN) (1999)	time	6.84	11.43	16.13	21.17	26.29		31.58	36.92	42.29	47.88	53.55		59.96	5 / 7			
reaction time	0.167	interval	4.59	4.70	5.04	5.12		5.29	5.34	5.37	5.59	5.67	6.41			14.33	15.75	16.63
		velocity	6.58	7.63	7.45	6.94	6.84		6.62	6.55	6.52	6.26	6.17	6.24	6.67	7.33	6.67	6.31
H1 lead leg		strides		16	16	17	17		17	17	17	18	18	153				
Arita, Asaki (JPN) (2000)	time	6.94	11.59	16.42	21.44	26.71		32.22	38.12	43.96	49.80	55.72		62.23	3 / 8			
reaction time	0.176	interval	4.65	4.83	5.02	5.27		5.51	5.90	5.84	5.84	5.92	6.51			14.50	16.68	17.60
		velocity	6.48	7.53	7.25	6.97	6.64		6.35	5.93	5.99	5.99	5.91	6.14	6.43	7.24	6.29	5.97
H1 lead leg		strides		17	17	17	17		17	19	19	19	19	161				

2017 Herculis Meeting International d'Athletisme (Monaco, MON) (TV Analysis)

FINAL

date 21-Jul-17

Henson (2020) - Athlete First: 2017 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Carter, Kori (USA) (1992)	time	6.20	10.32	14.48	18.68	23.04		27.52	32.36	37.12	42.12	47.24		53.36	6 / 1			
reaction time	0.142	interval	4.12	4.16	4.20	4.36		4.48	4.84	4.76	5.00	5.12	6.12			12.48	13.68	14.88
		velocity	7.26	8.50	8.41	8.33	8.03		7.81	7.23	7.35	7.00	6.84	6.54	7.50	8.41	7.68	7.06
H1 lead leg	L	strides		24	15	15	15		15	16	16	16	16	19.2	182.2			
Little, Shamier (USA) (1995)	time	6.32	10.40		19.00	23.44		32.60	37.52	42.60	47.84		54.02	4 / 2				
reaction time	0.214	interval		4.08	8.60	4.44		9.16	4.92	5.08	5.24	6.18				12.68	13.60	15.24
		velocity	7.12	8.58	8.14	7.88		7.64	7.11	6.89	6.68	6.47	7.40			8.28	7.72	6.89
H1 lead leg	R	strides		24	15	15				16	16	16	19.5	121.5				
Russell, Janieve (JAM) (1993)	time	6.28	10.40		19.04	23.52		32.92	37.84	42.88	48.12		54.38	3 / 3				
reaction time	0.186	interval		4.12	8.64	4.48		9.40	4.92	5.04	5.24	6.26				12.76	13.88	15.20
		velocity	7.17	8.50	8.10	7.81		7.45	7.12	6.94	6.68	6.39	7.36			8.23	7.56	6.91
H1 lead leg	R	strides		22	15	15				16	16	16	19.7	119.7				
Doyle, Eilidh (GBR) (1987)	time	6.32	10.44	14.68	18.92	23.24		27.88	32.60	37.52	42.68	48.20		54.75	7 / 4			
reaction time	0.196	interval		4.12	4.24	4.24	4.32		4.64	4.72	4.92	5.16	5.52	6.55		12.60	13.68	15.60
		velocity	7.12	8.50	8.25	8.25	8.10		7.54	7.42	7.11	6.78	6.34	6.11	7.31	8.33	7.68	6.73
H1 lead leg	L	strides		23	15	15	15		16	16	17	17	18	22	189			
Nel, Wenda (RSA) (1988)	time	6.44	10.68		19.60	24.12		33.68	38.76	43.96	49.52		55.90	2 / 5				
reaction time	0.213	interval		4.24	8.92	4.52		9.56	5.08	5.20	5.56	6.38				13.16	14.08	15.84
		velocity	6.99	8.25	7.85	7.74		7.32	6.89	6.73	6.29	6.27	7.16			7.98	7.46	6.63
H1 lead leg	L	strides		23	16	16				17	17	18	107					
Spencer, Ashley (USA) (1993)	time	6.36	10.56		19.36	23.88		33.20	38.20	43.60	49.44		55.92	5 / 6				
reaction time	0.180	interval		4.20	8.80	4.52		9.32	5.00	5.40	5.84	6.48				13.00	13.84	16.24
		velocity	7.08	8.33	7.95	7.74		7.51	7.00	6.48	5.99	6.17	7.15			8.08	7.59	6.47
H1 lead leg	L	strides		22	15	15				15	16	17	100					
Chaboudez, Aurelie (FRA) (1987)	time	6.40	10.64		19.68	24.44		34.24	39.44	44.84	50.64		57.32	1 / 7				
reaction time	0.202	interval		4.24	9.04	4.76		9.80	5.20	5.40	5.80	6.68				13.28	14.56	16.40
		velocity	7.03	8.25	7.74	7.35		7.14	6.73	6.48	6.03	5.99	6.98			7.91	7.21	6.40
H1 lead leg	L	strides		24	16	16				17	17	18	108					
Nugent, Leah (JAM) (1992)	time	6.48	10.72	15.20	19.80	24.56		34.16	39.20	44.68	50.68		58.07	8 / 8				
reaction time	0.241	interval		4.24	4.48	4.60	4.76		9.60	5.04	5.48	6.00	7.39			13.32	14.36	16.52
		velocity	6.94	8.25	7.81	7.61	7.35		7.29	6.94	6.39	5.83	5.41	6.89		7.88	7.31	6.36
H1 lead leg	R	strides		22	15	15	15			15	16	16	114					

2017 Meeting International Mohammed VI D'Athletisme (Rabat, MAR) (TV Analysis)

FINAL

date 16-Jul-17

Henson (2021) - Athlete First: 2016 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Hejnová, Zuzana (CZE) (1986)	time	6.44	10.68	14.96	19.32	23.80		28.44	33.12	38.00	43.04	48.20		54.22	6 / 1			
reaction time	0.155	interval		4.24	4.28	4.36	4.48		4.64	4.68	4.88	5.04	6.02			12.88	13.80	15.08
		velocity	6.99	8.25	8.18	8.03	7.81		7.54	7.48	7.17	6.94	6.78	7.38		8.15	7.61	6.96
H1 lead leg	R	strides		22	15	15	15		15	15	16	16	20	180				
Russell, Janieve (JAM) (1993)	time	6.56	10.88	15.28	19.68	24.20		28.88	33.64	38.48	43.44	48.48		54.36	7 / 2			
reaction time	0.152	interval		4.32	4.40	4.40	4.52		4.68	4.76	4.84	4.96	5.88			13.12	13.96	14.84
		velocity	6.86	8.10	7.95	7.95	7.74		7.48	7.35	7.23	7.06	6.94	7.36		8.00	7.52	7.08
H1 lead leg	L	strides		23	16	15	15		15	16	16	16	19.5	182.5				
Doyle, Eilidh (GBR) (1987)	time	6.48	10.68	15.00	19.40	23.92		28.64	33.48	38.52	43.64	48.80		54.92	8 / 3			
reaction time	0.157	interval		4.20	4.32	4.40	4.52		4.72	4.84	5.04	5.12	6.12			12.92	14.08	15.32

	velocity	6.94	8.33	8.10	7.95	7.74		7.42	7.23	6.94	6.84	6.78	6.54	7.28		8.13	7.46	6.85
H1 lead leg	L	strides	23	15	15	15	15	16	16	17	17	17	21.2	187.2				
Sprunger, Leá (SUI) (1990)	time	6.44	10.72	15.20	19.68	24.40		29.28	34.20	39.24	44.40	49.56		55.22	4 / 4			
reaction time	0.130	interval		4.28	4.48	4.48	4.72	4.88	4.92	5.04	5.16	5.16	5.66			13.24	14.52	15.36
	velocity	6.99	8.18	7.81	7.81	7.42		7.17	7.11	6.94	6.78	6.78	7.07	7.24		7.93	7.23	6.84
H1 lead leg	R	strides	21	14	14	14	14	15	15	15	15	15	18.2	170.2				
Nel, Wenda (RSA) (1988)	time	6.40	10.80	15.28	19.80	24.52		29.20	34.04	38.96	44.00	49.20		55.31	2 / 5			
reaction time	0.189	interval		4.40	4.48	4.52	4.72	4.68	4.84	4.92	5.04	5.20	6.11			13.40	14.24	15.16
	velocity	7.03	7.95	7.81	7.74	7.42		7.48	7.23	7.11	6.94	6.73	6.55	7.23		7.84	7.37	6.93
H1 lead leg	L	strides	23	16	16	16	16	16	17	17	17	17	21	192				
Petersen, Sara Slott (DEN) (1990)	time	6.48	10.68	15.04	19.48	24.04		28.72	33.60	38.68	43.92	49.32		55.56	5 / 6			
reaction time	0.155	interval		4.20	4.36	4.44	4.56	4.68	4.88	5.08	5.24	5.40	6.24			13.00	14.12	15.72
	velocity	6.94	8.33	8.03	7.88	7.68		7.48	7.17	6.89	6.68	6.48	6.41	7.20		8.08	7.44	6.68
H1 lead leg	R	strides	22	15	15	15	15	15	15	16	17	17	20.5	182.5				
Tate, Cassandra (USA) (1990)	time	6.44	10.64	14.96	19.36	23.96		28.68	33.64	38.76	44.00	49.40		55.70	1 / 7			
reaction time	0.213	interval		4.20	4.32	4.40	4.60	4.72	4.96	5.12	5.24	5.40	6.30			12.92	14.28	15.76
	velocity	6.99	8.33	8.10	7.95	7.61		7.42	7.06	6.84	6.68	6.48	6.35	7.18		8.13	7.35	6.66
H1 lead leg	R	strides	22	15	15	15	15	15	15	16	16	16	19.7	179.7				
Whyte, Rhonda (JAM) (1990)	time	6.52	10.80	15.24	19.68	24.36		29.28	34.40	39.64	44.84	50.08		56.00	3 / 8			
reaction time	0.146	interval		4.28	4.44	4.44	4.68	4.92	5.12	5.24	5.20	5.24	5.92			13.16	14.72	15.68
	velocity	6.90	8.18	7.88	7.88	7.48		7.11	6.84	6.68	6.73	6.68	6.76	7.14		7.98	7.13	6.70
H1 lead leg	L	strides	23	15	15	15	15	16	17	17	16	17	19.7	185.7				

2017 Athletissima (Lausanne, SUI) (TV Analysis)

FINAL

date 06-Jul-17

Henson (2021) - Athlete First: 2016 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-in	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Spencer, Ashley (USA) (1993)	time	6.48	10.76	15.20	19.68	24.32		28.96	33.60	38.28	43.08	48.28		53.90	6 / 1			
reaction time	0.154	interval		4.28	4.44	4.48	4.64	4.64	4.64	4.68	4.80	5.20	5.62			13.20	13.92	14.68
	velocity	6.94	8.18	7.88	7.81	7.54		7.54	7.54	7.48	7.29	6.73	7.12	7.42		7.95	7.54	7.15
H1 lead leg	L	strides	22	15	15	15	15	15	15	15	15	16	18.2	176.2				
Sprunger, Leá (SUI) (1990)	time	6.44	10.72	15.00	19.44	23.96		28.64	33.44	38.44	43.52	48.68		54.29	7 / 2			
reaction time	0.121	interval		4.28	4.28	4.44	4.52	4.68	4.80	5.00	5.08	5.16	5.61	PB		13.00	14.00	15.24
	velocity	6.99	8.18	8.18	7.88	7.74		7.48	7.29	7.00	6.89	6.78	7.13	7.37		8.08	7.50	6.89
H1 lead leg	R	strides	21	14	14	14	14	15	15	15	15	15	18	170				
Doyle, Eilidh (GBR) (1987)	time	6.52	10.72	15.04	19.40	23.76		28.32	33.12	38.08	43.16	48.32		54.36	1 / 3			
reaction time	0.151	interval		4.20	4.32	4.36	4.36	4.56	4.80	4.96	5.08	5.16	6.04			12.88	13.72	15.20
	velocity	6.90	8.33	8.10	8.03	8.03		7.68	7.29	7.06	6.89	6.78	6.62	7.36		8.15	7.65	6.91
H1 lead leg	L	strides	23	15	15	15	15	16	16	17	17	17	21.5	187.5				
Petersen, Sara Slott (DEN) (1990)	time	6.56	10.76	15.04	19.36	23.76		28.32	33.00	38.00	43.16	48.40		54.49	3 / 4			
reaction time	0.133	interval		4.20	4.28	4.32	4.40	4.56	4.68	5.00	5.16	5.24	6.09			12.80	13.64	15.40
	velocity	6.86	8.33	8.18	8.10	7.95		7.68	7.48	7.00	6.78	6.68	6.57	7.34		8.20	7.70	6.82
H1 lead leg	R	strides	22	15	15	15	15	15	15	16	16	17	20.2	181.2				
Hejnová, Zuzana (CZE) (1986)	time	6.60	10.84	15.20	19.64	24.12		28.72	33.44	38.36	43.44	48.68		54.69	2 / 5			
reaction time	0.133	interval		4.24	4.36	4.44	4.48	4.60	4.72	4.92	5.08	5.24	6.01			13.04	13.80	15.24
	velocity	6.82	8.25	8.03	7.88	7.81		7.61	7.42	7.11	6.89	6.68	6.66	7.31		8.05	7.61	6.89
H1 lead leg	R	strides	22	15	15	15	15	15	15	16	16	16	19.7	179.7				
Little, Shamier (USA) (1995)	time	6.48	10.80	15.24	19.64	24.12		28.72	33.36	38.16	43.28	48.64		55.10	4 / 6			
reaction time	0.230	interval		4.32	4.44	4.40	4.48	4.60	4.64	4.80	5.12	5.36	6.46			13.16	13.72	15.28
	velocity	6.94	8.10	7.88	7.95	7.81		7.61	7.54	7.29	6.84	6.53	6.19	7.26		7.98	7.65	6.87
H1 lead leg	R	strides	24	15	15	15	15	15	15	15	16	16	20	181				
Tracey, Ristananna (JAM) (1990)	time	6.72	11.00	15.32	19.68	24.12		28.88	33.80	38.92	44.28			56.23	8 / 7			
reaction time	0.206	interval		4.28	4.32	4.36	4.44	4.76	4.92	5.12	5.36					12.96	14.12	
	velocity	6.70	8.18	8.10	8.03	7.88		7.35	7.11	6.84	6.53			7.11		8.10	7.44	
H1 lead leg	L	strides	23	15	15	15	15	16	16	16	17			148				
Muhammad, Dalilah (USA) (1990)	time	6.56												dnf	5 / --			
reaction time	0.280	interval																
	velocity	6.86																
H1 lead leg	R	strides	23											23				

2017 Shimane High School Championships (Izumo, JPN)

FINAL

date 27-May-17

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

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-in	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Oga, Yuri (JPN) (1999)	time	7.00	11.83	16.83	21.93	27.30		33.00	38.73	44.70	51.20	57.77		64.78	5 / 1			
reaction time		interval		4.83	5.00	5.10	5.37	5.70	5.73	5.97	6.50	6.57	7.01			14.93	16.80	19.04
	velocity	6.43	7.25	7.00	6.86	6.52		6.14	6.11	5.86	5.38	5.33	5.71	6.17		7.03	6.25	5.51
H1 lead leg		strides	24	17	17	17	17	18	18	18	19	19	22.5	206.5				

2017 USATF Championships (Sacramento, CA) (TV Analysis)

FINAL

date 25-Jun-17

Henson (2021) - Athlete First: 2017 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Muhammad, Dalilah (USA) (time	6.04	10.01	14.18	18.48	22.69		26.99	31.50	36.27	41.27	46.44		52.64	5 / 1				
reaction time 0.186 interval		3.97	4.17	4.30	4.21		4.30	4.51	4.77	5.00	5.17	6.20	PB		12.44	13.02	14.94	
velocity	7.45	8.82	8.39	8.14	8.31		8.14	7.76	7.34	7.00	6.77	6.45	7.60		8.44	8.06	7.03	
H1 lead leg R strides	23	15	15	15	15		15	15	16	16	16	20	181					
Little, Shamier (USA) (1995) time	6.34		14.51				27.36	31.96	36.77	41.84	46.94		52.75	4 / 2				
reaction time 0.217 interval			8.17				12.85	4.60	4.81	5.07	5.10	5.81	PB				14.98	
velocity	7.10		8.57				8.17	7.61	7.28	6.90	6.86	6.88	7.58				7.01	
H1 lead leg R strides	24							15	16	16	16	19.5	106.5					
Carter, Kori (USA) (1992) time	6.34	10.31	14.25	18.28	22.49		27.09	32.13	37.10	42.04	47.08		52.95	7 / 3				
reaction time 0.244 interval		3.97	3.94	4.03	4.21		4.60	5.04	4.97	4.94	5.04	5.87	PB		11.94	13.85	14.95	
velocity	7.10	8.82	8.88	8.68	8.31		7.61	6.94	7.04	7.09	6.94	6.81	7.55		8.79	7.58	7.02	
H1 lead leg L strides	24	15	15	15	115		17	17	17	17	17	20	289					
Spencer, Ashley (USA) (1993) 0.188													PB	53.11	3 / 4			
Moline, Georganne (USA) (1 time	6.34	10.44	14.65	18.92	23.22		27.69	32.36	37.10	42.04	47.05		53.14	6 / 5				
reaction time 0.272 interval		4.10	4.21	4.27	4.30		4.47	4.67	4.74	4.94	5.01	6.09	PB		12.58	13.44	14.69	
velocity	7.10	8.54	8.31	8.20	8.14		7.83	7.49	7.38	7.09	6.99	6.57	7.53		8.35	7.81	7.15	
H1 lead leg R strides	22	15	15	15	15		15	15	15	16	16	19.7	178.7					
McLaughlin, Sydney (USA) (time	6.27	10.51	14.71	18.89	23.12		27.69	32.46	37.37	42.57	47.81		53.82	8 / 6				
reaction time 0.305 interval		4.24	4.20	4.18	4.23		4.57	4.77	4.91	5.20	5.24	6.01	WJR PB		12.62	13.57	15.35	
velocity	7.18	8.25	8.33	8.37	8.27		7.66	7.34	7.13	6.73	6.68	6.66	7.43		8.32	7.74	6.84	
H1 lead leg R strides	23	14	14	14	14		15	15	15	16	16	18.5	174.5					
Stepter, Jaide (USA) (1994) 0.247														55.06	2 / 7			
Cockrell, Anna (USA) (1997) 0.209													PB	55.14	1 / 8			

2017 Japanese National Championships (Osaka, JPN)

FINAL

date 24-Jun-17

Morioka (2018) - Analysis of the race patterns of the top 400m hurdles in Japan

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Aoki, Sayaka (JPN) (1986) time	6.52	10.91	15.31	19.85	24.52		29.39	34.36	39.37	44.56	49.95		56.35	1 / 1				
reaction time 0.186 interval		4.39	4.40	4.54	4.67		4.87	4.97	5.01	5.19	5.39	6.40			13.33	14.51	15.59	
velocity	6.90	7.97	7.95	7.71	7.49		7.19	7.04	6.99	6.74	6.49	6.25	7.10		7.88	7.24	6.74	
H1 lead leg strides	16	16	16	16	16		17	17	17	17	17	17	149					

2017 Golden Gala Pietro Mennea (Rome, ITA) (TV Analysis)

FINAL

date 08-Jun-17

Henson (2020) - Athlete First: 2017 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Russell, Janieve (JAM) (1993) time	6.28	10.44	14.56	18.80	23.12		27.60	32.40	37.28	42.44	47.84		54.14	8 / 1				
reaction time 0.183 interval		4.16	4.12	4.24	4.32		4.48	4.80	4.88	5.16	5.40	6.30			12.52	13.60	15.44	
velocity	7.17	8.41	8.50	8.25	8.10		7.81	7.29	7.17	6.78	6.48	6.35	7.39		8.39	7.72	6.80	
H1 lead leg R strides	22	15	15	15	15		15	16	16	17	17	20.5	183.5					
Petersen, Sara Slott (DEN) (1 time	6.56	10.80	15.08	19.32	23.72		28.28	32.96	37.92	43.04	48.32		54.35	4 / 2				
reaction time 0.158 interval		4.24	4.28	4.24	4.40		4.56	4.68	4.96	5.12	5.28	6.03			12.76	13.64	15.36	
velocity	6.86	8.25	8.18	8.25	7.95		7.68	7.48	7.06	6.84	6.63	6.63	7.36		8.23	7.70	6.84	
H1 lead leg R strides	22	15	15	15	15		15	15	16	16	17	20.5	181.5					
Nel, Wenda (RSA) (1988) time	6.44	10.80	15.28	19.76	24.36		29.00	33.72	38.56	43.52	48.64		54.58	6 / 3				
reaction time 0.171 interval		4.36	4.48	4.48	4.60		4.64	4.72	4.84	4.96	5.12	5.94			13.32	13.96	14.92	
velocity	6.99	8.03	7.81	7.81	7.61		7.54	7.42	7.23	7.06	6.84	6.73	7.33		7.88	7.52	7.04	
H1 lead leg L strides	23	16	16	16	16		16	16	16	17	17	20.5	189.5					
Hejnová, Zuzana (CZE) (1988) time	6.52	10.68	15.00	19.40	23.84		28.52	33.24	38.12	43.36	48.84		55.27	5 / 4				
reaction time 0.152 interval		4.16	4.32	4.40	4.44		4.68	4.72	4.88	5.24	5.48	6.43			12.88	13.84	15.60	
velocity	6.90	8.41	8.10	7.95	7.88		7.48	7.42	7.17	6.68	6.39	6.22	7.24		8.15	7.59	6.73	
H1 lead leg R strides	22	15	15	15	15		15	15	16	17	17	20.2	182.2					
Stepter, Jaide (USA) (1994) time	6.40	10.52	14.72	19.04	23.48		28.04	32.92	38.28	43.72	49.24		55.62	9 / 5				
reaction time 0.134 interval		4.12	4.20	4.32	4.44		4.56	4.88	5.36	5.44	5.52	6.38			12.64	13.88	16.32	
velocity	7.03	8.50	8.33	8.10	7.88		7.68	7.17	6.53	6.43	6.34	6.27	7.19		8.31	7.56	6.43	
H1 lead leg L strides	23	15	15	15	15		15	15	17	17	17	20.2	184.2					
Adekoya, Kemi (BRN) (1993) time	6.36	10.64	14.96	19.56	24.20		29.04	34.16	39.36	44.60	49.92		55.63	2 / 6				
reaction time 0.169 interval		4.28	4.32	4.60	4.64		4.84	5.12	5.20	5.24	5.32	5.71			13.20	14.60	15.76	
velocity	7.08	8.18	8.10	7.61	7.54		7.23	6.84	6.73	6.68	6.58	7.01	7.19		7.95	7.19	6.66	
H1 lead leg R strides	23	15	16	16	16		17	17	17	17	17	19.7	190.7					
Pedroso, Yadisleidis (ITA) (1 time	6.52	10.80	15.24	19.76	24.40		29.32	34.16	39.12	44.28	49.56		55.70	7 / 7				
reaction time 0.200 interval		4.28	4.44	4.52	4.64		4.92	4.84	4.96	5.16	5.28	6.14			13.24	14.40	15.40	
velocity	6.90	8.18	7.88	7.74	7.54		7.11	7.23	7.06	6.78	6.63	6.51	7.18		7.93	7.29	6.82	

H1 lead leg	R	strides	24	16	16	16	16	16	16	16	17	18	18	21	194				
Caravelli, Marzia (ITA) (1981)	time		6.60	10.88	15.36	20.00	24.68		29.56	34.32	39.16	44.40	49.68		55.83	1 / 8			
reaction time	0.170	interval		4.28	4.48	4.64	4.68		4.88	4.76	4.84	5.24	5.28	6.15			13.40	14.32	15.36
		velocity	6.82	8.18	7.81	7.54	7.48		7.17	7.35	7.23	6.68	6.63	6.50	7.16		7.84	7.33	6.84
H1 lead leg	R	strides	22	15	15	15	15		15	15	15	16	16	19.5	178.5				
Doyle, Eilidh (GBR) (1987)	time		6.48	10.64	14.88	19.20	23.56		28.28	33.08	38.08	43.48	49.28		55.86	3 / 9			
reaction time	0.165	interval		4.16	4.24	4.32	4.36		4.72	4.80	5.00	5.40	5.80	6.58			12.72	13.88	16.20
		velocity	6.94	8.41	8.25	8.10	8.03		7.42	7.29	7.00	6.48	6.03	6.08	7.16		8.25	7.56	6.48
H1 lead leg	L	strides	23	15	15	15	15		16	16	17	19	19	22	192				

2017 Prefontaine Classic (Eugene, OR) (TV Analysis)**FINAL**

date 27-May-17

Henson (2020) - Athlete First: 2017 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Spencer, Ashley (USA) (1993)	time		6.50	10.76	15.13	19.67	24.23		28.76	33.36	38.03	42.83	47.83		53.38	6 / 1			
reaction time	0.240	interval		4.26	4.37	4.54	4.56		4.53	4.60	4.67	4.80	5.00	5.55	PB		13.17	13.69	14.47
		velocity	6.92	8.22	8.01	7.71	7.68		7.73	7.61	7.49	7.29	7.00	7.21	7.49		7.97	7.67	7.26
H1 lead leg	L	strides	22	15	15	15	15		15	15	15	15	15	18.2	175.2				
Little, Shamier (USA) (1995)	time		6.40	10.46	14.66	19.03	23.50		27.93	32.66	37.50	42.53	47.60		53.44	1 / 2			
reaction time	0.236	interval		4.06	4.20	4.37	4.47		4.43	4.73	4.84	5.03	5.07	5.84	PB		12.63	13.63	14.94
		velocity	7.03	8.62	8.33	8.01	7.83		7.90	7.40	7.23	6.96	6.90	6.85	7.49		8.31	7.70	7.03
H1 lead leg	R	strides	24	15	15	15	15		15	15	16	16	16	19.5	181.5				
Moline, Georganne (USA) (1987)	time		6.53	10.73	15.13	19.60	24.13		28.76	33.63	38.60	43.60	48.60		54.09	3 / 3			
reaction time	0.285	interval		4.20	4.40	4.47	4.53		4.63	4.87	4.97	5.00	5.00	5.49			13.07	14.03	14.97
		velocity	6.89	8.33	7.95	7.83	7.73		7.56	7.19	7.04	7.00	7.00	7.29	7.40		8.03	7.48	7.01
H1 lead leg	R	strides	22	15	15	15	15		15	16	16	16	16	19	180				
Hejnová, Zuzana (CZE) (1986)	time		6.60	10.83	15.13	19.46	23.93		28.56	33.30	38.26	43.26	48.43		54.50	7 / 4			
reaction time	0.173	interval		4.23	4.30	4.33	4.47		4.63	4.74	4.96	5.00	5.17	6.07			12.86	13.84	15.13
		velocity	6.82	8.27	8.14	8.08	7.83		7.56	7.38	7.06	7.00	6.77	6.59	7.34		8.16	7.59	6.94
H1 lead leg	R	strides	22	15	15	15	15		15	15	16	16	16	20	180				
Muhammad, Dalilah (USA) (1987)	time		6.26	10.36	14.80	19.40	24.06		28.60	33.30	38.13	43.30	48.43		54.53	5 / 5			
reaction time	0.289	interval		4.10	4.44	4.60	4.66		4.54	4.70	4.83	5.17	5.13	6.10			13.14	13.90	15.13
		velocity	7.19	8.54	7.88	7.61	7.51		7.71	7.45	7.25	6.77	6.82	6.56	7.34		7.99	7.55	6.94
H1 lead leg	R	strides	23	15	15	15	15		15	15	15	16	16	19.5	179.5				
Petersen, Sara Slott (DEN) (1987)	time		6.53	10.76	15.06	19.46	23.93		28.56	33.53	38.56	43.66	48.90		54.85	4 / 6			
reaction time	0.409	interval		4.23	4.30	4.40	4.47		4.63	4.97	5.03	5.10	5.24	5.95			12.93	14.07	15.37
		velocity	6.89	8.27	8.14	7.95	7.83		7.56	7.04	6.96	6.86	6.68	6.72	7.29		8.12	7.46	6.83
H1 lead leg	R	strides	22	15	15	15	15		15	16	16	17	17	20.2	183.2				
Carter, Kori (USA) (1992)	time		6.43	10.66	14.96	19.36	24.06		28.83	33.56	38.36	43.46	48.66		54.98	8 / 7			
reaction time	0.280	interval		4.23	4.30	4.40	4.70		4.77	4.73	4.80	5.10	5.20	6.32			12.93	14.20	15.10
		velocity	7.00	8.27	8.14	7.95	7.45		7.34	7.40	7.29	6.86	6.73	6.33	7.28		8.12	7.39	6.95
H1 lead leg	R	strides	23	15	15	15	16		16	16	16	16	16	19.7	183.7				
Russell, Janieve (JAM) (1993)	time		6.73	11.03	15.46	19.93	24.56		29.20	34.20	39.23	44.40	49.96		56.21	2 / 8			
reaction time	0.223	interval		4.30	4.43	4.47	4.63		4.64	5.00	5.03	5.17	5.56	6.25			13.20	14.27	15.76
		velocity	6.69	8.14	7.90	7.83	7.56		7.54	7.00	6.96	6.77	6.29	6.40	7.12		7.95	7.36	6.66
H1 lead leg	L	strides	23	15	15	15	15		15	16	16	16	17		163				

2016 Memorial van Damme (Brussels, BEL) (TV Analysis)**FINAL**

date 09-Sep-16

Henson (2021) - Athlete First: 2016 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tate, Cassandra (USA) (1990)	time		6.20	10.36	14.68	19.12	23.68		28.28	33.04	38.00	43.20	48.44		54.47	7 / 1			
reaction time	0.228	interval		4.16	4.32	4.44	4.56		4.60	4.76	4.96	5.20	5.24	6.03			12.92	13.92	15.40
		velocity	7.26	8.41	8.10	7.88	7.68		7.61	7.35	7.06	6.73	6.68	6.63	7.34		8.13	7.54	6.82
H1 lead leg	R	strides	22	15	15	15	15		15	15	16	16	16	20	180				
Petersen, Sara Slott (DEN) (1987)	time		6.44	10.68	15.08	19.44	23.84		28.36	33.12	38.08	43.20	48.44		54.60	5 / 2			
reaction time	0.162	interval		4.24	4.40	4.36	4.40		4.52	4.76	4.96	5.12	5.24	6.16			13.00	13.68	15.32
		velocity	6.99	8.25	7.95	8.03	7.95		7.74	7.35	7.06	6.84	6.68	6.49	7.33		8.08	7.68	6.85
H1 lead leg	R	strides	22	15	15	15	15		15	15	16	16	17	20	181				
Spencer, Kaliess (JAM) (1987)	time		6.44	10.68	15.04	19.56	24.20		28.88	33.68	38.64	43.76	49.04		55.05	6 / 3			
reaction time	0.182	interval		4.24	4.36	4.52	4.64		4.68	4.80	4.96	5.12	5.28	6.01			13.12	14.12	15.36
		velocity	6.99	8.25	8.03	7.74	7.54		7.48	7.29	7.06	6.84	6.63	6.66	7.27		8.00	7.44	6.84
H1 lead leg	L	strides	22	14	14	15	15		15	15	15	16	16	18.7	175.7				
Hejnová, Zuzana (CZE) (1986)	time		6.56	10.80	15.08	19.48	23.92		28.48	33.24	38.24	43.40	48.76		55.12	3 / 4			
reaction time	0.159	interval		4.24	4.28	4.40	4.44		4.56	4.76	5.00	5.16	5.36	6.36			12.92	13.76	15.52
		velocity	6.86	8.25	8.18	7.95	7.88		7.68	7.35	7.00	6.78	6.53	6.29	7.26		8.13	7.63	6.77
H1 lead leg	L	strides	22	15	15	15	15		15	15	16	16	17	20.5	181.5				

Doyle, Eilidh (GBR) (1987)	time	6.36	10.48	14.68	18.96	23.40	28.04	32.92	38.00	43.28	48.72		55.26	4 / 5			
	reaction time	0.204	interval	4.12	4.20	4.28	4.44	4.64	4.88	5.08	5.28	5.44	6.54		12.60	13.96	15.80
			velocity	7.08	8.50	8.33	8.18	7.88	7.54	7.17	6.89	6.63	6.43	7.24	8.33	7.52	6.65
	H1 lead leg	L	strides	23	15	15	15	15	16	17	17	18	18	21.5			
Nel, Wenda (RSA) (1988)	time	6.44	10.64	14.96	19.40	24.04	28.64	33.48	38.44	43.56	48.96		55.41	2 / 6			
	reaction time	0.186	interval	4.20	4.32	4.44	4.64	4.60	4.84	4.96	5.12	5.40	6.45		12.96	14.08	15.48
			velocity	6.99	8.33	8.10	7.88	7.54	7.61	7.23	7.06	6.84	6.48	7.22	8.10	7.46	6.78
	H1 lead leg	L	strides	23	15	15	16	16	16	17	17	17	22	191			
Stepter, Jaide (USA) (1994)	time	6.48	10.72	14.96	19.32	23.84	28.52	33.52	38.56	43.84	49.44		55.88	9 / 7			
	reaction time	0.235	interval	4.24	4.24	4.36	4.52	4.68	5.00	5.04	5.28	5.60	6.44		12.84	14.20	15.92
			velocity	6.94	8.25	8.25	8.03	7.74	7.48	7.00	6.94	6.63	6.25	7.16	8.18	7.39	6.60
	H1 lead leg	L	strides	22	15	15	15	15	15	16	16	16	17	20	182		
Titimets, Hanna (UKR) (1989)	time	6.52	10.76	15.08	19.52	24.12	28.84	33.80	39.00	44.28	49.72		55.92	1 / 8			
	reaction time	0.205	interval	4.24	4.32	4.44	4.60	4.72	4.96	5.20	5.28	5.44	6.20		13.00	14.28	15.92
			velocity	6.90	8.25	8.10	7.88	7.61	7.42	7.06	6.73	6.63	6.43	7.15	8.08	7.35	6.60
	H1 lead leg	L	strides	22	15	15	15	15	15	15	16	16	20	180			
Dauwens, Axelle (BEL) (1990)	time	6.48	10.72	15.08	19.52	24.08	28.92	34.04	39.40	44.92	50.88		58.34	8 / 9			
	reaction time	0.172	interval	4.24	4.36	4.44	4.56	4.84	5.12	5.36	5.52	5.96	7.46		13.04	14.52	16.84
			velocity	6.94	8.25	8.03	7.88	7.68	7.23	6.84	6.53	6.34	5.87	6.86	8.05	7.23	6.24
	H1 lead leg	L	strides	22	15	15	15	15	16	17	17	17	18	167			

2016 Japanese University Championships (Kumagaya, JPN)

FINAL

date 03-Sep-16

(2016.09.04) - https://twitter.com/touchdown_time/media?lang=en&lang=en&lang=en&lang=en

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Umehara, Satsuki (JPN) (1999)	time	6.71	11.08	15.49	20.02	24.69	29.58	34.58	39.69	45.07	50.50		56.79	6 / 1				
	reaction time	0.170	interval	4.37	4.41	4.53	4.67	4.89	5.00	5.11	5.38	5.43	6.29	PB		13.31	14.56	15.92
			velocity	6.71	8.01	7.94	7.73	7.49	7.16	7.00	6.85	6.51	6.45	6.36	7.04	7.89	7.21	6.60
	H1 lead leg	R	strides	24	16	16	16	16	17	17	17	18	22	197				
Ishizuka, Haruko (JPN) (1997)	time	6.64	10.81	15.15	19.57	24.33	29.23	34.25	39.47	44.81	50.47		56.81	7 / 2				
	reaction time	0.197	interval	4.17	4.34	4.42	4.76	4.90	5.02	5.22	5.34	5.66	6.34		12.93	14.68	16.22	
			velocity	6.78	8.39	8.06	7.92	7.35	7.14	6.97	6.70	6.55	6.18	7.04	8.12	7.15	6.47	
	H1 lead leg	R	strides	23	15	15	16	16	16	17	17	17	22	191				

2016 Weltklasse (Zürich, SUI) (TV Analysis)

FINAL

date 01-Sep-16

Henson (2021) - Athlete First: 2016 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Little, Shamier (USA) (1995)	time	6.32	10.44	14.68	19.00	23.36	27.88	32.48	37.36	42.44	47.80		53.97	3 / 1				
	reaction time	0.215	interval	4.12	4.24	4.32	4.36	4.52	4.60	4.88	5.08	5.36	6.17		12.68	13.48	15.32	
			velocity	7.12	8.50	8.25	8.10	8.03	7.74	7.61	7.17	6.89	6.53	7.41	8.28	7.79	6.85	
	H1 lead leg	R	strides	23	15	15	15	15	15	15	16	16	20	167				
Petersen, Sara Slott (DEN) (1989)	time	6.44	10.64	14.92	19.28	23.72	28.28	33.04	37.96	42.96	48.16		54.22	6 / 2				
	reaction time	0.160	interval	4.20	4.28	4.36	4.44	4.56	4.76	4.92	5.00	5.20	6.06		12.84	13.76	15.12	
			velocity	6.99	8.33	8.18	8.03	7.88	7.68	7.35	7.11	7.00	6.73	7.38	8.18	7.63	6.94	
	H1 lead leg	R	strides	22	15	15	15	15	15	15	16	16	20	181				
Doyle, Eilidh (GBR) (1987)	time	6.36	10.52	14.76	19.12	23.52	28.16	33.00	37.92	43.04	48.36		54.55	4 / 3				
	reaction time	0.184	interval	4.16	4.24	4.36	4.40	4.64	4.84	4.92	5.12	5.32	6.19		12.76	13.88	15.36	
			velocity	7.08	8.41	8.25	8.03	7.95	7.54	7.23	7.11	6.84	6.58	7.33	8.23	7.56	6.84	
	H1 lead leg	L	strides	23	15	15	15	15	16	16	16	17	21	171				
Nel, Wenda (RSA) (1988)	time	6.40	10.68	15.04	19.52	24.04	28.60	33.28	38.24	43.40	48.84		55.15	5 / 4				
	reaction time	0.193	interval	4.28	4.36	4.48	4.52	4.56	4.68	4.96	5.16	5.44	6.31		13.12	13.76	15.56	
			velocity	7.03	8.18	8.03	7.81	7.74	7.68	7.48	7.06	6.78	6.43	7.25	8.00	7.63	6.75	
	H1 lead leg	L	strides	23	15	15	16	16	16	16	17	17	21.5	173.5				
Folorunso, Ayomide (ITA) (1989)	time	6.56	10.96	15.40	20.04	24.68	29.44	34.32	39.48	44.60	49.84		55.69	1 / 5				
	reaction time	0.203	interval	4.40	4.44	4.64	4.64	4.76	4.88	5.16	5.12	5.24	5.85		13.48	14.28	15.52	
			velocity	6.86	7.95	7.88	7.54	7.54	7.35	7.17	6.78	6.84	6.68	7.18	7.79	7.35	6.77	
	H1 lead leg	R	strides	23	16	16	16	16	16	17	17	17	20	175				
Sprunger, Leá (SUI) (1990)	time	6.60	10.96	15.40	19.88	24.56	29.32	34.24	39.32	44.64			55.71	7 / 6				
	reaction time	0.127	interval	4.36	4.44	4.48	4.68	4.76	4.92	5.08	5.32				13.28	14.36		
			velocity	6.82	8.03	7.88	7.81	7.48	7.35	7.11	6.89	6.58		7.18	7.91	7.31		
	H1 lead leg	R	strides	22	15	15	15	15	15	15	15	16		143				
Titimets, Anna (UKR) (1989)	time	6.52	10.76	15.20	19.68	24.32	29.00	33.84	38.80	44.08	49.52		55.72	2 / 7				
	reaction time	0.180	interval	4.24	4.44	4.48	4.64	4.68	4.84	4.96	5.28	5.44	6.20		13.16	14.16	15.68	
			velocity	6.90	8.25	7.88	7.81	7.54	7.48	7.23	7.06	6.63	6.45	7.18	7.98	7.42	6.70	
	H1 lead leg	L	strides	22	15	15	15	15	15	15	15	16	20	164				
Linkiewicz, Joanna (POL) (1989)	time	6.56	10.92	15.40	20.00	24.76	29.68	34.64	39.72	44.84			56.24	8 / 8				
	reaction time	0.183	interval	4.36	4.48	4.60	4.76	4.92	4.96	5.08	5.12				13.44	14.64		

	velocity	6.86	8.03	7.81	7.61	7.35		7.11	7.06	6.89	6.84		7.11		7.81	7.17
H1 lead leg	L	strides	24	16	16	16		17	17	17	17		140			

2016 Athletissime (Laussane, SUI) (TV Analysis)

FINAL

date 25-Aug-16

Henson (2020) - Athlete First: 2016 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Muhammad, Dalilah (USA) (time	6.12	10.20	14.56	18.96	23.48		28.04	32.68	37.52	42.52	47.76		53.78	5 / 1			
	reaction time	0.118	interval	4.08	4.36	4.40		4.56	4.64	4.84	5.00	5.24	6.02			12.84	13.72	15.08
		velocity	7.35	8.58	8.03	7.95	7.74	7.68	7.54	7.23	7.00	6.68	6.64	7.44		8.18	7.65	6.96
	H1 lead leg	R	strides	23	15	15	15	15	15	16	16	16	19.7	180.7				
Doyle, Eilidh (GBR) (1987)	time	6.36	10.56	14.80	19.12	23.56		28.28	33.08	38.04	43.20	48.40		54.45	3 / 2			
	reaction time	0.157	interval	4.20	4.24	4.32	4.44	4.72	4.80	4.96	5.16	5.20	6.05			12.76	13.96	15.32
		velocity	7.08	8.33	8.25	8.10	7.88	7.42	7.29	7.06	6.78	6.73	6.61	7.35		8.23	7.52	6.85
	H1 lead leg	L	strides	23	15	15	15	16	16	17	17	17	21	187				
Petersen, Sara Slott (DEN) (time	6.40	10.60	14.88	19.24	23.72		28.32	33.04	38.04	43.28	48.64		54.98	6 / 3			
	reaction time	0.123	interval	4.20	4.28	4.36	4.48	4.60	4.72	5.00	5.24	5.36	6.34			12.84	13.80	15.60
		velocity	7.03	8.33	8.18	8.03	7.81	7.61	7.42	7.00	6.68	6.53	6.31	7.28		8.18	7.61	6.73
	H1 lead leg	R	strides	22	15	15	15	15	15	16	17	17	20.2	182.2				
Tate, Cassandra (USA) (1990)	time	6.32	10.52	14.96	19.52	24.32		29.04	33.96	38.88	44.08	49.32		55.14	8 / 4			
	reaction time	0.235	interval	4.20	4.44	4.56	4.80	4.72	4.92	4.92	5.20	5.24	5.82			13.20	14.44	15.36
		velocity	7.12	8.33	7.88	7.68	7.29	7.42	7.11	7.11	6.73	6.68	6.87	7.25		7.95	7.27	6.84
	H1 lead leg	R	strides	22	15	15	15	15	15	15	16	16	19	178				
Little, Shamier (USA) (1995)	time	6.40	10.60	14.92	19.32	23.80		28.48	33.36	38.28	43.52	49.04		55.20	4 / 5			
	reaction time	0.249	interval	4.20	4.32	4.40	4.48	4.68	4.88	4.92	5.24	5.52	6.16			12.92	14.04	15.68
		velocity	7.03	8.33	8.10	7.95	7.81	7.48	7.17	7.11	6.68	6.34	6.49	7.25		8.13	7.48	6.70
	H1 lead leg	R	strides	23	15	15	15	16	16	16	17	17	20	185				
Spencer, Ashley (USA) (1993)	time	6.56	10.84	15.24	19.76	24.40		29.04	33.88	38.88	44.28	49.80		55.86	2 / 6			
	reaction time	0.159	interval	4.28	4.40	4.52	4.64	4.64	4.84	5.00	5.40	5.52	6.06			13.20	14.12	15.92
		velocity	6.86	8.18	7.95	7.74	7.54	7.54	7.23	7.00	6.48	6.34	6.60	7.16		7.95	7.44	6.60
	H1 lead leg	L	strides	22	15	15	15	15	15	15	16	16	18.2	177.2				
Titimets, Anna (UKR) (1989)	time	6.60	10.92	15.32	19.88	24.52		29.32	34.20	39.24	44.48	49.88		55.99	1 / 7			
	reaction time	0.188	interval	4.32	4.40	4.56	4.64	4.80	4.88	5.04	5.24	5.40	6.11			13.28	14.32	15.68
		velocity	6.82	8.10	7.95	7.68	7.54	7.29	7.17	6.94	6.68	6.48	6.55	7.14		7.91	7.33	6.70
	H1 lead leg	L	strides	22	15	15	15	15	15	15	16	16	19.5	178.5				
Sprunger, Leá (SUI) (1990)	time	6.56	10.92	15.32	19.84	24.52		29.32	34.28	39.36	44.68	50.20		56.05	7 / 8			
	reaction time	0.136	interval	4.36	4.40	4.52	4.68	4.80	4.96	5.08	5.32	5.52	5.85			13.28	14.44	15.92
		velocity	6.86	8.03	7.95	7.74	7.48	7.29	7.06	6.89	6.58	6.34	6.84	7.14		7.91	7.27	6.60
	H1 lead leg	R	strides	22	15	15	15	15	15	15	16	16	18	177				

2016 Olympic Games (Rio de Janeiro, BRA) (TV Analysis)

FINAL

date 18-Aug-16

Henson (2021) - Athlete First: 2016 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Muhammad, Dalilah (USA) (time	6.00	10.00	14.16	18.44	22.84		27.24	31.88	36.68	41.80	47.08		53.13	3 / 1			
	reaction time	0.143	interval	4.00	4.16	4.28	4.40	4.40	4.64	4.80	5.12	5.28	6.05			12.44	13.44	15.20
		velocity	7.50	8.75	8.41	8.18	7.95	7.95	7.54	7.29	6.84	6.63	6.61	7.53		8.44	7.81	6.91
	H1 lead leg	R	strides	23	15	15	15	15	15	15	16	16	20	180				
Petersen, Sara Slott (DEN) (time	6.32	10.44	14.72	19.00	23.36		27.84	32.48	37.40	42.36	47.64		53.55	4 / 2			
	reaction time	0.161	interval	4.12	4.28	4.28	4.36	4.48	4.64	4.92	4.96	5.28	5.91	NR PB		12.68	13.48	15.16
		velocity	7.12	8.50	8.18	8.18	8.03	7.81	7.54	7.11	7.06	6.63	6.77	7.47		8.28	7.79	6.93
	H1 lead leg	R	strides	22	15	15	15	15	15	16	16	17	20	181				
Spencer, Ashley (USA) (1993)	time	6.52	10.84	15.24	19.60	24.12		28.72	33.40	38.16	42.96	47.92		53.72	5 / 3			
	reaction time	0.172	interval	4.32	4.40	4.36	4.52	4.60	4.68	4.76	4.80	4.96	5.80	PB		13.08	13.80	14.52
		velocity	6.90	8.10	7.95	8.03	7.74	7.61	7.48	7.35	7.29	7.06	6.90	7.45		8.03	7.61	7.23
	H1 lead leg	L	strides	22	15	15	14	15	15	15	15	15	18.5	174.5				
Hejnová, Zuzana (CZE) (1986)	time	6.48	10.64	14.88	19.20	23.56		28.12	32.76	37.60	42.60	47.76		53.92	6 / 4			
	reaction time	0.157	interval	4.16	4.24	4.32	4.36	4.56	4.64	4.84	5.00	5.16	6.16			12.72	13.56	15.00
		velocity	6.94	8.41	8.25	8.10	8.03	7.68	7.54	7.23	7.00	6.78	6.49	7.42		8.25	7.74	7.00
	H1 lead leg	R	strides	22	15	15	15	15	15	16	16	16	20	180				
Tracey, Ristanna (JAM) (1993)	time	6.44	10.56	14.80	19.08	23.48		28.16	32.96	37.96	42.96	48.20		54.15	7 / 5			
	reaction time	0.213	interval	4.12	4.24	4.28	4.40	4.68	4.80	5.00	5.00	5.24	5.95	PB		12.64	13.88	15.24
		velocity	6.99	8.50	8.25	8.18	7.95	7.48	7.29	7.00	7.00	6.68	6.72	7.39		8.31	7.56	6.89
	H1 lead leg	L	strides	22	15	15	15	16	16	16	16	16	20	182				
Nugent, Leah (JAM) (1992)	time	6.36	10.44	14.76	19.16	23.68		28.36	33.16	38.04	43.00	48.12		54.45	2 / 6			
	reaction time	0.226	interval	4.08	4.32	4.40	4.52	4.68	4.80	4.88	4.96	5.12	6.33	PB		12.80	14.00	14.96
		velocity	7.08	8.58	8.10	7.95	7.74	7.48	7.29	7.17	7.06	6.84	6.32	7.35		8.20	7.50	7.02
	H1 lead leg	R	strides	23	13	14	14	14	15	15	15	15	19	171				

Russell, Janieve (JAM) (1993)	time	6.40	10.52	14.68	23.32	27.84	32.64	37.52	42.64	48.00	54.46	8 / 7			
	reaction time	0.140	interval	4.12	4.16	8.64	4.52	4.80	4.88	5.12	5.36	6.46			15.36
		7.03	8.50	8.41	8.10	7.74	7.29	7.17	6.84	6.53	6.19	7.34			6.84
	H1 lead leg	R	strides	22	14	14	14	15	16	16	17	17	20.2	165.2	
Doyle, Eilidh (GBR) (1987)	time	6.44	10.64	14.92	19.24	23.68	28.32	33.12	38.12	43.24	48.48	54.61	1 / 8		
	reaction time	0.171	interval	4.20	4.28	4.32	4.44	4.64	4.80	5.00	5.12	5.24	6.13		12.80 13.88 15.36
		6.99	8.33	8.18	8.10	7.88	7.54	7.29	7.00	6.84	6.68	6.53	7.32		8.20 7.56 6.84
	H1 lead leg	L	strides	23	15	15	15	16	16	17	17	17	21	187	

2016 Japanese National High School Championships (Okayama, JPN)

FINAL

date 31-Jul-16

Kota (2016) - 69th high school championships: JAF scientific committee - biomechanics data collection

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Sekimoto, Moeka (JPN) (2001)	time	6.61	10.93	15.49	20.32	25.39	30.43	35.62	40.94	46.58	52.35	59.14	4 / 1					
	reaction time	0.158	interval	4.32	4.56	4.83	5.07	5.04	5.19	5.32	5.64	5.77	6.79			13.71	15.30	16.73
		6.81	8.10	7.68	7.25	6.90	6.94	6.74	6.58	6.21	6.07	5.89	6.76			7.66	6.86	6.28
	H1 lead leg		strides	15	15	15	16	16	16	16	17	17	143					
Koyama, Kana (JPN) (1998)	time	6.79	11.29	16.02	21.00	26.06	31.06	36.15	41.39	46.78	52.55	59.18	5 / 2					
	reaction time	interval	4.50	4.73	4.98	5.06	5.00	5.09	5.24	5.39	5.77	6.63				14.21	15.15	16.40
		6.63	7.78	7.40	7.03	6.92	7.00	6.88	6.68	6.49	6.07	6.03	6.76			7.39	6.93	6.40
	H1 lead leg		strides	15	15	16	16	17	17	17	17	17	147					
Murakami, Natsumi (JPN) (1998)	time	6.84	11.34	16.11	20.97	25.94	30.95	35.94	41.19	46.83	52.64	59.19	7 / 3					
	reaction time	interval	4.50	4.77	4.86	4.97	5.01	4.99	5.25	5.64	5.81	6.55	PB			14.13	14.97	16.70
		6.58	7.78	7.34	7.20	7.04	6.99	7.01	6.67	6.21	6.02	6.11	6.76			7.43	7.01	6.29
	H1 lead leg		strides	17	17	17	17	17	17	17	19	19	157					
Higa, Kazuki (JPN) (1998)	time	6.84	11.33	16.07	20.87	25.89	30.86	35.94	41.51	47.23	53.03	59.39	6 / 4					
	reaction time	interval	4.49	4.74	4.80	5.02	4.97	5.08	5.57	5.72	5.80	6.36				14.03	15.07	17.09
		6.58	7.80	7.38	7.29	6.97	7.04	6.89	6.28	6.12	6.03	6.29	6.74			7.48	6.97	6.14
	H1 lead leg		strides	17	17	17	17	17	17	19	19	19	159					
Hirahara, Kyoka (JPN) (1998)	time	7.07	11.76	16.68	21.91	27.14	32.40	37.67	43.13	48.63	54.32	60.61	8 / 5					
	reaction time	interval	4.69	4.92	5.23	5.23	5.26	5.27	5.46	5.50	5.69	6.29				14.84	15.76	16.65
		6.36	7.46	7.11	6.69	6.69	6.65	6.64	6.41	6.36	6.15	6.36	6.60			7.08	6.66	6.31
	H1 lead leg		strides	16	16	18	17	17	17	17	18	18	153					
Nakahara, Minami (JPN) (1998)	time	6.82	11.31	16.05	21.07	26.23	31.38	36.69	42.23	48.00	54.10	60.69	9 / 6					
	reaction time	interval	4.49	4.74	5.02	5.16	5.15	5.31	5.54	5.77	6.10	6.59				14.25	15.62	17.41
		6.60	7.80	7.38	6.97	6.78	6.80	6.59	6.32	6.07	5.74	6.07	6.59			7.37	6.72	6.03
	H1 lead leg		strides	15	15	17	16	16	17	17	19	19	149					
Kuritani, Mizuki (JPN) (1998)	time	6.79	11.29	16.23	21.35	26.74	32.18	37.70	43.31	49.05	54.85	61.21	3 / 7					
	reaction time	interval	4.50	4.94	5.12	5.39	5.44	5.52	5.61	5.74	5.80	6.36				14.56	16.35	17.15
		6.63	7.78	7.09	6.84	6.49	6.43	6.34	6.24	6.10	6.03	6.29	6.53			7.21	6.42	6.12
	H1 lead leg		strides	17	17	17	17	18	18	18	18	18	158					
Tokuha, Kyoka (JPN) (1998)	time	7.07	11.70	16.67	21.96	27.34	32.85	38.37	43.99	49.57	55.11	61.23	2 / 8					
	reaction time	interval	4.63	4.97	5.29	5.38	5.51	5.52	5.62	5.58	5.54	6.12				14.89	16.41	16.74
		6.36	7.56	7.04	6.62	6.51	6.35	6.34	6.23	6.27	6.32	6.54	6.53			7.05	6.40	6.27
	H1 lead leg		strides	17	17	19	19	19	19	19	19	19	167					

2016 London Anniversary Games (London, GBR) (TV Analysis)

FINAL

date 22-Jul-16

Henson (2021) - Athlete First: 2016 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Muhammad, Dalilah (USA) (2016)	time	6.10	10.23	14.53	18.90	23.53	28.00	32.70	37.50	42.53	47.83	53.90	6 / 1					
	reaction time	0.138	interval	4.13	4.30	4.37	4.63	4.47	4.70	4.80	5.03	5.30	6.07			12.80	13.80	15.13
		7.38	8.47	8.14	8.01	7.56	7.83	7.45	7.29	6.96	6.60	6.59	7.42			8.20	7.61	6.94
	H1 lead leg	R	strides	23	15	15	15	15	15	15	16	16	19.5	179.5				
Petersen, Sara Slott (DEN) (2016)	time	6.43	10.73	15.06	19.46	23.96	28.56	33.30	38.16	43.26	48.40	54.33	7 / 2					
	reaction time	0.157	interval	4.30	4.33	4.40	4.50	4.60	4.74	4.86	5.10	5.14	5.93			13.03	13.84	15.10
		7.00	8.14	8.08	7.95	7.78	7.61	7.38	7.20	6.86	6.81	6.75	7.36			8.06	7.59	6.95
	H1 lead leg	R	strides	22	15	15	15	15	15	16	16	16	20	180				
Nel, Wenda (RSA) (1988)	time	6.33	10.56	14.83	19.23	23.83	28.40	33.13	37.96	43.03	48.26	54.47	8 / 3					
	reaction time	0.182	interval	4.23	4.27	4.40	4.60	4.57	4.73	4.83	5.07	5.23	6.21			12.90	13.90	15.13
		7.11	8.27	8.20	7.95	7.61	7.66	7.40	7.25	6.90	6.69	6.44	7.34			8.14	7.55	6.94
	H1 lead leg	L	strides	23	15	15	15	16	17	17	17	17	21.5	189.5				
Doyle, Eilidh (GBR) (1987)	time	6.36	10.60	14.80	19.00	23.40	27.96	32.73	37.67	42.73	48.10	54.70	4 / 4					
	reaction time	0.162	interval	4.24	4.20	4.40	4.56	4.77	4.94	5.06	5.37	6.60				12.64	13.73	15.37
		7.08	8.25	8.33	8.33	7.95	7.68	7.34	7.09	6.92	6.52	6.06	7.31			8.31	7.65	6.83
	H1 lead leg	L	strides	23	15	15	15	16	16	17	17	18	22	189				
Stepter, Jaide (USA) (1994)	time	6.26	10.43	14.63	18.93	23.43	28.16	33.03	38.03	43.30	48.70	54.96	3 / 5					

reaction time	0.146	interval	4.17	4.20	4.30	4.50	4.73	4.87	5.00	5.27	5.40	6.26		12.67	14.10	15.67	
		velocity	7.19	8.39	8.33	8.14	7.78	7.40	7.19	7.00	6.64	6.48	6.39	7.28	8.29	7.45	6.70
H1 lead leg	L	strides	22	15	15	15	15	16	16	17	17	17	19.7	184.7			
Little, Shamier (USA) (1995)	time	6.33	10.50	14.66	18.90	23.36	27.93	32.73	37.56	42.53	48.16		55.01	5 / 6			
reaction time	0.263	interval	4.17	4.16	4.24	4.46	4.57	4.80	4.83	4.97	5.63	6.85		12.57	13.83	15.43	
		velocity	7.11	8.39	8.41	8.25	7.85	7.66	7.29	7.25	7.04	6.22	5.84	7.27	8.35	7.59	6.80
H1 lead leg	R	strides	23	16	16	16	16	16	16	17	17	17	20.5	190.5			

2016 Herculis Meeting International d'Athlétisme (Monaco, MON) (TV Analysis)

FINAL

date 15-Jul-16

Henson (2020) - Athlete First: 2016 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Doyle, Eilidh (GBR) (1987)	time	6.40	10.53	14.78	18.97	23.33		27.80	32.57	37.47	42.60	47.90		54.09	3 / 1			
reaction time	0.163	interval	4.13	4.25	4.19	4.36		4.47	4.77	4.90	5.13	5.30	6.19	PB		12.57	13.60	15.33
		velocity	7.03	8.47	8.24	8.35	8.03	7.83	7.34	7.14	6.82	6.60	6.46	7.40		8.35	7.72	6.85
H1 lead leg	L	strides	23	15	15	15	15	16	16	17	17	18	21.5	188.5				
Tate, Cassandra (USA) (1990)	time	6.20	10.50		19.17	23.70		28.30		38.07	43.30	48.63		54.63	7 / 2			
reaction time	0.234	interval	4.30		8.67	4.53		4.60		9.77	5.23	5.33	6.00			12.97		
		velocity	7.26	8.14		8.07	7.73	7.61		7.16	6.69	6.57	6.67	7.32		8.10		
H1 lead leg	R	strides	22	15		15	15	15		16	17	19.5	119.5					
Petersen, Sara Slott (DEN) (1988)	time	6.37	10.63		19.37	23.83		28.40		38.13	43.30	48.67		54.81	6 / 3			
reaction time	0.154	interval	4.26		8.74	4.46		4.57		9.73	5.17	5.37	6.14			13.00		
		velocity	7.06	8.22		8.01	7.85	7.66		7.19	6.77	6.52	6.51	7.30		8.08		
H1 lead leg	R	strides	22	15		15	15	15		17	18	20.2	122.2					
Nel, Wenda (RSA) (1988)	time	6.37	10.50		19.33	23.97		28.57	33.37	38.33	43.40	48.67		54.93	2 / 4			
reaction time	0.206	interval	4.13		8.83	4.64		4.60	4.80	4.96	5.07	5.27	6.26			12.96	14.04	15.30
		velocity	7.06	8.47		7.93	7.54	7.61	7.29	7.06	6.90	6.64	6.39	7.28		8.10	7.48	6.86
H1 lead leg	L	strides	23	15		16	16	16	17	17	17	17	21.5	159.5				
Sprunger, Leá (SUI) (1990)	time	6.47	10.83		19.57	24.13		28.87		38.77	43.97	49.43		55.42	8 / 5			
reaction time	0.133	interval	4.36		8.74	4.56		4.74		9.90	5.20	5.46	5.99			13.10		
		velocity	6.96	8.03		8.01	7.68	7.38		7.07	6.73	6.41	6.68	7.22		8.02		
H1 lead leg	R	strides	21	15		15	15	15		15	17	18.5	116.5					
Little, Shamier (USA) (1995)	time	6.33	10.43	14.80	19.27	23.77		28.60	33.47	38.57	43.93	49.40		55.73	5 / 6			
reaction time	0.243	interval	4.10	4.37	4.47	4.50		4.83	4.87	5.10	5.36	5.47	6.33			12.94	14.20	15.93
		velocity	7.11	8.54	8.01	7.83	7.78	7.25	7.19	6.86	6.53	6.40	6.32	7.18		8.11	7.39	6.59
H1 lead leg	L	strides	24	15	15	15	15	16	16	16	17	17	20	186				
Anacharsis, Phara (FRA) (1990)	time	6.60	10.77		19.40	23.87		28.47		38.37	43.87	49.50		56.20	1 / 7			
reaction time	0.183	interval	4.17		8.63	4.47		4.60		9.90	5.50	5.63	6.70			12.80		
		velocity	6.82	8.39		8.11	7.83	7.61		7.07	6.36	6.22	5.97	7.12		8.20		
H1 lead leg	L	strides		15		15	15	15		17	17	20	99					
Spencer, Ashley (USA) (1993)	time	6.47	10.77	15.07	19.73	24.43		29.10	33.93	38.90	44.07	49.93		56.46	4 / 8			
reaction time	0.167	interval	4.30	4.30	4.66	4.70		4.67	4.83	4.97	5.17	5.86	6.53			13.26	14.20	16.00
		velocity	6.96	8.14	8.14	7.51	7.45	7.49	7.25	7.04	6.77	5.97	6.13	7.08		7.92	7.39	6.56
H1 lead leg	L	strides	22	15	14	15	15	15	15	15	15	17	18.7	176.7				

2016 USA Olympic Trials (Eugene, OR) (TV Analysis)

FINAL

date 10-Jul-16

Henson (2020) - Athlete First: 2016 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Muhammad, Dalilah (USA) (1993)	time	6.17	10.18	14.35	18.68	23.15		27.56	32.13	36.80	41.74	46.88		52.88	6 / 1			
reaction time	0.275	interval	4.01	4.17	4.33	4.47		4.41	4.57	4.67	4.94	5.14	6.00	PB		12.51	13.45	14.75
		velocity	7.29	8.73	8.39	8.08	7.83	7.94	7.66	7.49	7.09	6.81	6.67	7.56		8.39	7.81	7.12
H1 lead leg	R	strides	23	15	15	15	15	15	15	15	16	16	20	180				
Spencer, Ashley (USA) (1993)	time	6.50	10.81	15.05	19.58	24.02		28.63	33.27	38.00	42.88	48.15		54.02	8 / 2			
reaction time	0.228	interval	4.31	4.24	4.53	4.44		4.61	4.64	4.73	4.88	5.27	5.87	PB		13.08	13.69	14.88
		velocity	6.92	8.12	8.25	7.73	7.88	7.59	7.54	7.40	7.17	6.64	6.81	7.40		8.03	7.67	7.06
H1 lead leg	L	strides	22	15	14	15	14	15	15	15	15	16	18.5	174.5				
McLaughlin, Sydney (USA) (1992)	time	6.47	10.64	14.95	19.28	23.76		28.36	33.03	37.84	42.91	48.08		54.15	5 / 3			
reaction time	0.371	interval	4.17	4.31	4.33	4.48		4.60	4.67	4.81	5.07	5.17	6.07	WJR WYB PB		12.81	13.75	15.05
		velocity	6.96	8.39	8.12	8.08	7.81	7.61	7.49	7.28	6.90	6.77	6.59	7.39		8.20	7.64	6.98
H1 lead leg	R	strides	22	15	14	14	15	15	15	15	16	16	19.7	176.7				
Carter, Kori (USA) (1992)	time	6.47	10.61	14.88	19.12	23.46		28.03	32.73	37.64	42.81	48.18		54.47	3 / 4			
reaction time	0.192	interval	4.14	4.27	4.24	4.34		4.57	4.70	4.91	5.17	5.37	6.29			12.65	13.61	15.45
		velocity	6.96	8.45	8.20	8.25	8.06	7.66	7.45	7.13	6.77	6.52	6.36	7.34		8.30	7.71	6.80
H1 lead leg	L	strides	24	15	15	15	15	16	16	16	17	17	21	187				
Tate, Cassandra (USA) (1990)	time	6.37	10.51	14.82	19.18	23.62		28.09	32.76	37.70	42.87	48.25		54.60	1 / 5			
reaction time	0.300	interval	4.14	4.31	4.36	4.44		4.47	4.67	4.94	5.17	5.38	6.35			12.81	13.58	15.49
		velocity	7.06	8.45	8.12	8.03	7.88	7.83	7.49	7.09	6.77	6.51	6.30	7.33		8.20	7.73	6.78

H1 lead leg	R	strides	22	15	15	15	15	15	15	15	16	16	17	20	181				
Franklin, Autumnne (USA) (1991)	time		6.54	10.78	14.98	19.32	23.66		28.23	33.03	37.97	43.14	48.48		54.65	4 / 6			
reaction time	0.172	interval		4.24	4.20	4.34	4.34		4.57	4.80	4.94	5.17	5.34	6.17	PB		12.78	13.71	15.45
		velocity	6.88	8.25	8.33	8.06	8.06		7.66	7.29	7.09	6.77	6.55	6.48	7.32		8.22	7.66	6.80
H1 lead leg	R	strides	24	16	16	16	16		16	17	17	18	18	21.5	195.5				
Stepter, Jaide (USA) (1994)	time		6.64	10.88	15.21	19.55	23.99		28.66	33.43	38.40	43.54	48.81		54.95	2 / 7			
reaction time	0.340	interval		4.24	4.33	4.34	4.44		4.67	4.77	4.97	5.14	5.27	6.14	PB		12.91	13.88	15.38
		velocity	6.78	8.25	8.08	8.06	7.88		7.49	7.34	7.04	6.81	6.64	6.51	7.28		8.13	7.56	6.83
H1 lead leg	L	strides	22	15	15	15	15		16	16	17	17	17	19.7	184.7				
Brown, T'erea (USA) (1989)	time		6.30	10.41	14.58	18.92	23.39		28.06	32.97	37.97	43.21	48.88		56.29	7 / 8			
reaction time	0.243	interval		4.11	4.17	4.34	4.47		4.67	4.91	5.00	5.24	5.67	7.41			12.62	14.05	15.91
		velocity	7.14	8.52	8.39	8.06	7.83		7.49	7.13	7.00	6.68	6.17	5.40	7.11		8.32	7.47	6.60
H1 lead leg	L	strides	23	15	15	15	15		15	17	17	17	18		167				

Semi-Final 2

date 08-Jul-16

Henson (2020) - Athlete First: 2016 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Muhammad, Dalilah (USA) (1991)	time		6.10	10.08	14.35	18.72	23.22		27.79	32.56	37.50	42.67	47.91		54.14	6 / 1			
reaction time		interval		3.98	4.27	4.37	4.50		4.57	4.77	4.94	5.17	5.24	6.23			12.62	13.84	15.35
		velocity	7.38	8.79	8.20	8.01	7.78		7.66	7.34	7.09	6.77	6.68	6.42	7.39		8.32	7.59	6.84
H1 lead leg	R	strides	23	15	15	15	15		15	15	15	16	16	19.7	179.7				

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

date 26-Jun-16

Morioka (2016) - race pattern of top 400m hurdlers in japan

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kubokura, Satomi (JPN) (1991)	time		6.67	11.02	15.56	20.23	25.10		30.04	35.16	40.33	45.51	50.72		56.62	5 / 2			
reaction time	0.176	interval		4.35	4.54	4.67	4.87		4.94	5.12	5.17	5.18	5.21	5.90			13.56	14.93	15.56
		velocity	6.75	8.05	7.71	7.49	7.19		7.09	6.84	6.77	6.76	6.72	6.78	7.06		7.74	7.03	6.75
H1 lead leg		strides		16	16	16	16		16	17	17	17	17		148				

2016 Birmingham Diamond League (Birmingham, GBR) (TV Analysis)**FINAL**

date 05-Jun-16

Henson (2020) - Athlete First: 2016 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tate, Cassandra (USA) (1990)	time		6.33	10.47	14.73	19.10	23.60		28.33	33.10	38.03	43.23	48.60		54.57	4 / 1			
reaction time	0.207	interval		4.14	4.26	4.37	4.50		4.73	4.77	4.93	5.20	5.37	5.97			12.77	14.00	15.50
		velocity	7.11	8.45	8.22	8.01	7.78		7.40	7.34	7.09	6.74	6.52	6.70	7.33		8.22	7.50	6.77
H1 lead leg	R	strides	22	15	15	15	15		15	15	16	16	16	19.7	179.7				
Doyle, Eilidh (GBR) (1987)	time		6.47	10.60	14.83	19.10	23.50		28.20	32.97	37.90	43.07	48.37		54.57	5 / 2			
reaction time	0.171	interval		4.13	4.23	4.27	4.40		4.70	4.77	4.93	5.17	5.30	6.20			12.63	13.87	15.40
		velocity	6.96	8.47	8.27	8.20	7.95		7.45	7.34	7.10	6.77	6.60	6.45	7.33		8.31	7.57	6.82
H1 lead leg	L	strides	23	15	15	15	15		16	16	17	17	17	21.7	187.7				
Moline, Georganne (USA) (1991)	time		6.47	10.60	14.90	19.40	23.90		28.57	33.27	38.27	43.40	48.63		54.63	7 / 3			
reaction time	0.214	interval		4.13	4.30	4.50	4.50		4.67	4.70	5.00	5.13	5.23	6.00			12.93	13.87	15.36
		velocity	6.96	8.47	8.14	7.78	7.78		7.49	7.45	7.00	6.82	6.69	6.67	7.32		8.12	7.57	6.84
H1 lead leg	R	strides	22	15	15	15	15		15	15	16	16	16	20	180				
Muhammad, Dalilah (USA) (1991)	time		6.27	10.40	14.70	19.20	23.83		28.43	33.17	38.10	43.23	48.53		54.75	3 / 4			
reaction time	0.131	interval		4.13	4.30	4.50	4.63		4.60	4.74	4.93	5.13	5.30	6.22			12.93	13.97	15.36
		velocity	7.18	8.47	8.14	7.78	7.56		7.61	7.38	7.10	6.82	6.60	6.43	7.31		8.12	7.52	6.84
H1 lead leg	R	strides	23	15	15	15	15		15	16	16	16	16	20	182				
Adekoya, Kemi (BRN) (1993)	time		6.43	10.63	15.00	19.37	23.87		28.67	33.57	38.70	43.97	49.27		55.28	6 / 5			
reaction time	0.195	interval		4.20	4.37	4.37	4.50		4.80	4.90	5.13	5.27	5.30	6.01			12.94	14.20	15.70
		velocity	7.00	8.33	8.01	8.01	7.78		7.29	7.14	6.82	6.64	6.60	6.66	7.24		8.11	7.39	6.69
H1 lead leg	R	strides	24	15	16	16	16		16	16	17	17	17	20	190				
Linkiewicz, Joanna (POL) (1985)	time		6.67	11.03	15.47	20.00	24.73		29.63	34.43	39.43	44.40	49.47		55.41	8 / 6			
reaction time	0.165	interval		4.36	4.44	4.53	4.73		4.90	4.80	5.00	4.97	5.07	5.94			13.33	14.43	15.04
		velocity	6.75	8.03	7.88	7.73	7.40		7.14	7.29	7.00	7.04	6.90	6.73	7.22		7.88	7.28	6.98
H1 lead leg	L	strides	24	16	16	16	16		17	17	17	17	17		173				
Spencer, Kaliese (JAM) (1985)	time		6.57	10.83	15.37	19.90	24.60		29.43	34.23	39.40	44.63	50.00		55.96	2 / 7			
reaction time	0.157	interval		4.26	4.54	4.53	4.70		4.83	4.80	5.17	5.23	5.37	5.96			13.33	14.33	15.77
		velocity	6.85	8.22	7.71	7.73	7.45		7.25	7.29	6.77	6.69	6.52	6.71	7.15		7.88	7.33	6.66
H1 lead leg	L	strides	22	15	15	15	15		15	15	16	16	16		160				
Rosolová, Denisa (CZE) (1988)	time			10.83	15.20	19.57	24.07		28.80	33.77	38.87	44.20	49.83		56.50	1 / 8			
reaction time	0.152	interval			4.37	4.37	4.50		4.73	4.97	5.10	5.33	5.63	6.67				14.20	16.06
		velocity		7.39	8.01	8.01	7.78		7.40	7.04	6.86	6.57	6.22	6.00	7.08			7.39	6.54
H1 lead leg		strides			15	15	15		15	16	16	17	17		126				

2016 Golden Gala Pietro Mennea (Roma, ITA) (TV Analysis)**FINAL**

date 02-Jun-16

Henson (2020) - Athlete First: 2016 year end hurdle report

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Russell, Jeneive (JAM) (1993)	time	6.52	10.68	14.92	19.28	23.72	28.16	32.72	37.48	42.56	47.80		53.96	7 / 1			
reaction time	0.180	interval	4.16	4.24	4.36	4.44	4.44	4.56	4.76	5.08	5.24	6.16	PB		12.76	13.44	15.08
		velocity	6.90	8.41	8.25	8.03	7.88	7.88	7.68	7.35	6.89	6.68	6.49	7.41	8.23	7.81	6.96
H1 lead leg	R	strides	22	14	14	15	15		15	15		16	19.5	145.5			
Nel, Wenda (RSA) (1988)	time	6.40	10.72		19.64	24.24	28.80	33.52	38.36	43.32	48.52		54.61	9 / 2			
reaction time	0.188	interval	4.32		8.92	4.60	4.56	4.72	4.84	4.96	5.20	6.09			13.24	13.88	15.00
		velocity	7.03	8.10		7.85	7.61	7.68	7.42	7.23	7.06	6.73	6.57	7.32	7.93	7.56	7.00
H1 lead leg	L	strides	23	16		16			17	17		17	21	127			
Doyle, Eilidh (GBR) (1987)	time	6.32	10.48	14.68	18.96	23.40	28.12	33.00	38.00	43.08	48.48		54.81	6 / 3			
reaction time	0.154	interval	4.16	4.20	4.28	4.44	4.72	4.88	5.00	5.08	5.40	6.33			12.64	14.04	15.48
		velocity	7.12	8.41	8.33	8.18	7.88	7.42	7.17	7.00	6.89	6.48	6.32	7.30	8.31	7.48	6.78
H1 lead leg	L	strides	23	15	15	15	16			17		18	20.7	139.7			
Tate, Cassandra (USA) (1990)	time	6.20	10.36		19.24	23.80	28.12	33.32	38.36	43.60	49.08		55.35	5 / 4			
reaction time	0.219	interval	4.16		8.88	4.56	9.52	5.04	5.24	5.48	6.27				13.04	14.08	15.76
		velocity	7.26	8.41		7.88	7.68	7.35	6.94	6.68	6.39	6.38	7.23	8.05	7.46	6.66	
H1 lead leg	R	strides	22	15		15			15	16		20	103				
Adekoya, Kemi (BRN) (1993)	time	6.28	10.48		19.00	23.44	28.12	33.00	38.08	43.44	49.04		55.48	8 / 5			
reaction time	0.176	interval	4.20		8.52	4.44	4.68	4.88	5.08	5.36	5.60	6.44			12.72	14.00	16.04
		velocity	7.17	8.33		8.22	7.88	7.48	7.17	6.89	6.53	6.25	6.21	7.21	8.25	7.50	6.55
H1 lead leg	R	strides	24	16		16			17	17		18	21	129			
Spencer, Kaliese (JAM) (1987)	time	6.40	10.60		19.48	24.00	28.12	33.48	38.56	43.80	49.20		55.51	3 / 6			
reaction time	0.158	interval	4.20		8.88	4.52	9.48	5.08	5.24	5.40	6.31				13.08	14.00	15.72
		velocity	7.03	8.33		7.88	7.74	7.38	6.89	6.68	6.48	6.34	7.21	8.03	7.50	6.68	
H1 lead leg	L	strides	22	14		15			16	16		19	102				

2016 Meeting International Mohammed VI D'Atletisme (Rabat, MAR) (TV Analysis)

FINAL

date 22-May-16

Henson (2020) - Athlete First: 2016 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Russell, Jeneive (JAM) (1993)	time	6.44	10.60	14.84	19.12	23.52	28.00	32.64	37.60	42.60	47.88		54.16	4 / 1				
reaction time	0.139	interval	4.16	4.24	4.28	4.40	4.48	4.64	4.96	5.00	5.28	6.28			12.68	13.52	15.24	
		velocity	6.99	8.41	8.25	8.18	7.95	7.81	7.54	7.06	7.00	6.63	6.37	7.39	8.28	7.77	6.89	
H1 lead leg	R	strides	22	15	15	15	15	15	15	16	16	17	20	181				
Tate, Cassandra (USA) (1990)	time	6.20	10.52	14.76	19.16	23.60	28.16	32.92	37.96	43.12	48.56		54.69	3 / 2				
reaction time	0.209	interval	4.32	4.24	4.40	4.44	4.56	4.76	5.04	5.16	5.44	6.13			12.96	13.76	15.64	
		velocity	7.26	8.10	8.25	7.95	7.88	7.68	7.35	6.94	6.78	6.43	6.53	7.31	8.10	7.63	6.71	
H1 lead leg	R	strides	22	15	15	15	15	15	15	16	16	17	20	181				
Nel, Wenda (RSA) (1988)	time	6.32	10.64	14.88	19.24	23.76	28.28	33.00	37.88	43.08	48.48		54.88	5 / 3				
reaction time	0.198	interval	4.32	4.24	4.36	4.52	4.52	4.72	4.88	5.20	5.40	6.40			12.92	13.76	15.48	
		velocity	7.12	8.10	8.25	8.03	7.74	7.74	7.42	7.17	6.73	6.48	6.25	7.29	8.13	7.63	6.78	
H1 lead leg	L	strides	23	16	16	16	16	16	17	17	18	18	21.5	194.5				
Titimets, Anna (UKR) (1989)	time	6.48	10.76	15.08	19.40	23.80	28.32	33.00	38.04	43.36	48.88		55.10	7 / 4				
reaction time	0.208	interval	4.28	4.32	4.32	4.40	4.52	4.68	5.04	5.32	5.52	6.22			12.92	13.60	15.88	
		velocity	6.94	8.18	8.10	8.10	7.95	7.74	7.48	6.94	6.58	6.34	6.43	7.26	8.13	7.72	6.61	
H1 lead leg	L	strides	22	15	15	15	15	15	15	16	17	17	20	182				
Adekoya, Kemi (BRN) (1993)	time	6.40	10.76	15.12	19.56	24.04	28.72	33.60	38.72	43.92	49.28		55.33	6 / 5				
reaction time	0.180	interval	4.36	4.36	4.44	4.48	4.68	4.88	5.12	5.20	5.36	6.05			13.16	14.04	15.68	
		velocity	7.03	8.03	8.03	7.88	7.81	7.48	7.17	6.84	6.73	6.53	6.61	7.23	7.98	7.48	6.70	
H1 lead leg	L	strides	24	16	16	16	16	16	17	17	17	17	20.2	192.2				
Ankiewicz, Emilia (POL) (1991)	time	6.64	11.12	15.72	20.36	25.12	29.96	35.00	40.32	45.64	51.08		57.25	2 / 6				
reaction time	0.148	interval	4.48	4.60	4.64	4.76	4.84	5.04	5.32	5.32	5.44	6.17			13.72	14.64	16.08	
		velocity	6.78	7.81	7.61	7.54	7.35	7.23	6.94	6.58	6.43	6.48	6.99	7.65	7.17	6.53		
H1 lead leg	L	strides	23	16	16	16	16	16	16	17	17	17	20.5	190.5				

2016 Seiko Golden Grand Prix (Kawasaki, JPN)

FINAL

date 08-May-16

Morioka (2016) - race pattern of top 400m hurdlers in japan

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kubokura, Satomi (JPN) (1991)	time	6.63	10.93	15.38	19.93	24.65	29.50	34.51	39.62	44.83	50.07		56.14	4 / 2				
reaction time	0.176	interval	4.30	4.45	4.55	4.72	4.85	5.01	5.11	5.21	5.24	6.07			13.30	14.58	15.56	
		velocity	6.79	8.14	7.87	7.69	7.42	7.22	6.99	6.85	6.72	6.68	6.59	7.13	7.89	7.20	6.75	
H1 lead leg	L	strides	23	16	16	16	16	16	17	17	17	17	21	192				
Ishizuka, Haruko (JPN) (1997)	time	6.55	10.74	15.04	19.41	24.18	29.20	34.31	39.50	45.01	50.62		56.75	7 / 3				
reaction time	0.210	interval	4.19	4.30	4.37	4.77	5.02	5.11	5.19	5.51	5.61	6.13	NJR / PB		12.86	14.90	16.31	
		velocity	6.87	8.35	8.14	8.01	7.34	6.97	6.85	6.74	6.35	6.24	6.53	7.05	8.16	7.05	6.44	
H1 lead leg	R	strides	23	15	15	15	16	16	17	17	18	18	21	191				

2016 Hürden-und Sprintmeeting (Basel, SUI) (300m Hurdles)

FINAL

date 07-May-16

Swiss Athletics (2016) - sprint and hurdle analysis

		H1	H2	H3	H4	H5	200m	H6	H7		Run-In	Official Time	Lane / Place	H1-H4	H4-H7
Sprunger, Léa (SUI) (1990)	time	6.66	10.96	15.40	20.00	24.76		29.52	34.32			40.23	/ 1		
	reaction time		interval	4.30	4.44	4.60	4.76	4.76	4.80		5.91			13.34	14.32
	velocity	6.76	8.14	7.88	7.61	7.35		7.35	7.29		7.61	7.46		7.87	7.33
H1 lead leg		strides													
Schürmann, Robine (SUI) (1	time	6.74	11.16	15.70	20.42	25.28		30.22	35.14			41.31	/ 2		
	reaction time		interval	4.42	4.54	4.72	4.86	4.94	4.92		6.17			13.68	14.72
	velocity	6.68	7.92	7.71	7.42	7.20		7.09	7.11		7.29	7.26		7.68	7.13
H1 lead leg		strides													
Fontanive, Petra (SUI) (1988)	time	6.70	11.08	15.56	20.20	25.16		30.24	35.14			41.38	/ 3		
	reaction time		interval	4.38	4.48	4.64	4.96	5.08	4.90		6.24			13.50	14.94
	velocity	6.72	7.99	7.81	7.54	7.06		6.89	7.14		7.21	7.25		7.78	7.03
H1 lead leg		strides													

2016 Doha Diamond League (Doha, QAT) (TV Analysis)**FINAL**

date 06-May-16

Henson (2021) - Athlete First: 2016 year end hurdle report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Doyle, Eilidh (GBR) (1987)	time	6.40	10.56	14.84	19.12	23.56		28.24	33.00	37.96	43.04	48.32		54.53	3 / 1			
	reaction time	0.191	interval	4.16	4.28	4.28	4.44	4.68	4.76	4.96	5.08	5.28	6.21			12.72	13.88	15.32
	velocity	7.03	8.41	8.18	8.18	7.88		7.48	7.35	7.06	6.89	6.63	6.44	7.34		8.25	7.56	6.85
H1 lead leg	L	strides	23	15	15	15	15	16	16	17	17	17	21.2	187.2				
Adekoya, Kemi (BRN) (1993)	time	6.52	10.84	15.16	19.56	24.12		28.76	33.56	38.64	43.88	49.16		54.87	2 / 2			
	reaction time	0.178	interval	4.32	4.40	4.56		4.64	4.80	5.08	5.24	5.28	5.71			13.04	14.00	15.60
	velocity	6.90	8.10	8.10	7.95	7.68		7.54	7.29	6.89	6.68	6.63	7.01	7.29		8.05	7.50	6.73
H1 lead leg	L	strides	24	15	15	15	15	15	15	17	17	17	19.5	184.5				
Spencer, Kaliese (JAM) (198	time	6.44	10.72	15.16	19.64	24.24		28.96	33.72	38.56	43.72	48.96		55.02	4 / 3			
	reaction time	0.144	interval	4.28	4.44	4.48	4.60	4.72	4.76	4.84	5.16	5.24	6.06			13.20	14.08	15.24
	velocity	6.99	8.18	7.88	7.81	7.61		7.42	7.35	7.23	6.78	6.68	6.60	7.27		7.95	7.46	6.89
H1 lead leg	L	strides	22	15	15	15	15	15	15	15	16	16	18.7	177.7				
Nel, Wenda (RSA) (1988)	time	6.24	10.44	14.76	19.12	23.72		28.48	33.36	38.36	43.56	48.92		55.17	6 / 4			
	reaction time	0.184	interval	4.20	4.32	4.36	4.60	4.76	4.88	5.00	5.20	5.36	6.25			12.88	14.24	15.56
	velocity	7.21	8.33	8.10	8.03	7.61		7.35	7.17	7.00	6.73	6.53	6.40	7.25		8.15	7.37	6.75
H1 lead leg	L	strides	23	16	16	16	16	17	17	17	18	18	21.5	195.5				
Tate, Cassandra (USA) (1990)	time	6.32	10.56	14.92	19.36	23.96		28.72	33.60	38.76	44.00	49.40		55.57	5 / 5			
	reaction time	0.230	interval	4.24	4.36	4.44	4.60	4.76	4.88	5.16	5.24	5.40	6.17			13.04	14.24	15.80
	velocity	7.12	8.25	8.03	7.88	7.61		7.35	7.17	6.78	6.68	6.48	6.48	7.20		8.05	7.37	6.65
H1 lead leg	R	strides	22	15	15	15	15	15	15	16	16	16	20	180				
Beesley, Meghan (GBR) (198	time	6.32	10.52	14.84	19.28	23.88		28.72	33.64	38.68	43.96	49.40		55.72	7 / 6			
	reaction time	0.166	interval	4.20	4.32	4.44	4.60	4.84	4.92	5.04	5.28	5.44	6.32			12.96	14.36	15.76
	velocity	7.12	8.33	8.10	7.88	7.61		7.23	7.11	6.94	6.63	6.43	6.33	7.18		8.10	7.31	6.66
H1 lead leg	L	strides	24	16	16	16	16	17	17	17	18	18	22	197				
Williams, Tiffany (USA) (198	time	6.52	10.68	15.00	19.44	24.08		28.80	33.68	38.72	44.00	49.68		56.57	8 / 7			
	reaction time	0.225	interval	4.16	4.32	4.44	4.64	4.72	4.88	5.04	5.28	5.68	6.89			12.92	14.24	16.00
	velocity	6.90	8.41	8.10	7.88	7.54		7.42	7.17	6.94	6.63	6.16	5.81	7.07		8.13	7.37	6.56
H1 lead leg	L	strides	24	15	15	15	16	16	17	17	17	18	22	192				
Hayes, Jernail (USA) (1988)	time	6.44	10.88	15.40	20.12	24.96		30.00	35.32	40.84	46.72			60.48	1 / 8			
	reaction time	0.146	interval	4.44	4.52	4.72	4.84	5.04	5.32	5.52	5.88					13.68	15.20	
	velocity	6.99	7.88	7.74	7.42	7.23		6.94	6.58	6.34	5.95			6.61		7.68	6.91	
H1 lead leg	L	strides	23	16	16	16	16	17	17	17	18		156					

2016 Shizuoka International Athletics Meeting (Fukuroi, JPN)**FINAL**

date 03-May-16

Morioka (2016) - race pattern of top 400m hurdlers in japan

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kubokura, Satomi (JPN) (19	time	6.56	10.88	15.42	20.06	24.83		29.63	34.84	40.18	45.62	51.39		57.91	/ 2			
	reaction time		interval	4.32	4.54	4.64	4.77	4.80	5.21	5.34	5.44	5.77	6.52			13.50	14.78	16.55
	velocity	6.86	8.10	7.71	7.54	7.34		7.29	6.72	6.55	6.43	6.07	6.13	6.91		7.78	7.10	6.34
H1 lead leg		strides	16	16	16	16	16	16	17	17	17	18	149					

2015 Japanese National Junior Championships (Nagoya, JPN)**FINAL**

date 18-Oct-15

Yasunori (2015) - race pattern analysis of the top 400m hurdlers in Japan

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kodama, Saki (JPN) (1997)	time	6.82	11.42	16.06	20.85	25.87		31.01	36.22	41.46	47.13	52.70		58.91	/ 1			
	reaction time		interval	4.60	4.64	4.79	5.02	5.14	5.21	5.24	5.67	5.57	6.21	PB		14.03	15.37	16.48
	velocity	6.60	7.61	7.54	7.31	6.97		6.81	6.72	6.68	6.17	6.28	6.44	6.79		7.48	6.83	6.37
H1 lead leg		strides	16	16	16	17	17	17	17	17	18	18	152					
Arashima, Yuri (JPN) (1997)	time	6.90	11.37	15.95	20.62	25.41		30.43	35.70	41.11	46.68	52.45		58.97	/ 2			
	reaction time		interval	4.47	4.58	4.67	4.79	5.02	5.27	5.41	5.57	5.77	6.52			13.72	15.08	16.75
	velocity	6.52	7.83	7.64	7.49	7.31		6.97	6.64	6.47	6.28	6.07	6.13	6.78		7.65	6.96	6.27

H1 lead leg	strides	15	15	15	15	17	17	17	17	17	145
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2015 Japanese National Youth Championships (Nagoya, JPN)**FINAL**

date 18-Oct-15

Yasunori (2015) - race pattern analysis of the top 400m hurdlers in Japan

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Murakami, Mizuki (JPN) (199)	time	6.88	11.38	16.05	20.99	25.96		31.13	36.39	41.68	47.12	52.63		58.87	1 / 1			
	reaction time		interval	4.50	4.67	4.94	4.97	5.17	5.26	5.29	5.44	5.51	6.24	PB		14.11	15.40	16.24
			velocity	6.54	7.78	7.49	7.09	7.04	6.77	6.65	6.62	6.43	6.35	6.41	6.79	7.44	6.82	6.47
	H1 lead leg		strides	15	15	16	16	16	17	17	17	17	17	146				

2015 Chinese National Championships (Suzhou, CHN)**FINAL**

date 24-Sep-15

Huang (2021) - study of the pre-competition training of women's 400m hurdler Huang Yan

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Huang Yan (CHN) (1996)	time	6.76	11.18	15.68	20.32	25.09		30.08	35.28	40.69	46.18	51.78		57.87	1 / 2			
	reaction time		interval	4.42	4.50	4.64	4.77	4.99	5.20	5.41	5.49	5.60	6.09			13.56	14.96	16.50
			velocity	6.66	7.92	7.78	7.54	7.34	7.01	6.73	6.47	6.38	6.25	6.57	6.91	7.74	7.02	6.36
	H1 lead leg		strides	24	16	16	16	17	17	18	19	19		178				

2015 IAAF World Championships (Beijing, CHN) (TV Analysis)**FINAL**

date 26-Aug-15

Henson (2021) - Athlete First: major championships report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Hejnová, Zuzana (CZE) (1986)	time	6.40	10.52	14.72	19.00	23.36		27.88	32.48	37.24	42.28	47.40		53.50	5 / 1			
	reaction time	0.153	interval	4.12	4.20	4.28	4.36	4.52	4.60	4.76	5.04	5.12	6.10			12.60	13.48	14.92
			velocity	7.03	8.50	8.33	8.18	8.03	7.74	7.61	7.35	6.94	6.84	6.56	7.48	8.33	7.79	7.04
	H1 lead leg	R	strides	15	15	15	15	15	15	16	16	16	19.7	142.7				
Little, Shamier (USA) (1986)	time	6.40	10.56	14.76	19.12	23.56		32.72	37.64	42.68	47.96			53.94	2 / 2			
	reaction time	0.227	interval	4.16	4.20	4.36	4.44	9.16	4.92	5.04	5.28	5.98				12.72	13.60	15.24
			velocity	7.03	8.41	8.33	8.03	7.88	7.64	7.11	6.94	6.63	6.69	7.42		8.25	7.72	6.89
	H1 lead leg	R	strides	15	15	15				16	16	17	20	114				
Tate, Cassandra (USA) (1990)	time	6.16	10.28	14.52	18.88	23.36		27.96	32.72	37.60	42.68	48.00		54.02	6 / 3			
	reaction time	0.189	interval	4.12	4.24	4.36	4.48	4.60	4.76	4.88	5.08	5.32	6.02			12.72	13.84	15.28
			velocity	7.31	8.50	8.25	8.03	7.81	7.61	7.35	7.17	6.89	6.58	7.40		8.25	7.59	6.87
	H1 lead leg	R	strides	22	15	15	15	15	15	15	16	16	19.7	178.7				
Petersen, Sara Slott (DEN) (1986)	time	6.48		14.96	19.32	23.76		28.24	32.92	37.72	42.88	48.16		54.20	4 / 4			
	reaction time	0.155	interval		8.48	4.36	4.44	4.48	4.68	4.80	5.16	5.28	6.04			12.84	13.60	15.24
			velocity	6.94		8.25	8.03	7.88	7.81	7.48	7.29	6.78	6.63	6.62	7.38	8.18	7.72	6.89
	H1 lead leg	R	strides		15	15	15		15	15	17	17	20	129				
Russell, Janieve (JAM) (1993)	time	6.44	10.56	14.80	19.08	23.52		28.12	32.92	37.84	43.00			54.64	9 / 5			
	reaction time	0.165	interval	4.12	4.24	4.28	4.44	4.60	4.80	4.92	5.16					12.64	13.84	
			velocity	6.99	8.50	8.25	8.18	7.88	7.61	7.29	7.11	6.78		7.32		8.31	7.59	
	H1 lead leg	R	strides	15	15	15	15	15	15	16	16		122					
Child, Eilidh (GBR) (1987)	time	6.40	10.52	14.80	19.08	23.44		32.96	38.04	43.24	48.60			54.78	3 / 6			
	reaction time	0.161	interval	4.12	4.28	4.28	4.36	9.52	5.08	5.20	5.36	6.18				12.68	13.88	15.64
			velocity	7.03	8.50	8.18	8.18	8.03	7.35	6.89	6.73	6.53	6.47	7.30		8.28	7.56	6.71
	H1 lead leg	L	strides	15	15	15			17	18	18		98					
Nel, Wenda (RSA) (1988)	time	6.28	10.48	14.68	19.00	23.52		28.28	33.12	38.08	43.20			54.94	8 / 7			
	reaction time	0.211	interval	4.20	4.20	4.32	4.52	4.76	4.84	4.96	5.12					12.72	14.12	
			velocity	7.17	8.33	8.33	8.10	7.74	7.35	7.23	7.06	6.84		7.28		8.25	7.44	
	H1 lead leg	L	strides	16	15	15	16	16	17	17	17		129					
Spencer, Kaliese (JAM) (1987)	time	6.44	10.68	15.12	19.48	24.00		28.60	33.36	38.24	43.48			55.47	7 / 8			
	reaction time	0.196	interval	4.24	4.44	4.36	4.52	4.60	4.76	4.88	5.24					13.04	13.88	
			velocity	6.99	8.25	7.88	8.03	7.74	7.61	7.35	7.17	6.68		7.21		8.05	7.56	
	H1 lead leg	L	strides	15	15	15	15	15	15	15	16		121					

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

date 31-Jul-15

Enomoto (2015) - 68th high school championships: JAF scientific committee - biomechanics data collection

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ishizuka, Haruko (JPN) (1997)	time	6.67	11.01	15.52	20.07	24.79		29.81	34.92	40.16	45.50	50.97		57.09	4 / 1			
	reaction time	0.158	interval	4.34	4.51	4.55	4.72	5.02	5.11	5.24	5.34	5.47	6.12	NJR / PB		13.40	14.85	16.05
			velocity	6.75	8.06	7.76	7.69	7.42	6.97	6.85	6.68	6.55	6.40	6.54	7.01	7.84	7.07	6.54
	H1 lead leg		strides	15	15	15	15	16	16	17	17	17		143				
Murakami, Mizuki (JPN) (199)	time	6.84	11.33	16.00	20.80	25.83		30.88	36.25	41.61	46.95	52.50		58.95	2 / 2			
	reaction time		interval	4.49	4.67	4.80	5.03	5.05	5.37	5.36	5.34	5.55	6.45	PB		13.96	15.45	16.25
			velocity	6.58	7.80	7.49	7.29	6.93	6.52	6.53	6.55	6.31	6.20	6.79		7.52	6.80	6.46
	H1 lead leg		strides	15	15	15	16	16	17	17	17	17		145				
Arashima, Yuri (JPN) (1997)	time	6.71	11.08	15.53	20.12	24.86		29.95	35.24	40.66	46.35	52.24		58.99	6 / 3			
	reaction time		interval	4.37	4.45	4.59	4.74	5.09	5.29	5.42	5.69	5.89	6.75			13.41	15.12	17.00
			velocity	6.71	8.01	7.87	7.63	7.38	6.88	6.62	6.46	6.15	5.94	5.93	6.78	7.83	6.94	6.18

H1 lead leg	strides	15	15	15	15	17	17	17	17	17	17	145						
Nakagama, Sawako (JPN) (1987)	time	6.87	11.41	16.07	20.80	25.69	30.93	36.40	41.83	47.43	53.27	59.71	7 / 4					
reaction time	interval	4.54	4.66	4.73	4.89		5.24	5.47	5.43	5.60	5.84	6.44	PB	13.93	15.60	16.87		
	velocity	6.55	7.71	7.51	7.40	7.16	6.68	6.40	6.45	6.25	5.99	6.21	6.70	7.54	6.73	6.22		
H1 lead leg	strides	16	16	16	16		18	17	17	17	18	151						
Kamada, Saki (JPN) (1997)	time	6.81	11.44	16.22	20.95	25.89	31.21	36.50	42.09	47.65	53.52	60.04	8 / 5					
reaction time	interval	4.63	4.78	4.73	4.94		5.32	5.29	5.59	5.56	5.87	6.52		14.14	15.55	17.02		
	velocity	6.61	7.56	7.32	7.40	7.09	6.58	6.62	6.26	6.29	5.96	6.13	6.66	7.43	6.75	6.17		
H1 lead leg	strides	17	17	17	17		18	18	18	18	19	159						
Koyama, Kana (JPN) (1998)	time	7.01	11.66	16.47	21.35	26.38	31.48	36.75	42.16	47.88	53.70	60.15	5 / 6					
reaction time	interval	4.65	4.81	4.88	5.03		5.10	5.27	5.41	5.72	5.82	6.45		14.34	15.40	16.95		
	velocity	6.42	7.53	7.28	7.17	6.96	6.86	6.64	6.47	6.12	6.01	6.20	6.65	7.32	6.82	6.19		
H1 lead leg	strides	17	17	17	17		17	17	17	18	18	155						
Iwata, Honoka (JPN) (1997)	time	6.92	11.53	16.35	21.27	26.34	31.40	36.72	42.19	47.83	53.75	60.40	3 / 7					
reaction time	interval	4.61	4.82	4.92	5.07		5.06	5.32	5.47	5.64	5.92	6.65		14.35	15.45	17.03		
	velocity	6.50	7.59	7.26	7.11	6.90	6.92	6.58	6.40	6.21	5.91	6.02	6.62	7.32	6.80	6.17		
H1 lead leg	strides	16	16	17	17		17	17	17	18	19	154						
Nakahara, Minami (JPN) (1999)	time	7.02	11.66	16.35	21.17	26.11	31.31	36.60	42.04	47.83	53.77	60.52	9 / 8					
reaction time	interval	4.64	4.69	4.82	4.94		5.20	5.29	5.44	5.79	5.94	6.75		14.15	15.43	17.17		
	velocity	6.41	7.54	7.46	7.26	7.09	6.73	6.62	6.43	6.04	5.89	5.93	6.61	7.42	6.80	6.12		
H1 lead leg	strides	17	17	17	17		17	17	17	17	19	155						

2015 Japanese National Championships (Niigata, JPN)

FINAL

date 28-Jun-15

Yasunori (2015) - race pattern analysis of the top 400m hurdlers in Japan

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kira, Manami (JPN) (1991)	time	6.71	11.13	15.54	20.04	24.66	29.46	34.41	39.63	45.00	50.77	57.92	7 / 1					
reaction time	0.178 interval		4.42	4.41	4.50	4.62	4.80	4.95	5.22	5.37	5.77	7.15			13.33	14.37	16.36	
	velocity	6.71	7.92	7.94	7.78	7.58	7.29	7.07	6.70	6.52	6.07	5.59	6.91		7.88	7.31	6.42	
H1 lead leg	L strides	23	15	15	15	15	16	16	17	17	18	22.7	189.7					

2015 Seiko Golden Grand Prix (Kawasaki, JPN)

FINAL

date 10-May-15

Yasunori (2015) - race pattern analysis of the top 400m hurdlers in Japan

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kira, Manami (JPN) (1991)	time	6.66	11.00	15.39	19.89	24.49	29.36	34.48	39.75	45.21	51.20	57.73	4 / 2					
reaction time	interval		4.34	4.39	4.50	4.60	4.87	5.12	5.27	5.46	5.99	6.53			13.23	14.59	16.72	
	velocity	6.76	8.06	7.97	7.78	7.61	7.19	6.84	6.64	6.41	5.84	6.13	6.93		7.94	7.20	6.28	
H1 lead leg	strides	15	15	15	15		16	16	16	16	17	22	163					

2014 Chinese National Championships (Suzhou, CHN)

FINAL

date 10-Oct-14

Huang (2021) - study of the pre-competition training of women's 400m hurdler Huang Yan

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Huang Yan (CHN) (1996)	time	6.67	10.99	15.53	20.29	25.21	30.18	35.25	40.42	45.85	51.32	57.44	3 / 3					
reaction time	interval		4.32	4.54	4.76	4.92	4.97	5.07	5.17	5.43	5.47	6.12	PB		13.62	14.96	16.07	
	velocity	6.75	8.10	7.71	7.35	7.11	7.04	6.90	6.77	6.45	6.40	6.54	6.96		7.71	7.02	6.53	
H1 lead leg	strides	25	17	17	17	17	17	17	17	18	18	180						

2014 European Championships (Zurich, SUI)

Semi-Final 1

date 14-Aug-14

Incalza (2014) - FIDAL - <https://www.youtube.com/watch?v=EnX12yLcGsg&list=UU7691fXeyNFIMROfkJ-WWUg>

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Pedroso, Yadisleidis (ITA) (1981)	time	6.69	11.01	15.53	20.00	24.53	26.42	29.17	34.03	39.08	44.25	49.70	56.07	8 / 3				
reaction time	0.188 interval		4.32	4.52	4.47	4.53	4.64	4.86	5.05	5.17	5.45	6.37			13.31	14.03	15.67	
	velocity	6.73	8.10	7.74	7.83	7.73	7.57	7.54	7.20	6.93	6.77	6.42	6.28	7.13		7.89	7.48	6.70
H1 lead leg	R strides	25	16	16	16	16	16	16	16	17	17	18	21.5	194.5				

2014 Japanese National High School Championships (Kofu, JPN)

FINAL

date 01-Aug-14

Yanagiya (2014) - research on athlete performance and technique- 2014 data book

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Arashima, Yuri (JPN) (1997)	time	6.77	11.19	15.66	20.18	24.92	30.03	35.35	40.79	46.41	52.17	58.76	1 / 1					
reaction time	interval		4.42	4.47	4.52	4.74	5.11	5.32	5.44	5.62	5.76	6.59	PB		13.41	15.17	16.82	
	velocity	6.65	7.92	7.83	7.74	7.38	6.85	6.58	6.43	6.23	6.08	6.07	6.81		7.83	6.92	6.24	
H1 lead leg	strides	15	15	15	15		17	17	17	17	17	145						

2014 Japanese National Championships (Fukushima, JPN)

FINAL

date 08-Jun-14

Yasunori (2014) - race pattern analysis of Japanese top 400m hurdlers for major domestic competitions

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kubokura, Satomi (JPN) (1991)	time	6.61	10.95	15.49	20.01	24.71	29.41	34.38	39.47	44.68	50.02	56.39	4 / 1					
reaction time	interval		4.34	4.54	4.52	4.70	4.70	4.97	5.09	5.21	5.34	6.37			13.40	14.37	15.64	
	velocity	6.81	8.06	7.71	7.74	7.45	7.45	7.04	6.88	6.72	6.55	6.28	7.09		7.84	7.31	6.71	
H1 lead leg	L strides	23	16	16	16	16	16	17	17	17	17	21.5	192.5					
Kira, Manami (JPN) (1991)	time	6.72	11.06	15.45	19.92	24.52	29.41	34.38	39.52	44.96	50.60	57.27	6 / 2					
reaction time	interval		4.34	4.39	4.47	4.60	4.89	4.97	5.14	5.44	5.64	6.67			13.20	14.46	16.22	

	velocity	6.70	8.06	7.97	7.83	7.61		7.16	7.04	6.81	6.43	6.21	6.00	6.98		7.95	7.26	6.47
H1 lead leg	L strides	23	15	15	15	15		16	17	17	17	18	22.2	190.2				

2014 Shizuoka International Athletics Meeting (Fukuroi, JPN)

A FINAL

date 03-May-14

Yasunori (2014) - race pattern analysis of Japanese top 400m hurdlers for major domestic competitions

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kubokura, Satomi (JPN) (1991)	time	6.56	10.83	15.33	19.90	24.65		29.45	34.54	39.65	44.91	50.28		56.72	/ 1			
	reaction time		interval	4.27	4.50	4.57	4.75	4.80	5.09	5.11	5.26	5.37	6.44			13.34	14.64	15.74
		velocity	6.86	8.20	7.78	7.66	7.37	7.29	6.88	6.85	6.65	6.52	6.21	7.05		7.87	7.17	6.67
	H1 lead leg		strides	16	16	16	16	16	17	17	17	17	17	148				
Kira, Manami (JPN) (1991)	time	6.81	11.25	15.79	20.42	25.07		29.94	35.00	40.14	45.50	51.12		57.69	/ 2			
	reaction time		interval	4.44	4.54	4.63	4.65	4.87	5.06	5.14	5.36	5.62	6.57			13.61	14.58	16.12
		velocity	6.61	7.88	7.71	7.56	7.53	7.19	6.92	6.81	6.53	6.23	6.09	6.93		7.71	7.20	6.51
	H1 lead leg		strides	15	15	15	15	16	16	16	16	17	141					

2013 IAAF World Championships (Moscow, RUS) (TV Analysis)

FINAL

date 15-Aug-13

Henson (2011) - Athlete First: major championships report

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Hejnová, Zuzana (CZE) (1986)	time	6.34	10.42	14.57	18.73	23.04		27.42	31.96	36.73	41.69	46.73		52.83	3 / 1			
	reaction time	0.149	interval	4.08	4.15	4.16	4.31	4.38	4.54	4.77	4.96	5.04	6.10			12.39	13.23	14.77
		velocity	7.10	8.58	8.43	8.41	8.12	7.99	7.71	7.34	7.06	6.94	6.56	7.57		8.47	7.94	7.11
	H1 lead leg		R strides	22	15	15	15	15	15	16	16	16	20	180				
Muhammad, Dalilah (USA) (1987)	time	6.11	10.23	14.28	18.69	23.04		27.54	32.19	37.11	42.23	47.65		54.09	6 / 2			
	reaction time	0.165	interval	4.12	4.05	4.41	4.35	4.50	4.65	4.92	5.12	5.42	6.44			12.58	13.50	15.46
		velocity	7.36	8.50	8.64	7.94	8.05	7.78	7.53	7.11	6.84	6.46	6.21	7.40		8.35	7.78	6.79
	H1 lead leg		R strides	23	15	15	15	15	15	16	16	16	20.2	181.2				
Demus, Lashinda (USA) (1987)	time	6.00	9.96	14.15	18.54	22.93		27.31	31.92	36.77	42.04	47.58		54.27	4 / 3			
	reaction time	0.156	interval	3.96	4.19	4.39	4.39	4.38	4.61	4.85	5.27	5.54	6.69			12.54	13.38	15.66
		velocity	7.50	8.84	8.35	7.97	7.97	7.99	7.59	7.22	6.64	6.32	5.98	7.37		8.37	7.85	6.70
	H1 lead leg		R strides	23	15	15	15	15	15	15	17	17	21	183				
Titimets, Anna (UKR) (1989)	time	6.46	10.77	15.04	19.38	23.93		28.61		38.35	43.46	48.77		54.72	7 / 4			
	reaction time	0.215	interval	4.31	4.27	4.34	4.55	4.68		9.74	5.11	5.31	5.95	DQ		12.92		
		velocity	6.97	8.12	8.20	8.06	7.69	7.48		7.19	6.85	6.59	6.72	7.31		8.13		
	H1 lead leg		L strides	22	15	15	15	15	15	16	16	19.2	163.2					
Child, Eilidh (GBR) (1987)	time	6.31	10.38	14.65	19.08	23.58		28.19	33.08	38.08	43.23	48.61		54.86	8 / 5-4			
	reaction time	0.175	interval	4.07	4.27	4.43	4.50	4.61	4.89	5.00	5.15	5.38	6.25			12.77	14.00	15.53
		velocity	7.13	8.60	8.20	7.90	7.78	7.59	7.16	7.00	6.80	6.51	6.40	7.29		8.22	7.50	6.76
	H1 lead leg		L strides	23	16	16	16	17	17	17	18	21.2	161.2					
Ryzhykova, Anna (UKR) (1987)	time	6.34	10.58	14.88	19.19	23.84		28.65		38.61	43.77	49.00		55.01	1 / 6-5			
	reaction time	0.169	interval	4.24	4.30	4.31	4.65	4.81		9.96	5.16	5.23	6.01			12.85		
		velocity	7.10	8.25	8.14	8.12	7.53	7.28		7.03	6.78	6.69	6.66	7.27		8.17		
	H1 lead leg		L strides	21	14	14	14	15		15	15	19.2	141.2					
Shakes-Drayton, Perri (GBR) (1987)	time	6.15	10.19	14.34	18.61	23.04		27.69	32.54	37.65	43.00	48.65		56.25	5 / 7-6			
	reaction time	0.188	interval	4.04	4.15	4.27	4.43	4.65	4.85	5.11	5.35	5.65	7.60			12.46	13.93	16.11
		velocity	7.32	8.66	8.43	8.20	7.90	7.53	7.22	6.85	6.54	6.19	5.26	7.11		8.43	7.54	6.52
	H1 lead leg		L strides	24	16	16	16	17	17	18	18	23	181					
Wilson, Nickiesha (JAM) (1987)	time	6.34	10.54	14.77	19.19	23.88		28.69		38.84	44.31	50.11		57.34	2 / 8-7			
	reaction time	0.276	interval	4.20	4.23	4.42	4.69	4.81		10.15	5.47	5.80	7.23			12.85		
		velocity	7.10	8.33	8.27	7.92	7.46	7.28		6.90	6.40	6.03	5.53	6.98		8.17		
	H1 lead leg		L strides	23	15	15	16	16		17	17	21	156					

2013 Chinese National Grand Prix (Zhaoqing, CHN)

FINAL

date 08-Apr-13

Deng (2015) - training practice research of Deng Xiaoping, a women's 400-meter hurdler

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Deng Xiaoping (CHN) (1989)	time	6.6	11.0	15.7	20.3	25.2		30.0	35.0	40.2	45.3	50.7		57.29	/ 1			
	reaction time		interval	4.40	4.70	4.60	4.90	4.80	5.00	5.20	5.10	5.40	6.59			13.70	14.70	15.70
		velocity	6.82	7.95	7.45	7.61	7.14	7.29	7.00	6.73	6.86	6.48	6.07	6.98		7.66	7.14	6.69
	H1 lead leg		strides	24	16	16	16	16	16	16	16	17	169					
Huang Xiaoxiao (CHN) (1983)	time	6.5	11.0	15.6	20.2	24.9		30.1	35.1	40.4	45.5	51.2		58.13	/ 2			
	reaction time		interval	4.50	4.60	4.60	4.70	5.20	5.00	5.30	5.10	5.70	6.93			13.70	14.90	16.10
		velocity	6.92	7.78	7.61	7.61	7.45	6.73	7.00	6.60	6.86	6.14	5.77	6.88		7.66	7.05	6.52
	H1 lead leg		strides	24	16	16	16	16	16	17	17	17	171					

2012 Olympic Games (London, GBR)

FINAL

date 08-Aug-12

Hillier (2012) - uka 2012 olympic games report: 400m hurdles

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Antyukh, Natalya (RUS) (1986)	time	6.26	10.39	14.47	18.65	22.89	24.89	27.35	31.85	36.55	41.40	46.63		52.70	5 / 4			
	reaction time	0.167	interval	4.13	4.08	4.18	4.24	4.46	4.50	4.70	4.85	5.23	6.07	PB-DV		12.39	13.20	14.78

	velocity	7.19	8.47	8.58	8.37	8.25	8.04	7.85	7.78	7.45	7.22	6.69	6.59	7.59	8.47	7.95	7.10
H1 lead leg	L strides	23	15	15	15	15		15	15	16	16	17	20	182			
Demus, Lashinda (USA) (1987)	time	6.07	10.06	14.25	18.68	23.06	24.86	27.55	32.04	36.69	41.64	46.77		52.77	7 / 2 1		
reaction time	0.170 interval		3.99	4.19	4.43	4.38		4.49	4.49	4.65	4.95	5.13	6.00		12.61	13.36	14.73
	velocity	7.41	8.77	8.35	7.90	7.99	8.05	7.80	7.80	7.53	7.07	6.82	6.67	7.58	8.33	7.86	7.13
H1 lead leg	R strides	23	15	15	15	15		15	15	15	16	16	20	180			
Hejnová, Zuzana (CZE) (1986)	time	6.63	10.82	15.07	19.42	23.78	25.58	28.16	32.70	37.42	42.30	47.45		53.38	4 / 3 2		
reaction time	0.163 interval		4.19	4.25	4.35	4.36		4.38	4.54	4.72	4.88	5.15	5.93		12.79	13.28	14.75
	velocity	6.79	8.35	8.24	8.05	8.03	7.82	7.99	7.71	7.42	7.17	6.80	6.75	7.49	8.21	7.91	7.12
H1 lead leg	R strides	23	15	15	15	15		15	15	15	16	16	20	180			
Spencer, Kallese (JAM) (1987)	time	6.36	10.40	14.45	18.60	22.81	24.61	27.40	32.29	37.14	42.12	47.50		53.66	9 / 4 3		
reaction time	0.191 interval		4.04	4.05	4.15	4.21		4.59	4.89	4.85	4.98	5.38	6.16		12.24	13.69	15.21
	velocity	7.08	8.66	8.64	8.43	8.31	8.13	7.63	7.16	7.22	7.03	6.51	6.49	7.45	8.58	7.67	6.90
H1 lead leg	R strides	23	15	15	15	15		15	15	15	15	16	19	178			
Moline, Georganne (USA) (1981)	time	6.57	10.72	15.08	19.47	23.92	25.72	28.44	33.00	37.73	42.75	48.04		53.92	8 / 5 4		
reaction time	0.177 interval		4.15	4.36	4.39	4.45		4.52	4.56	4.73	5.02	5.29	5.88	PB	12.90	13.53	15.04
	velocity	6.85	8.43	8.03	7.97	7.87	7.78	7.74	7.68	7.40	6.97	6.62	6.80	7.42	8.14	7.76	6.98
H1 lead leg	R strides	23	15	15	15	15		15	15	15	16	16	19.2	179.2			
Brown, T'erea (USA) (1989)	time	6.39	10.44	14.68	19.06	23.50		28.07	33.05	38.10	43.34	48.67		55.07	2 / 6 5		
reaction time	0.201 interval		4.05	4.24	4.38	4.44		4.57	4.98	5.05	5.24	5.33	6.40		12.67	13.99	15.62
	velocity	7.04	8.64	8.25	7.99	7.88		7.66	7.03	6.93	6.68	6.57	6.25	7.26	8.29	7.51	6.72
H1 lead leg	R strides	23	15	15	15	15		15	16	17	17	18	166				
Rosolová, Denisa (CZE) (1986)	time	6.67	11.00	15.37	19.78	24.23	26.03	28.73	33.43	38.27	43.40	48.97		55.27	3 / 7 6		
reaction time	0.244 interval		4.33	4.37	4.41	4.45		4.50	4.70	4.84	5.13	5.57	6.30		13.11	13.65	15.54
	velocity	6.75	8.08	8.01	7.94	7.87	7.68	7.78	7.45	7.23	6.82	6.28	6.35	7.24	8.01	7.69	6.76
H1 lead leg	R strides	23	15	15	15	15		15	15	16	16	17	162				
Odumosu, Ajoke (NGR) (1986)	time	6.77	10.88	15.13	19.48	24.00	25.80	28.87	33.83	38.67	44.05	49.50		55.31	6 / 8 7		
reaction time	0.270 interval		4.11	4.25	4.35	4.52		4.87	4.96	4.84	5.38	5.45	5.81		12.71	14.35	15.67
	velocity	6.65	8.52	8.24	8.05	7.74	7.75	7.19	7.06	7.23	6.51	6.42	6.88	7.23	8.26	7.32	6.70
H1 lead leg	L strides	23	15	15	16	15		17	17	17	17	17	169				

2012 Japanese National High School Championships (Niigata, JPN)

FINAL

date 31-Jul-12

Yanagiya (2014) - research on athlete performance and technique- 2014 data book

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Arashima, Yuri (JPN) (1997)	time	6.61	10.96	15.53	20.25	25.04		30.13	35.27	40.64	46.13	51.79		58.27	/ 1			
reaction time	interval		4.35	4.57	4.72	4.79		5.09	5.14	5.37	5.49	5.66	6.48	PB		13.64	15.02	16.52
	velocity	6.81	8.05	7.66	7.42	7.31		6.88	6.81	6.52	6.38	6.18	6.17	6.86		7.70	6.99	6.36
H1 lead leg	strides		17	17	17	17		18	18	19	19	19	161					

2012 Japanese National Championships (Osaka, JPN)

FINAL

date 10-Jun-12

Yasunori (2013) - race pattern analysis for the top Japanese 400m hurdlers in major domestic competitions

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kubokura, Satomi (JPN) (1991)	time	6.59	10.93	15.40	19.97	24.67		29.47	34.51	39.62	44.69	49.85		55.98	7 / 1			
reaction time	interval		4.34	4.47	4.57	4.70		4.80	5.04	5.11	5.07	5.16	6.13			13.38	14.54	15.34
	velocity	6.83	8.06	7.83	7.66	7.45		7.29	6.94	6.85	6.90	6.78	6.53	7.15		7.85	7.22	6.84
H1 lead leg	L strides	23	16	16	16	16		16	17	17	17	17	21	192				
Yoneda, Tomomi (JPN) (1991)	time	6.91	11.31	15.80	20.30	24.92		29.64	34.54	39.60	44.84	50.25		56.62	6 / 2			
reaction time	interval		4.40	4.49	4.50	4.62		4.72	4.90	5.06	5.24	5.41	6.37			13.39	14.24	15.71
	velocity	6.51	7.95	7.80	7.78	7.58		7.42	7.14	6.92	6.68	6.47	6.28	7.06		7.84	7.37	6.68
H1 lead leg	R strides	23	15	15	15	15		16	16	16	16	17	21	185				

2012 Shizuoka International Athletics Meeting (Fukuroi, JPN)

A FINAL

date 03-May-12

Yasunori (2013) - race pattern analysis for the top Japanese 400m hurdlers in major domestic competitions

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kubokura, Satomi (JPN) (1991)	time	6.49	10.68	15.18	19.78	24.42		29.12	34.06	39.22	44.48	49.80		56.03	/ 2			
reaction time	interval		4.19	4.50	4.60	4.64		4.70	4.94	5.16	5.26	5.32	6.23			13.29	14.28	15.74
	velocity	6.93	8.35	7.78	7.61	7.54		7.45	7.09	6.78	6.65	6.58	6.42	7.14		7.90	7.35	6.67
H1 lead leg	strides		15	16	16	16		16	17	17	17	17	147					
Tago, Miyabi (JPN) (1988)	time	6.77	11.21	15.71	20.26	24.91		29.71	34.82	39.96	45.18	50.49		56.57	/ 3			
reaction time	interval		4.44	4.50	4.55	4.65		4.80	5.11	5.14	5.22	5.31	6.08			13.49	14.56	15.67
	velocity	6.65	7.88	7.78	7.69	7.53		7.29	6.85	6.81	6.70	6.59	6.58	7.07		7.78	7.21	6.70
H1 lead leg	strides		15	15	15	15		15	16	16	16	16	139					
Yoneda, Tomomi (JPN) (1991)	time	6.92	11.39	15.98	20.58	25.22		30.02	34.99	40.10	45.36	50.68		56.80	/ 4			
reaction time	interval		4.47	4.59	4.60	4.64		4.80	4.97	5.11	5.26	5.32	6.12	PB		13.66	14.41	15.69
	velocity	6.50	7.83	7.63	7.61	7.54		7.29	7.04	6.85	6.65	6.58	6.54	7.04		7.69	7.29	6.69
H1 lead leg	strides		15	15	15	15		16	16	16	16	17	141					

2011 IAAF World Championships (Daegu, KOR)

FINAL

date 01-Sep-11

Behm (2011) - Le quadrache: Démus enfin!

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Demus, Lashinda (USA) (1981)	time	6.0	10.0	14.1	18.4	22.9		27.4	32.0	36.5	41.4	46.5		52.47	3 / 1			
	reaction time	0.149	interval	4.0	4.1	4.3	4.5	4.5	4.6	4.5	4.9	5.1	6.0	AR		12.40	13.60	14.50
	velocity	7.50	8.75	8.54	8.14	7.78		7.78	7.61	7.78	7.14	6.86	6.70	7.62		8.47	7.72	7.24
	H1 lead leg	R	strides	23	15	15	15	15	15	15	16	16	20	180				
Walker, Melanie (JAM) (1983)	time	6.2	10.2	14.3	18.6	23.0		27.4	32.0	36.7	41.5	46.6		52.73	8 / 2			
	reaction time	0.219	interval	4.0	4.1	4.3	4.4	4.4	4.6	4.7	4.8	5.1	6.1			12.40	13.40	14.60
	velocity	7.26	8.75	8.54	8.14	7.95		7.95	7.61	7.45	7.29	6.86	6.53	7.59		8.47	7.84	7.19
	H1 lead leg	R	strides	23	15	15	15	15	16	16	16	17	21	184				
Antyukh, Natalya (RUS) (1981)	time	6.2	10.4	14.5	18.8	23.2		27.7	32.4	37.2	42.3	47.6		53.85	5 / 3			
	reaction time	0.151	interval	4.2	4.1	4.3	4.4	4.5	4.7	4.8	5.1	5.3	6.3			12.60	13.60	15.20
	velocity	7.26	8.33	8.54	8.14	7.95		7.78	7.45	7.29	6.86	6.60	6.40	7.43		8.33	7.72	6.91
	H1 lead leg	R	strides	22	15	15	15	16	16	17	17	17	20	185				
Spencer, Kallese (JAM) (1981)	time	6.1	10.1	14.1	18.4	22.9		27.2	32.0	36.7	41.9	47.3		54.01	2 / 4			
	reaction time	0.195	interval	4.0	4.0	4.3	4.5	4.3	4.8	4.7	5.2	5.4	6.7			12.30	13.60	15.30
	velocity	7.38	8.75	8.75	8.14	7.78		8.14	7.29	7.45	6.73	6.48	5.96	7.41		8.54	7.72	6.86
	H1 lead leg	L	strides	21	14	14	14	15	15	15	16	16	20	174				
Rabcheniuk, Anastasia (UKF) (1981)	time	6.2	10.3	14.4	18.6	23.1		27.7	32.6	37.7	42.9	48.1		54.18	1 / 5			
	reaction time	0.174	interval	4.1	4.1	4.2	4.5	4.6	4.9	5.1	5.2	5.2	6.1			12.40	14.00	15.50
	velocity	7.26	8.54	8.54	8.33	7.78		7.61	7.14	6.86	6.73	6.73	6.58	7.38		8.47	7.50	6.77
	H1 lead leg	R	strides	22	15	15	15	16	16	17	17	17	165					
Stambolova, Vania (BUL) (1981)	time	6.5	10.7	15.0	19.3	23.6		28.2	33.0	37.7	42.8	48.0		54.23	6 / 6			
	reaction time	0.260	interval	4.2	4.3	4.3	4.3	4.6	4.8	4.7	5.1	5.2	6.2			12.80	13.70	15.00
	velocity	6.92	8.33	8.14	8.14	8.14		7.61	7.29	7.45	6.86	6.73	6.42	7.38		8.20	7.66	7.00
	H1 lead leg	R	strides	22	15	15	15	15	15	16	17	17	162					
Hejnová, Zuzana (CZE) (1981)	time	6.2	10.3	14.6	18.9	23.3		27.9	32.5	37.3	42.3	47.6		54.23	4 / 7			
	reaction time	0.158	interval	4.1	4.3	4.3	4.4	4.6	4.6	4.8	5.0	5.3	6.6			12.70	13.60	15.10
	velocity	7.26	8.54	8.14	8.14	7.95		7.61	7.61	7.29	7.00	6.60	6.03	7.38		8.27	7.72	6.95
	H1 lead leg	R	strides	22	15	15	15	15	15	16	16	16	20	180				
Churakova, Yelena (RUS) (1981)	time	6.4	10.7	15.2	19.6	24.1		28.8	33.6	38.6				55.31	7 / 8			
	reaction time	0.173	interval	4.3	4.5	4.4	4.5	4.7	4.8	5.0						13.20	14.00	
	velocity	7.03	8.14	7.78	7.95	7.78		7.45	7.29	7.00				7.23		7.95	7.50	
	H1 lead leg	R	strides	22	15	15	15	15	15	15				128				

2011 Japanese National High School Championships (Kitakami, JPN)

FINAL

date 05-Aug-11

Abe (2011) - 64th high school championships: JAF scientific committee - biomechanics data collection

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Takisawa, Aya (JPN) (1994)	time	6.82	11.32	15.99	20.75	25.66		30.64	35.91	41.54	47.56	53.59		60.01	3 / 1			
	reaction time	interval	4.50	4.67	4.76	4.91		4.98	5.27	5.63	6.02	6.03	6.42			13.93	15.16	17.68
	velocity	6.60	7.78	7.49	7.35	7.13		7.03	6.64	6.22	5.81	5.80	6.23	6.67		7.54	6.93	5.94
	H1 lead leg	strides																
Nishida, Ayaka (JPN) (1993)	time	7.04	11.88	16.73	21.69	26.73		31.95	37.20	42.69	48.43	54.17		60.13	6 / 2			
	reaction time	interval	4.84	4.85	4.96	5.04		5.22	5.25	5.49	5.74	5.74	5.96			14.65	15.51	16.97
	velocity	6.39	7.23	7.22	7.06	6.94		6.70	6.67	6.38	6.10	6.10	6.71	6.65		7.17	6.77	6.19
	H1 lead leg	strides																
Benjabala, Mina (JPN) (1994)	time	7.17	12.08	16.93	21.94	27.01		32.08	37.15	42.66	48.45	54.27		60.58	7 / 3			
	reaction time	interval	4.91	4.85	5.01	5.07		5.07	5.07	5.51	5.79	5.82	6.31			14.77	15.21	17.12
	velocity	6.28	7.13	7.22	6.99	6.90		6.90	6.90	6.35	6.04	6.01	6.34	6.60		7.11	6.90	6.13
	H1 lead leg	strides																

2011 Asian Championships (Kobe, JPN)

FINAL

date 10-Jul-11

Yasuhori (2012) - race pattern analysis of top Japanese 400m hurdlers at major domestic competitions 2009-11

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kubokura, Satomi (JPN) (1981)	time	6.47	10.82	15.39	20.04	24.88		29.62	34.63	39.75	44.92	50.34		56.52	/ 1			
	reaction time	0.198	interval	4.35	4.57	4.65	4.84	4.74	5.01	5.12	5.17	5.42	6.18			13.57	14.59	15.71
	velocity	6.96	8.05	7.66	7.53	7.23		7.38	6.99	6.84	6.77	6.46	6.47	7.08		7.74	7.20	6.68
	H1 lead leg	strides	16	16	16	16		16	17	17	17	18	149					

2011 Poks Memorial (Hässleholm, SWE)

FINAL

date 12-Jun-11

Blomkvist (2011) - www.elitlandslag.se/SprintHäck/LängSprintHäck.aspx

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Granqvist, Emilia (SWE) (1991)	time	6.90	11.44	16.24	21.14	26.20		31.56	37.06	42.88	48.82	54.92		61.70	/ 3			
	reaction time	interval	4.54	4.80	4.90	5.06		5.36	5.50	5.82	5.94	6.10	6.78			14.24	15.92	17.86
	velocity	6.52	7.71	7.29	7.14	6.92		6.53	6.36	6.01	5.89	5.74	5.90	6.48		7.37	6.60	5.88
	H1 lead leg	L	strides	16	17	17	17	18	18	19	19	19	160					

B-Race

date 12-Jun-11

Blomkvist (2011) - www.elitlandslag.se/SprintHäck/LängSprintHäck.aspx

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Marcinkiewicz, Eva (SWE) (1991)	7.12	11.84	16.66	21.66	26.74		31.98	37.46	43.10	48.78	54.52		60.75	/ 1			
reaction time		4.72	4.82	5.00	5.08		5.24	5.48	5.64	5.68	5.74	6.23			14.54	15.80	17.06
velocity	6.32	7.42	7.26	7.00	6.89		6.68	6.39	6.21	6.16	6.10	6.42	6.58		7.22	6.65	6.15
H1 lead leg	R	17	17	17	17		17	17	18	18	18	22	178				
Ndiwebene, Nuulu (SWE) (1991)	6.76	11.26	15.86	20.62	25.50		30.66	36.12	41.86	47.78	54.08		61.03	/ 2			
reaction time		4.50	4.60	4.76	4.88		5.16	5.46	5.74	5.92	6.30	6.95			13.86	15.50	17.96
velocity	6.66	7.78	7.61	7.35	7.17		6.78	6.41	6.10	5.91	5.56	5.76	6.55		7.58	6.77	5.85
H1 lead leg	L	17	17	17	18		18	19	20	19	21	22	188				
Hindrikes, Evelin (SWE) (1991)	7.20	11.89	16.60	21.42	26.38		31.64	37.32	43.08	48.90	54.74		61.20	/ 3			
reaction time		4.69	4.71	4.82	4.96		5.26	5.68	5.76	5.82	5.84	6.46			14.22	15.90	17.42
velocity	6.25	7.46	7.43	7.26	7.06		6.65	6.16	6.08	6.01	5.99	6.19	6.54		7.38	6.60	6.03
H1 lead leg	L	17	17	17	17		17	18	18	18	18	22	179				
Hurkmans, Jennie (SWE) (1991)	7.10	11.74	16.60	21.70	26.84			37.84	43.06	48.94	55.06		61.79	/ 4			
reaction time		4.64	4.86	5.10	5.14			11.00	5.22	5.88	6.12	6.73	PB		14.60	16.14	17.22
velocity	6.34	7.54	7.20	6.86	6.81			6.36	6.70	5.95	5.72	5.94	6.47		7.19	6.51	6.10
H1 lead leg	R	16	16	17	17			17	18	19	21	158					

2011 Japanese National Championships (Kumagaya, JPN)

FINAL

date 12-Jun-11

Yasuohri (2012) - race pattern analysis of top Japanese 400m hurdlers at major domestic competitions 2009-11

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kubokura, Satomi (JPN) (1991)	6.51	10.91	15.36	19.95	24.55		29.37	34.22	39.19	44.30	49.61		55.81	/ 1			
reaction time		4.40	4.45	4.59	4.60		4.82	4.85	4.97	5.11	5.31	6.20			13.44	14.27	15.39
velocity	6.91	7.95	7.87	7.63	7.61		7.26	7.22	7.04	6.85	6.59	6.45	7.17		7.81	7.36	6.82
H1 lead leg		16	16	16	16		17	17	17	17	17		149				
Tago, Miyabi (JPN) (1988)	6.79	11.16	15.55	20.00	24.55		29.22	34.14	39.15	44.42	50.26		56.90	/ 2			
reaction time		4.37	4.39	4.45	4.55		4.67	4.92	5.01	5.27	5.84	6.64			13.21	14.14	16.12
velocity	6.63	8.01	7.97	7.87	7.69		7.49	7.11	6.99	6.64	5.99	6.02	7.03		7.95	7.43	6.51
H1 lead leg		15	15	15	15		15	16	16	16	18		141				
Miki, Shiori (JPN) (1991)	6.61	11.08	15.67	20.34	25.19		30.18	35.24	40.38	45.64	50.93		56.92	/ 3			
reaction time		4.47	4.59	4.67	4.85		4.99	5.06	5.14	5.26	5.29	5.99	PB		13.73	14.90	15.69
velocity	6.81	7.83	7.63	7.49	7.22		7.01	6.92	6.81	6.65	6.62	6.68	7.03		7.65	7.05	6.69
H1 lead leg		16	16	16	16		17	17	17	17	17		149				

2011 Friidrott (Stockholm, SWE)

FINAL

date 07-Jun-11

Blomkvist (2011) - www.elitlandslag.se/SprintHäck/LängSprintHäck.aspx

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Granqvist, Emilia (SWE) (1991)	6.94	11.48	16.12	21.04	26.10		31.24	36.50	41.90	47.68	53.44		60.25	/ 1			
reaction time		4.54	4.64	4.92	5.06		5.14	5.26	5.40	5.78	5.76	6.81			14.10	15.46	16.94
velocity	6.48	7.71	7.54	7.11	6.92		6.81	6.65	6.48	6.06	6.08	5.87	6.64		7.45	6.79	6.20
H1 lead leg	L	16	16	17	17		17	17	17	18	18	22	175				
Ndiwebene, Nuulu (SWE) (1991)	6.80	11.44	16.16	21.12	26.10		31.28	36.70	42.30	48.04	53.96		60.94	/ 2			
reaction time		4.64	4.72	4.96	4.98		5.18	5.42	5.60	5.74	5.92	6.98			14.32	15.58	17.26
velocity	6.62	7.54	7.42	7.06	7.03		6.76	6.46	6.25	6.10	5.91	5.73	6.56		7.33	6.74	6.08
H1 lead leg	L	17	17	18	18		18	19	19	19	21	22	188				
Bley, Sara (SWE) (1991)	7.16	11.82	16.56	21.56	26.80		32.04	37.38	42.94	48.80	54.64		61.35	/ 3			
reaction time		4.66	4.74	5.00	5.24		5.24	5.34	5.56	5.86	5.84	6.71			14.40	15.82	17.26
velocity	6.28	7.51	7.38	7.00	6.68		6.68	6.55	6.29	5.97	5.99	5.96	6.52		7.29	6.64	6.08
H1 lead leg	L	16	16	17	17		17	17	17	18	18	22	175				
Hurkmans, Jennie (SWE) (1991)	6.94	11.80	16.64	21.68	26.88		32.38	37.90	43.58	49.40	55.46		62.04	/ 4			
reaction time		4.86	4.84	5.04	5.20		5.50	5.52	5.68	5.82	6.06	6.58			14.74	16.22	17.56
velocity	6.48	7.20	7.23	6.94	6.73		6.36	6.34	6.16	6.01	5.78	6.08	6.45		7.12	6.47	5.98
H1 lead leg	R	16	16	16	16		17	17	17	17	18	21	171				
Jernbeck, Therese (SWE) (1991)		12.32	17.36	22.56	28.00		33.64	39.36	45.44	51.28	57.06		63.13	/ 4			
reaction time			5.04	5.20	5.44		5.64	5.72	6.08	5.84	5.78	6.07				16.80	17.70
velocity		6.49	6.94	6.73	6.43		6.21	6.12	5.76	5.99	6.06	6.59	6.34			6.25	5.93
H1 lead leg			16	16	16		16	16	17	16	16	19	148				

2010 Commonwealth Games (Dehli, IND)

FINAL

date 10-Oct-10

Arnold (2010) - 400mH planning and peaking

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Odomosu, Joke (NGR) (1987)	0.246	no information available											55.28	4 / 1			
Child, Eilidh (GBR) (1987)	6.5	10.8	15.2	19.7	24.2	26.2	28.8	33.7	38.7	44.1	49.5		55.62	5 / 2			
reaction time	0.238	4.3	4.4	4.5	4.5		4.6	4.9	5.0	5.4	5.4	6.12			13.20	14.00	15.80
velocity	6.92	8.14	7.95	7.78	7.78	7.63	7.61	7.14	7.00	6.48	6.48	6.54	7.19		7.95	7.50	6.65
H1 lead leg	L	24	16	16	16	16	16	17	17	18	18	21.5	195.5				
Wilson, Nickiesha (JAM) (1991)	0.306	no information available											56.06	6 / 3			

Boden, Lauren (AUS) (1988)	0.210	no information available	56.31	7 / 4
Mebam, Caroline Kaboud (C	0.354	no information available	57.61	9 / 5
Wasike, Florence (KEN) (197	0.254	no information available	57.75	2 / 6
Beesley, Meghan (GBR) (198	0.258	no information available	58.36	8 / 7

Heat 2

date 09-Oct-10

Arnold (2010) - 400mH planning and peaking

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Child, Eilidh (GBR) (1987)	time	6.3	10.7	15.1	19.5	24.0	26.0	28.8	33.8	39.1	44.5	49.9		56.16	7 / 2				
	reaction time	0.202	interval	4.4	4.4	4.4	4.5	4.8	5.0	5.3	5.4	5.4	6.26			13.20	14.30	16.10	
			velocity	7.14	7.95	7.95	7.95	7.78	7.69	7.29	7.00	6.60	6.48	6.39	7.12		7.95	7.34	6.52
	H1 lead leg		strides																

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

date 31-Jul-10

Matsuo (2010) - 63rd high school championships: JAF scientific committee - biomechanics data collection

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Umemoto, Rina (JPN) (1992)	time	7.11	11.73	16.47	21.26	26.20		31.07	36.33	41.70	47.44	53.31		59.96	1 / 1			
	reaction time		interval	4.62	4.74	4.79	4.94	4.87	5.26	5.37	5.74	5.87	6.65	PB		14.15	15.07	16.98
			velocity	6.33	7.58	7.38	7.31	7.19	6.65	6.52	6.10	5.96	6.02	6.67		7.42	6.97	6.18
	H1 lead leg		strides	17	17	17	17	17	18	18	19	20	160					
Omori, Nanase (JPN) (1992)	time	6.76	11.23	15.95	20.75	25.69		30.71	35.90	41.31	47.13	53.25		60.51	1 / 2			
	reaction time		interval	4.47	4.72	4.80	4.94	5.02	5.19	5.41	5.82	6.12	7.26			13.99	15.15	17.35
			velocity	6.66	7.83	7.42	7.29	6.97	6.74	6.47	6.01	5.72	5.51	6.61		7.51	6.93	6.05
	H1 lead leg		strides	17	17	17	17	17	17	17	18	19	156					
Sugiyama, Manaho (JPN) (1988)	time	6.91	11.63	16.48	21.35	26.37		31.41	36.58	41.89	47.63	53.94		61.21	1 / 3			
	reaction time		interval	4.72	4.85	4.87	5.02	5.04	5.17	5.31	5.74	6.31	7.27			14.44	15.23	17.36
			velocity	6.51	7.42	7.22	7.19	6.94	6.77	6.59	6.10	5.55	5.50	6.53		7.27	6.89	6.05
	H1 lead leg		strides	17	17	17	17	17	17	17	18	20	157					

Behm (2010) - les haies bases

2010 European Championships (Barcelona, ESP)**FINAL**

date 30-Jul-10

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

Arnold (2010) - 400mH planning and peaking

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Antyukh, Natalya (RUS) (1988)	time	6.43	10.52	14.66	18.93	23.19		27.60	32.18	37.03	41.95	47.01		52.92	6 / 1			
	reaction time	0.182	interval	4.09	4.14	4.27	4.26	4.41	4.58	4.85	4.92	5.06	5.91	CR		12.50	13.25	14.83
			velocity	7.00	8.56	8.45	8.20	7.94	7.64	7.22	7.11	6.92	6.77	7.56		8.40	7.92	7.08
	H1 lead leg	L	strides	23	15	15	15	15	15	15	16	16	19.5	179.5				
Stambolova, Vania (BUL) (1988)	time	6.8	11.1	15.4	19.8	24.2		28.7	33.3	38.1	43.0	48.0		53.82	5 / 2			
	reaction time	0.283	interval	4.3	4.3	4.4	4.4	4.5	4.6	4.8	4.9	5.0	5.8	NR		13.00	13.50	14.70
			velocity	6.62	8.14	8.14	7.95	7.78	7.61	7.29	7.14	7.00	6.87			8.08	7.78	7.14
	H1 lead leg	R	strides	23	15	15	15	15	15	16	16	16	161					
Shakes-Drayton, Perri (GBR) (1987)	time	6.46	10.64	14.88	19.26	23.54		28.08	32.88	37.86	42.90	48.14		54.18	7 / 3			
	reaction time	0.270	interval	4.18	4.24	4.38	4.28	4.54	4.80	4.98	5.04	5.24	6.04	PB		12.80	13.62	15.26
			velocity	6.97	8.37	8.25	7.99	7.71	7.29	7.03	6.94	6.68	6.62	7.38		8.20	7.71	6.88
	H1 lead leg	L	strides	24	16	16	15	15	17	17	17	17	170					
Hejnová, Zuzana (CZE) (1988)	0.183	no information available	54.30	3 / 4														
Morosanu, Angela (ROU) (1988)	0.230	no information available	54.58	4 / 5														
Isakova, Yevgeniya (RUS) (1988)	0.208	no information available	54.59	8 / 6														
Ivanova, Natalya (RUS) (1981)	0.268	no information available	55.51	1 / 7														

Behm (2010)

Arnold (2010)

Child, Eilidh (GBR) (1987)	time		10.64	15.04	19.42	24.02		28.76	33.62	38.76	44.08	49.50		55.51	2 / 8			
	reaction time	0.199	interval	4.40	4.38	4.60		4.74	4.86	5.14	5.32	5.42	6.01			14.20	15.88	
			velocity	7.52	7.95	7.99	7.61	7.38	7.20	6.81	6.58	6.46	6.66	7.21		7.39	6.61	
	H1 lead leg	L	strides	24	16	16	16	17	17	17	18	18	176					

Semi-Final 2

date 28-Jul-10

Arnold (2010) - 400mH planning and peaking

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shakes-Drayton, Perri (GBR) (1987)	time	6.50	10.74	15.16	19.54	24.04		28.70	33.54	38.50	43.52	48.82		54.73	3 / 3			
	reaction time	0.258	interval	4.24	4.42	4.38	4.50	4.66	4.84	4.96	5.02	5.30	5.91	PB		13.04	14.00	15.28
			velocity	6.92	8.25	7.92	7.99	7.51	7.23	7.06	6.97	6.60	6.77	7.31		8.05	7.50	6.87
	H1 lead leg	R	strides	15	16	16	15	16	16	17	17	17	17					

Semi-Final 1

date 28-Jul-10

Arnold (2010) - 400mH planning and peaking

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Child, Eilidh (GBR) (1987)	time	6.48	10.78	15.10	19.50	23.96		28.64	33.48	38.38	43.64	49.20		55.27	4 / 4			
	reaction time	0.169	interval	4.30	4.32	4.40	4.46	4.68	4.84	4.90	5.26	5.56	6.07			13.02	13.98	15.72
			velocity	6.94	8.14	8.10	7.95	7.48	7.23	7.14	6.65	6.29	6.59	7.24		8.06	7.51	6.68
	H1 lead leg	L	strides															

Heat 3

date 27-Jul-10

Arnold (2010) - 400mH planning and peaking

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Child, Eilidh (GBR) (1987)	time	6.56	10.82	15.20	19.56	24.04		28.70	33.52	38.54	44.06	49.70		55.82	8 / 2			
	reaction time	0.331	interval	4.26	4.38	4.36	4.48	4.66	4.82	5.02	5.52	5.64	6.12			13.00	13.96	16.18
			velocity	6.86	8.22	7.99	8.03	7.51	7.26	6.97	6.34	6.21	6.54	7.17		8.08	7.52	6.49

H1 lead leg L strides

Heat 1

date 27-Jul-10

Arnold (2010) - 400mH planning and peaking

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Shakes-Drayton, Perri (GBR) time	6.54	10.74	15.04	19.42	23.92		28.54	33.54	38.62	44.00	49.36		55.35	4 / 2			
reaction time	0.189	interval	4.20	4.30	4.38	4.50	4.62	5.00	5.08	5.38	5.36	5.99			12.88	14.12	15.82
velocity	6.88	8.33	8.14	7.99	7.78		7.58	7.00	6.89	6.51	6.53	6.68	7.23		8.15	7.44	6.64
H1 lead leg	R	strides	15	16	16	15	16	16	17	17	17						

2010 Japanese National Championships (Marugume, JPN)

FINAL

date 06-Jun-10

Yasuhori (2012) - race pattern analysis of top Japanese 400m hurdlers at major domestic competitions 2009-11

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kubokura, Satomi (JPN) (1987) time	6.47	10.76	15.25	19.82	24.44		29.23	34.22	39.36	44.52	49.73		55.83	/ 1			
reaction time	0.183	interval	4.29	4.49	4.57	4.62	4.79	4.99	5.14	5.16	5.21	6.10			13.35	14.40	15.51
velocity	6.96	8.16	7.80	7.66	7.58		7.31	7.01	6.81	6.78	6.72	6.56	7.16		7.87	7.29	6.77
H1 lead leg		strides	15	16	16	16	16	16	17	17	17		146				
Tago, Miyabi (JPN) (1988) time	6.84	11.19	15.68	20.20	24.79		29.66	34.63	39.74	44.86	50.17		56.31	/ 2			
reaction time	0.184	interval	4.35	4.49	4.52	4.59	4.87	4.97	5.11	5.12	5.31	6.14			13.36	14.43	15.54
velocity	6.58	8.05	7.80	7.74	7.63		7.19	7.04	6.85	6.84	6.59	6.51	7.10		7.86	7.28	6.76
H1 lead leg		strides	15	15	15	15	16	16	16	16	16		140				
Aoki, Sayaka (JPN) (1986) time	6.55	10.99	15.44	20.01	24.65		29.49	34.55	39.66	44.87	50.29		56.90	/ 3			
reaction time		interval	4.44	4.45	4.57	4.64	4.84	5.06	5.11	5.21	5.42	6.61			13.46	14.54	15.74
velocity	6.87	7.88	7.87	7.66	7.54		7.23	6.92	6.85	6.72	6.46	6.05	7.03		7.80	7.22	6.67
H1 lead leg		strides	16	16	16	16	17	17	17	17	17		149				

2010 Osaka Grand Prix (Osaka, JPN)

FINAL

date 08-May-10

Yasuhori (2012) - race pattern analysis of top Japanese 400m hurdlers at major domestic competitions 2009-11

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tago, Miyabi (JPN) (1988) time	6.76	11.08	15.50	19.97	24.56		29.38	34.32	39.38	44.55	49.86		55.99	/ 3			
reaction time		interval	4.32	4.42	4.47	4.59	4.82	4.94	5.06	5.17	5.31	6.13	PB		13.21	14.35	15.54
velocity	6.66	8.10	7.92	7.83	7.63		7.26	7.09	6.92	6.77	6.59	6.53	7.14		7.95	7.32	6.76
H1 lead leg		strides	15	15	15	15	16	16	16	16	17		141				
Kubokura, Satomi (JPN) (1987) time	6.34	10.58	14.95	19.32	23.94		28.61	33.58	38.79	44.18	49.72		56.29	/ 4			
reaction time		interval	4.24	4.37	4.37	4.62	4.67	4.97	5.21	5.39	5.54	6.57			12.98	14.26	16.14
velocity	7.10	8.25	8.01	8.01	7.58		7.49	7.04	6.72	6.49	6.32	6.09	7.11		8.09	7.36	6.51
H1 lead leg		strides	16	16	16	16	16	17	17	17	17		148				

2010 Shizuoka International Athletics Meeting (Fukuroi, JPN)

Race A

date 03-May-10

Yasuhori (2012) - race pattern analysis of top Japanese 400m hurdlers at major domestic competitions 2009-11

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kubokura, Satomi (JPN) (1987) time	6.46	10.73	15.23	19.78	24.47		29.15	34.07	39.13	44.39	49.98		56.50	/ 2			
reaction time		interval	4.27	4.50	4.55	4.69	4.68	4.92	5.06	5.26	5.59	6.52			13.32	14.29	15.91
velocity	6.97	8.20	7.78	7.69	7.46		7.48	7.11	6.92	6.65	6.26	6.13	7.08		7.88	7.35	6.60
H1 lead leg		strides	16	16	16	16	16	17	17	17	17		148				

2009 IAAF World Championships (Berlin, GER)

FINAL

date 20-Aug-09

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

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Walker, Melaine (JAM) (1983) time	6.23	10.15	14.32	18.58	22.98		27.45	32.08	36.81	41.58	46.63		52.42	4 / 1			
reaction time	0.142	interval	3.92	4.17	4.26	4.40	4.47	4.63	4.73	4.77	5.05	5.79	CR / AR		12.35	13.50	14.55
velocity	7.22	8.93	8.39	8.22	7.95		7.83	7.56	7.40	7.34	6.93	6.91	7.63		8.50	7.78	7.22
H1 lead leg		strides	15	15	15	15	15	16	16	16	17		140				
Demus, Lashinda (USA) (1981) time	6.16	10.11	14.23	18.59	23.05		27.51	32.02	36.65	41.70	46.99		52.96	5 / 2			
reaction time	0.159	interval	3.95	4.12	4.36	4.46	4.46	4.51	4.63	5.05	5.29	5.97			12.43	13.43	14.97
velocity	7.31	8.86	8.50	8.03	7.85		7.85	7.76	7.56	6.93	6.62	6.70	7.55		8.45	7.82	7.01
H1 lead leg		strides	15	15	15	15	15	15	15	17	17		139				
Lucas, Josanne (TTO) (1984) time	6.26	10.20	14.30	18.50	22.90		27.47	32.17	36.97	42.01	47.21		53.20	3 / 3			
reaction time	0.186	interval	3.94	4.10	4.20	4.40	4.57	4.70	4.80	5.04	5.20	5.99	NR		12.24	13.67	15.04
velocity	7.19	8.88	8.54	8.33	7.95		7.66	7.45	7.29	6.94	6.73	6.68	7.52		8.58	7.68	6.98
H1 lead leg		strides	14	14	14	14	15	15	15	16	16		133				
Spencer, Kaliese (JAM) (1987) time	6.43	10.48	14.66	18.93	23.31		27.95	32.69	37.51	42.45	47.55		53.56	6 / 4			
reaction time	0.149	interval	4.05	4.18	4.27	4.38	4.64	4.74	4.82	4.94	5.10	6.01	PB		12.50	13.76	14.86
velocity	7.00	8.64	8.37	8.20	7.99		7.54	7.38	7.26	7.09	6.86	6.66	7.47		8.40	7.63	7.07
H1 lead leg		strides	14	14	14	14	15	15	15	15	15		131				
Williams, Tiffany (USA) (1988) time	6.31	10.34	14.45	18.68	22.96		27.45	32.27	37.09	42.21	47.53		53.83	2 / 5			
reaction time	0.161	interval	4.03	4.11	4.23	4.28	4.49	4.82	4.82	5.12	5.32	6.30			12.37	13.59	15.26
velocity	7.13	8.68	8.52	8.27	8.18		7.80	7.26	7.26	6.84	6.58	6.35	7.43		8.49	7.73	6.88
H1 lead leg		strides	15	15	15	15	15	16	16	17	17		141				
Antyukh, Natalya (RUS) (1986) time	6.61	10.63	14.67	18.86	23.14		27.61	32.22	37.07	42.27	47.68		54.11	7 / 6			

reaction time	0.205	interval	4.02	4.04	4.19	4.28	4.47	4.61	4.85	5.20	5.41	6.43	PB	12.25	13.36	15.46	
		velocity	6.81	8.71	8.66	8.35	8.18	7.83	7.59	7.22	6.73	6.47	6.22	7.39	8.57	7.86	6.79
H1 lead leg		strides	15	15	15	15	15	16	16	17	17		141				
Rabchenyuk, Anastasiya (UKR)	time	6.51	10.61	14.81	19.19	23.82	28.58	33.45	38.45	43.67	49.03		54.78	8 / 7			
reaction time	0.206	interval	4.10	4.20	4.38	4.63	4.76	4.87	5.00	5.22	5.36	5.75		12.68	14.26	15.58	
		velocity	6.91	8.54	8.33	7.99	7.56	7.35	7.19	7.00	6.70	6.53	6.96	7.30	8.28	7.36	6.74
H1 lead leg		strides	15	15	15	16	16	16	16	16	17	18	144				
Morosanu, Angela (ROU) (1984)	time	6.17	10.14	14.24	18.56	22.97	27.70	32.63	37.70	43.08	48.71		55.04	1 / 8			
reaction time	0.183	interval	3.97	4.10	4.32	4.41	4.73	4.93	5.07	5.38	5.63	6.33		12.39	14.07	16.08	
		velocity	7.29	8.82	8.54	8.10	7.94	7.40	7.10	6.90	6.51	6.22	6.32	7.27	8.47	7.46	6.53
H1 lead leg		strides	14	14	15	14	15	15	15	15	16	17	135				

Semi-Final 3

date 18-Aug-09

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

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Demus, Lashinda (USA) (1987)	time	6.22	10.21	14.44	18.83	23.40	27.99	32.67	37.50	42.74	48.23		54.25	6 / 1					
reaction time	0.162	interval	3.99	4.23	4.39	4.57	4.59	4.68	4.83	5.24	5.49	6.02					12.61	13.84	15.56
		velocity	7.23	8.77	8.27	7.97	7.66	7.63	7.48	7.25	6.68	6.38	6.64	7.37			8.33	7.59	6.75
H1 lead leg	R	strides	23	15	15	15	15	15	15	15	15	17	17	19.7	181.7				
Antyukh, Natalya (RUS) (1988)	time	6.80	11.05	15.35	19.74	24.20	27.78	33.53	38.42	43.34	48.91		54.86	5 / 2					
reaction time	0.176	interval	4.25	4.30	4.39	4.46	3.58	5.75	4.89	4.92	5.57	5.95					12.94	13.79	15.38
		velocity	6.62	8.24	8.14	7.97	7.85	9.78	6.09	7.16	7.11	6.28	6.72	7.29			8.11	7.61	6.83
H1 lead leg	L	strides	22	15	15	15	15	15	16	16	16	16	17	19.7	181.7				
Wilson, Nickiesha (JAM) (1984)	time	6.37	10.40	14.54	18.92	23.53	28.25	33.07	38.04	43.28	48.78		54.89	3 / 3					
reaction time	0.247	interval	4.03	4.14	4.38	4.61	4.72	4.82	4.97	5.24	5.50	6.11					12.55	14.15	15.71
		velocity	7.06	8.68	8.45	7.99	7.59	7.42	7.26	7.04	6.68	6.36	6.55	7.29			8.37	7.42	6.68
H1 lead leg	L	strides	23	15	15	15	16	16	16	16	16	17	20	185					
Hejnová, Zuzana (CZE) (1988)	time	6.60	10.90	15.24	19.66	24.21	28.89	33.70	38.72	43.84	49.08		54.99	4 / 4					
reaction time	0.149	interval	4.30	4.34	4.42	4.55	4.68	4.81	5.02	5.12	5.24	5.91					13.06	14.04	15.38
		velocity	6.82	8.14	8.06	7.92	7.69	7.48	7.28	6.97	6.84	6.68	6.77	7.27			8.04	7.48	6.83
H1 lead leg	R	strides	22	15	15	15	15	15	15	16	16	16	20	180					
Tilgner, Jonna (GER) (1984)	time	6.45	10.48	14.68	19.10	23.88	28.74	34.02	39.40	44.92	50.71		57.11	2 / 8					
reaction time	0.179	interval	4.03	4.20	4.42	4.78	4.86	5.28	5.38	5.52	5.79	6.40					12.65	14.92	16.69
		velocity	6.98	8.68	8.33	7.92	7.32	7.20	6.63	6.51	6.34	6.04	6.25	7.00			8.30	7.04	6.29
H1 lead leg	R	strides	24	15	15	15	16	16				17	18	21.2	157.2				

Semi-Final 2

date 18-Aug-09

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

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Spencer, Kaliessha (JAM) (1987)	time	6.45	10.47	14.65	18.88	23.29	28.03	32.85	37.73	42.81	48.27		54.37	3 / 1					
reaction time	0.180	interval	4.02	4.18	4.23	4.41	4.74	4.82	4.88	5.08	5.46	6.10					12.43	13.97	15.42
		velocity	6.98	8.71	8.37	8.27	7.94	7.38	7.26	7.17	6.89	6.41	6.56	7.36			8.45	7.52	6.81
H1 lead leg		strides																	
Rabchenyuk, Anastasiya (UKR)	time	6.51	10.69	14.97	19.39	23.89	28.66	33.59	38.57	43.57	48.73		54.49	6 / 2					
reaction time	0.188	interval	4.18	4.28	4.42	4.50	4.77	4.93	4.98	5.00	5.16	5.76					12.88	14.20	15.14
		velocity	6.91	8.37	8.18	7.92	7.78	7.34	7.10	7.03	7.00	6.78	6.94	7.34			8.15	7.39	6.94
H1 lead leg		strides																	
Williams, Tiffany (USA) (1988)	time	6.46	10.65	14.92	19.29	23.75	28.53	33.29	38.28	43.42	48.69		54.79	5 / 3					
reaction time	0.167	interval	4.19	4.27	4.37	4.46	4.78	4.76	4.99	5.14	5.27	6.10					12.83	14.00	15.40
		velocity	6.97	8.35	8.20	8.01	7.85	7.32	7.35	7.01	6.81	6.64	6.56	7.30			8.18	7.50	6.82
H1 lead leg		strides																	
Jesień, Anna (POL) (1978)	time	6.57	10.79	15.06	19.45	23.97	28.54	33.39	38.29	43.41	48.65		54.82	4 / 4					
reaction time	0.183	interval	4.22	4.27	4.39	4.52	4.57	4.85	4.90	5.12	5.24	6.17					12.88	13.94	15.26
		velocity	6.85	8.29	8.20	7.97	7.74	7.66	7.22	7.14	6.84	6.68	6.48	7.30			8.15	7.53	6.88
H1 lead leg		strides																	

Semi-Final 1

date 18-Aug-09

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

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Walker, Melaine (JAM) (1983)	time	6.35	10.43	14.60	18.89	23.30	27.94	32.66	37.42	42.25	47.42		53.26	6 / 1					
reaction time	0.183	interval	4.08	4.17	4.29	4.41	4.64	4.72	4.76	4.83	5.17	5.84					12.54	13.77	14.76
		velocity	7.09	8.58	8.39	8.16	7.94	7.54	7.42	7.35	7.25	6.77	6.85	7.51			8.37	7.63	7.11
H1 lead leg		strides																	
Lucas, Josanne (TTO) (1984)	time	6.29	10.32	14.42	18.67	23.04	27.60	32.34	37.26	42.35	47.80		53.98	3 / 2					
reaction time	0.190	interval	4.03	4.10	4.25	4.37	4.56	4.74	4.92	5.09	5.45	6.18	NR				12.38	13.67	15.46
		velocity	7.15	8.68	8.54	8.24	8.01	7.68	7.38	7.11	6.88	6.42	6.47	7.41			8.48	7.68	6.79
H1 lead leg		strides																	
Morosanu, Angela (ROU) (1984)	time	6.16	10.14	14.21	18.54	23.04	27.66	32.44	37.34	42.54	47.98		54.15	5 / 3					
reaction time	0.218	interval	3.98	4.07	4.33	4.50	4.62	4.78	4.90	5.20	5.44	6.17					12.38	13.90	15.54
		velocity	7.31	8.79	8.60	8.08	7.78	7.58	7.32	7.14	6.73	6.43	6.48	7.39			8.48	7.55	6.76

H1 lead leg strides

Heat 5

date 17-Aug-09

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

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Demus, Lashinda (USA) (1984) time	6.27	10.25	14.48	18.91	23.48		28.10	32.88	37.92	43.14	48.63		54.66	5 / 1			
reaction time	0.152	interval	3.98	4.23	4.43	4.57	4.62	4.78	5.04	5.22	5.49	6.03			12.64	13.97	15.75
H1 lead leg	velocity	7.18	8.79	8.27	7.90	7.66	7.58	7.32	6.94	6.70	6.38	6.63	7.32		8.31	7.52	6.67
H1 lead leg	strides																
Tilgner, Jonna (GER) (1984) time	6.45	10.50	14.77	19.20	23.88		28.76	33.97	39.32	44.98	50.62		56.73	4 / 5			
reaction time	0.211	interval	4.05	4.27	4.43	4.68	4.88	5.21	5.35	5.66	5.64	6.11			12.75	14.77	16.65
H1 lead leg	velocity	6.98	8.64	8.20	7.90	7.48	7.17	6.72	6.54	6.18	6.21	6.55	7.05		8.24	7.11	6.31
H1 lead leg	strides																

Heat 4

date 17-Aug-09

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

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Morosanu, Angela (ROU) (1984) time	6.21	10.32	14.62	18.87	23.25		27.96	32.83	37.75	42.80	48.35		54.70	3 / 1			
reaction time	0.187	interval	4.11	4.30	4.25	4.38	4.71	4.87	4.92	5.05	5.55	6.35			12.66	13.96	15.52
H1 lead leg	velocity	7.25	8.52	8.14	8.24	7.99	7.43	7.19	7.11	6.93	6.31	6.30	7.31		8.29	7.52	6.77
H1 lead leg	strides																
Williams, Tiffany (USA) (1984) time	6.38	10.51	14.69	18.95	23.61		28.29	33.27	38.23	43.47	48.94		55.24	7 / 2			
reaction time	0.163	interval	4.13	4.18	4.26	4.66	4.68	4.98	4.96	5.24	5.47	6.30			12.57	14.32	15.67
H1 lead leg	velocity	7.05	8.47	8.37	8.22	7.51	7.48	7.03	7.06	6.68	6.40	6.35	7.24		8.35	7.33	6.70
H1 lead leg	strides																

Heat 3

date 17-Aug-09

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

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Walker, Melaine (JAM) (1983) time	6.33	10.39	14.65	19.06	23.70		28.52	33.41	38.59	43.91	49.16		55.17	6 / 1			
reaction time	0.155	interval	4.06	4.26	4.41	4.64	4.82	4.89	5.18	5.32	5.25	6.01			12.73	14.35	15.75
H1 lead leg	velocity	7.11	8.62	8.22	7.94	7.54	7.26	7.16	6.76	6.58	6.67	6.66	7.25		8.25	7.32	6.67
H1 lead leg	strides																
Antyukh, Natalya (RUS) (1984) time	6.84	11.19	15.53	19.93	24.43		29.03	33.88	38.92	44.03	49.27		55.40	3 / 2			
reaction time	0.215	interval	4.35	4.34	4.40	4.50	4.60	4.85	5.04	5.11	5.24	6.13			13.09	13.95	15.39
H1 lead leg	velocity	6.58	8.05	8.06	7.95	7.78	7.61	7.22	6.94	6.85	6.68	6.53	7.22		8.02	7.53	6.82
H1 lead leg	strides																

Heat 2

date 17-Aug-09

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

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wilson, Nickiesha (JAM) (1984) time	6.31	10.29	14.43	18.75	23.28		28.07	32.92	37.92	43.30	48.93		55.37	2 / 1			
reaction time	0.173	interval	3.98	4.14	4.32	4.53	4.79	4.85	5.00	5.38	5.63	6.44			12.44	14.17	16.01
H1 lead leg	velocity	7.13	8.79	8.45	8.10	7.73	7.31	7.22	7.00	6.51	6.22	6.21	7.22		8.44	7.41	6.56
H1 lead leg	strides																
Jesień, Anna (POL) (1978) time	6.67	11.07	15.61	20.13	24.75		29.51	34.46	39.48	44.57	49.75		55.57	8 / 3			
reaction time	0.170	interval	4.40	4.54	4.52	4.62	4.76	4.95	5.02	5.09	5.18	5.82			13.46	14.33	15.29
H1 lead leg	velocity	6.75	7.95	7.71	7.74	7.58	7.35	7.07	6.97	6.88	6.76	6.87	7.20		7.80	7.33	6.87
H1 lead leg	strides																
Tosta, Sheena (USA) (1982) time	6.19	10.21	14.33	18.67	23.18		27.91	32.81	38.01	43.41	49.21		56.00	5 / 4			
reaction time	0.154	interval	4.02	4.12	4.34	4.51	4.73	4.90	5.20	5.40	5.80	6.79			12.48	14.14	16.40
H1 lead leg	velocity	7.27	8.71	8.50	8.06	7.76	7.40	7.14	6.73	6.48	6.03	5.89	7.14		8.41	7.43	6.40
H1 lead leg	strides																

Heat 1

date 17-Aug-09

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

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Spencer, Kaliessa (JAM) (1984) time	6.45	10.59	14.87	19.17	23.67		28.11	33.03	38.01	43.32	48.87		55.12	3 / 1			
reaction time	0.188	interval	4.14	4.28	4.30	4.50	4.44	4.92	4.98	5.31	5.55	6.25			12.72	13.86	15.84
H1 lead leg	velocity	6.98	8.45	8.18	8.14	7.78	7.88	7.11	7.03	6.59	6.31	6.40	7.26		8.25	7.58	6.63
H1 lead leg	strides																
Lucas, Josanne (TTO) (1984) time	6.40	10.46	14.62	18.89	23.35		28.04	32.98	38.27	43.63	49.23		55.41	8 / 2			
reaction time	0.173	interval	4.06	4.16	4.27	4.46	4.69	4.94	5.29	5.36	5.60	6.18			12.49	14.09	16.25
H1 lead leg	velocity	7.03	8.62	8.41	8.20	7.85	7.46	7.09	6.62	6.53	6.25	6.47	7.22		8.41	7.45	6.46
H1 lead leg	strides																
Huang Xiaoxiao (CHN) (1983) time	6.54	10.85	15.28	19.81	24.40		29.11	34.11	39.13	44.33	49.61		55.52	5 / 3			
reaction time	0.169	interval	4.31	4.43	4.53	4.59	4.71	5.00	5.02	5.20	5.28	5.91			13.27	14.30	15.50
H1 lead leg	velocity	6.88	8.12	7.90	7.73	7.63	7.43	7.00	6.97	6.73	6.63	6.77	7.20		7.91	7.34	6.77
H1 lead leg	strides																

2009 Japanese National High School Championships (Nara, JPN)**FINAL**

date 31-Jul-09

Matsuo (2009) - 62nd high school championships: JAF scientific committee - biomechanics data collection

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Miki, Shiori (JPN) (1991) time	6.87	11.64	16.43	21.40	26.51		31.82	37.19	42.56	47.83	53.09		58.96	1 / 1			
reaction time	interval	4.77	4.79	4.97	5.11		5.31	5.37	5.37	5.27	5.26	5.87			14.53	15.79	15.90
H1 lead leg	velocity	6.55	7.34	7.31	7.04	6.85	6.59	6.52	6.52	6.64	6.65	6.81	6.78		7.23	6.65	6.60

H1 lead leg	strides	17	16	16	16	17	17	17	17	17	150							
Kashima, Himari (JPN)	time	6.74	11.39	16.21	21.06	26.00	30.99	36.10	41.42	46.96	52.68	59.14	/ 2					
reaction time	interval	4.65	4.82	4.85	4.94		4.99	5.11	5.32	5.54	5.72	6.46		14.32	15.04	16.58		
	velocity	6.68	7.53	7.26	7.22	7.09	7.01	6.85	6.58	6.32	6.12	6.19	6.76	7.33	6.98	6.33		
H1 lead leg	strides	17	17	17	17		17	17	18	19	19	158						
Hatanaka, Yuki (JPN) (1991)	time	6.96	11.76	16.65	21.74	26.88	32.10	37.29	42.55	48.04	53.70	59.83	/ 3					
reaction time	interval	4.80	4.89	5.09	5.14		5.22	5.19	5.26	5.49	5.66	6.13		14.78	15.55	16.41		
	velocity	6.47	7.29	7.16	6.88	6.81	6.70	6.74	6.65	6.38	6.18	6.53	6.69	7.10	6.75	6.40		
H1 lead leg	strides	17	17	17	17		17	17	17	18	18	155						

2009 German National Championships (Ulm, GER)**Heat 3**

date 04-Jul-09

Killing (2009) - der rhythmus is entscheidend

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tilgner, Jonna (GER) (1984)	time	6.48	10.61	14.90	19.40	24.05		28.86	34.00	39.36	44.81	50.30		56.58	/ 1			
reaction time	0.237 interval		4.13	4.29	4.50	4.65		4.81	5.14	5.36	5.45	5.49	6.28			12.92	14.60	16.30
	velocity	6.94	8.47	8.16	7.78	7.53		7.28	6.81	6.53	6.42	6.38	6.37	7.07		8.13	7.19	6.44
H1 lead leg	strides		15	15	15	15		16	16	17	17	17						

Heat 2

date 04-Jul-09

Killing (2009) - der rhythmus is entscheidend

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wehrsen, Claudia (GER) (1981)	time	6.77	11.07	15.52	20.12	24.88		29.97	35.20	40.63	46.13	51.74		58.07	/ 1			
reaction time	0.230 interval		4.30	4.45	4.60	4.76		5.09	5.23	5.43	5.50	5.61	6.33			13.35	15.08	16.54
	velocity	6.65	8.14	7.87	7.61	7.35		6.88	6.69	6.45	6.36	6.24	6.32	6.89		7.87	6.96	6.35
H1 lead leg	strides		15	15	15	15		16	16	17	17	17						

Heat 1

date 04-Jul-09

Killing (2009) - der rhythmus is entscheidend

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kron, Tina (GER) (1981)	time	6.54	10.71	14.98	19.30	23.80		28.54	33.73	39.17	44.77	50.52		57.18	/ 1			
reaction time	0.187 interval		4.17	4.27	4.32	4.50		4.74	5.19	5.44	5.60	5.75	6.66			12.76	14.43	16.79
	velocity	6.88	8.39	8.20	8.10	7.78		7.38	6.74	6.43	6.25	6.09	6.01	7.00		8.23	7.28	6.25
H1 lead leg	strides		15	15	15	15		16	16	18	18	18						

2009 Japanese National Championships (Hiroshima, JPN)**FINAL**

date 27-Jun-09

Yasuhori (2012) - race pattern analysis of top Japanese 400m hurdlers at major domestic competitions 2009-11

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kubokura, Satomi (JPN) (1981)	time	6.54	10.88	15.50	20.19	25.09		29.94	34.96	40.12	45.36	50.62		56.70	4 / 1			
reaction time	interval		4.34	4.62	4.69	4.90		4.85	5.02	5.16	5.24	5.26	6.08			13.65	14.77	15.66
	velocity	6.88	8.06	7.58	7.46	7.14		7.22	6.97	6.78	6.68	6.65	6.58	7.05		7.69	7.11	6.70
H1 lead leg	strides		16	16	16	16		16	17	17	17	17	148					
Aoki, Sayaka (JPN) (1986)	time	6.64	11.16	15.81	20.60	25.42		30.43	35.45	40.62	45.84	51.18		57.56	6 / 2			
reaction time	interval		4.52	4.65	4.79	4.82		5.01	5.02	5.17	5.22	5.34	6.38			13.96	14.85	15.73
	velocity	6.78	7.74	7.53	7.31	7.26		6.99	6.97	6.77	6.70	6.55	6.27	6.95		7.52	7.07	6.68
H1 lead leg	strides		16	16	16	16		17	17	17	17	17	149					

2009 Osaka Grand Prix (Osaka, JPN)**FINAL**

date 09-May-09

Yasuhori (2012) - race pattern analysis of top Japanese 400m hurdlers at major domestic competitions 2009-11

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kubokura, Satomi (JPN) (1981)	time	6.52	10.81	15.33	19.88	24.57		29.34	34.29	39.46	44.73	50.22		56.73	/ 4			
reaction time	interval		4.29	4.52	4.55	4.69		4.77	4.95	5.17	5.27	5.49	6.51			13.36	14.41	15.93
	velocity	6.90	8.16	7.74	7.69	7.46		7.34	7.07	6.77	6.64	6.38	6.14	7.05		7.86	7.29	6.59
H1 lead leg	strides		16	16	16	16		16	17	17	17	18	149					

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

date 14-Sep-08

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

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Walker, Melaine (JAM) (1983)	time	6.61	10.67	14.81	19.20	23.73		28.39	33.07	38.03	43.00	48.19		54.06	4 / 1			
reaction time	0.279 interval		4.06	4.14	4.39	4.53		4.66	4.68	4.96	4.97	5.19	5.87			12.59	13.87	15.12
	velocity	6.81	8.62	8.45	7.97	7.73		7.51	7.48	7.06	7.04	6.74	6.81	7.40		8.34	7.57	6.94
H1 lead leg	strides																	
Rabchenyuk, Anastasiya (UKR) (1981)	time	6.62	10.87	15.26	19.74	24.41		29.27	34.15	39.09	44.12	49.33		54.92	7 / 2			
reaction time	0.219 interval		4.25	4.39	4.48	4.67		4.86	4.88	4.94	5.03	5.21	5.59			13.12	14.41	15.18
	velocity	6.80	8.24	7.97	7.81	7.49		7.20	7.17	7.09	6.96	6.72	7.16	7.28		8.00	7.29	6.92
H1 lead leg	strides																	
Williams, Tiffany (USA) (1982)	time	6.57	10.84	15.23	19.71	24.25		29.13	33.95	38.94	44.09	49.33		55.16	3 / 3			
reaction time	0.151 interval		4.27	4.39	4.48	4.54		4.88	4.82	4.99	5.15	5.24	5.83			13.14	14.24	15.38
	velocity	6.85	8.20	7.97	7.81	7.71		7.17	7.26	7.01	6.80	6.68	6.86	7.25		7.99	7.37	6.83
H1 lead leg	strides																	
Isakova, Yevgeniya (RUS) (1981)	time	6.63	10.85	15.16	19.55	24.12		28.87	33.80	38.85	44.03	49.29		55.23	2 / 4			
reaction time	0.186 interval		4.22	4.31	4.39	4.57		4.75	4.93	5.05	5.18	5.26	5.94			12.92	14.25	15.49
	velocity	6.79	8.29	8.12	7.97	7.66		7.37	7.10	6.93	6.76	6.65	6.73	7.24		8.13	7.37	6.78
H1 lead leg	strides																	

Tosta, Sheena (USA) (1982)	time	6.40	10.55	14.83	19.27	23.93	28.73	33.57	38.51	43.79	49.20	55.33	5 / 5			
	reaction time	0.153	interval	4.15	4.28	4.44	4.66	4.80	4.84	4.94	5.28	5.41	6.13	12.87	14.30	15.63
	velocity	7.03	8.43	8.18	7.88	7.51	7.29	7.23	7.09	6.63	6.47	6.53	7.23	8.16	7.34	6.72
	H1 lead leg		strides													
Jesień, Anna (POL) (1978)	time	6.61	10.75	15.04	19.38	23.87	28.65	33.52	38.61	43.87	49.32	55.44	1 / 6			
	reaction time	0.151	interval	4.14	4.29	4.34	4.49	4.78	4.87	5.09	5.26	5.45	6.12	12.77	14.14	15.80
	velocity	6.81	8.45	8.16	8.06	7.80	7.32	7.19	6.88	6.65	6.42	6.54	7.22	8.22	7.43	6.65
	H1 lead leg		strides													
Spence, Christine (USA) (1991)	0.208	no information available										58.15	8 / 7			
Danvers, Tasha (GBR) (1977)	0.174	no information available										58.40	6 / 8			

2008 Olympic Games (Beijing, CHN)

FINAL

date 20-Aug-08

Behm (2008) - Pekin 2008: Le quadrache masculin - féminin

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Walker, Melaine (JAM) (1983)	time	6.4	10.4	14.5	18.8	23.3	27.8	32.2	36.9	41.6	46.7		52.64	6 / 1				
	reaction time	0.236	interval	4.0	4.1	4.3	4.5	4.5	4.4	4.7	4.7	5.1	5.94	OR / AR		12.40	13.40	14.50
	velocity	7.03	8.75	8.54	8.14	7.78	7.78	7.95	7.45	7.45	6.86	6.73	7.60	8.47	7.84	7.24		
	H1 lead leg	R	strides	23	15	15	15	16	16	16	17	17	20.7	185.7				
Tosta, Sheena (USA) (1982)	time	6.2	10.2	14.2	18.4	22.9	27.4	32.0	36.8	41.8	47.1		53.70	5 / 2				
	reaction time	0.191	interval	4.0	4.0	4.2	4.5	4.5	4.6	4.8	5.0	5.3	6.60	12.20	13.60	15.10		
	velocity	7.26	8.75	8.75	8.33	7.78	7.78	7.61	7.29	7.00	6.60	6.06	7.45	8.61	7.72	6.95		
	H1 lead leg	L	strides	23	15	15	15	15	15	16	16	16	20	181				
Danvers-Smith, Tasha (GBR) (1977)	time	6.4	10.6	14.8	19.1	23.6	28.1	32.6	37.4	42.3	47.6		53.84	7 / 3				
	reaction time	0.189	interval	4.2	4.2	4.3	4.5	4.5	4.5	4.8	4.9	5.3	6.24	PB		12.70	13.50	15.00
	velocity	7.03	8.33	8.33	8.14	7.78	7.78	7.78	7.29	7.14	6.60	6.41	7.43	8.27	7.78	7.00		
	H1 lead leg	R	strides	22	15	15	15	15	15	16	17	17	21	183				
Rabchenyuk, Anastasiya (UKR) (1984)	time	6.3	10.5	14.6	19.0	23.6	28.1	33.0	37.9	43.0	48.2		53.96	4 / 4				
	reaction time	0.248	interval	4.2	4.1	4.4	4.6	4.5	4.9	4.9	5.1	5.2	5.76	PB		12.70	14.00	15.20
	velocity	7.14	8.33	8.54	7.95	7.61	7.78	7.14	7.14	6.86	6.73	6.94	7.41	8.27	7.50	6.91		
	H1 lead leg	R	strides	23	15	15	15	16	16	16	17	17	20	185				
Jesien, Anna (POL) (1978)	time	6.3	10.5	14.9	19.3	23.8	28.4	33.1	37.9	43.1	48.5		54.29	9 / 5				
	reaction time	0.206	interval	4.2	4.4	4.4	4.5	4.6	4.7	4.8	5.2	5.4	5.79	13.00	13.80	15.40		
	velocity	7.14	8.33	7.95	7.95	7.78	7.61	7.45	7.29	6.73	6.48	6.91	7.37	8.08	7.61	6.82		
	H1 lead leg	L	strides	23	15	15	15	15	16	16	16	16	162					
Bikert, Yekaterina (RUS) (1984)	time	6.4	10.7	15.0	19.3	23.8	28.4	33.2	38.2	43.5	48.9		54.96	2 / 6				
	reaction time	0.193	interval	4.3	4.3	4.3	4.5	4.6	4.8	5.0	5.3	5.4	6.06	12.90	13.90	15.70		
	velocity	7.03	8.14	8.14	8.14	7.78	7.61	7.29	7.00	6.60	6.48	6.60	7.28	8.14	7.55	6.69		
	H1 lead leg	R	strides	21	14	14	14	15	15	15	15	15	152					
Hejnová, Zuzana (CZE) (1981)	time	6.4	10.4	14.5	19.3	23.8	28.3	33.2	38.3	43.5	48.8		54.97	3 / 7				
	reaction time	0.195	interval	4.0	4.1	4.8	4.5	4.5	4.9	5.1	5.2	5.3	6.17	12.90	13.90	15.60		
	velocity	7.03	8.75	8.54	7.29	7.78	7.78	7.14	6.86	6.73	6.60	6.48	7.28	8.14	7.55	6.73		
	H1 lead leg	R	strides	22	15	15	15	16	16	16	17	17	164					
Williams, Tiffany (USA) (1981)	time	6.3	10.4	14.7	19.0	23.7	28.3	33.1	38.3	43.7	49.3		57.55	8 / 8				
	reaction time	0.236	interval	4.1	4.3	4.3	4.7	4.6	4.8	5.2	5.4	5.6	8.25	12.70	14.10	16.20		
	velocity	7.14	8.54	8.14	8.14	7.45	7.61	7.29	6.73	6.48	6.25	4.85	6.95	8.27	7.45	6.48		
	H1 lead leg	L	strides	22	15	15	16	16	16	17	18		150					

2008 Japanese National High School Championships (Kumagaya, JPN)

FINAL

date 31-Jul-08

Abe (2008) - 61st high school championships: JAF scientific committee - biomechanics data collection

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Miki, Shiori (JPN) (1991)	time	7.01	11.73	16.62	21.47	26.46	31.68	36.95	42.24	47.55	52.79		58.79	/ 1				
	reaction time		interval	4.72	4.89	4.85	4.99	5.22	5.27	5.29	5.31	5.24	6.00	14.46	15.48	15.84		
	velocity	6.42	7.42	7.16	7.22	7.01	6.70	6.64	6.62	6.59	6.68	6.67	6.80	7.26	6.78	6.63		
	H1 lead leg		strides	16	16	16	16	17	17	17	17	17	149					
Shibata, Haruka (JPN) (1991)	time	7.09	11.83	16.68	21.60	26.63	31.72	36.97	42.24	47.53	52.89		58.83	/ 2				
	reaction time		interval	4.74	4.85	4.92	5.03	5.09	5.25	5.27	5.29	5.36	5.94	14.51	15.37	15.92		
	velocity	6.35	7.38	7.22	7.11	6.96	6.88	6.67	6.64	6.62	6.53	6.73	6.80	7.24	6.83	6.60		
	H1 lead leg		strides	17	17	17	17	17	17	17	17	17	153					
Yoneda, Tomomi (JPN) (1991)	time	7.06	11.75	16.58	21.45	26.48	31.58	36.94	42.39	47.95	53.59		59.95	/ 3				
	reaction time		interval	4.69	4.83	4.87	5.03	5.10	5.36	5.45	5.56	5.64	6.36	14.39	15.49	16.65		
	velocity	6.37	7.46	7.25	7.19	6.96	6.86	6.53	6.42	6.29	6.21	6.29	6.67	7.30	6.78	6.31		
	H1 lead leg		strides	17	17	17	17	17	17	17	18	18	155					

2008 USA Olympic Trials (Eugene, OR)

FINAL

date 29-Jun-08

USATF Hurdle Development (2008)

H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Williams, Tiffany (USA) (1987)	time	6.52	10.68	14.96	19.14	23.42	28.04	32.72	37.68	42.71	47.96	54.03	5 / 1			
reaction time	interval		4.16	4.28	4.18	4.28	4.62	4.68	4.96	5.03	5.25	6.07		12.62	13.58	15.24
	velocity	6.90	8.41	8.18	8.37	8.18	7.58	7.48	7.06	6.96	6.67	6.59	7.40	8.32	7.73	6.89
H1 lead leg	L strides	24	15	15	15	15	16	16	17	17	17	167				
Harrison, Queen (USA) (1987)	time	6.57	10.88	15.21	19.45	23.83	28.43	33.28	38.42	43.51	48.68	54.60	8 / 2			
reaction time	interval		4.31	4.33	4.24	4.38	4.60	4.85	5.14	5.09	5.17	5.92		12.88	13.83	15.40
	velocity	6.85	8.12	8.08	8.25	7.99	7.61	7.22	6.81	6.88	6.77	6.76	7.33	8.15	7.59	6.82
H1 lead leg	L strides	24	15	15	15	15	15	15	16	16	17	163				
Tosta, Sheena (USA) (1982)	time	6.31	10.46	14.83	19.25	23.84	28.55	33.32	38.41	43.58	48.82	54.62	4 / 3			
reaction time	interval		4.15	4.37	4.42	4.59	4.71	4.77	5.09	5.17	5.24	5.80		12.94	14.07	15.50
	velocity	7.13	8.43	8.01	7.92	7.63	7.43	7.34	6.88	6.77	6.68	6.90	7.32	8.11	7.46	6.77
H1 lead leg	L strides	23	15	15	15	15	15	15	16	16	16	161				
Demus, Lashinda (USA) (1987)	time	6.34	10.40	14.65	18.92	23.34	27.89	32.62	37.45	42.84	48.32	54.76	6 / 4			
reaction time	interval		4.06	4.25	4.27	4.42	4.55	4.73	4.83	5.39	5.48	6.44		12.58	13.70	15.70
	velocity	7.10	8.62	8.24	8.20	7.92	7.69	7.40	7.25	6.49	6.39	6.21	7.30	8.35	7.66	6.69
H1 lead leg	R strides	23	15	15	15	15	15	15	16	16	17	162				
Spence, Christine (USA) (1987)	time	6.51	10.71	15.08	19.45	23.92	28.51	33.42	38.42	43.82	49.27	55.74	3 / 5			
reaction time	interval		4.20	4.37	4.37	4.47	4.59	4.91	5.00	5.40	5.45	6.47		12.94	13.97	15.85
	velocity	6.91	8.33	8.01	8.01	7.83	7.63	7.13	7.00	6.48	6.42	6.18	7.18	8.11	7.52	6.62
H1 lead leg	L strides	23	15	15	15	15	16	16	16	17	17	165				
Wallace, Latosha (USA) (1987)	time	6.46	10.71	15.13	19.67	24.17	28.99	34.02	39.22	44.46	49.77	55.85	2 / 6			
reaction time	interval		4.25	4.42	4.54	4.50	4.82	5.03	5.20	5.24	5.31	6.08		13.21	14.35	15.75
	velocity	6.97	8.24	7.92	7.71	7.78	7.26	6.96	6.73	6.68	6.59	6.58	7.16	7.95	7.32	6.67
H1 lead leg	R strides	24	15	16	16	15	16	16	17	17	17	169				
Perkins, Angel (USA) (1984)	time	6.44	10.59	14.99	19.49	24.02	28.95	34.07	39.31	44.54	49.83	56.23	1 / 7			
reaction time	interval		4.15	4.40	4.50	4.53	4.93	5.12	5.24	5.23	5.29	6.40		13.05	14.58	15.76
	velocity	6.99	8.43	7.95	7.78	7.73	7.10	6.84	6.68	6.69	6.62	6.25	7.11	8.05	7.20	6.66
H1 lead leg	L strides	24	16	16	16	15	17	17	17	17	17	172				
Barnes, Miriam (USA) (1983)	time	6.80	10.94	15.23	19.47	23.83	28.30	33.30	38.21	43.28	fell on H9	60.18	7 / 8			
reaction time	interval		4.14	4.29	4.24	4.36	4.47	5.00	4.91	5.07				12.67	13.83	
	velocity	6.62	8.45	8.16	8.25	8.03	7.83	7.00	7.13	6.90		6.65		8.29	7.59	
H1 lead leg	R strides	23	15	15	15	15	15	16	16	17	17	164				

2008 Japanese National Championships (Kawasaki, JPN)**FINAL**

date 27-Jun-08

Yasunori (2009) - race pattern analysis of prestigious Japanese 400m hurdlers

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kubokura, Satomi (JPN) (1987)	time	6.56	10.76	15.15	19.64	24.24	28.98	33.85	38.94	44.18	49.69			56.21	/ 1			
reaction time	interval		4.20	4.39	4.49	4.60	4.74	4.87	5.09	5.24	5.51	6.52				13.08	14.21	15.84
	velocity	6.86	8.33	7.97	7.80	7.61	7.38	7.19	6.88	6.68	6.35	6.13	7.12			8.03	7.39	6.63
H1 lead leg	strides		16	16	16	16	16	17	17	17	17	17	148					
Aoki, Sayaka (JPN) (1986)	time	6.47	10.79	15.29	19.83	24.42	29.29	34.30	39.37	44.64	50.18			56.93	/ 2			
reaction time	interval		4.32	4.50	4.54	4.59	4.87	5.01	5.07	5.27	5.54	6.75				13.36	14.47	15.88
	velocity	6.96	8.10	7.78	7.71	7.63	7.19	6.99	6.90	6.64	6.32	5.93	7.03			7.86	7.26	6.61
H1 lead leg	strides		16	16	16	16	17	17	17	17	17	17	149					

2008 Osaka Grand Prix (Osaka, JPN)**FINAL**

date 10-May-08

Yasunori (2009) - race pattern analysis of prestigious Japanese 400m hurdlers

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kubokura, Satomi (JPN) (1987)	time	6.77	11.23	15.70	20.43	25.18	30.08	35.20	40.41	45.82	51.49			57.84	8 / 4			
reaction time	interval		4.46	4.47	4.73	4.75	4.90	5.12	5.21	5.41	5.67	6.35				13.66	14.77	16.29
	velocity	6.65	7.85	7.83	7.40	7.37	7.14	6.84	6.72	6.47	6.17	6.30	6.92			7.69	7.11	6.45
H1 lead leg	strides		16	16	16	16	17	17	17	18	18	151						

2008 Shizuoka International Athletics Meeting (Fukuroi, JPN)**Race 2**

date 03-May-08

Yasunori (2009) - race pattern analysis of prestigious Japanese 400m hurdlers

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Kubokura, Satomi (JPN) (1987)	time	6.61	10.96	15.40	19.92	24.61	29.43	34.40	39.52	44.93	50.50			56.83	/ 1			
reaction time	interval		4.35	4.44	4.52	4.69	4.82	4.97	5.12	5.41	5.57	6.33				13.31	14.48	16.10
	velocity	6.81	8.05	7.88	7.74	7.46	7.26	7.04	6.84	6.47	6.28	6.32	7.04			7.89	7.25	6.52
H1 lead leg	strides		16	16	16	16	17	17	17	18	18	151						
Aoki, Sayaka (JPN) (1982)	time	6.63	11.10	15.62	20.16	24.91	29.86	34.90	40.14	45.46	50.93			57.33	/ 2			
reaction time	interval		4.47	4.52	4.54	4.75	4.95	5.04	5.24	5.32	5.47	6.40				13.53	14.74	16.03
	velocity	6.79	7.83	7.74	7.71	7.37	7.07	6.94	6.68	6.58	6.40	6.25	6.98			7.76	7.12	6.55
H1 lead leg	strides		16	16	16	16	17	17	17	17	17	17	149					

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

date 23-Sep-07

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

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
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Jesień, Anna (POL) (1978)	time	6.74	11.00	15.36	19.82	24.31	28.87	33.56	38.47	43.41	48.50	54.17	6 / 1			
	reaction time	0.290	interval	4.26	4.36	4.46	4.56	4.69	4.91	4.94	5.09	5.67		13.08	13.74	14.94
	velocity	6.68	8.22	8.03	7.85	7.80	7.68	7.46	7.13	7.09	6.88	7.05	7.38	8.03	7.64	7.03
	H1 lead leg		strides													
Rawlinson, Jana (AUS) (1983)	time	6.69	10.79	14.93	19.15	23.54	28.08	32.85	37.70	42.84	48.22	54.19	4 / 2			
	reaction time	0.271	interval	4.10	4.14	4.22	4.54	4.77	4.85	5.14	5.38	5.97		12.46	13.70	15.37
	velocity	6.73	8.54	8.45	8.29	7.97	7.71	7.34	7.22	6.81	6.51	6.70	7.38	8.43	7.66	6.83
	H1 lead leg		strides													
Walker, Melaine (JAM) (1983)	time	6.75	10.96	15.25	19.64	24.14	28.68	33.36	38.28	43.25	48.50	54.31	8 / 3			
	reaction time	0.261	interval	4.21	4.29	4.39	4.54	4.68	4.92	4.97	5.25	5.81		12.89	13.72	15.14
	velocity	6.67	8.31	8.16	7.97	7.78	7.71	7.48	7.11	7.04	6.67	6.88	7.37	8.15	7.65	6.94
	H1 lead leg		strides													
Isakova, Yevgeniya (RUS) (1981)	time	6.59	10.78	15.13	19.55	24.07	28.81	33.69	38.81	43.99	49.16	54.99	2 / 4			
	reaction time	0.187	interval	4.19	4.35	4.42	4.74	4.88	5.12	5.18	5.17	5.83		12.96	14.14	15.47
	velocity	6.83	8.35	8.05	7.92	7.74	7.38	7.17	6.84	6.76	6.77	6.86	7.27	8.10	7.43	6.79
	H1 lead leg		strides													
Williams, Tiffany (USA) (1988)	time	6.57	10.82	15.10	19.44	23.92	28.52	33.44	38.34	43.51	48.84	55.01	5 / 5			
	reaction time	0.273	interval	4.25	4.28	4.34	4.60	4.92	4.90	5.17	5.33	6.17		12.87	14.00	15.40
	velocity	6.85	8.24	8.18	8.06	7.81	7.61	7.11	7.14	6.77	6.57	6.48	7.27	8.16	7.50	6.82
	H1 lead leg		strides													
Ivanova, Natalya (RUS) (1981)	time	6.71	11.13	15.58	20.09	24.78	29.56	34.49	39.53	44.68	49.87	55.60	1 / 6			
	reaction time	0.165	interval	4.42	4.45	4.51	4.78	4.93	5.04	5.15	5.19	5.73		13.38	14.40	15.38
	velocity	6.71	7.92	7.87	7.76	7.46	7.32	7.10	6.94	6.80	6.74	6.98	7.19	7.85	7.29	6.83
	H1 lead leg		strides													
Danvers-Smith, Tasha (GBR)	time	6.45	10.59	14.87	19.29	23.79	28.49	33.33	38.41	43.80	49.35	55.76	3 / 7			
	reaction time	0.158	interval	4.14	4.28	4.42	4.70	4.84	5.08	5.39	5.55	6.41		12.84	14.04	16.02
	velocity	6.98	8.45	8.18	7.92	7.78	7.45	7.23	6.89	6.49	6.31	6.24	7.17	8.18	7.48	6.55
	H1 lead leg		strides													
Glover, Sandra (USA) (1968)	time	6.88	11.34	15.84	20.50	25.14	29.88	34.68	39.65	44.70	49.85	55.82	7 / 8			
	reaction time	0.332	interval	4.46	4.50	4.66	4.74	4.80	4.97	5.05	5.15	5.97		13.62	14.18	15.17
	velocity	6.54	7.85	7.78	7.51	7.54	7.38	7.29	7.04	6.93	6.80	6.70	7.17	7.71	7.40	6.92
	H1 lead leg		strides													

2007 IAAF World Championships (Osaka, JPN)

Yasunori (2008) - race pattern analysis of the world and Japanese top 400m hurdlers

FINAL

date 30-Aug-07

Ae (2008) - IAAF biomechanics team - a booklet of biomechanics data

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Rawlinson, Jana (AUS) (1983)	time	6.47	10.48	14.55	18.68	22.93		27.38	31.92	36.65	41.71	47.05		53.31	5 / 1			
	reaction time	0.153	interval	4.01	4.07	4.13		4.45	4.54	4.73	5.06	5.34	6.26			12.21	13.24	15.13
	velocity	6.96	8.73	8.60	8.47	8.24		7.87	7.71	7.40	6.92	6.55	6.39	7.50		8.60	7.93	6.94
	H1 lead leg	R	strides	23	15	14	14	15	15	15	16	17	20	178				
Pechenkina, Yuliya (RUS) (1981)	time	6.40	10.47	14.60	18.83	23.20		27.60	32.12	36.93	42.00	47.22		53.50	6 / 2			
	reaction time	0.148	interval	4.07	4.13	4.23		4.40	4.52	4.81	5.07	5.22	6.28			12.43	13.29	15.10
	velocity	7.03	8.60	8.47	8.27	8.01		7.95	7.74	7.28	6.90	6.70	6.37	7.48		8.45	7.90	6.95
	H1 lead leg	L	strides	22	15	15	15	15	15	17	17	17	20	183				
Jesień, Anna (POL) (1978)	time	6.48	10.63	14.95	19.29	23.70		28.23	32.90	37.80	42.75	47.98		53.92	7 / 3			
	reaction time	0.176	interval	4.15	4.32	4.34		4.53	4.67	4.90	4.95	5.23	5.94			12.81	13.61	15.08
	velocity	6.94	8.43	8.10	8.06	7.94		7.73	7.49	7.14	7.07	6.69	6.73	7.42		8.20	7.71	6.96
	H1 lead leg	L	strides	22	15	15	15	15	15	16	16	16	20.5	180.5				
Wilson, Nickiesha (JAM) (1991)	time	6.36	10.43	14.67	18.97	23.41		27.96	32.73	37.65	42.72	48.04		54.10	4 / 4			
	reaction time	0.193	interval	4.07	4.24	4.30		4.55	4.77	4.92	5.07	5.32	6.06			12.61	13.76	15.31
	velocity	7.08	8.60	8.25	8.14	7.88		7.69	7.34	7.11	6.90	6.58	6.60	7.39		8.33	7.63	6.86
	H1 lead leg	L	strides	23	15	15	15	15	15	16	16	17	20	182				
Huang Xiaoxiao (CHN) (1983)	time	6.36	10.46	14.66	18.93	23.35		27.97	32.86	37.78	42.89	48.18		54.15	8 / 5			
	reaction time	0.189	interval	4.10	4.20	4.27		4.62	4.89	4.92	5.11	5.29	5.97			12.57	13.93	15.32
	velocity	7.08	8.54	8.33	8.20	7.92		7.58	7.16	7.11	6.85	6.62	6.70	7.39		8.35	7.54	6.85
	H1 lead leg	L	strides	23	15	15	15	15	16	16	17	17	20.5	184.5				
Isakova, Yevgeniya (RUS) (1981)	time	6.46	10.56	14.73	19.03	23.42		28.09	32.91	38.02	43.28	48.57		54.50	3 / 6			
	reaction time	0.164	interval	4.10	4.17	4.30		4.67	4.82	5.11	5.26	5.29	5.93			12.57	13.88	15.66
	velocity	6.97	8.54	8.39	8.14	7.97		7.49	7.26	6.85	6.65	6.62	6.75	7.34		8.35	7.56	6.70
	H1 lead leg	L	strides	23	15	15	15	16	16	17	17	17	20.5	186.5				
Williams, Tiffany (USA) (1988)	time	6.32	10.31	14.38	18.52	23.06		27.55	32.32	37.22	42.33	47.90		54.63	9 / 7			
	reaction time	0.171	interval	3.99	4.07	4.14		4.49	4.77	4.90	5.11	5.57	6.73			12.20	13.80	15.58
	velocity	7.12	8.77	8.60	8.45	7.71		7.80	7.34	7.14	6.85	6.28	5.94	7.32		8.61	7.61	6.74
	H1 lead leg	L	strides	24	15	15	16	16	17	17	17	17	21.5	190.5				

Danvers-Smith, Tasha (GBR) time	6.35	10.37	14.62	18.91	23.31		27.85	32.55	37.62	42.81	48.33		54.94	2 / 8		Yasunori (2008)
reaction time	0.155	interval	4.02	4.25	4.29	4.40	4.54	4.70	5.07	5.19	5.52	6.61				12.56 13.64 15.78
		velocity	7.09	8.71	8.24	8.16	7.95	7.71	7.45	6.90	6.74	6.34	6.05	7.28		8.36 7.70 6.65
H1 lead leg	R	strides	22	15	15	15	15	15	15	17	17	17	21	184		

Semi-Final 3

date 28-Aug-07

Shaver (2008) - hurdle training

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Wilson, Nickiesha (JAM) (19) time	6.40	10.47	14.74	19.11	23.52		28.12	32.96	37.84	42.81	48.04		53.97	7 / 2			
reaction time	0.284	interval	4.07	4.27	4.37	4.41	4.60	4.84	4.88	4.97	5.23	5.93	PB		12.71	13.85	15.08
		velocity	7.03	8.60	8.20	8.01	7.94	7.61	7.23	7.17	7.04	6.69	7.41		8.26	7.58	6.96
H1 lead leg	L	strides	23	15	15	15	15	15	16	16	17	17	20.2	184.2			

Heat 1

date 27-Aug-07

Yasunori (2008) - race pattern analysis of the world and Japanese top 400m hurdlers

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Kubokura, Satomi (JPN) (19) time	6.57	10.90	15.44	20.06	24.83		29.77	34.86	40.00	45.26	50.77		57.01	2 / 6				
reaction time	0.202	interval	4.33	4.54	4.62	4.77	4.94	5.09	5.14	5.26	5.51	6.24			13.49	14.80	15.91	
		velocity	6.85	8.08	7.71	7.58	7.34	7.09	6.88	6.81	6.65	6.35	6.41	7.02		7.78	7.09	6.60
H1 lead leg		strides	16	16	16	16	16	18	17	17	18	18	150					

2007 Japanese National Championships (Osaka, JPN)**FINAL**

date 01-Jul-07

Yasunori (2008) - race pattern analysis of the world and Japanese top 400m hurdlers

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Kubokura, Satomi (JPN) (19) time	6.56	10.99	15.43	20.00	24.64		29.40	34.28	39.31	44.48	49.93		56.09	1 / 1				
reaction time		interval	4.43	4.44	4.57	4.64	4.76	4.88	5.03	5.17	5.45	6.16			13.44	14.28	15.65	
		velocity	6.86	7.90	7.88	7.66	7.54	7.35	7.17	6.96	6.77	6.42	6.49	7.13		7.81	7.35	6.71
H1 lead leg		strides	16	16	16	16	17	17	17	17	18	18	150					

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

date 23-Jun-07

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

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Pechenkina, Yuliya (RUS) (1) time	6.63	10.79	15.04	19.31	23.67		28.13	32.75	37.61	42.63	47.81		54.04	1 / 1				
reaction time	0.134	interval	4.16	4.25	4.27	4.36	4.46	4.62	4.86	5.02	5.18	6.23			12.68	13.44	15.06	
		velocity	6.79	8.41	8.24	8.20	8.03	7.85	7.58	7.20	6.97	6.76	6.42	7.40		8.28	7.81	6.97
H1 lead leg		strides																
Jesień, Anna (POL) (1978) time	6.55	10.86	15.18	19.70	24.17		28.75	33.59	38.52	43.59	48.90		54.88	1 / 2				
reaction time	0.207	interval	4.31	4.32	4.52	4.47	4.58	4.84	4.93	5.07	5.31	5.98			13.15	13.89	15.31	
		velocity	6.87	8.12	8.10	7.74	7.83	7.64	7.23	7.10	6.90	6.69	6.69	7.29		7.98	7.56	6.86
H1 lead leg		strides																
Urbansky, Ulrike (GER) (197) time	6.63	10.94	15.33	19.93	24.46		29.21	34.07	39.07	44.13	49.54		55.74	1 / 3				
reaction time	0.142	interval	4.31	4.39	4.60	4.53	4.75	4.86	5.00	5.06	5.41	6.20			13.30	14.14	15.47	
		velocity	6.79	8.12	7.97	7.61	7.73	7.37	7.20	7.00	6.92	6.47	6.45	7.18		7.89	7.43	6.79
H1 lead leg		strides																
Jémaa, Dora (FRA) (1985) time	6.92	11.32	15.91	20.64	25.23		29.91	34.79	39.87	45.03	50.33		56.27	1 / 4				
reaction time	0.308	interval	4.40	4.59	4.73	4.59	4.68	4.88	5.08	5.16	5.30	5.94	PB		13.72	14.15	15.54	
		velocity	6.50	7.95	7.63	7.40	7.63	7.48	7.17	6.89	6.78	6.60	6.73	7.11		7.65	7.42	6.76
H1 lead leg		strides																
Hantzi-Neag, Hristina (GRE) time	6.63	10.90	15.25	19.89	24.59		29.41	34.41	39.57	44.88	50.21		56.44	1 / 5				
reaction time	0.184	interval	4.27	4.35	4.64	4.70	4.82	5.00	5.16	5.31	5.33	6.23			13.26	14.52	15.80	
		velocity	6.79	8.20	8.05	7.54	7.45	7.26	7.00	6.78	6.59	6.57	6.42	7.09		7.92	7.23	6.65
H1 lead leg		strides																
Forcadell, Laia (ESP) (1982) time	6.93	11.29	15.74	20.42	25.22		30.22	35.42	40.61	45.87	51.21		57.05	1 / 6				
reaction time	0.258	interval	4.36	4.45	4.68	4.80	5.00	5.20	5.19	5.26	5.34	5.84	PB		13.49	15.00	15.79	
		velocity	6.49	8.03	7.87	7.48	7.29	7.00	6.73	6.74	6.65	6.55	6.85	7.01		7.78	7.00	6.65
H1 lead leg		strides																
Viadzernikava, Krystsina (BLR) time	6.78	11.37	15.95	20.71	25.57		30.54	35.90	41.35		52.77		58.99	1 / 7				
reaction time	0.250	interval	4.59	4.58	4.76	4.86	4.97	5.36	5.45		11.42	6.22			13.93	15.19	16.87	
		velocity	6.64	7.63	7.64	7.35	7.20	7.04	6.53	6.42		6.13	6.43	6.78		7.54	6.91	6.22
H1 lead leg		strides																
Oprya, Maryna (UKR) (1982) time	6.86	11.17	15.65	20.19	24.71		29.54	34.65	39.95	45.25	50.62							
reaction time	0.203	interval	4.31	4.48	4.54	4.52	4.83	5.11	5.30	5.30	5.37		DQ		13.33	14.46	15.97	
		velocity	6.56	8.12	7.81	7.71	7.74	7.25	6.85	6.60	6.60	6.52				7.88	7.26	6.57
H1 lead leg		strides																

2006 Seiko Super Grand Prix (Yokohama, JPN)**FINAL**

date 24-Sep-06

Yasunori (2007) - race pattern analysis of top Japanese 400m hurdlers

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Rabchenyuk, Anastasiya (UKR) time	6.52	10.74	15.09	19.53	24.28		29.12	34.23	39.42	44.66	49.90		55.81	1 / 1				
reaction time		interval	4.22	4.35	4.44	4.75	4.84	5.11	5.19	5.24	5.24	5.91			13.01	14.70	15.67	
		velocity	6.90	8.29	8.05	7.88	7.37	7.23	6.85	6.74	6.68	6.68	6.77	7.17		8.07	7.14	6.70
H1 lead leg		strides		15	15	15	16	16	17	17	17	17	145					

Kubokura, Satomi (JPN) (1991)	time	6.59	10.88	15.38	19.92	24.69	29.48	34.47	39.53	44.72	50.03		56.19	/ 2				
	reaction time		interval	4.29	4.50	4.54	4.77	4.79	4.99	5.06	5.19	5.31	6.16			13.33	14.55	15.56
		6.83	velocity	8.16	7.78	7.71	7.34	7.31	7.01	6.92	6.74	6.59	6.49	7.12		7.88	7.22	6.75
	H1 lead leg		strides	16	16	16	16	16	17	17	17	17		148				

2006 IAAF World Junior Championships (Beijing, CHN)

Semi-Final 1

date 16-Aug-06

Beckenham (2006) - Establishing an ideal stride pattern for a potential elite female 400m hurdler

Boden, Lauren (AUS) (1988)	time	6.42	10.75	15.22	19.72	24.44	29.34	34.40	39.34	45.18	50.97		58.05	6 / 7				
	reaction time	0.172	interval	4.33	4.47	4.50	4.72	4.90	5.06	4.94	5.84	5.79	7.08			13.30	14.68	16.57
		7.01	velocity	8.08	7.83	7.78	7.42	7.14	6.92	7.09	5.99	6.04	5.65	6.89		7.89	7.15	6.34
	H1 lead leg		strides															

Heat 1

date 15-Aug-06

Beckenham (2006) - Establishing an ideal stride pattern for a potential elite female 400m hurdler

Boden, Lauren (AUS) (1988)	time	6.66	10.95	15.40	19.95	24.54	29.29	34.31	39.67	45.23	51.10		57.95	3 / 2				
	reaction time	0.194	interval	4.29	4.45	4.55	4.59	4.75	5.02	5.36	5.56	5.87	6.85			13.29	14.36	16.79
		6.76	velocity	8.16	7.87	7.69	7.63	7.37	6.97	6.53	6.29	5.96	5.84	6.90		7.90	7.31	6.25
	H1 lead leg		strides															

2006 European Championships (Göteborg, SWE)

FINAL

date 09-Aug-06

Behm (2006) - Göteborg 2006: Le quatrache

Isakova, Yevgeniya (RUS) (1981)	time	6.5	10.6	14.7	19.1	23.5	28.0	33.0	38.0	43.0	48.2		53.93	6 / 1				
	reaction time		interval	4.1	4.1	4.4	4.4	4.5	5.0	5.0	5.2	5.73	PB			12.60	13.90	15.20
		6.92	velocity	8.54	8.54	7.95	7.95	7.78	7.00	7.00	6.73	6.98	7.42			8.33	7.55	6.91
	H1 lead leg	L	strides	21	15	15	15	16	16	17	17	17	20	184				
Halkiá, Fani (GRE) (1979)	time	6.4	10.6	14.7	19.1	23.5	28.1	32.8	37.9	42.8	48.0		54.02	4 / 2				
	reaction time		interval	4.2	4.1	4.4	4.4	4.6	4.7	5.1	4.9	5.2	6.02			12.70	13.70	15.20
		7.03	velocity	8.33	8.54	7.95	7.95	7.61	7.45	6.86	7.14	6.73	6.64	7.40		8.27	7.66	6.91
	H1 lead leg	L	strides	22	15	15	15	15	16	16	16	17	20	182				
Tereschuk-Antipova, Tetiana (UKR) (1981)	time	6.4	10.6	15.0	19.5	24.1	28.7	33.5	38.4	43.3	48.5		54.55	3 / 3				
	reaction time		interval	4.2	4.4	4.5	4.6	4.6	4.8	4.9	4.9	5.2	6.05			13.10	14.00	15.00
		7.03	velocity	8.33	7.95	7.78	7.61	7.61	7.29	7.14	7.14	6.73	6.61	7.33		8.02	7.50	7.00
	H1 lead leg	L	strides	22	15	15	15	15	16	16	16	16	20.5	181.5				
Marx, Claudia (GER) (1978)	time	6.4	10.6	14.7	19.2	23.6	28.3	33.2	38.3	43.5	48.8		54.99	5 / 4				
	reaction time		interval	4.2	4.1	4.5	4.4	4.7	4.9	5.1	5.2	5.3	6.19			12.80	14.00	15.60
		7.03	velocity	8.33	8.54	7.78	7.95	7.45	7.14	6.86	6.73	6.60	6.46	7.27		8.20	7.50	6.73
	H1 lead leg	L	strides	22	15	15	15	16	16	17	17	17	21	186				
Ivanova, Natalya (RUS) (1981)	time	6.5	11.0	15.5	20.0	24.6	29.4	34.2	39.1	44.2	49.2		55.04	2 / 5				
	reaction time		interval	4.5	4.5	4.5	4.6	4.8	4.8	4.9	5.1	5.0	5.84			13.50	14.20	15.00
		6.92	velocity	7.78	7.78	7.78	7.61	7.29	7.29	7.14	6.86	7.00	6.85	7.27		7.78	7.39	7.00
	H1 lead leg	L	strides	23	15	15	15	15	15	15	15	15	18	176				
Jesień, Anna (POL) (1978)	time	6.4	10.7	14.9	19.4	24.1	28.8	33.5	38.5	43.6	49.0		55.16	7 / 6				
	reaction time		interval	4.3	4.2	4.5	4.7	4.7	4.7	5.0	5.1	5.4	6.16			13.00	14.10	15.50
		7.03	velocity	8.14	8.33	7.78	7.45	7.45	7.45	7.00	6.86	6.48	6.49	7.25		8.08	7.45	6.77
	H1 lead leg	L	strides	23	15	15	15	15	16	16	16	17	20.5	183.5				
Danvers, Tasha (GBR) (1977)	time	6.4	10.5	14.7	19.3	23.9	28.7	33.6	38.6	43.8	49.3		55.56	1 / 7				
	reaction time		interval	4.1	4.2	4.6	4.6	4.8	4.9	5.0	5.2	5.5	6.26			12.90	14.30	15.70
		7.03	velocity	8.54	8.33	7.61	7.61	7.29	7.14	7.00	6.73	6.36	6.39	7.20		8.14	7.34	6.69
	H1 lead leg	R	strides	22	14	14	15	15	15	15	16	17	20	178				
Rabchenyuk, Anastasiya (UKR) (1981)	time	6.4	10.5	14.7	19.3	24.0	28.9	33.8	38.9	44.2	49.7		55.74	8 / 8				
	reaction time		interval	4.1	4.2	4.6	4.7	4.9	4.9	5.1	5.3	5.5	6.04			12.90	14.50	15.90
		7.03	velocity	8.54	8.33	7.61	7.45	7.14	7.14	6.86	6.60	6.36	6.62	7.18		8.14	7.24	6.60
	H1 lead leg	R	strides	22	15	15	15	16	16	17	17	17	166					

2006 Commonwealth Games (Melbourne, AUS)

Heat 5

date 22-Mar-06

Beckenham (2006) - Establishing an ideal stride pattern for a potential elite female 400m hurdler

Boden, Lauren (AUS) (1988)	time	6.76	11.12	15.72	20.32	25.08	29.88	35.00	40.36	45.88	51.38		57.77	/ 5				
	reaction time		interval	4.36	4.60	4.60	4.76	4.80	5.12	5.36	5.52	5.50	6.39			13.56	14.68	16.38
		6.66	velocity	8.03	7.61	7.61	7.35	7.29	6.84	6.53	6.34	6.36	6.26	6.92		7.74	7.15	6.41
	H1 lead leg		strides															

2006 Telstra A Series (Canberra, AUS)

FINAL

date 26-Jan-06

Beckenham (2006) - Establishing an ideal stride pattern for a potential elite female 400m hurdler

Boden, Lauren (AUS) (1988)	time	6.78	11.18	15.66	20.26	24.96	29.80	34.76	40.01	45.36	50.96		57.45	/ 3				
	reaction time		interval	4.40	4.48	4.60	4.70	4.84	4.96	5.25	5.35	5.60	6.49	PB		13.48	14.50	16.20

	velocity	6.64	7.95	7.81	7.61	7.45	7.23	7.06	6.67	6.54	6.25	6.16	6.96	7.79	7.24	6.48
H1 lead leg	strides															

2005 Chinese National Games (Nanjing, CHN)

FINAL

date 12-Oct-05

Wang (2016) - hurdle rhythm characteristic analysis and athletic training considerations

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Huang Xiaoxiao (CHN) (1983)	time	6.30	10.65	14.90	19.33	23.81		28.47	33.25	38.20	43.16	48.23		54.18	/ 1			
	reaction time		interval	4.35	4.25	4.43	4.48	4.66	4.78	4.95	4.96	5.07	5.95	PB		13.03	13.92	14.98
		velocity	7.14	8.05	8.24	7.90	7.81	7.51	7.32	7.07	7.06	6.90	6.72	7.38		8.06	7.54	7.01
H1 lead leg	strides	23	15	15	15	15		15	17	17	17	17		166				
Wang Xing (CHN) (1986)	time	6.39	10.53	14.73	19.06	23.47		28.03	32.75	37.65	42.75	48.00		54.40	/ 2			
	reaction time		interval	4.14	4.20	4.33	4.41	4.56	4.72	4.90	5.10	5.25	6.40	WJR / WYB18		12.67	13.69	15.25
		velocity	7.04	8.45	8.33	8.08	7.94	7.68	7.42	7.14	6.86	6.67	6.25	7.35		8.29	7.67	6.89
H1 lead leg	strides	23	15	15	15	15		16	16	16	17	17		165				

2005 IAAF World Championships (Helsinki, FIN)

FINAL

date 13-Aug-05

Behm (2005) - Helsinki 2005; Les haies - La revanche des lutins

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Pechenkina, Yuliya (RUS) (1981)	time	6.3	10.5	14.8	18.8	23.1		27.5	31.9	36.6	41.6	46.6		52.90	4 / 1			
	reaction time	0.144	interval	4.2	4.3	4.0	4.3	4.4	4.4	4.7	5.0	5.0	6.30			12.50	13.10	14.70
		velocity	7.14	8.33	8.14	8.75	8.14	7.95	7.95	7.45	7.00	7.00	6.35	7.56		8.40	8.02	7.14
H1 lead leg	L strides	22	15	15	15	15		15	15	17	17	17	20	183				
Demus, Lashinda (USA) (1981)	time	6.2	10.4	14.6	18.8	23.1		27.7	32.2	36.8	41.8	46.9		53.27	8 / 2			
	reaction time	0.176	interval	4.2	4.2	4.2	4.3	4.6	4.5	4.6	5.0	5.1	6.37	PB		12.60	13.40	14.70
		velocity	7.26	8.33	8.33	8.33	8.14	7.61	7.78	7.61	7.00	6.86	6.28	7.51		8.33	7.84	7.14
H1 lead leg	R strides	23	15	15	15	15		15	15	15	16	16	20	180				
Glover, Sandra (USA) (1968)	time	6.3	10.5	14.8	19.2	23.5		28.0	32.5	37.2	42.1	47.1		53.32	3 / 3			
	reaction time	0.200	interval	4.2	4.3	4.4	4.3	4.5	4.5	4.7	4.9	5.0	6.22	PB		12.90	13.30	14.60
		velocity	7.14	8.33	8.14	7.95	8.14	7.78	7.78	7.45	7.14	7.00	6.43	7.50		8.14	7.89	7.19
H1 lead leg	L strides	23	16	16	16	16		16	16	17	17	17	21	191				
Jesien, Anna (POL) (1978)	time	6.3	10.6	14.8	19.2	23.6		28.2	32.9	37.9	42.8	48.0		54.17	5 / 4			
	reaction time	0.184	interval	4.3	4.2	4.4	4.4	4.6	4.7	5.0	4.9	5.2	6.17			12.90	13.70	15.10
		velocity	7.14	8.14	8.33	7.95	7.95	7.61	7.45	7.00	7.14	6.73	6.48	7.38		8.14	7.66	6.95
H1 lead leg	L strides	23	15	15	15	15		15	15	16	16	16	16	161				
Huang Xiaoxiao (CHN) (1983)	time	6.3	10.5	14.8	19.2	23.8		28.5	33.5	38.6	43.5	48.6		54.57	6 / 5			
	reaction time	0.172	interval	4.2	4.3	4.4	4.6	4.7	5.0	5.1	4.9	5.1	5.97			12.90	14.30	15.10
		velocity	7.14	8.33	8.14	7.95	7.61	7.45	7.00	6.86	7.14	6.86	6.70	7.33		8.14	7.34	6.95
H1 lead leg	L strides	23	15	15	15	15		15	16	16	16	16	16	162				
Blackett, Andrea (BAR) (1977)	time	6.3	10.5	14.7	19.1	23.7		28.3	33.1	38.2	43.4	48.8		55.06	2 / 6			
	reaction time	0.146	interval	4.2	4.2	4.4	4.6	4.6	4.8	5.1	5.2	5.4	6.26			12.80	14.00	15.70
		velocity	7.14	8.33	8.33	7.95	7.61	7.61	7.29	6.86	6.73	6.48	6.39	7.26		8.20	7.50	6.69
H1 lead leg	L strides	23	15	15	15	15		16	16	16	16	17		164				
Tereschuk-Antipova, Tetiana (UKR) (1981)	time	6.4	10.7	15.2	19.7	24.2		28.8	33.6	38.5	43.6	48.9		55.09	7 / 7			
	reaction time	0.209	interval	4.3	4.5	4.5	4.5	4.6	4.8	4.9	5.1	5.3	6.19			13.30	13.90	15.30
		velocity	7.03	8.14	7.78	7.78	7.78	7.61	7.29	7.14	6.86	6.60	6.46	7.26		7.89	7.55	6.86
H1 lead leg	L strides	22	15	15	15	15		15	16	16	16	16		161				
Pskit, Malgorzata (POL) (1977)	time	6.3	10.7	15.2	19.7	24.2		28.8	33.4	38.5	43.6	48.9		55.58	1 / 8			
	reaction time	0.181	interval	4.4	4.5	4.5	4.5	4.6	4.6	5.1	5.1	5.3	6.68			13.40	13.70	15.50
		velocity	7.14	7.95	7.78	7.78	7.78	7.61	7.61	6.86	6.86	6.60	5.99	7.20		7.84	7.66	6.77
H1 lead leg	L strides	22	15	15	15	15		15	15	16	16	16		160				

2005 IAAF World Youth Championships (Marrakech, MAR)

Semi-Final 1

date 14-Jul-05

Beckenham (2006) - Establishing an ideal stride pattern for a potential elite female 400m hurdler

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Boden, Lauren (AUS) (1988)	time	6.68	11.19	15.70	20.39	25.23		30.21	35.42	40.86	46.27	51.81		58.19	3 / 1			
	reaction time	0.170	interval	4.51	4.51	4.69	4.84	4.98	5.21	5.44	5.41	5.54	6.38	PB		13.71	15.03	16.39
		velocity	6.74	7.76	7.76	7.46	7.23	7.03	6.72	6.43	6.47	6.32	6.27	6.87		7.66	6.99	6.41
H1 lead leg	strides																	

2005 Osaka Grand Prix (Osaka, JPN)

FINAL

date 07-May-05

Yasunori (2006) - race pattern analysis of top Japanese 400m hurdlers

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Blackett, Andrea (BAR) (1977)	time	6.42	10.59	15.06	19.63	24.35		29.17	34.16	39.47	44.96	50.23		56.15	/ 1			
	reaction time		interval	4.17	4.47	4.57	4.72	4.82	4.99	5.31	5.49	5.27	5.92			13.21	14.53	16.07
		velocity	7.01	8.39	7.83	7.66	7.42	7.26	7.01	6.59	6.38	6.64	6.76	7.12		7.95	7.23	6.53
H1 lead leg	strides		15	15	15	15		16	16	16	17	18		143				
Kubokura, Satomi (JPN) (1981)	time	6.67	11.16	15.75	20.44	25.34		30.19	35.14	40.13	45.42	50.89		57.10	/ 2			
	reaction time		interval	4.49	4.59	4.69	4.90	4.85	4.95	4.99	5.29	5.47	6.21			13.77	14.70	15.75

	velocity	6.75	7.80	7.63	7.46	7.14		7.22	7.07	7.01	6.62	6.40	6.44	7.01		7.63	7.14	6.67
H1 lead leg	strides		16	16	15	17		17	17	17	17	18		150				
Yoshida, Makiko (JPN) (1976)	time	6.76	11.18	15.77	20.51	25.43		30.44	35.46	40.53	45.74	51.18		57.29	/ 3			
reaction time	interval		4.42	4.59	4.74	4.92		5.01	5.02	5.07	5.21	5.44	6.11			13.75	14.95	15.72
	velocity	6.66	7.92	7.63	7.38	7.11		6.99	6.97	6.90	6.72	6.43	6.55	6.98		7.64	7.02	6.68
H1 lead leg	strides		16	16	16	16		17	17	17	17	18		150				

2005 Australian National Championships (Sydney, AUS)**FINAL**

date 06-Mar-05

Beckenham (2006) - Establishing an ideal stride pattern for a potential elite female 400m hurdler

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Boden, Lauren (AUS) (1988)	time	7.32	11.98	16.68	21.50	26.48		31.58	36.82	42.04	47.34	52.68		58.59	/ 1			
reaction time	interval		4.66	4.70	4.82	4.98		5.10	5.24	5.22	5.30	5.34	5.91	PB		14.18	15.32	15.86
	velocity	6.15	7.51	7.45	7.26	7.03		6.86	6.68	6.70	6.60	6.55	6.77	6.83		7.40	6.85	6.62
H1 lead leg	strides																	

2004 Seiko Super Grand Prix (Yokohama, JPN)**FINAL**

date 23-Sep-04

Yasunori (2005) - race pattern analysis of top Japanese 400m hurdlers

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Glover, Sandra (USA) (1968)	time	6.61	10.91	15.26	19.73	24.22		28.82	33.47	38.34	43.48	48.74		54.86	/ 1			
reaction time	interval		4.30	4.35	4.47	4.49		4.60	4.65	4.87	5.14	5.26	6.12			13.12	13.74	15.27
	velocity	6.81	8.14	8.05	7.83	7.80		7.61	7.53	7.19	6.81	6.65	6.54	7.29		8.00	7.64	6.88
H1 lead leg	strides		16	16	16	16		16	16	17	17	17		147				
Taylor, Brenda (USA) (1979)	time	6.38	10.60	15.04	19.53	24.10		28.79	33.63	38.69	44.10	49.56		55.90	/ 2			
reaction time	interval		4.22	4.44	4.49	4.57		4.69	4.84	5.06	5.41	5.46	6.34			13.15	14.10	15.93
	velocity	7.05	8.29	7.88	7.80	7.66		7.46	7.23	6.92	6.47	6.41	6.31	7.16		7.98	7.45	6.59
H1 lead leg	strides		15	15	15	15		15	16	16	17	17		141				
Alimzhanova, Natalya (KAZ)	time	6.62	10.82	15.17	19.64	24.26		29.13	34.12	39.39	44.80	50.26		56.53	/ 3			
reaction time	interval		4.20	4.35	4.47	4.62		4.87	4.99	5.27	5.41	5.46	6.27			13.02	14.48	16.14
	velocity	6.80	8.33	8.05	7.83	7.58		7.19	7.01	6.64	6.47	6.41	6.38	7.08		8.06	7.25	6.51
H1 lead leg	strides		15	15	15	15		16	16	16	16	16		140				
Kubokura, Satomi (JPN) (1991)	time	6.69	11.28	15.97	20.72	25.66		30.63	35.67	40.81	46.08	51.40		57.27	/ 4			
reaction time	interval		4.59	4.69	4.75	4.94		4.97	5.04	5.14	5.27	5.32	5.87	PB		14.03	14.95	15.73
	velocity	6.73	7.63	7.46	7.37	7.09		7.04	6.94	6.81	6.64	6.58	6.81	6.98		7.48	7.02	6.68
H1 lead leg	strides		16	16	17	17		17	17	17	17	17		151				
Yoshida, Makiko (JPN) (1976)	time	6.76	11.13	15.72	20.39	25.18		30.12	35.13	40.32	45.58	51.05		57.32	/ 5			
reaction time	interval		4.37	4.59	4.67	4.79		4.94	5.01	5.19	5.26	5.47	6.27			13.63	14.74	15.92
	velocity	6.66	8.01	7.63	7.49	7.31		7.09	6.99	6.74	6.65	6.40	6.38	6.98		7.70	7.12	6.60
H1 lead leg	strides		16	16	16	16		17	17	17	17	18		150				

2004 Olympic Games (Athina, GRE)**FINAL**

date 25-Aug-04

*Behm (2005) - Athènes 2004: Les Haies Basses**Ruiz (2004) - las carreras con vallas de juegos olímpicos de atenas '04*

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Halkiá, Fani (GRE) (1979)	time	6.37	10.52	14.61	18.79	23.19		27.65	32.12	36.86	41.89	46.98		52.82	4 / 1			<i>Ruiz (2004)</i>
reaction time	0.295 interval		4.15	4.09	4.18	4.40		4.46	4.47	4.74	5.03	5.09	5.84			12.42	13.33	14.86
	velocity	7.06	8.43	8.56	8.37	7.95		7.85	7.83	7.38	6.96	6.88	6.85	7.57		8.45	7.88	7.07
H1 lead leg	L strides		23	15	15	15		15	15	15	16	16	20	180				
Tirlea, Ionela (ROU) (1976)	time	6.40	10.56	14.61	18.88	23.09		27.62	32.30	37.17	42.21	47.30		53.38	3 / 2			<i>Ruiz (2004)</i>
reaction time	0.292 interval		4.16	4.05	4.27	4.21		4.53	4.68	4.87	5.04	5.09	6.08			12.48	13.42	15.00
	velocity	7.03	8.41	8.64	8.20	8.31		7.73	7.48	7.19	6.94	6.88	6.58	7.49		8.41	7.82	7.00
H1 lead leg	L strides		22	15	15	15		16	16	17	17	17	21	186				
Tereschuk-Antipova, Tetiana (UKR) (1979)	time	6.3	10.3	14.4	18.7	23.1		27.6	32.1	37.1	42.1	47.3		53.44	1 / 3			<i>Behm (2005)</i>
reaction time	0.312 interval		4.0	4.1	4.3	4.4		4.5	4.5	5.0	5.0	5.2	6.14			12.40	13.40	15.20
	velocity	7.14	8.75	8.54	8.14	7.95		7.78	7.78	7.00	7.00	6.73	6.51	7.49		8.47	7.84	6.91
H1 lead leg	L strides		22	15	15	15		15	16	16	16	16	20	181				
Johnson, Sheena (USA) (1979)	time	6.4	10.5	14.7	19.1	23.6		28.2	32.9	37.7	42.6	47.7		53.83	8 / 4			<i>Behm (2005)</i>
reaction time	0.408 interval		4.1	4.2	4.4	4.5		4.6	4.7	4.8	4.9	5.1	6.13			12.70	13.80	14.80
	velocity	7.03	8.54	8.33	7.95	7.78		7.61	7.45	7.29	7.14	6.86	6.53	7.43		8.27	7.61	7.09
H1 lead leg	L strides		23	15	15	15		15	15	15	16	16	160					
Pittman, Jana (AUS) (1982)	time	6.40	10.50	14.57	18.80	23.10		27.57	32.21	37.02	42.19	47.47		53.92	5 / 5			<i>Ruiz (2004)</i>
reaction time	0.248 interval		4.10	4.07	4.23	4.30		4.47	4.64	4.81	5.17	5.28	6.45			12.40	13.41	15.26
	velocity	7.03	8.54	8.60	8.27	8.14		7.83	7.54	7.28	6.77	6.63	6.20	7.42		8.47	7.83	6.88
H1 lead leg	L strides		22	14	14	14		14	15	15	16	16	18.5	172.5				
Bikert, Yekaterina (RUS) (1979)	time	6.6	10.7	14.9	19.4	23.9		28.6	33.3	38.3	43.3	48.5		54.18	7 / 6			<i>Behm (2005)</i>
reaction time	0.322 interval		4.1	4.2	4.5	4.5		4.7	4.7	5.0	5.0	5.2	5.68			12.80	13.90	15.20
	velocity	6.82	8.54	8.33	7.78	7.78		7.45	7.45	7.00	7.00	6.73	7.04	7.38		8.20	7.55	6.91
H1 lead leg	L strides		21	14	14	14		15	15	15	15	15	152					
Taylor, Brenda (USA) (1979)	time	6.07	10.21	14.47	18.69	23.10		27.70	32.51	37.56	42.87	48.30		54.97	2 / 7			<i>Ruiz (2004)</i>

reaction time	0.184	interval	4.14	4.26	4.22	4.41	4.60	4.81	5.05	5.31	5.43	6.67	12.62	13.82	15.79		
		velocity	7.41	8.45	8.22	8.29	7.94	7.61	7.28	6.93	6.59	6.45	6.00	7.28	8.32	7.60	6.65
H1 lead leg	L	strides	23	15	15	15	15	16	16	17	17	17	21	187			
Pechenkina, Yuliya (RUS) (1982)	time		6.4	10.5	14.7	18.9	23.3	27.9	32.5	37.7	42.9	48.5	55.79	6 / 8		<i>Behm (2005)</i>	
reaction time	0.244	interval	4.1	4.2	4.2	4.4	4.6	4.6	5.2	5.2	5.6	7.29		12.50	13.60	16.00	
		velocity	7.03	8.54	8.33	8.33	7.95	7.61	7.61	6.73	6.73	6.25	5.49	7.17	8.40	7.72	6.56
H1 lead leg	L	strides	22	15	15	15	15	15	15	17	17	17	163				

2004 USA Olympic Trials (Sacramento, CA)**FINAL**

date 11-Jul-04

Lyle - miscellaneous coaching notes

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Johnson, Sheena (USA) (1982)	time		6.11	10.20	14.40	18.69	23.21		27.72	32.50	37.24	42.16	47.03		52.95	6 / 1			
reaction time		interval		4.09	4.20	4.29	4.52		4.51	4.78	4.74	4.92	4.87	5.92	PB		12.58	13.81	14.53
		velocity	7.36	8.56	8.33	8.16	7.74		7.76	7.32	7.38	7.11	7.19	6.76	7.55		8.35	7.60	7.23
H1 lead leg	L	strides	24	15	15	15	15		15	15	15	15	15	19	178				
Taylor, Brenda (USA) (1979)			no information available											PB	53.36	5 / 2			
Demus, Lashinda (USA) (1982)	time		6.00	9.99	14.13	18.39	22.76		27.16	31.66	36.35	41.24	46.80		53.43	4 / 3			
reaction time		interval		3.99	4.14	4.26	4.37		4.40	4.50	4.69	4.89	5.56	6.63	PB		12.39	13.27	15.14
		velocity	7.50	8.77	8.45	8.22	8.01		7.95	7.78	7.46	7.16	6.29	6.03	7.49		8.47	7.91	6.94
H1 lead leg	R	strides	23	15	15	15	15		15	15	15	16	18	20	182				
Glover, Sandra (USA) (1968)			no information available												53.64	3 / 4			
McIntosh, Raasin (USA) (1982)			no information available											PB	54.16	1 / 5			
Smith, Shauna (USA) (1983)			no information available												54.42	7 / 6			
Allen, Patrina (USA) (1975)			no information available											PB	54.93	8 / 7			
Addy, Megan (USA) (1978)			no information available											DQ		2 / --			

2004 Modesto Relays (Modesto, CA)**FINAL**

date 08-May-04

Henson (2004) USATF OTC sport science

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Addy, Megan (USA) (1978)	time		6.06	10.92	15.38	19.91	24.65		29.47	34.48	39.53	44.87	50.33		56.59	1 / 1			
reaction time		interval		4.86	4.46	4.53	4.74		4.82	5.01	5.05	5.34	5.46	6.26			13.85	14.57	15.85
		velocity	7.43	7.20	7.85	7.73	7.38		7.26	6.99	6.93	6.55	6.41	6.39	7.07		7.58	7.21	6.62
H1 lead leg		strides																	

2004 UCLA (Los Angeles, CA)**FINAL**

date 10-Apr-04

Henson (2004) USATF OTC sport science

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Addy, Megan (USA) (1978)	time		7.10	11.22	15.51	19.86	24.35		28.97	33.66	38.67	43.96	49.41		56.13	1 / 2			
reaction time		interval		4.12	4.29	4.35	4.49		4.62	4.69	5.01	5.29	5.45	6.72	PB		12.76	13.80	15.75
		velocity	6.34	8.50	8.16	8.05	7.80		7.58	7.46	6.99	6.62	6.42	5.95	7.13		8.23	7.61	6.67
H1 lead leg		strides																	

2004 SDSU (San Diego, CA)**FINAL**

date 20-Mar-04

Henson (2004) USATF OTC sport science

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Taylor, Brenda (USA) (1978)	time		6.35	10.67	15.18	19.73	24.35		29.14	33.95	39.00	44.19	49.53		55.65	1 / 1			
reaction time		interval		4.32	4.51	4.55	4.62		4.79	4.81	5.05	5.19	5.34	6.12			13.38	14.22	15.58
		velocity	7.09	8.10	7.76	7.69	7.58		7.31	7.28	6.93	6.74	6.55	6.54	7.19		7.85	7.38	6.74
H1 lead leg		strides																	

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

date 28-Aug-03

Behm (2003) - Paris 2003:Le quatrache masculin - féminin

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Pittman, Jana (AUS) (1982)	time		6.3	10.3	14.6	19.0	23.4		28.0	32.6	37.4	42.3	47.4		53.22	4 / 1			
reaction time	0.179	interval		4.0	4.3	4.4	4.4		4.6	4.6	4.8	4.9	5.1	5.82	PB		12.70	13.60	14.80
		velocity	7.14	8.75	8.14	7.95	7.95		7.61	7.61	7.29	7.14	6.86	6.87	7.52		8.27	7.72	7.09
H1 lead leg	R	strides	22	13	13	13	13		15	15	15	15	16	19	169				
Glover, Sandra (USA) (1968)	time		6.3	10.3	14.6	19.1	23.6		28.1	32.8	37.5	42.5	47.5		53.65	6 / 2			
reaction time	2.060	interval		4.0	4.3	4.5	4.5		4.5	4.7	4.7	5.0	5.0	6.15			12.80	13.70	14.70
		velocity	7.14	8.75	8.14	7.78	7.78		7.78	7.45	7.45	7.00	7.00	6.50	7.46		8.20	7.66	7.14
H1 lead leg	L	strides	23	16	16	16	16		16	16	17	17	17	20	190				
Pechonkina, Yuliya (RUS) (1982)	time		6.3	10.3	14.3	18.4	22.7		27.1	31.6	36.6	41.7	47.1		53.71	5 / 3			
reaction time	0.128	interval		4.0	4.0	4.1	4.3		4.4	4.5	5.0	5.1	5.4	6.61			12.10	13.20	15.50
		velocity	7.14	8.75	8.75	8.54	8.14		7.95	7.78	7.00	6.86	6.48	6.05	7.45		8.68	7.95	6.77
H1 lead leg	L	strides	22	15	15	15	15		15	15	17	17	17	19.5	182.5				
Tirlea, Ionela (ROU) (1976)	time		6.2	10.2	14.4	18.8	23.2		27.9	32.8	37.9	43.2	48.4		54.41	3 / 4			
reaction time	0.170	interval		4.0	4.2	4.4	4.4		4.7	4.9	5.1	5.3	5.2	6.01			12.60	14.00	15.60
		velocity	7.26	8.75	8.33	7.95	7.95		7.45	7.14	6.86	6.60	6.73	6.66	7.35		8.33	7.50	6.73
H1 lead leg	L	strides	22	13	13	13	13		16	16	17	17	17	20	177				

Tereschuk-Antipova, Tetiana	time	6.4	10.6	14.8	19.2	23.6	28.3	33.0	38.0	43.2	48.5		54.61	2 / 5				
	reaction time	0.230													12.80	13.80	15.50	
	interval		4.2	4.2	4.4	4.4	4.7	4.7	5.0	5.2	5.3	6.11			8.20	7.61	6.77	
	velocity	7.03	8.33	8.33	7.95	7.95	7.45	7.45	7.00	6.73	6.60	6.55	7.32					
	H1 lead leg	L	strides	22	15	15	15	15	15	16	16	20	179					
Blackett, Andrea (BAR) (1977)	time	6.2	10.2	14.5	19.0	23.6	28.2	33.0	38.3	43.5	48.8		54.79	7 / 6				
	reaction time	0.149													12.80	14.00	15.80	
	interval		4.0	4.3	4.5	4.6	4.6	4.8	5.3	5.2	5.3	5.99			8.20	7.50	6.65	
	velocity	7.26	8.75	8.14	7.78	7.61	7.61	7.29	6.60	6.73	6.60	6.68	7.30					
	H1 lead leg	L	strides	13	13	13	13	16	16	16	16	17	19.5	152.5				
Meißner, Heike (GER) (1970)	time	6.5	10.8	15.1	19.6	24.2	28.9	33.7	38.8	44.2	49.6		55.60	1 / 7				
	reaction time	0.233													13.10	14.10	15.90	
	interval		4.3	4.3	4.5	4.6	4.7	4.8	5.1	5.4	5.4	6.00			8.02	7.45	6.60	
	velocity	6.92	8.14	8.14	7.78	7.61	7.45	7.29	6.86	6.48	6.48	6.67	7.19					
	H1 lead leg	R	strides	23	13	13	13	13	16	16	16	17	153					
Febbraio, Surita (RSA) (1973)	time	6.4	10.5	14.7	19.2	23.7	28.4	33.2	38.1	43.4	49.0		55.90	8 / 8				
	reaction time	0.168													12.80	14.00	15.80	
	interval		4.1	4.2	4.5	4.5	4.7	4.8	4.9	5.3	5.6	6.90			8.20	7.50	6.65	
	velocity	7.03	8.54	8.33	7.78	7.78	7.45	7.29	7.14	6.60	6.25	5.80	7.16					
	H1 lead leg	L	strides	23	15	15	16	16	17	17	18	18	19	21	195			

2003 Russian National Championships (Tula, RUS)

FINAL

date 08-Aug-03

Vazel (2019) - statistical analysis and historical context of the new 400H world record

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Pechonkina, Yuliya (RUS) (1977)	time	6.3	10.3	14.3	18.5	22.9	27.4	31.9	36.5	41.2	46.3		52.34	4 / 1				
	reaction time																	
	interval		4.0	4.0	4.2	4.4	4.5	4.5	4.6	4.7	5.1	6.04	WR			12.20	13.40	14.40
	velocity	7.14	8.75	8.75	8.33	7.95	7.78	7.78	7.61	7.45	6.86	6.62	7.64			8.61	7.84	7.29
	H1 lead leg	L	strides	22	15	15	15	15	15	17	17	17	20.2	183.2				

2003 USATF National Junior Championship (Palo Alto, CA)

FINAL

date 22-Jun-03

USATF Women's Sprint Development (2003)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Watkins, Tawana (USA) (1987)	time	6.59	11.08	15.80	20.42	25.31	30.44	35.62	40.97	46.23	51.90		58.38	6 / 1				
	reaction time																	
	interval		4.49	4.72	4.62	4.89	5.13	5.18	5.35	5.26	5.67	6.48				13.83	15.20	16.28
	velocity	6.83	7.80	7.42	7.58	7.16	6.82	6.76	6.54	6.65	6.17	6.17	6.85			7.59	6.91	6.45
	H1 lead leg		strides															
Hill, MacKenzie (USA) (1986)	time	6.61	10.91	15.43	20.05	25.13	30.74	36.15	41.58	46.86	52.37		58.39	7 / 2				
	reaction time																	
	interval		4.30	4.52	4.62	5.08	5.61	5.41	5.43	5.28	5.51	6.02	PB			13.44	16.10	16.22
	velocity	6.81	8.14	7.74	7.58	6.89	6.24	6.47	6.45	6.63	6.35	6.64	6.85			7.81	6.52	6.47
	H1 lead leg		strides															
Talbot, Melissa (USA) (1984)	time	6.67	11.09	15.67	20.27	25.14	30.30	35.87	41.27	46.76	52.42		58.69	5 / 3				
	reaction time																	
	interval		4.42	4.58	4.60	4.87	5.16	5.57	5.40	5.49	5.66	6.27	PB			13.60	15.60	16.55
	velocity	6.75	7.92	7.64	7.61	7.19	6.78	6.28	6.48	6.38	6.18	6.38	6.82			7.72	6.73	6.34
	H1 lead leg		strides															
Smith, Christina (USA) (1987)	time	6.42	10.76	15.24	19.90	24.93	30.28	35.84	41.22	46.73	52.27		59.01	9 / 4				
	reaction time																	
	interval		4.34	4.48	4.66	5.03	5.35	5.56	5.38	5.51	5.54	6.74	PB			13.48	15.94	16.43
	velocity	7.01	8.06	7.81	7.51	6.96	6.54	6.29	6.51	6.35	6.32	5.93	6.78			7.79	6.59	6.39
	H1 lead leg		strides															
Young, Natalie (USA)	time	6.76	11.19	15.88	20.45	25.23	30.36	35.94	41.89	47.85			60.99	2 / 5				
	reaction time																	
	interval		4.43	4.69	4.57	4.78	5.13	5.58	5.95	5.96			6.56			13.69	15.49	
	velocity	6.66	7.90	7.46	7.66	7.32	6.82	6.27	5.88	5.87						7.67	6.78	
	H1 lead leg		strides															
Gooden, Dianna (USA) (1987)	time	6.81	11.34	16.08	20.99	26.06	31.33	36.95	42.80	48.78			61.47	4 / 6				
	reaction time																	
	interval		4.53	4.74	4.91	5.07	5.27	5.62	5.85	5.98						14.18	15.96	
	velocity	6.61	7.73	7.38	7.13	6.90	6.64	6.23	5.98	5.85			6.51			7.40	6.58	
	H1 lead leg		strides															
Hill, Sierra (USA) (1986)	time	7.07	11.83	16.67	21.64	26.76	32.26	37.85	43.53	49.20			61.48	3 / 7				
	reaction time																	
	interval		4.76	4.84	4.97	5.12	5.50	5.59	5.68	5.67						14.57	16.21	
	velocity	6.36	7.35	7.23	7.04	6.84	6.36	6.26	6.16	6.17			6.51			7.21	6.48	
	H1 lead leg		strides															
Hardway, Korey (USA) (1987)	time	7.01	11.71	16.58	21.41	26.48	32.08	38.04	44.06	49.85			63.20	1 / 8				
	reaction time																	
	interval		4.70	4.87	4.83	5.07	5.60	5.96	6.02	5.79						14.40	16.63	
	velocity	6.42	7.45	7.19	7.25	6.90	6.25	5.87	5.81	6.04			6.33			7.29	6.31	
	H1 lead leg		strides															

2003 USATF National Championship (Palo Alto, CA)

FINAL

date 21-Jun-03

USATF Women's Sprint Development (2003)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
McIntosh, Raasin (USA) (1987)	time	6.47	10.76	15.10	19.52	23.89	28.53	33.28	38.16	43.21	48.58		54.62	6 / 1				
	reaction time																	
	interval		4.29	4.34	4.42	4.37	4.64	4.75	4.88	5.05	5.37	6.04				13.05	13.76	15.30
	velocity	6.96	8.16	8.06	7.92	8.01	7.54	7.37	7.17	6.93	6.52	6.62	7.32			8.05	7.63	6.86
	H1 lead leg		strides															

Hayes, Joanna (USA) (1976)	time	6.36	10.46	14.67	18.92	23.42	28.11	33.05	37.99	43.06	48.47	54.76	8 / 2			
reaction time	interval		4.10	4.21	4.25	4.50	4.69	4.94	4.94	5.07	5.41	6.29		12.56	14.13	15.42
	velocity	7.08	8.54	8.31	8.24	7.78	7.46	7.09	7.09	6.90	6.47	6.36	7.30	8.36	7.43	6.81
H1 lead leg	strides															
Glover, Sandra (USA) (1968)	time	6.36	10.58	14.82	19.22	23.62	28.32	32.85	37.57	42.68	48.20	55.12	3 / 3			
reaction time	interval		4.22	4.24	4.40	4.40	4.70	4.53	4.72	5.11	5.52	6.92		12.86	13.63	15.35
	velocity	7.08	8.29	8.25	7.95	7.95	7.45	7.73	7.42	6.85	6.34	5.78	7.26	8.16	7.70	6.84
H1 lead leg	strides															
Taylor, Brenda (USA) (1979)	time	6.34	10.43	14.70	19.07	23.61	28.20	32.82	37.82	43.06	48.67	55.60	5 / 4			
reaction time	interval		4.09	4.27	4.37	4.54	4.59	4.62	5.00	5.24	5.61	6.93		12.73	13.75	15.85
	velocity	7.10	8.56	8.20	8.01	7.71	7.63	7.58	7.00	6.68	6.24	5.77	7.19	8.25	7.64	6.62
H1 lead leg	strides															
Sallins, Melinda (USA) (1973)	time	6.52	10.74	15.12	19.49	23.94	28.58	33.53	38.54	43.81	49.50	56.24	1 / 5			
reaction time	interval		4.22	4.38	4.37	4.45	4.64	4.95	5.01	5.27	5.69	6.74		12.97	14.04	15.97
	velocity	6.90	8.29	7.99	8.01	7.87	7.54	7.07	6.99	6.64	6.15	5.93	7.11	8.10	7.48	6.57
H1 lead leg	strides															
Tolbert, Ryan (USA) (1976)	time	6.57	10.76	15.14	19.75	24.29	29.01	33.83	38.79	43.96	49.48	56.33	7 / 6			
reaction time	interval		4.19	4.38	4.61	4.54	4.72	4.82	4.96	5.17	5.52	6.85		13.18	14.08	15.65
	velocity	6.85	8.35	7.99	7.59	7.71	7.42	7.26	7.06	6.77	6.34	5.84	7.10	7.97	7.46	6.71
H1 lead leg	strides															
Smith, Shauna (USA) (1983)	time	6.82	11.18	15.62	20.24	24.95	29.83	35.04	40.39	45.85	51.40	57.69	2 / 7			
reaction time	interval		4.36	4.44	4.62	4.71	4.88	5.21	5.35	5.46	5.55	6.29		13.42	14.80	16.36
	velocity	6.60	8.03	7.88	7.58	7.43	7.17	6.72	6.54	6.41	6.31	6.36	6.93	7.82	7.09	6.42
H1 lead leg	strides															
Demus, Lashinda (USA) (1981)	time	6.34	10.51	14.75	19.09	23.49	27.98	32.77	37.75	43.28	49.38	59.05	4 / 8			
reaction time	interval		4.17	4.24	4.34	4.40	4.49	4.79	4.98	5.53	6.10	9.67		12.75	13.68	16.61
	velocity	7.10	8.39	8.25	8.06	7.95	7.80	7.31	7.03	6.33	5.74	4.14	6.77	8.24	7.68	6.32
H1 lead leg	strides															

2002 IAAF World Cup (Madrid, ESP)**FINAL**

date 20-Sep-02

Sanchez (2002) - copa del mundo de Madrid '02: análisis de la carreras con villas

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Pechonkina, Yuliya (RUS) (1979)	time	6.49	10.55	14.77	18.94	23.29		27.77	32.37	37.26	42.31	47.48		53.74	3 / 1			
reaction time	0.184 interval		4.06	4.22	4.17	4.35		4.48	4.60	4.89	5.05	5.17	6.26			12.45	13.43	15.11
	velocity	6.93	8.62	8.29	8.39	8.05		7.81	7.61	7.16	6.93	6.77	6.39	7.44		8.43	7.82	6.95
H1 lead leg	L strides	22	15	15	15	15		15	15	16	16	17	20	181				
Glover, Sandra (USA) (1968)	time	6.27	10.54	14.95	19.38	24.08		28.69	33.42	38.23	43.23	48.29		54.46	6 / 2			
reaction time	0.198 interval		4.27	4.41	4.43	4.70		4.61	4.73	4.81	5.00	5.06	6.17			13.11	14.04	14.87
	velocity	7.18	8.20	7.94	7.90	7.45		7.59	7.40	7.28	7.00	6.92	6.48	7.34		8.01	7.48	7.06
H1 lead leg	L strides	23	16	16	16	16		16	16	17	17	17	20	190				
Pittman, Jana (AUS) (1982)	time	6.45	10.70	15.11	19.60	24.24		28.82	33.60	38.60	43.73	48.89		55.15	9 / 3			
reaction time	0.189 interval		4.25	4.41	4.49	4.64		4.58	4.78	5.00	5.13	5.16	6.26			13.15	14.00	15.29
	velocity	6.98	8.24	7.94	7.80	7.54		7.64	7.32	7.00	6.82	6.78	6.39	7.25		7.98	7.50	6.87
H1 lead leg	R strides	22	15	15	15	15		15	15	16	16	16	18.5	178.5				
Tirlea, Ionela (ROU) (1976)	time	6.29	10.59	14.96	19.37	24.11		29.03	34.18	39.44	44.80	50.15		56.17	4 / 4			
reaction time	0.161 interval		4.30	4.37	4.41	4.74		4.92	5.15	5.26	5.36	5.35	6.02			13.08	14.81	15.97
	velocity	7.15	8.14	8.01	7.94	7.38		7.11	6.80	6.65	6.53	6.54	6.64	7.12		8.03	7.09	6.57
H1 lead leg	L strides	24	16	16	16	16		16	17	17	18	18	20	194				
Torshina, Natalya (KAZ) (1981)	time	6.41	10.66	15.01	19.58	24.38		29.25	34.17	39.36	44.81	50.20		56.38	7 / 5			
reaction time	0.208 interval		4.25	4.35	4.57	4.80		4.87	4.92	5.19	5.45	5.39	6.18			13.17	14.59	16.03
	velocity	7.02	8.24	8.05	7.66	7.29		7.19	7.11	6.74	6.42	6.49	6.47	7.09		7.97	7.20	6.55
H1 lead leg	R strides	22	15	15	15	16		16	16	17	18	17	20.5	187.5				
Parris-Thymes, Debbie (JAM)	time	6.49	10.86	15.38	19.90	24.72		29.51	34.70	39.87	45.32	50.96		57.36	1 / 6			
reaction time	0.154 interval		4.37	4.52	4.52	4.82		4.79	5.19	5.17	5.45	5.64	6.40			13.41	14.80	16.26
	velocity	6.93	8.01	7.74	7.74	7.26		7.31	6.74	6.77	6.42	6.21	6.25	6.97		7.83	7.09	6.46
H1 lead leg	R strides	25	17	17	17	17		17	17	17	18	19	21.5	202.5				
Meißner, Heike (GER) (1970)	time	6.72	11.45	16.08	20.50	25.21		30.01	35.10	40.23	45.65	51.06		57.40	5 / 7			
reaction time	0.177 interval		4.73	4.63	4.42	4.71		4.80	5.09	5.13	5.42	5.41	6.34			13.78	14.60	15.96
	velocity	6.70	7.40	7.56	7.92	7.43		7.29	6.88	6.82	6.46	6.47	6.31	6.97		7.62	7.19	6.58
H1 lead leg	R strides	23	16	16	15	15		15	16	17	17	17	20.5	187.5				
Lachgar, Zahra (MAR) (1977)	time	7.01	11.54	16.24	20.95	25.94		31.02	36.41	41.83	47.32	52.95		59.14	2 / 8			
reaction time	0.260 interval		4.53	4.70	4.71	4.99		5.08	5.39	5.42	5.49	5.63	6.19			13.94	15.46	16.54
	velocity	6.42	7.73	7.45	7.43	7.01		6.89	6.49	6.46	6.38	6.22	6.46	6.76		7.53	6.79	6.35
H1 lead leg	R strides	24	16	16	16	16		17	17	18	19	19	21.5	199.5				

Montero, Beatriz (ESP) (1977)	time	6.69	11.18	15.76	20.50	25.42	30.56	35.88	41.34	47.11	52.87		59.79	8 / 9				
	reaction time	0.181	interval	4.49	4.58	4.74	4.92	5.14	5.32	5.46	5.77	5.76	6.92		13.81	15.38	16.99	
			velocity	6.73	7.80	7.64	7.38	7.11	6.81	6.58	6.41	6.07	6.08	5.78	6.69	7.60	6.83	6.18
	H1 lead leg	R	strides	24	16	16	16	17	17	18	18	19	19	22.5	202.5			

2002 European Championships (Munich, GER)

FINAL

date 08-Aug-02

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

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tirlea, Ionela (ROU) (1976)	time	6.46	10.64	14.86	19.19	23.66	28.37	33.27	38.40	43.68	49.01			54.95	/ 1			
	reaction time	0.171	interval	4.18	4.22	4.33	4.47	4.71	4.90	5.13	5.28	5.33	5.94			12.73	14.08	15.74
			velocity	6.97	8.37	8.29	8.08	7.83	7.43	7.14	6.82	6.63	6.57	7.28		8.25	7.46	6.67
	H1 lead leg		strides	15	15	15	15	16	16	16	17	17						
Meißner, Heike (GER) (1970)	time	6.74	10.91	15.16	19.51	24.07	28.84	33.73	38.83	44.15	49.59			55.89	/ 2			
	reaction time	0.180	interval	4.17	4.25	4.35	4.56	4.77	4.89	5.10	5.32	5.44	6.30			12.77	14.22	15.86
			velocity	6.68	8.39	8.24	8.05	7.68	7.34	7.16	6.86	6.58	6.43	7.16		8.22	7.38	6.62
	H1 lead leg		strides	15	15	15	16	16	16	16	17	17						
Olichwierzuk, Anna (POL) (1977)	time	6.61	10.79	15.01	19.31	23.79	28.53	33.37	38.51	43.91	49.57			56.18	/ 3			
	reaction time	0.185	interval	4.18	4.22	4.30	4.48	4.74	4.84	5.14	5.40	5.66	6.61			12.70	14.06	16.20
			velocity	6.81	8.37	8.29	8.14	7.81	7.38	7.23	6.81	6.48	6.18	7.12		8.27	7.47	6.48
	H1 lead leg		strides	15	15	15	15	16	16	16	17	18						
Niederstatter, Monika (ITA) (1977)	time	6.89	11.25	15.71	20.21	24.82	29.59	34.55	39.65	44.85	50.21			56.34	/ 4			
	reaction time	0.206	interval	4.36	4.46	4.50	4.61	4.77	4.96	5.10	5.20	5.36	6.13			13.32	14.34	15.66
			velocity	6.53	8.03	7.85	7.78	7.59	7.34	7.06	6.86	6.73	6.53	7.10		7.88	7.32	6.70
	H1 lead leg		strides															
Bakhvalova, Yekaterina (RUS) (1977)	time	6.61	10.83	15.11	19.61	24.30	29.15	34.21	39.53	44.90	50.35			56.39	/ 5			
	reaction time	0.250	interval	4.22	4.28	4.50	4.69	4.85	5.06	5.32	5.37	5.45	6.04			13.00	14.60	16.14
			velocity	6.81	8.29	8.18	7.78	7.46	7.22	6.92	6.58	6.52	6.42	7.09		8.08	7.19	6.51
	H1 lead leg		strides															
Pskit, Małgorzata (POL) (1977)	time	6.72	10.91	15.13	19.51	24.03	28.75	33.73	38.87	44.35	50.11			56.76	/ 6			
	reaction time	0.202	interval	4.19	4.22	4.38	4.52	4.72	4.98	5.14	5.48	5.76	6.65			12.79	14.22	16.38
			velocity	6.70	8.35	8.29	7.99	7.74	7.42	7.03	6.81	6.39	6.08	7.05		8.21	7.38	6.41
	H1 lead leg		strides															
Danvers, Tasha (GBR) (1977)	time	6.65	10.83	15.11	19.59	24.17	28.91	33.89	39.19	44.69	50.35			56.93	/ 7			
	reaction time	0.244	interval	4.18	4.28	4.48	4.58	4.74	4.98	5.30	5.50	5.66	6.58			12.94	14.30	16.46
			velocity	6.77	8.37	8.18	7.81	7.64	7.38	7.03	6.60	6.36	6.18	7.03		8.11	7.34	6.38
	H1 lead leg		strides															
Dudgeon, Sinead (GBR) (1977)	time	6.61	11.16	15.65	20.22	24.99	29.99	35.23	40.76	46.56				59.39	/ 8			
	reaction time	0.184	interval	4.55	4.49	4.57	4.77	5.00	5.24	5.53	5.80					13.61	15.01	
			velocity	6.81	7.69	7.80	7.66	7.34	7.00	6.68	6.33	6.03		6.74		7.71	7.00	
	H1 lead leg		strides															

Heat 1

date 07-Aug-02

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

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Tirlea, Ionela (ROU) (1976)	time	6.48	10.67	14.95				33.71	38.95	44.25	49.59			55.57	/ 1			
	reaction time	0.196	interval	4.19	4.28			18.76	5.24	5.30	5.34	5.98						15.88
			velocity	6.94	8.35	8.18		7.46	6.68	6.60	6.55	6.69	7.20					6.61
	H1 lead leg		strides															
Meißner, Heike (GER) (1970)	time	6.75	11.04	15.35	19.75	24.23	29.09	33.97	39.97	44.13	49.47			55.67	/ 2			
	reaction time	0.160	interval	4.29	4.31	4.40	4.48	4.86	4.88	6.00	4.16	5.34	6.20			13.00	14.22	15.50
			velocity	6.67	8.16	8.12	7.95	7.81	7.20	7.17	5.83	8.41	6.55	7.19		8.08	7.38	6.77
	H1 lead leg		strides															

2001 Chinese National Games (Guangzhou, CHN)

FINAL

date 22-Nov-01

Lu (2002) - technical analysis of women's 400m hurdles champion and runner-up at the 9th national games

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Song Yinglan (CHN) (1975)	time	6.37	10.57	14.81	19.05	23.41	27.97	32.73	37.65	42.73	47.85			53.96	/ 1			
	reaction time		interval	4.20	4.24	4.24	4.36	4.56	4.76	4.92	5.08	5.12	6.11	=AR PB		12.68	13.68	15.12
			velocity	7.06	8.33	8.25	8.03	7.68	7.35	7.11	6.89	6.84	6.55	7.41		8.28	7.68	6.94
	H1 lead leg		strides															
Huang Xiaoxiao (CHN) (1983)	time	6.31	10.55	14.79	19.11	23.51	28.10	33.02	38.02	43.26	48.66			55.15	/ 2			
	reaction time		interval	4.24	4.24	4.32	4.40	4.59	4.92	5.00	5.24	5.40	6.49	PB		12.80	13.91	15.64
			velocity	7.13	8.25	8.25	8.10	7.63	7.11	7.00	6.68	6.48	6.16	7.25		8.20	7.55	6.71
	H1 lead leg		strides															

2001 ISTAF (Berlin, GER)

FINAL

date 31-Aug-01

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

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Nosova, Yuliya (RUS) (1978)	time	6.62	10.78	15.03	19.36	23.78	28.30	33.11	38.09	43.21	48.62			54.62	/ 1			

reaction time	0.233	interval	4.16	4.25	4.33	4.42	4.52	4.81	4.98	5.12	5.41	6.00		12.74	13.75	15.51	
H1 lead leg		velocity	6.80	8.41	8.24	8.08	7.92	7.74	7.28	7.03	6.84	6.47	6.67	7.32	8.24	7.64	6.77
H1 lead leg		strides															
Tereschuk-Antipova, Tetiana	time	6.69	11.00	15.32	19.73	24.23	28.84	33.63	38.50	43.61	48.80		54.64	/ 2			
reaction time	0.291	interval	4.31	4.32	4.41	4.50	4.61	4.79	4.87	5.11	5.19	5.84		13.04	13.90	15.17	
H1 lead leg		velocity	6.73	8.12	8.10	7.94	7.78	7.59	7.31	7.19	6.85	6.74	6.85	7.32	8.05	7.55	6.92
H1 lead leg		strides															
Pernía, Daimí (CUB) (1976)	time	6.70	10.99	15.36	19.79	24.38	29.16	34.19	39.15	44.21	49.30		54.98	/ 3			
reaction time	0.244	interval	4.29	4.37	4.43	4.59	4.78	5.03	4.96	5.06	5.09	5.68		13.09	14.40	15.11	
H1 lead leg		velocity	6.72	8.16	8.01	7.90	7.63	7.32	6.96	7.06	6.92	6.88	7.04	7.28	8.02	7.29	6.95
H1 lead leg		strides															
Tirlea, Ionela (ROU) (1976)	time	6.47	10.68	14.99	19.34	23.92	28.76	33.71	38.86	44.08	49.30		55.13	/ 4			
reaction time	0.202	interval	4.21	4.31	4.35	4.58	4.84	4.95	5.15	5.22	5.22	5.83		12.87	14.37	15.59	
H1 lead leg		velocity	6.96	8.31	8.12	8.05	7.64	7.23	7.07	6.80	6.70	6.70	6.86	7.26	8.16	7.31	6.74
H1 lead leg		strides															

2001 IAAF World Championships (Edmonton, CAN)

FINAL

date 08-Aug-01

Behm (2001) - Edmonton: Le quatreche: les finales

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bidouane, Nezha (MAR) (1991)	time	6.3	10.7	15.0	19.3	23.7	28.3	32.9	37.7	42.4	47.4		53.34	4 / 1			
reaction time	0.153	interval	4.4	4.3	4.3	4.4	4.6	4.6	4.8	4.7	5.0	5.94			13.00	13.60	14.50
H1 lead leg	R	velocity	7.14	7.95	8.14	8.14	7.95	7.61	7.61	7.29	7.45	7.00	6.73	7.50	8.08	7.72	7.24
H1 lead leg		strides	24	16	16	16	16	17	17	17	17	17	20.5	193.5			
Nosova, Yuliya (RUS) (1978)	time	6.3	10.5	14.7	19.0	23.4	27.9	32.7	37.7	42.7	47.9		54.27	5 / 2			
reaction time	0.123	interval	4.2	4.2	4.3	4.4	4.5	4.8	5.0	5.0	5.2	6.37			12.70	13.70	15.20
H1 lead leg	L	velocity	7.14	8.33	8.33	8.14	7.95	7.78	7.29	7.00	7.00	6.73	6.28	7.37	8.27	7.66	6.91
H1 lead leg		strides	22	15	15	15	15	15	16	16	16	17	20.5	182.5			
Pernía, Daimí (CUB) (1976)	time	6.3	10.4	14.5	18.9	23.2	27.8	32.0	37.7	42.7	48.2		54.51	3 / 3			
reaction time	0.160	interval	4.1	4.1	4.4	4.3	4.6	4.2	5.7	5.0	5.5	6.31			12.60	13.10	16.20
H1 lead leg	L	velocity	7.14	8.54	8.54	7.95	8.14	7.61	8.33	6.14	7.00	6.36	6.34	7.34	8.33	8.02	6.48
H1 lead leg		strides	23	15	15	15	15	16	16	16	17	17	19.5	184.5			
Buford-Bailey, Tonja (USA)	time	6.3	10.6	14.9	19.3	23.7	28.4	33.2	38.3	43.4	48.7		54.55	6 / 4			
reaction time	0.146	interval	4.3	4.3	4.4	4.4	4.7	4.8	5.1	5.1	5.3	5.85			13.00	13.90	15.50
H1 lead leg	L	velocity	7.14	8.14	8.14	7.95	7.95	7.45	7.29	6.86	6.86	6.60	6.84	7.33	8.08	7.55	6.77
H1 lead leg		strides	23	15	15	15	15	15	16	17	17	17	20	185			
Parris-Thymes, Debbie (JAM)	time	6.3	10.5	14.8	19.1	23.4	27.9	32.8	37.9	42.9	48.3		54.68	1 / 5			
reaction time	0.151	interval	4.2	4.3	4.3	4.3	4.5	4.9	5.1	5.0	5.4	6.38			12.80	13.70	15.50
H1 lead leg	L	velocity	7.14	8.33	8.14	8.14	8.14	7.78	7.14	6.86	7.00	6.48	6.27	7.32	8.20	7.66	6.77
H1 lead leg		strides	23	16	16	16	16	17	17	17	17	21.5	193.5				
Tirlea, Ionela (ROU) (1976)	time	6.2	10.3	14.6	18.8	23.2	27.8	32.7	38.0	43.4	48.8		55.36	7 / 6			
reaction time	0.164	interval	4.1	4.3	4.2	4.4	4.6	4.9	5.3	5.4	5.4	6.56			12.60	13.90	16.10
H1 lead leg	R	velocity	7.26	8.54	8.14	8.33	7.95	7.61	7.14	6.60	6.48	6.48	6.10	7.23	8.33	7.55	6.52
H1 lead leg		strides	23	16	16	16	16	17	17	17	17	20.5	192.5				
Hemmings, Deon (JAM) (1991)	time	6.3	10.6	15.0	19.3	23.8	28.6	33.7	38.9	44.0	49.3		55.83	8 / 7			
reaction time	0.179	interval	4.3	4.4	4.3	4.5	4.8	5.1	5.2	5.1	5.3	6.53			13.00	14.40	15.60
H1 lead leg	L	velocity	7.14	8.14	7.95	8.14	7.78	7.29	6.86	6.73	6.86	6.60	6.13	7.16	8.08	7.29	6.73
H1 lead leg		strides	23	15	15	15	15	15	17	16	16	17	164				
Glover, Sandra (USA) (1968)	0.174	no information available											57.42	2 / 8			

Semi-Final 1

date 08-Aug-01

Behm (2001) - profil des finales d'Edmonton

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Glover, Sandra (USA) (1968)	time	6.4	10.7	15.1	19.5	24.0	28.5	33.3	38.2	43.2	48.6		55.04	2 / 4			
reaction time	0.174	interval	4.3	4.4	4.4	4.5	4.5	4.8	4.9	5.0	5.4	6.44			13.10	13.80	15.30
H1 lead leg		velocity	7.03	8.14	7.95	7.95	7.78	7.29	7.14	7.00	6.48	6.21			8.02	7.61	6.86
H1 lead leg		strides	24	16	16	16	16	17	18	18	18	18	177				

2001 European Junior Championships (Grosseto, ITA)

Heat 2

date 20-Jul-01

Leynier (2001) - Athl'haies - Championnats d'Europe Juniors

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Derycke, Sylvaine (FRA) (1981)	time	6.6	11.3	16.1	21.1	26.4	31.7	37.1	42.7	48.4	54.3		61.52	/ 5			
reaction time		interval	4.7	4.8	5.0	5.3	5.3	5.4	5.6	5.7	5.9	7.2			14.50	16.00	17.20
H1 lead leg		velocity	6.82	7.45	7.29	7.00	6.60	6.48	6.25	6.14	5.93	5.54	6.50		7.24	6.56	6.10
H1 lead leg		strides															

2001 European Cup (Bremen, GER)

FINAL

date 23-Jun-01

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

Nosova, Yuliya (RUS) (1978)	time	6.62	10.74	14.90	19.12	23.51	27.99	32.76	37.66	42.70	47.83		53.84	/ 1			
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reaction time	interval	4.12	4.16	4.22	4.39	4.48	4.77	4.90	5.04	5.13	6.01	PB	12.50	13.64	15.07	
H1 lead leg	velocity	6.80	8.50	8.41	8.29	7.81	7.34	7.14	6.94	6.82	6.66	7.43	8.40	7.70	6.97	
H1 lead leg	strides															
Tirlea, Ionela (ROU) (1976)	time	6.43	10.56	14.77	19.05	23.54	28.12	33.07	38.27	43.71	49.21	55.08	/ 2			
reaction time	interval	4.13	4.21	4.28	4.49	4.58	4.95	5.20	5.44	5.50	5.87		12.62	14.02	16.14	
H1 lead leg	velocity	7.00	8.47	8.31	8.18	7.80	7.64	7.07	6.73	6.43	6.36	6.81	7.26	8.32	7.49	6.51
H1 lead leg	strides															
Meißner, Heike (GER) (1970)	time	6.73	10.93	15.27	19.71	24.20	28.85	33.71	38.83	44.07	49.37	55.33	/ 3			
reaction time	interval	4.20	4.34	4.44	4.49	4.65	4.86	5.12	5.24	5.30	5.96		12.98	14.00	15.66	
H1 lead leg	velocity	6.69	8.33	8.06	7.88	7.80	7.53	7.20	6.84	6.68	6.60	6.71	7.23	8.09	7.50	6.70
H1 lead leg	strides															
Morandais, Sylvanie (FRA) (1977)	time	6.56	10.86	15.25	19.68	24.23	29.13	34.09	39.08	44.31	49.59	55.50	/ 4			
reaction time	interval	4.30	4.39	4.43	4.55	4.74	4.99	5.23	5.28	5.91	PB		13.12	14.41	15.50	
H1 lead leg	velocity	6.86	8.14	7.97	7.90	7.69	7.10	7.01	6.69	6.63	6.77	7.21	8.00	7.29	6.77	
H1 lead leg	strides															
Kurochkina, Tatyana (BLR) (1977)	time	6.70	11.01	15.27	19.69	24.77	29.13	34.17	39.33	44.67	50.11	56.17	/ 5			
reaction time	interval	4.31	4.26	4.42	5.08	4.36	5.04	5.16	5.34	5.44	6.06		12.99	14.48	15.94	
H1 lead leg	velocity	6.72	8.12	8.22	7.92	6.89	8.03	6.94	6.78	6.55	6.43	6.60	7.12	8.08	7.25	6.59
H1 lead leg	strides															
Niederstätter, Monika (ITA) (1977)	time	6.85	11.22	15.67	20.15	24.77	29.51	34.53	39.63	44.86	50.47	56.85	/ 6			
reaction time	interval	4.37	4.45	4.48	4.62	4.74	5.02	5.10	5.23	5.61	6.38		13.30	14.38	15.94	
H1 lead leg	velocity	6.57	8.01	7.87	7.81	7.58	7.38	6.97	6.86	6.69	6.24	6.27	7.04	7.89	7.30	6.59
H1 lead leg	strides															
Rücklová, Alena (CZE) (1981)	time	6.92	11.36	15.91	20.48	25.24	30.21	35.29	40.45	45.74	51.45	57.60	/ 7			
reaction time	interval	4.44	4.55	4.57	4.76	4.97	5.08	5.16	5.24	5.30	6.15	PB	13.56	14.81	16.16	
H1 lead leg	velocity	6.50	7.88	7.69	7.66	7.35	7.04	6.89	6.78	6.66	6.36	6.50	6.94	7.74	7.09	6.50
H1 lead leg	strides															
Danvers, Natasha (GBR) (1977)	time	6.56	10.69	14.87	19.21	23.69	28.53	33.53	38.67	43.98	49.59	55.50	62.97	/ 8		
reaction time	interval	4.13	4.18	4.34	4.48	4.84	5.00	5.14	5.31	10.88	8.11		12.65	14.32	21.33	
H1 lead leg	velocity	6.86	8.47	8.37	8.06	7.81	7.23	7.00	6.81	6.59	3.22	4.93	6.35	8.30	7.33	4.92
H1 lead leg	strides															

2000 Olympic Games (Sydney, AUS)

FINAL

date 27-Sep-00

Behm (2000) - Sydney 2000: Compte-rendu du 400m haies

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-in	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Privalova, Irina (RUS) (1968)	time	6.4	10.5	14.7	19.0	23.3	27.7	32.2	37.0	41.9	47.1		53.02	3 / 1				
reaction time	0.178 interval	4.1	4.2	4.3	4.3	4.4	4.4	4.5	4.8	4.9	5.2	5.92	PB		12.60	13.20	14.90	
H1 lead leg	velocity	7.03	8.54	8.33	8.14	8.14	7.95	7.78	7.29	7.14	6.73	6.76	7.54		8.33	7.95	7.05	
H1 lead leg	L strides	21	14	14	14	14	15	15	15	16	16	19	173					
Hemmings, Deon (JAM) (1968)	time	6.3	10.4	14.5	18.8	23.2	27.7	32.3	37.3	42.4	47.5		53.45	6 / 2				
reaction time	0.446 interval	4.1	4.1	4.3	4.4	4.5	4.5	4.6	5.0	5.1	5.1	5.95		12.50	13.50	15.20		
H1 lead leg	velocity	7.14	8.54	8.54	8.14	7.95	7.78	7.61	7.00	6.86	6.86	6.72	7.48		8.40	7.78	6.91	
H1 lead leg	L strides	23	15	15	15	15	15	15	16	16	16	20	181					
Bidouane, Nezha (MAR) (1977)	time	6.4	10.7	15.0	19.3	23.6	28.1	32.7	37.5	42.4	47.5		53.57	4 / 3				
reaction time	0.169 interval	4.3	4.3	4.3	4.3	4.5	4.5	4.6	4.8	4.9	5.1	6.07		12.90	13.40	14.80		
H1 lead leg	velocity	7.03	8.14	8.14	8.14	8.14	7.78	7.61	7.29	7.14	6.86	6.59	7.47		8.14	7.84	7.09	
H1 lead leg	R strides		16	16	16	16	16	17	17	17	17	21	169					
Pernía, Daimi (CUB) (1976)	time	6.4	10.5	14.7	19.0	23.3	27.9	32.5	37.5	42.6	47.6		53.68	5 / 4				
reaction time	0.447 interval	4.1	4.2	4.3	4.3	4.6	4.6	4.6	5.0	5.1	5.0	6.08		12.60	13.50	15.10		
H1 lead leg	velocity	7.03	8.54	8.33	8.14	8.14	7.61	7.61	7.00	6.86	7.00	6.58	7.45		8.33	7.78	6.95	
H1 lead leg	L strides	23	15	15	15	15	15	15	15	16	16	19.5	179.5					
Tereschuk-Antipova, Tetiana (UKR) (1977)	time	6.6	10.7	14.9	19.1	23.5	27.9	32.6	37.5	42.5	47.5		53.98	8 / 5				
reaction time	0.326 interval	4.1	4.2	4.2	4.4	4.4	4.7	4.9	5.0	5.0	6.48		12.50	13.50	14.90			
H1 lead leg	velocity	6.82	8.54	8.33	8.33	7.95	7.95	7.45	7.14	7.00	7.00	6.17	7.41		8.40	7.78	7.05	
H1 lead leg	L strides	22	15	15	15	15	15	16	16	16	16	17.5	178.5					
Tirlea, Ionela (ROU) (1976)	time	6.4	10.5	14.7	19.0	23.3	28.1	32.9	37.9	42.9	48.3		54.35	7 / 6				
reaction time	0.281 interval	4.1	4.2	4.3	4.3	4.8	4.8	5.0	5.0	5.4	6.05		12.60	13.90	15.40			
H1 lead leg	velocity	7.03	8.54	8.33	8.14	8.14	7.29	7.29	7.00	7.00	6.48	6.61	7.36		8.33	7.55	6.82	
H1 lead leg	L strides	22	15	15	15	15	16	16	16	17	17		164					
Arnardóttir, Guðrún (ISL) (1977)	time	6.6	10.9	15.2	19.5	24.0	28.6	33.5	38.5	43.5	48.7		54.63	2 / 7				
reaction time	0.238 interval	4.3	4.3	4.3	4.5	4.6	4.9	5.0	5.0	5.2	5.93		12.90	14.00	15.20			
H1 lead leg	velocity	6.82	8.14	8.14	8.14	7.78	7.61	7.14	7.00	7.00	6.73	6.75	7.32		8.14	7.50	6.91	
H1 lead leg	L strides	23	15	15	15	15	15	15	16	16	16	18.5	179.5					
Danvers, Tasha (GBR) (1977)	time	6.2	10.4	14.7	19.2	23.7	28.2	33.1	38.0	43.1	48.7		55.00	1 / 8				

reaction time	0.174	interval	4.2	4.3	4.5	4.5	4.5	4.9	4.9	5.1	5.6	6.30		13.00	13.90	15.60	
		velocity	7.26	8.33	8.14	7.78	7.78	7.78	7.14	7.14	6.86	6.25	6.35	7.27	8.08	7.55	6.73
H1 lead leg	L	strides	21	15	14	14	14	15	15	15	15	16	17	171			

1999 IAAF World Championships (Sevilla, ESP)

FINAL

date 25-Aug-99

Sanchez (1999) - Sevilla '99: análisis de la carreras con villas

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-in	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Pernía, Daimi (CUB) (1976)	time		6.26	10.36	14.50	18.79	23.17		27.75	32.55	37.29	42.22	47.00		52.89	5 / 1			
	reaction time	0.202		4.10	4.14	4.29	4.38		4.58	4.80	4.74	4.93	4.78	5.89	NR		12.53	13.76	14.45
		interval																	
		velocity	7.19	8.54	8.45	8.16	7.99		7.64	7.29	7.38	7.10	7.32	6.79	7.56		8.38	7.63	7.27
	H1 lead leg	L	strides	23	15	15	15	15	15	16	16	16	16	16	19.5	181.5			
Bidouane, Nezha (MAR) (1976)	time		6.25	10.41	14.61	18.91	23.28		27.77	32.56	37.19	42.05	46.96		52.90	4 / 2			
	reaction time	0.170		4.16	4.20	4.30	4.37		4.49	4.79	4.63	4.86	4.91	5.94	AR		12.66	13.65	14.40
		interval																	
		velocity	7.20	8.41	8.33	8.14	8.01		7.80	7.31	7.56	7.20	7.13	6.73	7.56		8.29	7.69	7.29
	H1 lead leg	R	strides	24	16	16	16	16	16	17	17	17	17	20.5	192.5				
Hemmings, Deon (JAM) (1968)	time		6.14	10.18	14.36	18.61	22.98		27.48	32.30	37.06	42.10	47.05		53.16	3 / 3			
	reaction time	0.188		4.04	4.18	4.25	4.37		4.50	4.82	4.76	5.04	4.95	6.11			12.47	13.69	14.75
		interval																	
		velocity	7.33	8.66	8.37	8.24	8.01		7.78	7.26	7.35	6.94	7.07	6.55	7.52		8.42	7.67	7.12
	H1 lead leg	L	strides	23	15	15	15	15	15	16	16	17	16	20	183				
Blackett, Andrea (BAR) (1976)	time		6.20	10.31	14.59	18.98	23.49		28.20	33.00	37.81	42.70	47.71		53.36	6 / 4			
	reaction time	0.178		4.11	4.28	4.39	4.51		4.71	4.80	4.81	4.89	5.01	5.65	NR / PB		12.78	14.02	14.71
		interval																	
		velocity	7.26	8.52	8.18	7.97	7.76		7.43	7.29	7.28	7.16	6.99	7.08	7.50		8.22	7.49	7.14
	H1 lead leg	L	strides	23	15	15	15	15	16	16	16	16	16	18.5	181.5				
Glover, Sandra (USA) (1968)	time		6.44	10.64	14.97	19.30	23.83		28.37	32.99	37.64	42.55	47.60		53.65	1 / 5			
	reaction time	0.150		4.20	4.33	4.33	4.53		4.54	4.62	4.65	4.91	5.05	6.05	PB		12.86	13.69	14.61
		interval																	
		velocity	6.99	8.33	8.08	8.08	7.73		7.71	7.58	7.53	7.13	6.93	6.61	7.46		8.16	7.67	7.19
	H1 lead leg	L	strides	24	16	16	16	16	16	16	17	17	17	20	191				
Johnson, Michelle (USA) (1976)	time		6.53	10.67	14.96	19.32	23.73		28.25	33.12	37.92	42.98	48.09		54.23	2 / 6			
	reaction time	0.291		4.14	4.29	4.36	4.41		4.52	4.87	4.80	5.06	5.11	6.14			12.79	13.80	14.97
		interval																	
		velocity	6.89	8.45	8.16	8.03	7.94		7.74	7.19	7.29	6.92	6.85	6.51	7.38		8.21	7.61	7.01
	H1 lead leg	L	strides	23	15	15	15	15	15	16	16	16	16	19.5	181.5				
Tereschuk-Antipova, Tetiana (UKR) (1976)	time		6.61	10.82	15.12	19.49	23.98		28.51	33.25	38.01	43.03	48.17		54.33	7 / 7			
	reaction time	0.273		4.21	4.30	4.37	4.49		4.53	4.74	4.76	5.02	5.14	6.16			12.88	13.76	14.92
		interval																	
		velocity	6.81	8.31	8.14	8.01	7.80		7.73	7.38	7.35	6.97	6.81	6.49	7.36		8.15	7.63	7.04
	H1 lead leg	L	strides	22	15	15	15	15	15	16	16	16	16	19.5	180.5				
Parris-Thymes, Debbie (JAM) (1976)	time		6.53	10.91	15.33	19.91	24.57		29.46	34.41	39.35	44.47	49.77		56.24	8 / 8			
	reaction time	0.239		4.38	4.42	4.58	4.66		4.89	4.95	4.94	5.12	5.30	6.47			13.38	14.50	15.36
		interval																	
		velocity	6.89	7.99	7.92	7.64	7.51		7.16	7.07	7.09	6.84	6.60	6.18	7.11		7.85	7.24	6.84
	H1 lead leg	L	strides	24	17	17	17	17	17	17	17	17	17	20.5	197.5				

Semi-Final 2

date 23-Aug-99

Sanchez (1999) - Sevilla '99: análisis de la carreras con villas

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-in	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bidouane, Nezha (MAR) (1976)	time		6.18	10.55	14.91	19.39	24.01		28.76	33.52	38.29	43.13	47.96		53.95	6 / 1			
	reaction time	0.166		4.37	4.36	4.48	4.62		4.75	4.76	4.77	4.84	4.83	5.99			13.21	14.13	14.44
		interval																	
		velocity	7.28	8.01	8.03	7.81	7.58		7.37	7.35	7.34	7.23	7.25	6.68	7.41		7.95	7.43	7.27
	H1 lead leg	R	strides	24	16	16	16	16	16	17	17	17	17	20.5	192.5				
Pernía, Daimi (CUB) (1976)	time		6.05	10.21	14.45	18.76	23.19		27.90	32.74	37.67	42.77	47.84		53.96	3 / 2			
	reaction time	0.197		4.16	4.24	4.31	4.43		4.71	4.84	4.93	5.10	5.07	6.12			12.71	13.98	15.10
		interval																	
		velocity	7.44	8.41	8.25	8.12	7.90		7.43	7.23	7.10	6.86	6.90	6.54	7.41		8.26	7.51	6.95
	H1 lead leg	L	strides	23	15	15	15	15	15	16	16	16	16	18.5	180.5				
Glover, Sandra (USA) (1968)	time		6.19	10.46	14.81	19.17	23.72		28.25	32.96	37.77	42.76	47.90		54.17	4 / 3			
	reaction time	0.151		4.27	4.35	4.36	4.55		4.53	4.71	4.81	4.99	5.14	6.27			12.98	13.79	14.94
		interval																	
		velocity	7.27	8.20	8.05	8.03	7.69		7.73	7.43	7.28	7.01	6.81	6.38	7.38		8.09	7.61	7.03
	H1 lead leg	L	strides	24	16	16	16	16	16	16	17	17	17	19.5	190.5				
Parris-Thymes, Debbie (JAM) (1976)	time		6.16	10.47	14.88	19.42	24.08		28.87	33.51	38.32	43.28	48.34		54.81	5 / 4			
	reaction time	0.155		4.31	4.41	4.54	4.66		4.79	4.64	4.81	4.96	5.06	6.47			13.26	14.09	14.83
		interval																	
		velocity	7.31	8.12	7.94	7.71	7.51		7.31	7.54	7.28	7.06	6.92	6.18	7.30		7.92	7.45	7.08
	H1 lead leg	L	strides	23	16	16	17	17	16	16	17	17	17	21	193				
Szekeres, Judit (HUN) (1966)	time		6.25	10.57	15.01	19.56	24.23		28.87	33.70	38.64	43.75	48.87		54.86	7 / 5			
	reaction time	0.182		4.32	4.44	4.55	4.67		4.64	4.83	4.94	5.11	5.12	5.99			13.31	14.14	15.17
		interval																	
		velocity	7.20	8.10	7.88	7.69	7.49		7.54	7.25	7.09	6.85	6.84	6.68	7.29		7.89	7.43	6.92
	H1 lead leg	L	strides	23	16	16	16	16	16	16	17	17	17	20.5	190.5				
Smith-Walsh, Susan (IRL) (1976)	time		6.12	10.38	14.86	19.35	23.89		28.50	33.24	38.21	43.29	48.51		55.20	1 / 6			
	reaction time	0.176		4.26	4.48	4.49	4.54		4.61	4.74	4.97	5.08	5.22	6.69</					

Torshina, Natayla (KAZ) (1996)	time	6.16	10.49	14.76	19.15	23.69	28.34	33.25	38.24	43.48	48.74	55.26	8 / 7				
	reaction time	0.256	interval	4.33	4.27	4.39	4.54	4.65	4.91	4.99	5.24	5.26	6.52		12.99	14.10	15.49
	velocity	7.31	8.08	8.20	7.97	7.71	7.53	7.13	7.01	6.68	6.65	6.13	7.24		8.08	7.45	6.78
	H1 lead leg	R	strides	22	15	15	15	15	16	17	17	17	20.5	184.5			

Niederstätter, Monika (ITA) (1976)	time	6.24	10.55	14.95	19.46	24.10	28.86	33.70	38.67	43.79	49.05	55.57	2 / 8				
	reaction time	0.214	interval	4.31	4.40	4.51	4.64	4.76	4.84	4.97	5.12	5.26	6.52		13.22	14.24	15.35
	velocity	7.21	8.12	7.95	7.76	7.54	7.35	7.23	7.04	6.84	6.65	6.13	7.20		7.94	7.37	6.84
	H1 lead leg	R	strides	23	16	16	16	16	17	17	17	17	22	193			

Semi-Final 1

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Sanchez (1999) - Sevilla '99: análisis de la carreras con villas

Hemmings, Deon (JAM) (1976)	time	5.99	10.09	14.25	18.57	23.03	27.55	32.41	37.36	42.41	47.78	54.00	3 / 1				
	reaction time	0.189	interval	4.10	4.16	4.32	4.46	4.52	4.86	4.95	5.05	5.37	6.22		12.58	13.84	15.37
	velocity	7.51	8.54	8.41	8.10	7.85	7.74	7.20	7.07	6.93	6.52	6.43	7.41		8.35	7.59	6.83
	H1 lead leg	L	strides	23	15	15	15	15	16	16	16	17	20	183			

Blackett, Andrea (BAR) (1976)	time	5.99	10.11	14.38	18.84	23.39	28.23	33.21	38.14	43.16	48.13	54.18	6 / 2				
	reaction time	0.144	interval	4.12	4.27	4.46	4.55	4.84	4.98	4.93	5.02	4.97	6.05		12.85	14.37	14.92
	velocity	7.51	8.50	8.20	7.85	7.69	7.23	7.03	7.10	6.97	7.04	6.61	7.38		8.17	7.31	7.04
	H1 lead leg	L	strides	23	15	15	15	16	16	16	16	16	19	183			

Tereschuk-Antipova, Tetiana (UKR) (1976)	time	6.24	10.43	14.66	19.11	23.54	28.13	33.00	37.97	43.00	48.14	54.55	4 / 3				
	reaction time	0.182	interval	4.19	4.23	4.45	4.43	4.59	4.87	4.97	5.03	5.14	6.41		12.87	13.89	15.14
	velocity	7.21	8.35	8.27	7.87	7.90	7.63	7.19	7.04	6.96	6.81	6.24	7.33		8.16	7.56	6.94
	H1 lead leg	L	strides	22	15	15	15	15	16	16	16	16	19.5	180.5			

Johnson, Michelle (USA) (1976)	time	6.15	10.30	14.47	18.79	23.25	27.85	32.85	37.75	42.78	47.99	54.67	5 / 4				
	reaction time	0.188	interval	4.15	4.17	4.32	4.46	4.60	5.00	4.90	5.03	5.21	6.68		12.64	14.06	15.14
	velocity	7.32	8.43	8.39	8.10	7.85	7.61	7.00	7.14	6.96	6.72	5.99	7.32		8.31	7.47	6.94
	H1 lead leg	R	strides	23	15	15	15	15	16	16	16	16	19.5	181.5			

Diouf, Tacko (SEN) (1976)	time	6.15	10.46	14.85	19.29	23.93	28.86	33.75	38.63	43.48	48.63	55.17	7 / 5				
	reaction time	0.218	interval	4.31	4.39	4.44	4.64	4.93	4.89	4.88	4.85	5.15	6.54		13.14	14.46	14.88
	velocity	7.32	8.12	7.97	7.88	7.54	7.10	7.16	7.17	7.22	6.80	6.12	7.25		7.99	7.26	7.06
	H1 lead leg	R	strides	22	16	16	16	17	17	17	17	18	22	194			

Dudgeon, Sinead (GBR) (1976)	time	6.06	10.27	14.60	18.98	23.59	28.46	33.48	38.73	43.97	49.38	55.69	2 / 6				
	reaction time	0.173	interval	4.21	4.33	4.38	4.61	4.87	5.02	5.25	5.24	5.41	6.31		12.92	14.50	15.90
	velocity	7.43	8.31	8.08	7.99	7.59	7.19	6.97	6.67	6.68	6.47	6.34	7.18		8.13	7.24	6.60
	H1 lead leg	R	strides	23	15	15	15	16	16	17	17	17	20	186			

Bakhvalova, Yekaterina (RUS) (1976)	time	6.23	10.56	14.97	19.12	24.19	29.08	34.05	38.93	44.18	49.63	55.76	8 / 7				
	reaction time	0.151	interval	4.33	4.41	4.15	5.07	4.89	4.97	4.88	5.25	5.45	6.13		12.89	14.93	15.58
	velocity	7.22	8.08	7.94	8.43	6.90	7.16	7.04	7.17	6.67	6.42	6.53	7.17		8.15	7.03	6.74
	H1 lead leg	L	strides	22	15	15	15	15	15	15	15	16	18	176			

Urbansky, Ulrike (GER) (1976)	time	6.28	10.51	14.79	19.13	23.56	28.22	33.45	38.71	43.89	49.26	55.81	1 / 8				
	reaction time	0.239	interval	4.23	4.28	4.34	4.43	4.66	5.23	5.26	5.18	5.37	6.55		12.85	14.32	15.81
	velocity	7.17	8.27	8.18	8.06	7.90	7.51	6.69	6.65	6.76	6.52	6.11	7.17		8.17	7.33	6.64
	H1 lead leg	R	strides	23	15	15	15	15	17	17	17	17	20	186			

Heat 4

date 21-Aug-99

Sanchez (1999) - Sevilla '99: análisis de la carreras con villas

Hemmings, Deon (JAM) (1976)	time	6.04	10.23	14.51	18.93	23.29	27.84	32.74	37.67	42.84	48.05	54.27	5 / 1				
	reaction time	0.172	interval	4.19	4.28	4.42	4.36	4.55	4.90	4.93	5.17	5.21	6.22		12.89	13.81	15.31
	velocity	7.45	8.35	8.18	7.92	8.03	7.69	7.14	7.10	6.77	6.72	6.43	7.37		8.15	7.60	6.86
	H1 lead leg	L	strides	23	15	15	15	15	16	16	17	17	20	184			

Heat 2

date 21-Aug-99

Sanchez (1999) - Sevilla '99: análisis de la carreras con villas

Bidouane, Nezha (MAR) (1976)	time	6.29	10.53	14.82	19.19	23.67	28.44	33.29	38.18	43.25	48.41	54.64	5 / 1				
	reaction time	0.188	interval	4.24	4.29	4.37	4.48	4.77	4.85	4.89	5.07	5.16	6.23		12.90	14.10	15.12
	velocity	7.15	8.25	8.16	8.01	7.81	7.34	7.22	7.16	6.90	6.78	6.42	7.32		8.14	7.45	6.94
	H1 lead leg	R	strides	24	16	16	16	17	17	17	17	18	21	195			

Heat 1

date 21-Aug-99

Sanchez (1999) - Sevilla '99: análisis de la carreras con villas

Pernía, Daimi (CUB) (1976)	time	6.21	10.49	14.79	19.19	23.83	28.56	33.61	38.71	43.75	48.85	54.88	7 / 2				
	reaction time	0.272	interval	4.28	4.30	4.40	4.64	4.73	5.05	5.10	5.04	5.10	6.03		12.98	14.42	15.24
	velocity	7.25	8.18	8.14	7.95	7.54	7.40	6.93	6.86	6.94	6.86	6.63	7.29		8.09	7.28	6.89
	H1 lead leg	L	strides	23	15	15	15	15	16	16	16	16	19	181			

1998 European Championships (Budapest, HUN)

FINAL

date 23-Aug-98

Sanchez (1998) - Budapest '98: análisis de la carreras con villas

Tirlea, Ionela (ROU) (1976)	time	6.30	10.40	14.42	18.62	23.05	27.61	32.16	36.92	42.01	47.30	53.37	6 / 1				
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reaction time	interval		4.10	4.02	4.20	4.43		4.56	4.55	4.76	5.09	5.29	6.07	NR	12.32	13.54	15.14
	velocity	7.14	8.54	8.71	8.33	7.90		7.68	7.69	7.35	6.88	6.62	6.59	7.49	8.52	7.75	6.94
H1 lead leg	L	strides	22	15	15	15	15	15	16	16	17	17	21	184			
Tereschuk-Antipova, Tetiana	time		6.41			23.10						47.49		54.07	5 / 2		
reaction time	interval					16.69						24.39	6.58				
	velocity	7.02				8.39						7.18	6.08	7.40			
H1 lead leg	L	strides	22	15	15	15	15	15	15	15	16	16	21	180			
Rieger, Silvia (GER) (1970)	time		6.49			23.35						48.17		54.45	3 / 3		
reaction time	interval					16.86						24.82	6.28				
	velocity	6.93				8.30						7.05	6.37	7.35			
H1 lead leg	R	strides	23	15	15	15	15	15	16	16	17	17	20.5	184.5			
Arnardóttir, Guðrún (ISL) (1971)	time		6.54			23.81						48.80		54.59	2 / 4		
reaction time	interval					17.27						24.99	5.79	NR			
	velocity	6.88				8.11						7.00	6.91	7.33			
H1 lead leg	L	strides	23	15	15	15	15	15	16	16	17	17	19.5	183.5			
Goossens, Ester (NED) (1972)	time		6.52			24.10						48.50		54.62	8 / 5		
reaction time	interval					17.58						24.40	6.12	NR			
	velocity	6.90				7.96						7.17	6.54	7.32			
H1 lead leg	L	strides	23	14	14	15	15	15	15	16	16	17	20.5	180.5			
Urbansky, Ulrike (GER) (1972)	time		6.67			23.85						49.90		55.38	7 / 6		
reaction time	interval					17.18						26.05	5.48				
	velocity	6.75				8.15						6.72	7.30	7.22			
H1 lead leg	R	strides	24	15	15	15	15	15	16	16	17	17	20.5	185.5			
Knoroz, Anna (RUS) (1976)	time		6.60			23.90						49.32		55.47	1 / 7		
reaction time	interval					17.30						25.42	6.15				
	velocity	6.82				8.09						6.88	6.50	7.21			
H1 lead leg	L	strides	24	16	16	16	16	16	16	17	17	18	22	194			
Smith, Susan (IRL) (1971)	time		6.50			23.45						48.91		55.61	4 / 8		
reaction time	interval					16.95						25.46	6.70				
	velocity	6.92				8.26						6.87	5.97	7.19			
H1 lead leg	R	strides	23	15	15	15	15	15	16	16	17	17	21.5	185.5			

1998 Spanish National Championships (San Sebastián, ESP)**FINAL**

date 02-Aug-98

Ruiz (1998) - campeonato des españa absoluto: análisis de la carreras con villas

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Paniagua, Eva (ESP) (1974)	time		6.74	11.30	15.86	20.52	25.40		30.36	35.58	40.96	46.51	52.24		59.00	5 / 1			
reaction time	interval			4.56	4.56	4.66	4.88		4.96	5.22	5.38	5.55	5.73	6.76			13.78	15.06	16.66
	velocity	6.68	7.68	7.68	7.51	7.17			7.06	6.70	6.51	6.31	6.11	5.92	6.78		7.62	6.97	6.30
H1 lead leg	L	strides	23	15	15	15	15		15	16	16	17	17	20.5	184.5				
Urcelay, Maite (ESP) (1972)	time		6.98	11.70	16.52	21.40	26.42		31.60	36.70	41.95	47.48	53.16		59.70	3 / 2			
reaction time	interval			4.72	4.82	4.88	5.02		5.18	5.10	5.25	5.53	5.68	6.54			14.42	15.30	16.46
	velocity	6.45	7.42	7.26	7.17	6.97			6.76	6.86	6.67	6.33	6.16	6.12	6.70		7.28	6.86	6.38
H1 lead leg	L	strides	23	16	16	16	16		17	17	17	18	18	21	195				
Alonso, Mariam (ESP) (1970)	time		6.63	11.23	15.82	20.60	25.60		30.67	35.92	41.38	47.09	52.94		60.10	6 / 3			
reaction time	interval			4.60	4.59	4.78	5.00		5.07	5.25	5.46	5.71	5.85	7.16			13.97	15.32	17.02
	velocity	6.79	7.61	7.63	7.32	7.00			6.90	6.67	6.41	6.13	5.98	5.59	6.66		7.52	6.85	6.17
H1 lead leg	L	strides	23	16	16	16	16		16	17	17	18	18	22	195				
Medina, Celia (ESP) (1977)	time		6.75	11.61	16.49	21.56	26.70		31.80	37.08	42.36	47.99	53.86		60.80	4 / 4			
reaction time	interval			4.86	4.88	5.07	5.14		5.10	5.28	5.28	5.63	5.87	6.94			14.81	15.52	16.78
	velocity	6.67	7.20	7.17	6.90	6.81			6.86	6.63	6.63	6.22	5.96	5.76	6.58		7.09	6.77	6.26
H1 lead leg	L	strides	22	16	16	17	17		17	17	17	18	18	21	196				
Pérez, Susana (ESP) (1974)	time		6.95	11.78	16.85	21.92	27.25		32.68	38.07	43.84	50.10	56.08		62.62	2 / 5			
reaction time	interval			4.83	5.07	5.07	5.33		5.43	5.39	5.77	6.26	5.98	6.54			14.97	16.15	18.01
	velocity	6.47	7.25	6.90	6.90	6.57			6.45	6.49	6.07	5.59	5.85	6.12	6.39		7.01	6.50	5.83
H1 lead leg	L	strides	23	16	17	16	17		17	17	18	19	18	20.5	198.5				
Masferrer, Cristina (ESP) (1979)	time		7.27	12.18	17.17	22.22	27.52		32.89	38.38	44.09	49.90	55.99		63.01	7 / 6			
reaction time	interval			4.91	4.99	5.05	5.30		5.37	5.49	5.71	5.81	6.09	7.02			14.95	16.16	17.61
	velocity	6.19	7.13	7.01	6.93	6.60			6.52	6.38	6.13	6.02	5.75	5.70	6.35		7.02	6.50	5.96
H1 lead leg	L	strides	24	17	17	17	17		17	18	18	18	19	23	205				
Montero, Beatriz (ESP) (1977)	time		6.84	11.76	16.88	22.17	27.70		33.17	38.89	44.70	50.64	56.74		64.54	8 / 7			
reaction time	interval			4.92	5.12	5.29	5.53		5.47	5.72	5.81	5.94	6.10	7.80			15.33	16.72	17.85
	velocity	6.58	7.11	6.84	6.62	6.33			6.40	6.12	6.02	5.89	5.74	5.13	6.20		6.85	6.28	5.88
H1 lead leg	L	strides	23	16	17	17	17		17	18	18	18	18	23.5	202.5				

1997 IAAF World Championships (Athens, GRE)

reaction time	interval	4.32	4.64	4.84	4.96	5.06	5.14	5.25	5.49	5.65	6.10	13.80	15.16	16.39		
H1 lead leg	velocity	6.73	8.10	7.54	7.23	7.06	6.92	6.81	6.67	6.38	6.19	6.56	6.88	7.61	6.93	6.41
	strides															

1996 Olympic Games (Atlanta, GA)

Behm (1996) - 400m haies

FINAL

date 31-Jul-96

McFarlane (2000) - the science of hurdling and speed

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Hemmings, Deon (JAM) (1996)	time	6.32	10.27	14.35	18.62	22.92		27.46	32.12	36.94	41.92	46.99		52.82	5 / 1			
	reaction time	0.348	interval	3.95	4.08	4.27	4.30	4.54	4.66	4.82	4.98	5.07	5.83	OR / AR		12.30	13.50	14.87
			velocity	7.12	8.86	8.58	8.20	8.14	7.71	7.51	7.26	7.03	6.90	6.86		8.54	7.78	7.06
	H1 lead leg		strides	23	15	15	15	15	15	16	16	17		162				
Batten, Kim (USA) (1969)	time	6.38	10.50	14.70	19.00	23.40		27.80	32.40	37.20	42.00	47.10		53.08	6 / 2			
	reaction time	0.283	interval	4.12	4.20	4.30	4.40	4.40	4.60	4.80	4.80	5.10	5.98			12.62	13.40	14.70
			velocity	7.05	8.50	8.33	8.14	7.95	7.95	7.61	7.29	7.29	6.86	6.69	7.54	8.32	7.84	7.14
	H1 lead leg		strides		15	15	15	15	15	15	16	17	17	140				
Buford-Bailey, Tonja (USA)	time	6.38	10.34	14.39	18.58	22.90		27.43	32.07	36.96	41.96	47.10		53.22	4 / 3			
	reaction time	0.274	interval	3.96	4.05	4.19	4.32	4.53	4.64	4.89	5.00	5.14	6.12			12.20	13.49	15.03
			velocity	7.05	8.84	8.64	8.35	8.10	7.73	7.54	7.16	7.00	6.81	6.54	7.52	8.61	7.78	6.99
	H1 lead leg		strides	23	15	15	15	15	16	16	16	16		162				
Paris, Debbie-Ann (JAM) (1996)	time	6.6	10.7	15.0	19.3	23.7		28.3	33.1	37.9	42.8	48.1		53.97	2 / 4			
	reaction time	0.217	interval	4.1	4.3	4.3	4.4	4.6	4.8	4.8	4.9	5.3	5.87	PB		12.70	13.80	15.00
			velocity	6.82	8.54	8.14	8.14	7.95	7.61	7.29	7.29	7.14	6.60	6.81	7.41	8.27	7.61	7.00
	H1 lead leg		strides	24	16	16	16	16	16	16	17	17	18	172				
Meißner, Heike (GER) (1970)	time	6.6	10.6	14.8	19.0	23.4		28.1	32.9	37.8	42.8	48.1		54.03	1 / 5			
	reaction time	0.272	interval	4.0	4.2	4.2	4.4	4.7	4.8	4.9	5.0	5.3	5.93	PB		12.40	13.90	15.20
			velocity	6.82	8.75	8.33	8.33	7.95	7.45	7.29	7.14	7.00	6.60	6.75	7.40	8.47	7.55	6.91
	H1 lead leg		strides	23	15	15	15	15	15	16	16	17	17	164				
Edeh, Rosey (CAN) (1966)	time	6.6	10.7	15.0	19.4	23.9		28.4	33.2	38.1	43.1	48.5		54.39	7 / 6			
	reaction time	0.324	interval	4.1	4.3	4.4	4.5	4.5	4.8	4.9	5.0	5.4	5.89			12.80	13.80	15.30
			velocity	6.82	8.54	8.14	7.95	7.78	7.78	7.29	7.14	7.00	6.48	6.79	7.35	8.20	7.61	6.86
	H1 lead leg		strides	22	15	15	15	15	15	15	15	17	17	161				
Tirlea, Ionela (ROU) (1976)	time	6.6	10.6	14.9	19.3	23.8		28.4	33.2	38.1	43.2	48.6		54.40	8 / 7			
	reaction time	0.343	interval	4.0	4.3	4.4	4.5	4.6	4.8	4.9	5.1	5.4	5.80	PB		12.70	13.90	15.40
			velocity	6.82	8.75	8.14	7.95	7.78	7.61	7.29	7.14	6.86	6.48	6.90	7.35	8.27	7.55	6.82
	H1 lead leg		strides	22	15	15	15	15	15	16	16	17	17	163				
Rieger, Silvia (GER) (1970)	time	6.7	10.9	15.2	19.7	24.2		28.8	33.4	38.3	43.3	48.6		54.57	3 / 8			
	reaction time	0.297	interval	4.2	4.3	4.5	4.5	4.6	4.6	4.9	5.0	5.3	5.97			13.00	13.70	15.20
			velocity	6.72	8.33	8.14	7.78	7.78	7.61	7.61	7.14	7.00	6.60	6.70	7.33	8.08	7.66	6.91
	H1 lead leg		strides	23	15	15	15	15	15	16	16	17	17	164				

1996 Tarare, FRA

FINAL

date 06-Jul-96

Veney - split times from PJ

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Renaud, Anne (FRA) (1970)	time	7.1	11.5	15.8	20.2	24.9		29.8	34.8	39.8	45.0	50.6		56.82	/ 1			
	reaction time		interval	4.4	4.3	4.4	4.7	4.9	5.0	5.0	5.2	5.6	6.22			13.10	14.60	15.80
			velocity	6.34	7.95	8.14	7.95	7.45	7.14	7.00	7.00	6.73	6.25	6.43	7.04	8.02	7.19	6.65
	H1 lead leg		strides	22	15	15	15	15	15	16	16	16	16	161				
Dherbecourt, Isabelle (FRA)	time	7.1	11.6	16.0	20.5	25.2		30.0	35.0	40.2	45.4	51.1		57.06	/ 2			
	reaction time		interval	4.5	4.4	4.5	4.7	4.8	5.0	5.2	5.2	5.7	5.96			13.40	14.50	16.10
			velocity	6.34	7.78	7.95	7.78	7.45	7.29	7.00	6.73	6.73	6.14	6.71	7.01	7.84	7.24	6.52
	H1 lead leg		strides	24	16	16	16	16	16	17	17	18	18	174				

1996 USATF National Junior Championships (Delaware, OH)

FINAL

date 29-Jun-96

USATF Women's Sprint Development (1996)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Foster, Charlynna (USA) (1996)	time	6.74	11.22	15.91	20.73	25.53		30.58	35.84	41.08	46.71	52.56		58.93	5 / 1			
	reaction time		interval	4.48	4.69	4.82	4.80	5.05	5.26	5.24	5.63	5.85	6.37	PB		13.99	15.11	16.72
			velocity	6.68	7.81	7.46	7.26	7.29	6.93	6.65	6.68	6.22	5.98	6.28	6.79	7.51	6.95	6.28
	H1 lead leg		strides															
Powell, Shontel (USA) (1979)	time	6.89	11.51	16.04	20.61	25.25		30.18	35.68	41.38	46.94	52.70		59.46	4 / 2			
	reaction time		interval	4.62	4.53	4.57	4.64	4.93	5.50	5.70	5.56	5.76	6.76			13.72	15.07	17.02
			velocity	6.53	7.58	7.73	7.66	7.54	7.10	6.36	6.14	6.29	6.08	5.92	6.73	7.65	6.97	6.17
	H1 lead leg		strides															
Dulin, Mandie (USA) (1977)	time	7.11	11.77	16.35	21.12	25.94		31.10	36.49	42.21	47.94	53.70		60.19	6 / 3			
	reaction time		interval	4.66	4.58	4.77	4.82	5.16	5.39	5.72	5.73	5.76	6.49			14.01	15.37	17.21
			velocity	6.33	7.51	7.64	7.34	7.26	6.78	6.49	6.12	6.11	6.08	6.16	6.65	7.49	6.83	6.10
	H1 lead leg		strides															

Ortiz, Yamelis (USA) (1978)	time	7.01	11.61	16.11	20.85	25.60	30.63	36.09	41.81	47.76	53.58		60.28	2 / 4			
reaction time	interval		4.60	4.50	4.74	4.75	5.03	5.46	5.72	5.95	5.82	6.70			13.84	15.24	17.49
H1 lead leg	velocity	6.42	7.61	7.78	7.38	7.37	6.96	6.41	6.12	5.88	6.01	5.97	6.64		7.59	6.89	6.00
	strides																
White, Yvette (USA) (1977)	time	7.11	11.81	16.61	21.42	26.24	31.36	36.60	42.14	47.76	53.59		60.39	7 / 5			
reaction time	interval		4.70	4.80	4.81	4.82	5.12	5.24	5.54	5.62	5.83	6.80			14.31	15.18	16.99
H1 lead leg	velocity	6.33	7.45	7.29	7.28	7.26	6.84	6.68	6.32	6.23	6.00	5.88	6.62		7.34	6.92	6.18
	strides																
Craft, Angela (USA) (1979)	time	7.27	12.14	16.98	21.73	26.52	31.66	36.94	42.34	48.07	54.06		61.31	8 / 6			
reaction time	interval		4.87	4.84	4.75	4.79	5.14	5.28	5.40	5.73	5.99	7.25			14.46	15.21	17.12
H1 lead leg	velocity	6.19	7.19	7.23	7.37	7.31	6.81	6.63	6.48	6.11	5.84	5.52	6.52		7.26	6.90	6.13
	strides																
Helberg, Amanda (USA) (1978)	time	7.27	11.96	16.57	21.28	26.11	31.30	36.91	42.71	48.70	54.92		62.17	3 / 7			
reaction time	interval		4.69	4.61	4.71	4.83	5.19	5.61	5.80	5.99	6.22	7.25			14.01	15.63	18.01
H1 lead leg	velocity	6.19	7.46	7.59	7.43	7.25	6.74	6.24	6.03	5.84	5.63	5.52	6.43		7.49	6.72	5.83
	strides																
Coleman, Ayana (USA) (1978)	time	7.04	11.73	16.48	21.33	26.29	31.35	37.05	43.08	49.16	55.44		63.74	1 / 8			
reaction time	interval		4.69	4.75	4.85	4.96	5.06	5.70	6.03	6.08	6.28	8.30			14.29	15.72	18.39
H1 lead leg	velocity	6.39	7.46	7.37	7.22	7.06	6.92	6.14	5.80	5.76	5.57	4.82	6.28		7.35	6.68	5.71
	strides																

1996 USA Olympic Trials (Atlanta, GA)

FINAL

date 16-Jun-96

USATF Women's Sprint Development (1996)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Batten, Kim (USA) (1969)	time	6.43	10.50	14.88	19.25	23.71	25.62	28.28	32.95	37.85	42.78	47.81		53.81	4 / 1			
reaction time	interval		4.07	4.38	4.37	4.46		4.57	4.67	4.90	4.93	5.03	6.00			12.82	13.70	14.86
H1 lead leg	velocity	7.00	8.60	7.99	8.01	7.85	7.81	7.66	7.49	7.14	7.10	6.96	6.67	7.43		8.19	7.66	7.07
	strides	23	15	15	15	15		15	16	16	17	17	21	185				
Buford-Bailey, Tonja (USA)	time	6.47	10.67	14.85	19.17	23.57	25.45	28.08	32.95	37.85	42.87	47.78		53.92	3 / 2			
reaction time	interval		4.20	4.18	4.32	4.40		4.51	4.87	4.90	5.02	4.91	6.14			12.70	13.78	14.83
H1 lead leg	velocity	6.96	8.33	8.37	8.10	7.95	7.86	7.76	7.19	7.14	6.97	7.13	6.51	7.42		8.27	7.62	7.08
	strides	23	15	15	15	15		15	16	17	17	17	19	184				
Farmer-Patrick, Sandra (USA)	time	6.49	10.75	15.08	19.41	23.93	25.86	28.63	33.47	38.17	43.07	48.10		54.07	5 / 3			
reaction time	interval		4.26	4.33	4.33	4.52		4.70	4.84	4.70	4.90	5.03	5.97			12.92	14.06	14.63
H1 lead leg	velocity	6.93	8.22	8.08	8.08	7.74	7.73	7.45	7.23	7.45	7.14	6.96	6.70	7.40		8.13	7.47	7.18
	strides	24	15	15	15	15		15	16	16	16	16	19	182				
Williams, Trevaia (USA) (1968)	time	6.47	10.51	14.85	19.28	23.78	25.21	28.48	33.31	38.28	43.37	48.55		54.87	7 / 4			
reaction time	interval		4.04	4.34	4.43	4.50		4.70	4.83	4.97	5.09	5.18	6.32	PB		12.81	14.03	15.24
H1 lead leg	velocity	6.96	8.66	8.06	7.90	7.78	7.93	7.45	7.25	7.04	6.88	6.76	6.33	7.29		8.20	7.48	6.89
	strides	23	15	15	15	15		15	16	16	16	16	19.5	181.5				
Buchanan, Rebecca (USA) (1970)	time	6.43	10.70	15.05	19.60	24.27	26.26	29.07	34.05	39.17	44.37	49.51		55.69	6 / 5			
reaction time	interval		4.27	4.35	4.55	4.67		4.80	4.98	5.12	5.20	5.14	6.18			13.17	14.45	15.46
H1 lead leg	velocity	7.00	8.20	8.05	7.69	7.49	7.62	7.29	7.03	6.84	6.73	6.81	6.47	7.18		7.97	7.27	6.79
	strides	23	15	15	16	16		16	16	16	17	17	20	187				
Williams, Tonya (USA) (1970)	time	6.20	10.38	14.71	19.25	23.83	25.79	28.60	33.58	38.68	44.07		55.94	1 / 6				
reaction time	interval		4.18	4.33	4.54	4.58		4.77	4.98	5.10	5.39					13.05	14.33	
H1 lead leg	velocity	7.26	8.37	8.08	7.71	7.64	7.75	7.34	7.03	6.86	6.49		7.15			8.05	7.33	
	strides	23	15	15	15	15		15	16	16	17	17	19.5	183.5				
Lee, Tonya (USA) (1969)	time	6.58	10.83	15.08	19.47	23.98	25.89	28.81	33.95	39.17				56.59	8 / 7			
reaction time	interval		4.25	4.25	4.39	4.51		4.83	5.14	5.22						12.89	14.48	
H1 lead leg	velocity	6.84	8.24	8.24	7.97	7.76	7.72	7.25	6.81	6.70				7.07		8.15	7.25	
	strides	24	16	16	16	16		17	17	17	18	18	21	196				
Jolivet, Rosa (USA) (1974)	time	6.67	10.97	15.31	19.81	24.43	26.41	29.33	34.47	39.80				57.53	2 / 8			
reaction time	interval		4.30	4.34	4.50	4.62		4.90	5.14	5.33						13.14	14.66	
H1 lead leg	velocity	6.75	8.14	8.06	7.78	7.58	7.57	7.14	6.81	6.57				6.95		7.99	7.16	
	strides	24	15	15	15	15		16	16	17	17	17	20	187				

1995 Weltklasse (Zurich, SUI)

FINAL

date 19-Aug-95

Behm (1999) - Les 4 travaux de Marie-Jo

Pérec, Marie-José (FRA) (1968)	time	6.3	10.3	14.4	18.7	23.2		27.7	32.1	36.8	42.1	47.1		53.21	6 / 2			
reaction time	interval		4.0	4.1	4.3	4.5		4.5	4.4	4.7	5.3	5.0	6.11	NR / PB		12.40	13.40	15.00
H1 lead leg	velocity	7.14	8.75	8.54	8.14	7.78		7.78	7.95	7.45	6.60	7.00	6.55	7.52		8.47	7.84	7.00
	strides	21	14	14	15	14		14	14	14	16	15	18.5	169.5				

1995 IAAF World Championships (Göteborg, SWE)

FINAL

date 11-Aug-95

Behm (1999) - Les chiffres: Les podiums de tous le championnats

Winckler/USATF (2001) - Level II: sprints, hurdles, and relays

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Batten, Kim (USA) (1969)	time						23.0							52.61	5 / 1			<i>Behm (1999)</i>
	reaction time													WR				
	interval													7.60				
	velocity					8.04												
	H1 lead leg	L	23	15	15	15	15	15	16	16	17	17	21	185				
Buford-Bailey, Tonja (USA)	time	6.47	10.50	14.60	18.77	23.07		27.47	32.17	36.97	41.94	47.00		52.62	3 / 2			<i>Winckler (2001)</i>
	reaction time							4.40	4.70	4.80	4.97	5.06	5.62	PB		12.30	13.40	14.83
	interval		4.03	4.10	4.17	4.30		4.91	5.32	5.44	5.42	5.62	7.12	7.60		8.54	7.84	7.08
	velocity	6.96	8.68	8.54	8.39	8.14		7.95	7.45	7.29	7.04	6.92	7.12	7.60				
	H1 lead leg	L	23	15	15	15	15	15	16	16	17	17	19.5	183.5				
Hemmings, Deon (JAM) (1969)	time													53.48	4 / 3			<i>Behm (1999)</i>
	reaction time													NR				
	interval													7.48				
	velocity					7.97								7.48				
	H1 lead leg	L	22	15	15	15	15	15	15	16	16	17	19.7	180.7				
Meißner, Heike (GER) (1970)														54.86	7 / 4			
														NR				
Tereshchuk-Antipova, Tetiana (UKR) (1969)														54.94	6 / 5			
														PB				
Rieger, Silva (GER) (1970)														55.01	1 / 6			
Tirlea, Ionela (ROU) (1976)														55.46	8 / 7			
Torshina-Alimzhanova, Natalya (KZK) (1969)														56.75	2 / 8			

1995 European Junior Championships (Nyiregyhaza, HUN)

Heat 3

date 28-Jul-95

Hommel (2007) - Sprinttechnik beobachten und analysieren!

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Urbansky, Ulrike (GER) (1971)	time	6.95	11.27	15.67	20.24	24.95		29.86	35.18	40.62	46.04	51.66		58.02	3 / 1			
	reaction time							4.91	5.32	5.44	5.42	5.62	6.36			13.29	14.94	16.48
	interval							7.13	6.58	6.43	6.46	6.23	6.29	6.89		7.90	7.03	6.37
	velocity	6.47	8.10	7.95	7.66	7.43		7.13	6.58	6.43	6.46	6.23	6.29	6.89				
	H1 lead leg																	

1995 Bislett Games (Oslo, NOR)

FINAL

date 21-Jul-95

Behm (1999) - Les 4 travaux de Marie-Jo

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Pérec, Marie-José (FRA) (1969)	time	6.6	10.9	15.2	19.5	23.9		28.5	33.4	38.1	43.2	48.3		53.92	1 / 1			
	reaction time							4.6	4.9	4.7	5.1	5.1	5.62	PB		12.90	13.90	14.90
	interval		4.3	4.3	4.3	4.4		7.61	7.14	7.45	6.86	6.86	7.12	7.42		8.14	7.55	7.05
	velocity	6.82	8.14	8.14	8.14	7.95		7.61	7.14	7.45	6.86	6.86	7.12	7.42				
	H1 lead leg		14	14	14	14		14	14	14	14	15	127					

1995 Gaz de France (Paris, FRA)

FINAL

date 03-Jul-95

Behm (1999) - Les 4 travaux de Marie-Jo

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Pérec, Marie-José (FRA) (1969)	time	6.3	10.6	14.8	19.3	23.8		28.4	33.2	38.2	43.3	48.7		54.48	1 / 1			
	reaction time							4.6	4.8	5.0	5.1	5.4	5.78	PB		13.00	13.90	15.50
	interval		4.3	4.2	4.5	4.5		7.61	7.29	7.00	6.86	6.48	6.92	7.34		8.08	7.55	6.77
	velocity	7.14	8.14	8.33	7.78	7.78		7.61	7.29	7.00	6.86	6.48	6.92	7.34				
	H1 lead leg		20	14	14	14		14	15	15	15	15	150					

1995 European Cup (Villeneuve d'Ascq, FRA)

FINAL

date 24-Jun-95

Behm (1999) - Les 4 travaux de Marie-Jo

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Pérec, Marie-José (FRA) (1969)	time	6.6	10.9	15.3	19.7	24.3		28.9	33.7	38.7	43.8	48.8		54.51	1 / 1			
	reaction time							4.6	4.8	5.0	5.1	5.0	5.71	PB		13.10	14.00	15.10
	interval		4.3	4.4	4.4	4.6		7.61	7.29	7.00	6.86	7.00	7.01	7.34		8.02	7.50	6.95
	velocity	6.82	8.14	7.95	7.95	7.61		7.61	7.29	7.00	6.86	7.00	7.01	7.34				
	H1 lead leg		21	14	14	14		14	15	15	15	15	151					

1994 European Championships (Helsinki, FIN)

FINAL

date 10-Aug-94

Behm (1995) - la tactique du 400 haies

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Gunnell, Sally (GBR) (1966)	time	6.5	10.7	14.8	19.2	23.6		28.1	32.7	37.5	42.5	47.5		53.33	1 / 1			
	reaction time							4.5	4.6	4.8	5.0	5.0	5.83			12.70	13.50	14.80
	interval		4.2	4.1	4.4	4.4		7.78	7.61	7.29	7.00	7.00	6.86	7.50		8.27	7.78	7.09
	velocity	6.92	8.33	8.54	7.95	7.95		7.78	7.61	7.29	7.00	7.00	6.86	7.50				
	H1 lead leg		22	15	15	15		15	16	16	17	17	163					
Rieger, Silvia (GER) (1970)	time	6.6	10.7	14.9	19.3	23.7		28.2	32.8	38.4	43.5	48.7		54.68	1 / 2			
	reaction time							4.5	4.6	5.6	5.1	5.2	5.98	PB		12.70	13.50	15.90
	interval		4.1	4.2	4.4	4.4		7.78	7.61	6.25	6.86	6.73	6.69	7.32		8.27	7.78	6.60
	velocity	6.82	8.54	8.33	7.95	7.95		7.78	7.61	6.25	6.86	6.73	6.69	7.32				
	H1 lead leg			15	15	15		15	16	17	17	17	142					
Knoroz, Anna (RUS) (1970)	time	6.6	10.8	15.0	19.4	23.7		28.1	32.5	38.0	43.1	48.5		54.68	1 / 3			
	reaction time							4.4	4.4	5.5	5.1	5.4	6.18			12.80	13.10	16.00
	interval		4.2	4.2	4.4	4.3		7.95	7.95	6.36	6.86	6.48	6.47	7.32		8.20	8.02	6.56
	velocity	6.82	8.33	8.33	7.95	8.14		7.95	7.95	6.36	6.86	6.48	6.47	7.32				
	H1 lead leg			16	16	16		16	16	17	17	18	148					
Meißner, Heike (GER) (1970)														54.79	1 / 4			
														NR				
Kurochkina, Tatyana (BLR) (1967)														55.18	1 / 5			
														NR				
Tereshchuk, Tetiana (UKR) (1969)														55.53	1 / 6			
														NR				
Nazarova, Olga (RUS) (1962)														55.98	1 / 7			
														NR				
Retchakan, Gowry (GBR) (1960)														56.05	1 / 8			
														NR				

1993 Chinese National Games (Beijing, CHN)

Wang (2016) - hurdle rhythm characteristic analysis and athletic training considerations

FINAL

date 09-Sep-93

Xu (1993) - training about Zhen Liyuan in 400m hurdles

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Han Qing (CHN) (1970)	time	6.24	10.41	14.69	18.95	23.38		28.18	32.99	37.78	42.77	47.78		53.96	1 / 1				
	reaction time	interval	4.17	4.28	4.26	4.43		4.80	4.81	4.79	4.99	5.01	6.18	AR		12.71	14.04	14.79	
		velocity	7.21	8.39	8.18	8.22	7.90		7.29	7.28	7.31	7.01	6.99	6.47	7.41		8.26	7.48	7.10
	H1 lead leg	strides	23	15	15	15	15		15	16	16	17	17		164				
Zheng Liyuan (CHN) (1974)	time	6.56	10.90	15.39	19.80	24.51		29.29	34.25	39.19	44.26	49.69		55.57	1 / 5				
	reaction time	interval	4.34	4.49	4.41	4.71		4.78	4.96	4.94	5.07	5.43	5.88			13.24	14.45	15.44	
		velocity	6.86	8.06	7.80	7.94	7.43		7.32	7.06	7.09	6.90	6.45	6.80	7.20		7.93	7.27	6.80
	H1 lead leg	strides	23	15	15	15	15		16	16	17	17	17		166				

Winckler (1994) - principles for the development of the 400m hurdles program

1993 IAAF World Championships (Stuttgart, GER)

Veney (1994) - hurdle analysis- women's 400m hurdles 1993 world championships (semis and finals)

FINAL

date 19-Aug-93

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

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Gunnell, Sally (GBR) (1966)	time	6.65	10.76	14.94	17.19	23.58		28.04	32.66	37.37	42.24	47.12		52.74	4 / 1				
	reaction time	0.284 interval	4.11	4.18	2.25	6.39		4.46	4.62	4.71	4.87	4.88	5.62	WR		10.54	15.47	14.46	
		velocity	6.77	8.52	8.37	15.56	5.48		7.85	7.58	7.43	7.19	7.17	7.12	7.58		9.96	6.79	7.26
	H1 lead leg	L strides	23	15	15	15	15		15	16	16	16	16	20.2	182.2				
Farmer-Patrick, Sandra (USA)	time	6.52	10.57	14.72	18.93	23.31		27.90	32.79	37.38	42.20	47.04		52.79	6 / 2				
	reaction time	0.300 interval	4.05	4.15	4.21	4.38		4.59	4.89	4.59	4.82	4.84	5.75	AR		12.41	13.86	14.25	
		velocity	6.90	8.64	8.43	8.31	7.99		7.63	7.16	7.63	7.26	7.23	6.96	7.58		8.46	7.58	7.37
	H1 lead leg	R strides	23	15	15	15	15		15	16	16	16	16	19.5	181.5				
Ponornaryova, Margareta (R)	time	6.52	10.59	14.85	19.24	23.65		28.12	32.72	37.43	42.40	47.52		53.48	5 / 3				
	reaction time	interval	4.07	4.26	4.39	4.41		4.47	4.60	4.71	4.97	5.12	5.96	PB		12.72	13.48	14.80	
		velocity	6.90	8.60	8.22	7.97	7.94		7.83	7.61	7.43	7.04	6.84	6.71	7.48		8.25	7.79	7.09
	H1 lead leg	R strides	22	15	15	15	15		15	15	15	16	16	19	178				
Batten, Kim (USA) (1969)	time	6.40	10.56	14.89	19.19	23.76		28.12	32.99	37.86	42.87	47.93		53.84	7 / 4				
	reaction time	interval	4.16	4.33	4.30	4.57		4.36	4.87	4.87	5.01	5.06	5.91	PB		12.79	13.80	14.94	
		velocity	7.03	8.41	8.08	8.14	7.66		8.03	7.19	7.19	6.99	6.92	6.77	7.43		8.21	7.61	7.03
	H1 lead leg	L strides	24	16	16	16	16		16	17	17	17		155					
Buford-Bailey, Tonja (USA)	time	6.64	10.67	14.89	19.24	23.71		28.44	33.24	38.31	43.42	48.66		54.55	2 / 5				
	reaction time	interval	4.03	4.22	4.35	4.47		4.73	4.80	5.07	5.11	5.24	5.89			12.60	14.00	15.42	
		velocity	6.78	8.68	8.29	8.05	7.83		7.40	7.29	6.90	6.85	6.68	6.79	7.33		8.33	7.50	6.81
	H1 lead leg	L strides	23	15	15	15	15		16	16	16	16	17		164				
Hemming, Deon (JAM) (1968)		no information available												54.99	3 / 6				
Edeh, Rosey (CAN) (1966)		no information available												55.16	1 / 7				
Torshina, Natalys (KZK) (1968)		no information available												55.78	8 / 8				

Semi-Final 3

date 17-Aug-93

Veney (1994) - hurdle analysis- women's 400m hurdles 1993 world championships (semis and finals)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Farmer-Patrick, Sandra (USA)	time	6.38	10.52	14.68	18.98	23.42		27.91	32.56	37.44	42.47	47.71		53.88	3 / 1				
	reaction time	interval	4.14	4.16	4.30	4.44		4.49	4.65	4.88	5.03	5.24	6.17			12.60	13.58	15.15	
		velocity	7.05	8.45	8.41	8.14	7.88		7.80	7.53	7.17	6.96	6.68	6.48	7.42		8.33	7.73	6.93
	H1 lead leg	R strides	23	15	15	15	15		15	16	16	16	16	19.2	181.2				
Hemmings, Deon (JAM) (1968)	time	6.36	10.52	14.71	19.09	23.54		28.03	32.75	37.84	42.93	48.13		54.12	6 / 2				
	reaction time	interval	4.16	4.19	4.38	4.45		4.49	4.72	5.09	5.09	5.20	5.99	NR		12.73	13.66	15.38	
		velocity	7.08	8.41	8.35	7.99	7.87		7.80	7.42	6.88	6.88	6.73	6.68	7.39		8.25	7.69	6.83
	H1 lead leg	L strides	22	15	15	15	15		15	15	17	17	17	19.7	182.7				
Ledovskaya, Tatyana (BLR)	time	6.30	10.32	14.64	18.81	23.19		27.74	32.60	37.67	42.93	48.32		54.60	5 / 3				
	reaction time	interval	4.02	4.32	4.17	4.38		4.55	4.86	5.07	5.26	5.39	6.28			12.51	13.79	15.72	
		velocity	7.14	8.71	8.10	8.39	7.99		7.69	7.20	6.90	6.65	6.49	6.37	7.33		8.39	7.61	6.68
	H1 lead leg	R strides	23	15	15	15	15		16	16	17	17	17	21	187				

Semi-Final 2

date 17-Aug-93

Veney (1994) - hurdle analysis- women's 400m hurdles 1993 world championships (semis and finals)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Ponornaryova, Margareta (R)	time	6.54	10.65	14.94	19.14	23.56		28.08	32.69	37.48	42.56	47.83		53.71	5 / 1				
	reaction time	interval	4.11	4.29	4.20	4.42		4.52	4.61	4.79	5.08	5.27	5.88			12.60	13.55	15.14	
		velocity	6.88	8.52	8.16	8.33	7.92		7.74	7.59	7.31	6.89	6.64	6.80	7.45		8.33	7.75	6.94
	H1 lead leg	R strides	22	15	15	15	15		15	15	15	16	16	19	178				
Batten, Kim (USA) (1969)	time	6.58	10.85	15.19	19.56	24.11		28.76	33.51	38.39	43.33	48.39		54.20	6 / 2				
	reaction time	interval	4.27	4.34	4.37	4.55		4.65	4.75	4.88	4.94	5.06	5.81			12.98	13.95	14.88	
		velocity	6.84	8.20	8.06	8.01	7.69		7.53	7.37	7.17	7.09	6.92	6.88	7.38		8.09	7.53	7.06
	H1 lead leg	L strides	24	16	16	16	16		16	17	17	17	17	20.2	192.2				
Torshina, Natalya (KAZ) (1968)	time	6.53	10.79	15.12	19.52	23.93		28.57	33.43	38.40	43.45	48.65		54.53	4 / 3				
	reaction time	interval	4.26	4.33	4.40	4.41		4.64	4.86	4.97	5.05	5.20	5.88	PB		12.99	13.91	15.22	
		velocity	6.89	8.22	8.08	7.95	7.94		7.54	7.20	7.04	6.93	6.73	6.80	7.34		8.08	7.55	6.90

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

H1 lead leg	L	strides	23	15	15	15	15	16	16	17	17	17	21	187					
Edeh, Rosey (CAN) (1966)	time		6.55	10.73	15.08	19.50	23.94	28.54	33.25	38.13	43.35	48.60		54.53	3 / 4				
	reaction time	interval		4.18	4.35	4.42	4.44	4.60	4.71	4.88	5.22	5.25	5.93			12.95	13.75	15.35	
		velocity	6.87	8.37	8.05	7.92	7.88	7.61	7.43	7.17	6.70	6.67	6.75	7.34		8.11	7.64	6.84	
H1 lead leg	L	strides	22	15	15	15	15	15	15	15	17	17	20.5	181.5					

Semi-Final 1

date 17-Aug-93

Veny (1994) - hurdle analysis- women's 400m hurdles 1993 world championships (semis and finals)

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Gunnell, Sally (GBR) (1966)	time		6.79	10.85	14.97	19.21	23.55		28.06	33.14	37.87	43.07	48.27		53.95	6 / 1			
	reaction time	interval		4.06	4.12	4.24	4.34		4.51	5.08	4.73	5.20	5.20	5.68			12.42	13.93	15.13
		velocity	6.63	8.62	8.50	8.25	8.06		7.76	6.89	7.40	6.73	6.73	7.04	7.41		8.45	7.54	6.94
H1 lead leg	L	strides	23	15	15	15	15		15	16	17	17	17	19.5	184.5				
Buford-Bailey, Tonja (USA)	time		6.83	11.06	15.39	19.79	24.32		29.03	33.75	38.66	43.60	48.81		54.38	5 / 2			
	reaction time	interval		4.23	4.33	4.40	4.53		4.71	4.72	4.91	4.94	5.21	5.57	PB		12.96	13.96	15.06
		velocity	6.59	8.27	8.08	7.95	7.73		7.43	7.42	7.13	7.09	6.72	7.18	7.36		8.10	7.52	6.97
H1 lead leg	L	strides	23	15	15	15	15		16	16	16	16	17	19.7	183.7				
Meißner, Heike (GER) (1970)	time		6.53	10.67	14.89	19.27	23.62		28.11	32.99	38.06	43.26	48.56		54.64	2 / 3			
	reaction time	interval		4.14	4.22	4.38	4.35		4.49	4.88	5.07	5.20	5.30	6.08			12.74	13.72	15.57
		velocity	6.89	8.45	8.29	7.99	8.05		7.80	7.17	6.90	6.73	6.60	6.58	7.32		8.24	7.65	6.74
H1 lead leg	R	strides	23	15	15	15	15		15	16	16	17	17	21	185				

1992 ??? (???)**FINAL**

date ???

Cui (2008) - research on the rhythm characteristics of outstanding female 400m hurdlers in China

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Leng Xueyan (CHN) (1972)	time		6.44	10.80	15.29	19.92	24.53		29.03	34.06	39.49	44.68	49.90		56.40	???			
	reaction time	interval		4.36	4.49	4.63	4.61		4.50	5.03	5.43	5.19	5.22	6.50			13.48	14.14	15.84
		velocity	6.99	8.03	7.80	7.56	7.59		7.78	6.96	6.45	6.74	6.70	6.15	7.09		7.79	7.43	6.63
H1 lead leg		strides	23	16	16	16	16		16	16	17	17	17	22.5	192.5				

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

date 05-Aug-92

Knight (1992) - 1992 Olympic report: the hurdling events

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Gunnell, Sally (GBR) (1966)	time		6.5	10.7	14.0	19.3	23.7		28.2	32.9	37.6	42.5	47.4		53.23	3 / 1			
	reaction time	interval		4.20	3.30	5.30	4.40		4.50	4.70	4.70	4.90	4.90	5.83			12.80	13.60	14.50
		velocity	6.92	8.33	10.61	6.60	7.95		7.78	7.45	7.45	7.14	7.14	6.86	7.51		8.20	7.72	7.24
H1 lead leg	L	strides	23	15	15	15	15		15	15	16	16	16	20.2	181.2				
Farmer-Patrick, Sandra (USA)	time		6.5	10.5	13.7	19.1	23.5		28.2	33.0	37.8	42.8	47.6		53.69	4 / 2			
	reaction time	interval		4.00	3.20	5.40	4.40		4.70	4.80	4.80	5.00	4.80	6.09			12.60	13.90	14.60
		velocity	6.92	8.75	10.94	6.48	7.95		7.45	7.29	7.29	7.00	7.29	6.57	7.45		8.33	7.55	7.19
H1 lead leg	R	strides	23	15	15	15	15		15	16	16	17	17	19.2	183.2				
Vickers, Janeene (USA) (1966)	time		6.4	10.5	13.8	19.2	23.6		28.1	32.8	37.6	42.6	48.0		54.31	1 / 3			
	reaction time	interval		4.10	3.30	5.40	4.40		4.50	4.70	4.80	5.00	5.40	6.31			12.80	13.60	15.20
		velocity	7.03	8.54	10.61	6.48	7.95		7.78	7.45	7.29	7.00	6.48	6.34	7.37		8.20	7.72	6.91
H1 lead leg	R	strides	23	15	15	15	15		15	15	15	16	16	19.7	179.7				
Ledovskaya, Tatyana (EUN) (1966)															54.31	8 / 4			
Ordina, Vera (EUN) (1968)															54.83	5 / 5			
Ponomaryova, Margarita (EUN) (1963)															54.83	6 / 6			
Hemings, Deon (JAM) (1968)															55.58	7 / 7			

Semi-Final 1

date 03-Aug-92

Lyle (1992) - miscellaneous coaching notes

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Gunnell, Sally (GBR) (1966)	time		5.92	10.08	14.26	18.39	22.94		27.69	32.37	37.32	42.49	47.63		53.78	4 / 1			
	reaction time	interval		4.16	4.18	4.13	4.55		4.75	4.68	4.95	5.17	5.14	6.15			12.47	13.98	15.26
		velocity	7.60	8.41	8.37	8.47	7.69		7.37	7.48	7.07	6.77	6.81	6.50	7.44		8.42	7.51	6.88
H1 lead leg	L	strides	23	15	15	15	15		15	16	16	16	17	20	183				
Vickers, Janeene (USA) (1966)	time		6.62	10.80	15.08	19.41	23.96		28.61	33.39	38.34	43.51	48.65		54.67	6 / 3			
	reaction time	interval		4.18	4.28	4.33	4.55		4.65	4.78	4.95	5.17	5.14	6.02			12.79	13.98	15.26
		velocity	6.80	8.37	8.18	8.08	7.69		7.53	7.32	7.07	6.77	6.81	6.64	7.32		8.21	7.51	6.88
H1 lead leg	R	strides	23	15	15	15	15		15	15	15	16	16	19	179				

Heat 4

date 02-Aug-92

Lyle (1992) - miscellaneous coaching notes

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Buford-Bailey, Tonja (USA)	time		6.54	10.71	14.94	19.30	23.89		28.78	33.77	38.89	44.23	49.89		56.35	2 / 3			
	reaction time	interval		4.17	4.23	4.36	4.59		4.89	4.99	5.12	5.34	5.66	6.46			12.76	14.47	16.12
		velocity	6.88	8.39	8.27	8.03	7.63		7.16	7.01	6.84	6.55	6.18	6.19	7.10		8.23	7.26	6.51
H1 lead leg		strides																	

Heat 3

date 02-Aug-92

Lyle (1992) - miscellaneous coaching notes

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Vickers, Janeene (USA) (1966)	time		6.63	10.91	15.32	19.75	24.25		28.97	33.86	38.82	43.99	49.40		55.24	4 / 1			

reaction time	interval	4.28	4.41	4.43	4.50		4.72	4.89	4.96	5.17	5.41	5.84		13.12	14.11	15.54
H1 lead leg	velocity	6.79	8.18	7.94	7.90	7.78	7.42	7.16	7.06	6.77	6.47	6.85	7.24	8.00	7.44	6.76
	strides															

Heat 2

date 02-Aug-92

Lyle (1992) - miscellaneous coaching notes

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ledovskaya, Tatyana (EUN)	time	6.30	10.64	14.89	19.17	23.63		28.18	32.98	37.95	43.24	48.82		55.03	4 / 1			
	reaction time		interval	4.34	4.25	4.28	4.46	4.55	4.80	4.97	5.29	5.58	6.21			12.87	13.81	15.84
	velocity	7.14	8.06	8.24	8.18	7.85		7.69	7.29	7.04	6.62	6.27	6.44	7.27		8.16	7.60	6.63
H1 lead leg	strides																	

Heat 1

date 02-Aug-92

Lyle (1992) - miscellaneous coaching notes

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Farmer-Patrick, Sandra (USA)	time	6.90	11.11	15.46	19.91	24.51		29.21	33.95	39.07	44.13	49.33		55.12	6 / 1			
	reaction time		interval	4.21	4.35	4.45	4.60	4.70	4.74	5.12	5.06	5.20	5.79			13.01	14.04	15.38
	velocity	6.52	8.31	8.05	7.87	7.61		7.45	7.38	6.84	6.92	6.73	6.91	7.26		8.07	7.48	6.83
H1 lead leg	strides																	

1992 U23 European Cup (Villeneuve d'Ascq, FRA)**FINAL**

date 18-Jul-92

Veney - split times from PJ

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Nelson, Carole (FRA) (1971)	time	6.75	11.10	15.59	20.17	24.93		29.70	34.45	39.37	44.67	49.99		56.61	/ 1			
	reaction time		interval	4.35	4.49	4.58	4.76	4.77	4.75	4.92	5.30	5.32	6.62			13.42	14.28	15.54
	velocity	6.67	8.05	7.80	7.64	7.35		7.34	7.37	7.11	6.60	6.58	6.04	7.07		7.82	7.35	6.76
H1 lead leg	strides	23	16	16	16	16		17	17	17	18	18	22	196				

1992 French National Championships (Narbonne, FRA)**FINAL**

date 28-Jun-92

Veney - split times from PJ

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Deniau, Lydie (FRA) (1971)	time	6.96	11.60	16.28	20.96	25.76		30.76	35.76	40.96	46.16	51.76		58.42	/ 2			
	reaction time		interval	4.64	4.68	4.68	4.80	5.00	5.00	5.20	5.20	5.60	6.66			14.00	14.80	16.00
	velocity	6.47	7.54	7.48	7.48	7.29		7.00	7.00	6.73	6.73	6.25	6.01	6.85		7.50	7.09	6.56
H1 lead leg	strides	23	15	16	16	16		17	17	17	17	18	22	194				
Robin, Sandrine (FRA)	time	7.00	11.64	16.30	21.00	25.90		31.00	36.20	41.44	46.88	52.32		58.42	/ 3			
	reaction time		interval	4.64	4.66	4.70	4.90	5.10	5.20	5.24	5.44	5.44	6.10			14.00	15.20	16.12
	velocity	6.43	7.54	7.51	7.45	7.14		6.86	6.73	6.68	6.43	6.43	6.56	6.85		7.50	6.91	6.51
H1 lead leg	strides	24	16	16	16	16		17	17	17	18	18	22	197				

1991 ??? (???)**FINAL**

date ???

Cui (2008) - research on the rhythm characteristics of outstanding female 400m hurdlers in China

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Leng Xueyan (CHN) (1972)	time	6.55	11.13	15.67	20.46	25.33		30.37	35.82	41.09	46.35	51.71		58.15	???			
	reaction time		interval	4.58	4.54	4.79	4.87	5.04	5.45	5.27	5.26	5.36	6.44			13.91	15.36	15.89
	velocity	6.87	7.64	7.71	7.31	7.19		6.94	6.42	6.64	6.65	6.53	6.21	6.88		7.55	6.84	6.61
H1 lead leg	strides	24	16	16	16	16		17	17	17	17	17	23	196				

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

date 29-Aug-91

Behm (1995) - la tactique du 400 haies

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ledovskaya, Tatyana (URS)	time	6.3	10.5	14.7	18.9	23.2		27.7	32.3	36.9	41.9	47.1		53.11	6 / 1			
	reaction time		interval	4.2	4.2	4.3		4.5	4.6	4.6	5.0	5.2		CR / NR		12.60	13.40	14.80
	velocity	7.14	8.33	8.33	8.33	8.14		7.78	7.61	7.61	7.00	6.73	6.66	7.53		8.33	7.84	7.09
H1 lead leg	R strides	22	15	15	15	15		15	15	15	16	17	20.7	180.7				
Gunnell, Sally (GBR) (1966)	time	6.4	10.7	15.0	19.1	23.5		28.0	32.6	37.3	42.1	47.2		53.16	5 / 2			
	reaction time		interval	4.3	4.3	4.1	4.4	4.5	4.6	4.7	4.8	5.1	5.96	NR		12.70	13.50	14.60
	velocity	7.03	8.14	8.14	8.54	7.95		7.78	7.61	7.45	7.29	6.86	6.71	7.52		8.27	7.78	7.19
H1 lead leg	R strides	23	15	15	15	15		15	16	16	16	17	20.5	183.5				
Vickers, Janeene (USA) (1966)	time	6.4	10.7	14.9	19.0	23.6		28.2	32.9	37.6	42.6	47.7		53.47	7 / 3			
	reaction time		interval	4.3	4.2	4.1	4.6	4.6	4.7	4.7	5.0	5.1	5.77	PB		12.60	13.90	14.80
	velocity	7.03	8.14	8.33	8.54	7.61		7.61	7.45	7.45	7.00	6.86	6.93	7.48		8.33	7.55	7.09
H1 lead leg	R strides		15	15	15	15		15	16	16	16	16	18.7	157.7				
Farmer-Patrick, Sandra (USA) (1962)														53.95	4 / 4			
Batten, Kim (USA) (1969)														53.98	8 / 5			
Protti, Anita (SUI) (1964)														54.25	3 / 6			
Meißner, Heike (GER) (1970)														55.26	1 / 7			
Khromova-Ponomaryova, Margarita (UR)														55.27	2 / 8			

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

date 29-Jun-91

Federle (2003) - <http://www.fgs.uni-halle.de>

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ponomarjowa, Margareta (UI)	time	6.71	10.78	14.99	19.35	23.77		28.25	32.86	37.63	42.81	48.40		54.42	/ 1			
	reaction time		interval	4.07	4.21	4.36	4.42	4.48	4.61	4.77	5.18	5.59	6.02			12.64	13.51	15.54
	velocity	6.71	8.60	8.31	8.03	7.92		7.81	7.59	7.34	6.76	6.26	6.64	7.35		8.31	7.77	6.76

H1 lead leg		strides																	
Gunnell, Sally (GBR) (1966)	time	6.61	10.76	15.00	19.36	23.83	28.31	33.16	38.25	43.55	48.89			54.61	/ 2				
	reaction time		4.15	4.24	4.36	4.47	4.48	4.85	5.09	5.30	5.34	5.72					12.75	13.80	15.73
	velocity	6.81	8.43	8.25	8.03	7.83	7.81	7.22	6.88	6.60	6.55	6.99	7.32				8.24	7.61	6.68
H1 lead leg		strides																	
Meißner, Heike (GER) (1970)	time	6.57	10.76	15.12	19.54	24.01	28.60	33.42	38.59	44.03	49.53			55.64	/ 3				
	reaction time		4.19	4.36	4.42	4.47	4.59	4.82	5.17	5.44	5.50	6.11					12.97	13.88	16.11
	velocity	6.85	8.35	8.03	7.92	7.83	7.63	7.26	6.77	6.43	6.36	6.55	7.19				8.10	7.56	6.52
H1 lead leg		strides																	

1990 European Championships (Split, YUG)**FINAL**

date 31-Aug-90

Behm (1995) - la tactique du 400 haies

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Ledovskaya, Tatyana (URS)	time	6.2	10.4	14.5	18.7	23.0	27.5	32.1	37.1	42.1	47.5			53.62	/ 1				
	reaction time		4.2	4.1	4.2	4.3	4.5	4.6	5.0	5.0	5.4	6.12					12.50	13.40	15.40
	velocity	7.26	8.33	8.54	8.33	8.14	7.78	7.61	7.00	7.00	6.48	6.54	7.46				8.40	7.84	6.82
H1 lead leg		strides																	
Protti, Anita (SUI) (1964)	time	6.8	11.1	15.3	19.7	24.1	28.6	33.3	38.1	43.1	48.4			54.36	/ 2				
	reaction time		4.3	4.2	4.4	4.4	4.5	4.7	4.8	5.0	5.3	5.96			PB		12.90	13.60	15.10
	velocity	6.62	8.14	8.33	7.95	7.95	7.78	7.45	7.29	7.00	6.60	6.71	7.36				8.14	7.72	6.95
H1 lead leg		strides																	
Westén, Monica (SWE) (1966)	time	6.7	10.9	15.3		24.2		33.6	38.5	43.5	48.6			54.75	/ 3				
	reaction time		4.2	4.4		8.9		9.4	4.9	5.0	5.1	6.15						15.00	
	velocity	6.72	8.33	7.95		7.87		7.45	7.14	7.00	6.86	6.50	7.31						7.00
H1 lead leg		strides																	
Abt, Gudrun (FRG) (1962)		no information available												54.97	/ 4				
Ponomaryov, Margareta (URS) (1963)		no information available												55.22	/ 5				
Gunnell, Sally (GBR) (1966)		no information available												55.45	/ 6				

1990 Résisprint International (La Chaux-de-Fond, FRA)**FINAL**

date 19-Aug-90

Veney - split times from PJ

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Cazier, Marie-Christine (FRA)	time	6.55	10.70	15.10	19.50	24.10	28.80	33.75	38.90	44.15	49.55			55.50	/ 1				
	reaction time		4.15	4.40	4.40	4.60	4.70	4.95	5.15	5.25	5.40	5.95			PB		12.95	14.25	15.80
	velocity	6.87	8.43	7.95	7.95	7.61	7.45	7.07	6.80	6.67	6.48	6.72	7.21				8.11	7.37	6.65
H1 lead leg		strides																	

1990 Asian Games Test (Beijing, CHN)**FINAL**

date 24-Jun-90

Guo (2007) - study on relationship between the rhythm and performance of 400m hurdles

Fan (1992) - implementing Chen Dongmei's four-year training plan: regularities of 400m hurdles

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Chen Juying (CHN) (1963)	time	6.56	10.82	15.19	19.71	24.30	29.02	33.87	38.89	44.05	49.28			55.12	/ 1				
	reaction time		4.26	4.37	4.52	4.59	4.72	4.85	5.02	5.16	5.23	5.84					13.15	14.16	15.41
	velocity	6.86	8.22	8.01	7.74	7.63	7.42	7.22	6.97	6.78	6.69	6.85	7.26				7.98	7.42	6.81
H1 lead leg		strides																	
Chen Dongmei (CHN) (1963)	time	6.40	10.86	15.07	19.46	23.92	28.82	33.50	38.58	43.84	49.19			55.68	/ 2				
	reaction time		4.46	4.21	4.39	4.46	4.90	4.68	5.08	5.26	5.35	6.49					13.06	14.04	15.69
	velocity	7.03	7.85	8.31	7.97	7.85	7.14	7.48	6.89	6.65	6.54	6.16	7.18				8.04	7.48	6.69
H1 lead leg		strides																	

1990 Eight Nations (Milano, ITA)**FINAL**

date 05-Jun-90

Veney - split times from PJ

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Cazier, Marie-Christine (FRA)	time	6.0	10.1	14.3	18.7	23.2	28.2	33.6	39.6	45.0	51.1			58.63	/ 7				
	reaction time		4.1	4.2	4.4	4.5	5.0	5.4	6.0	5.4	6.2	7.53					12.67	14.92	17.51
	velocity	7.50	8.58	8.27	8.03	7.71	6.97	6.53	5.83	6.53	5.69	5.31	6.82				8.29	7.04	6.00
H1 lead leg		strides																	

1989 ??? (???)**FINAL**

date ???

Fan (1992) - implementing Chen Dongmei's four-year training plan: regularities of 400m hurdles

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Chen Dongmei (CHN) (1963)	time	6.63	11.17	15.75	20.48	25.14	30.16	35.01	40.09	45.32	50.48			56.63	???				
	reaction time		4.54	4.58	4.73	4.66	5.02	4.85	5.08	5.23	5.16	6.15			NR		13.85	14.53	15.47
	velocity	6.79	7.71	7.64	7.40	7.51	6.97	7.22	6.89	6.69	6.78	6.50	7.06				7.58	7.23	6.79
H1 lead leg		strides																	

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

date 28-Sep-88

Gill (1990) - atletismo (I) carreras y marcha

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

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10			
Flintoff-King, Debbie (AUS)	time	6.53	10.69	14.93	19.30	23.71	28.26	32.93	37.68	42.64	47.68			53.17	5 / 1						
	reaction time	0.251			4.16	4.24	4.37	4.41	4.55	4.67	4.75	4.96	5.04	5.49			OR / AR		12.77	13.63	14.75
	velocity	6.89	8.41	8.25	8.01	7.94	7.81	7.69	7.49	7.37	7.06	6.94	7.29	7.52				8.22	7.70	7.12	

H1 lead leg	L	strides	23	15	15	15	15	15	15	15	16	16	16	19.7	180.7				
Ledovskaya, Tatyana (URS)	time		6.36	10.41	14.49	18.69	23.06	24.96	27.61	32.41	37.27	42.29	47.44		53.18	3 / 2	Brüggemann (1990)		
reaction time	0.245	interval	4.05	4.08	4.20	4.37			4.55	4.80	4.86	5.02	5.15	5.74	PB		12.33	13.72	15.03
		velocity	7.08	8.64	8.58	8.33	8.01	8.01	7.69	7.29	7.20	6.97	6.80	6.97	7.52		8.52	7.65	6.99
H1 lead leg	R	strides	23	15	15	15	15		16	16	16	16	17	20.2	184.2				
Fiedler, Ellen (GDR) (1958)	time		6.33	10.37	14.49	18.76	23.22		27.77	32.43	37.25	42.39	47.59		53.63	6 / 3	Gill (1990)		
reaction time	0.172	interval	4.04	4.12	4.27	4.46			4.55	4.66	4.82	5.14	5.20	6.04	PB		12.43	13.67	15.16
		velocity	7.11	8.66	8.50	8.20	7.85		7.69	7.51	7.26	6.81	6.73	6.62	7.46		8.45	7.68	6.93
H1 lead leg	R	strides	23	15	15	15	15		15	15	15	16	16	20	180				
Busch, Sabine (GDR) (1962)	time		6.61	10.68	14.86	19.18	23.62		28.19	32.79	37.56	42.57	47.76		53.89	7 / 4	Brüggemann (1990)		
reaction time	0.283	interval	4.07	4.18	4.32	4.44			4.57	4.60	4.77	5.01	5.19	6.13			12.57	13.61	14.97
		velocity	6.81	8.60	8.37	8.10	7.88		7.66	7.61	7.34	6.99	6.74	6.53	7.42		8.35	7.71	7.01
H1 lead leg	L	strides	23	15	15	15	15		15	15	15	16	16	19.4	179.4				
Gunnell, Sally (GBR) (1966)	time		6.64	10.81	15.09	19.45	23.94	25.94	28.39	33.11	38.07	43.20	48.28		54.03	2 / 5	Brüggemann (1990)		
reaction time	0.188	interval	4.17	4.28	4.36	4.49			4.45	4.72	4.96	5.13	5.08	5.75	PB		12.81	13.66	15.17
		velocity	6.78	8.39	8.18	8.03	7.80	7.71	7.87	7.42	7.06	6.82	6.89	6.96	7.40		8.20	7.69	6.92
H1 lead leg	L	strides	23	15	15	15	15		15	15	17	17	17	20.4	184.4				
Abt, Gudrun (FRG) (1962)	time		6.53	10.69	14.98	19.30	23.82		28.43	33.11	37.95	43.04	48.28		54.04	8 / 6	Brüggemann (1990)		
reaction time	0.316	interval	4.16	4.29	4.32	4.52			4.61	4.68	4.84	5.09	5.24	5.76	PB		12.77	13.81	15.17
		velocity	6.89	8.41	8.16	8.10	7.74		7.59	7.48	7.23	6.88	6.68	6.94	7.40		8.22	7.60	6.92
H1 lead leg	L	strides	23	15	15	15	15		15	15	15	16	16	19.3	179.3				
Kurochkina, Tatyana (URS)	time		6.52	10.57	14.73	19.05	23.46		27.98	32.67	37.59	42.79	48.18		54.39	1 / 7	Brüggemann (1990)		
reaction time	0.231	interval	4.05	4.16	4.32	4.41			4.52	4.69	4.92	5.20	5.39	6.21	PB		12.53	13.62	15.51
		velocity	6.90	8.64	8.41	8.10	7.94		7.74	7.46	7.11	6.73	6.49	6.44	7.35		8.38	7.71	6.77
H1 lead leg	L	strides	23	15	15	15	15		15	15	16	16	17	20.1	182.1				
Sheffield, LaTanya (USA) (1962)	time		6.44	10.53	14.73	19.09	23.74		28.55	33.37	38.31	43.44	48.88		55.32	4 / 8	Brüggemann (1990)		
reaction time	0.201	interval	4.09	4.20	4.36	4.65			4.81	4.82	4.94	5.13	5.44	6.44			12.65	14.28	15.51
		velocity	6.99	8.56	8.33	8.03	7.53		7.28	7.26	7.09	6.82	6.43	6.21	7.23		8.30	7.35	6.77
H1 lead leg	R	strides	23	15	15	15	17		17	17	17	17	17	21.2	191.2				
Semi-Final 2	date	26-Sep-88	Brüggemann (1990) - scientific research project at the games of the XXXIV Olympiad, Seoul 1988																
			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Fiedler, Ellen (GDR) (1958)	time		6.41	10.47	14.65	19.01	23.54		28.18	32.99	38.07	43.12	48.36		54.28	4 / 1			
reaction time	0.227	interval	4.06	4.18	4.36	4.53			4.64	4.81	5.08	5.05	5.24	5.92			12.60	13.98	15.37
		velocity	7.02	8.62	8.37	8.03	7.73		7.54	7.28	6.89	6.93	6.68	6.76	7.37		8.33	7.51	6.83
H1 lead leg		strides	23	15	15	15	15		15	15	16	16	16	19.4	180.4				
Kurochkina, Tatyana (URS)	time		6.61	10.75	15.04	19.37	23.90		28.46	33.23	38.23	43.36	48.68		54.46	3 / 2			
reaction time	0.261	interval	4.14	4.29	4.33	4.53			4.56	4.77	5.00	5.13	5.32	5.78	PB		12.76	13.86	15.45
		velocity	6.81	8.45	8.16	8.08	7.73		7.68	7.34	7.00	6.82	6.58	6.92	7.34		8.23	7.58	6.80
H1 lead leg		strides	23	15	15	15	15		15	15	16	16	17	19.5	181.5				
Abt, Gudrun (FRG) (1962)	time		6.51	10.67	14.94	19.30	23.76		28.45	33.27	38.30	43.40	48.70		54.52	5 / 3			
reaction time	0.346	interval	4.16	4.27	4.36	4.46			4.69	4.82	5.03	5.10	5.30	5.82	PB		12.79	13.97	15.43
		velocity	6.91	8.41	8.20	8.03	7.85		7.46	7.26	6.96	6.86	6.60	6.87	7.34		8.21	7.52	6.80
H1 lead leg		strides	23	15	15	15	15		15	15	16	16	16	19.2	180.2				
Busch, Sabine (GDR) (1962)	time		6.63	10.53	15.15	19.54	24.11		28.77	33.57	38.48	43.60	48.83		54.71	7 / 4			
reaction time	0.230	interval	3.90	4.62	4.39	4.57			4.66	4.80	4.91	5.12	5.23	5.88			12.91	14.03	15.26
		velocity	6.79	8.97	7.58	7.97	7.66		7.51	7.29	7.13	6.84	6.69	6.80	7.31		8.13	7.48	6.88
H1 lead leg		strides	23	15	15	15	15		15	15	15	16	16	19	179				
Pérez, Cristina (ESP) (1965)	time		6.51	10.72	15.07	19.52	24.12		28.89	33.81	38.80	43.97	49.29		55.23	6 / 5			
reaction time	0.258	interval	4.21	4.35	4.45	4.60			4.77	4.92	4.99	5.17	5.32	5.94	NR		13.01	14.29	15.48
		velocity	6.91	8.31	8.05	7.87	7.61		7.34	7.11	7.01	6.77	6.58	6.73	7.24		8.07	7.35	6.78
H1 lead leg		strides	23	16	16	16	16		16	17	17	17	17	20.3	191.3				
McLaughlin, Elaine (GBR) (1962)	time		6.77	11.13	15.59	20.14	24.78		29.66	34.65	39.69	44.82	50.01		55.91	2 / 6			
reaction time	0.168	interval	4.36	4.46	4.55	4.64			4.88	4.99	5.04	5.13	5.19	5.90			13.37	14.51	15.36
		velocity	6.65	8.03	7.85	7.69	7.54		7.17	7.01	6.94	6.82	6.74	6.78	7.15		7.85	7.24	6.84
H1 lead leg		strides	25	16	16	16	16		16	16	17	17	17	19.5	191.5				
Williams, Schowonda (USA) (1962)	time		6.44	10.64	14.95	19.40	24.09		28.90	33.74	38.80	44.14	49.90		56.71	8 / 7			
reaction time	0.157	interval	4.20	4.31	4.45	4.69			4.81	4.84	5.06	5.34	5.76	6.81			12.96	14.34	16.16
		velocity	6.99	8.33	8.12	7.87	7.46		7.28	7.23	6.92	6.55	6.08	5.87	7.05		8.10	7.32	6.50
H1 lead leg		strides	24	16	16	16	17		17	17	18	18	18	22.9	199.9				
Beaugeant, Chantal (FRA) (1962)	time		6.68	10.95	15.35	19.90	24.54		29.46	34.61	39.87	45.24	50.80		56.94	1 / 8			
reaction time	0.215	interval	4.27	4.40	4.55	4.64			4.92	5.15	5.26	5.37	5.56	6.14			13.22	14.71	16.19
		velocity	6.74	8.20	7.95	7.69	7.54		7.11	6.80	6.65	6.52	6.29	6.51	7.02		7.94	7.14	6.49
H1 lead leg		strides	22	15	15	15	15		16	16	16	17	17	20	184				

Semi-Final 1

date 26-Sep-88

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

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Flintoff-King, Debbie (AUS) time	6.58	10.76	15.05	19.39	23.90		28.45	33.27	38.17	43.13	48.42		54.00	4 / 1			
reaction time	0.268	interval	4.18	4.29	4.34	4.51	4.55	4.82	4.90	4.96	5.29	5.58	OR		12.81	13.88	15.15
velocity	6.84	8.37	8.16	8.06	7.76		7.69	7.26	7.14	7.06	6.62	7.17	7.41		8.20	7.56	6.93
H1 lead leg	strides	23	15	15	15	15	15	16	16	16	16	19.7	181.7				
Ledovskaya, Tatyana (URS) time	6.42	10.45	14.58	18.79	23.14		27.68	32.62	37.70	42.93	48.17		54.01	2 / 2			
reaction time	0.268	interval	4.03	4.13	4.21	4.35	4.54	4.94	5.08	5.23	5.24	5.84			12.37	13.83	15.55
velocity	7.01	8.68	8.47	8.31	8.05		7.71	7.09	6.89	6.69	6.68	6.85	7.41		8.49	7.59	6.75
H1 lead leg	strides	24	15	15	16	16	17	17	17	17	17	20.5	191.5				
Sheffield, LaTanya (USA) (1966) time	6.42	10.52	14.72	19.11	23.72		28.54	33.39	38.33	43.41	48.56		54.36	3 / 3			
reaction time	0.184	interval	4.10	4.20	4.39	4.61	4.82	4.85	4.94	5.08	5.15	5.80	PB		12.69	14.28	15.17
velocity	7.01	8.54	8.33	7.97	7.59		7.26	7.22	7.09	6.89	6.80	6.90	7.36		8.27	7.35	6.92
H1 lead leg	strides	23	15	15	15	15	16	17	17	17	17	20.8	187.8				
Gunnell, Sally (GBR) (1966) time	6.87	11.12	15.56	20.07	24.70		29.23	33.86	38.57	43.58	48.72		54.48	6 / 4			
reaction time	0.219	interval	4.25	4.44	4.51	4.63	4.53	4.63	4.71	5.01	5.14	5.76			13.20	13.79	14.86
velocity	6.55	8.24	7.88	7.76	7.56		7.73	7.56	7.43	6.99	6.81	6.94	7.34		7.95	7.61	7.07
H1 lead leg	strides	23	15	15	15	15	16	15	15	15	17	20.8	181.8				
Protti, Anita (SUI) (1964) time	6.95	11.22	15.58	20.13	24.76		29.30	33.98	38.74	43.67	48.74		54.56	5 / 5			
reaction time	interval	4.27	4.36	4.55	4.63		4.54	4.68	4.76	4.93	5.07	5.82	PB		13.18	13.85	14.76
velocity	6.47	8.20	8.03	7.69	7.56		7.71	7.48	7.35	7.10	6.90	6.87	7.33		7.97	7.58	7.11
H1 lead leg	strides	26	17	17	17	17	17	17	17	18	18	21.2	202.2				
Losch, Susanne (GDR) (1966) time	6.53	10.55	14.83	19.36	24.05		28.85	33.78	38.74	43.94	49.41		55.56	8 / 6			
reaction time	0.213	interval	4.02	4.28	4.53	4.69	4.80	4.93	4.96	5.20	5.47	6.15			12.83	14.42	15.63
velocity	6.89	8.71	8.18	7.73	7.46		7.29	7.10	7.06	6.73	6.40	6.50	7.20		8.18	7.28	6.72
H1 lead leg	strides	23	15	15	15	15	15	16	16	17	17	20	184				
Blaszak, Genowefa (POL) (1966) time	6.67	10.86	15.16	19.56	24.37		29.25	34.24	39.34	44.60	50.13		56.76	7 / 7			
reaction time	interval	4.19	4.30	4.40	4.81		4.88	4.99	5.10	5.26	5.53	6.63			12.89	14.68	15.89
velocity	6.75	8.35	8.14	7.95	7.28		7.17	7.01	6.86	6.65	6.33	6.03	7.05		8.15	7.15	6.61
H1 lead leg	strides	23	16	15	15	16	16	17	16	17	17	21.1	189.1				
Tromp, Gretha (NED) (1964) time	6.54	10.68	14.98	19.41	24.07		28.99	34.13	39.39	45.03	50.97		57.57	1 / 8			
reaction time	0.241	interval	4.14	4.30	4.43	4.66	4.92	5.14	5.26	5.64	5.94	6.60			12.87	14.72	16.84
velocity	6.88	8.45	8.14	7.90	7.51		7.11	6.81	6.65	6.21	5.89	6.06	6.95		8.16	7.13	6.24
H1 lead leg	strides	23	15	16	15	16	16	15	17	18	18	21.3	190.3				

1987 ??? (???)

FINAL

date ???

Cui (2008) - research on the rhythm characteristics of outstanding female 400m hurdlers in China

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Chen Juying (CHN) (1963) time	6.80	11.25	15.61	20.12	24.72		29.50	34.53	39.80	45.15	50.48		56.78	???			
reaction time	interval	4.45	4.36	4.51	4.60		4.78	5.03	5.27	5.35	5.33	6.30			13.32	14.41	15.95
velocity	6.62	7.87	8.03	7.76	7.61		7.32	6.96	6.64	6.54	6.57	6.35	7.04		7.88	7.29	6.58
H1 lead leg	strides	23	15	15	15	15	15	17	17	17	17	22	188				

1987 IAAF World Championships (Rome, ITA)

FINAL

date 03-Sep-87

Suřanka (1990) - time analysis of the 400m hurdles - Rome 1987 Scientific Report (2nd ed)

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Busch, Sabine (GDR) (1962) time	6.60	10.81	15.19	19.65	24.13		28.81	33.59	38.46	43.38	48.31		53.62	3 / 1			
reaction time	interval	4.21	4.38	4.46	4.48		4.68	4.78	4.87	4.92	4.93	5.31	CR		13.05	13.94	14.72
velocity	6.82	8.31	7.99	7.85	7.81		7.48	7.32	7.19	7.11	7.10	7.53	7.46		8.05	7.53	7.13
H1 lead leg	L strides	23	15	15	15	15	15	15	15	16	16	18.1	178.1				
Flintoff-King, Debbie (AUS) time	6.61	10.77	15.09	19.45	23.94		28.64	33.42	38.44	43.43	48.50		54.19	8 / 2			
reaction time	interval	4.16	4.32	4.36	4.49		4.70	4.78	5.02	4.99	5.07	5.69			12.84	13.97	15.08
velocity	6.81	8.41	8.10	8.03	7.80		7.45	7.32	6.97	7.01	6.90	7.03			8.18	7.52	6.96
H1 lead leg	L strides	23	15	15	15	15	16	16	16	16	16	19.9	182.9				
Ullrich, Cornelia (GDR) (1966) time	6.60	10.77	15.13	19.62	24.17		28.94	33.82	38.75	43.67	48.67		54.31	4 / 3			
reaction time	interval	4.17	4.36	4.49	4.55		4.77	4.88	4.93	4.92	5.00	5.64			13.02	14.20	14.85
velocity	6.82	8.39	8.03	7.80	7.69		7.34	7.17	7.10	7.11	7.00	7.09			8.06	7.39	7.07
H1 lead leg	R strides	25	15	16	16	17	17	17	17	17	17	20.2	194.2				
Farmer-Patrick, Sandra (USA) (1962)	no information available												54.38	6 / 4			
Helander-Kuusisto, Tuija (FIN) (1961)	no information available												54.62	5 / 5			
Ambraziene, Anna (URS) (1955)	no information available												55.68	1 / 6			
Williams, Schowonda (USA) (1966)	no information available												55.86	2 / 7			
Brown-King, Judi (USA) (1961)	no information available												56.10	7 / 8			

Semi-Final 2

date 01-Sep-87

Suřanka (1990) - time analysis of the 400m hurdles - Rome 1987 Scientific Report (2nd ed)

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ullrich, Cornelia (GDR) (1966) time	6.67	10.77	15.03	19.24	23.68		28.32	33.18	38.18	43.38	48.64		54.72	3 / 1			
reaction time	interval	4.10	4.26	4.21	4.44		4.64	4.86	5.00	5.20	5.26	6.08			12.57	13.94	15.46

	velocity	6.75	8.54	8.22	8.31	7.88	7.54	7.20	7.00	6.73	6.65	6.58		8.35	7.53	6.79
H1 lead leg	R strides	23	15	15	15	15	15	17	17	17	17	21.1	187.1			
Flintoff-King, Debbie (AUS)	time	6.60	10.76	14.97	19.24	23.69	28.42	33.28	38.34	43.62	49.04		55.08	8 / 2		
reaction time	interval		4.16	4.21	4.27	4.45	4.73	4.86	5.06	5.28	5.42	6.04		12.64	14.04	15.76
	velocity	6.82	8.41	8.31	8.20	7.87	7.40	7.20	6.92	6.63	6.46	6.62		8.31	7.48	6.66
H1 lead leg	L strides	23	15	15	15	15	16	16	16	17	17	19.4	184.4			

Semi-Final 1

date 01-Sep-87

Sušanka (1990) - time analysis of the 400m hurdles - Rome 1987 Scientific Report (2nd ed)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Busch, Sabine (GDR) (1962)	time	6.80	11.04	15.37	19.80	24.29	28.93	33.70	38.66	43.67	48.75	50.46		54.41	6 / 1			
reaction time	interval		4.24	4.33	4.43	4.49	4.64	4.77	4.96	5.01	5.08	5.66				13.00	13.90	15.05
	velocity	6.62	8.25	8.08	7.90	7.80	7.54	7.34	7.06	6.99	6.89	7.07	7.35			8.08	7.55	6.98
H1 lead leg	L strides	23	15	15	15	15	15	15	15	15	16	16	18.5	178.5				

Heat 5

date 31-Aug-87

Sušanka (1990) - time analysis of the 400m hurdles - Rome 1987 Scientific Report (2nd ed)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Ullrich, Cornelia (GDR) (1962)	time	6.75	10.99	15.44	20.04	24.68	29.54	34.57	39.76	45.12	50.46			56.75	/ 1			
reaction time	interval		4.24	4.45	4.60	4.64	4.86	5.03	5.19	5.36	5.34	6.29				13.29	14.53	15.89
	velocity	6.67	8.25	7.87	7.61	7.54	7.20	6.96	6.74	6.53	6.55	6.36				7.90	7.23	6.61
H1 lead leg	strides	23	15	15	15	15	17	17	17	17	17	21	189					

Heat 2

date 31-Aug-87

Sušanka (1990) - time analysis of the 400m hurdles - Rome 1987 Scientific Report (2nd ed)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Flintoff-King, Debbie (AUS)	time	6.55	10.68	14.96	19.32	23.81	28.74	33.83	39.10	44.46	49.92	49.46		56.31	/ 2			
reaction time	interval		4.13	4.28	4.36	4.49	4.93	5.09	5.27	5.36	5.46	6.39				12.77	14.51	16.09
	velocity	6.87	8.47	8.18	8.03	7.80	7.10	6.88	6.64	6.53	6.41	6.26				8.22	7.24	6.53
H1 lead leg	strides	23	15	15	15	15	16	17	17	17	17	18	20	188				

Heat 1

date 31-Aug-87

Sušanka (1990) - time analysis of the 400m hurdles - Rome 1987 Scientific Report (2nd ed)

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Busch, Sabine (GDR) (1962)	time	6.84	11.04	15.39	19.85	24.45	29.14	34.05	39.07	44.26	49.46			55.51	/ 1			
reaction time	interval		4.20	4.35	4.46	4.60	4.69	4.91	5.02	5.19	5.20	6.05				13.01	14.20	15.41
	velocity	6.58	8.33	8.05	7.85	7.61	7.46	7.13	6.97	6.74	6.73	6.61	7.21			8.07	7.39	6.81
H1 lead leg	strides	23	15	15	15	15	15	15	15	15	16	16	18.8	178.8				

1987 East German National Championship (Potsdam, GDR)**FINAL**

date 21-Aug-87

König (1989) - on the present state of development, and questions of future development, in the 400m hurdles for women

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Busch, Sabine (GDR) (1962)	time	6.57	10.66	14.94	19.28	23.75	28.33	32.94	37.68	42.65	47.67	47.67		53.24	/ 1			
reaction time	interval		4.09	4.28	4.34	4.47	4.58	4.61	4.74	4.97	5.02	5.57	NR			12.71	13.66	14.73
	velocity	6.85	8.56	8.18	8.06	7.83	7.64	7.59	7.38	7.04	6.97	7.18	7.51			8.26	7.69	7.13
H1 lead leg	strides																	

1987 French National Championship (Annecy, FRA)**FINAL**

date 09-Aug-87

Veney - split times from PJ

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Huart, H�el�ene (FRA) (1965)	time	6.54	10.86	15.28	19.85	24.45	29.16	34.04	39.09	44.25	49.52			55.55	/ 1			
reaction time	interval		4.32	4.42	4.57	4.60	4.71	4.88	5.05	5.16	5.27	6.03	PB			13.31	14.19	15.48
	velocity	6.88	8.10	7.92	7.66	7.61	7.43	7.17	6.93	6.78	6.64	6.63	7.20			7.89	7.40	6.78
H1 lead leg	strides	22	15	15	15	15	15	15	15	16	16	17	161					
Moelo, Annie (FRA) (1962)	time	6.85	11.15	15.65	20.40	25.10	30.00	35.05	40.05	45.20	50.60			57.33	/ 2			
reaction time	interval		4.30	4.50	4.75	4.70	4.90	5.05	5.00	5.15	5.40	6.73				13.55	14.65	15.55
	velocity	6.57	8.14	7.78	7.37	7.45	7.14	6.93	7.00	6.80	6.48	5.94	6.98			7.75	7.17	6.75
H1 lead leg	strides																	
Lebreton, Catherine (FRA) (1962)	time	7.10	12.00	16.70	21.55	26.60	31.70	36.85	42.00	47.30	52.60			58.68	/ 4			
reaction time	interval		4.90	4.70	4.85	5.05	5.10	5.15	5.15	5.30	5.30	6.08				14.45	15.30	15.75
	velocity	6.34	7.14	7.45	7.22	6.93	6.86	6.80	6.80	6.60	6.60	6.58	6.82			7.27	6.86	6.67
H1 lead leg	strides																	

1987 TAC National Championships (San Jose, CA)**FINAL**

date 26-Jun-87

Mann (1987) - the elite athlete program biomechanical analysis of the long hurdles: tac championship meet

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Brown, Edna (USA) (1960)	time	6.70	10.80	15.36	20.00	24.74	29.40	34.34	39.46	44.86	50.74			55.98	???			
reaction time	interval		4.10	4.56	4.64	4.74	4.66	4.94	5.12	5.40	5.88	5.24				13.30	14.34	16.40
	velocity	6.72	8.54	7.68	7.54	7.38	7.51	7.09	6.84	6.48	5.95	7.63	7.15			7.89	7.32	6.40
H1 lead leg	strides																	
Brown, Tonya (USA) (1960)	time	6.36	11.12	15.66	19.96	24.78	29.54	34.70	39.98	45.44	51.14			57.44	???			
reaction time	interval		4.76	4.54	4.30	4.82	4.76	5.16	5.28	5.46	5.70	6.30				13.60	14.74	16.44
	velocity	7.08	7.35	7.71	8.14	7.26	7.35	6.78	6.63	6.41	6.14	6.35	6.96			7.72	7.12	6.39
H1 lead leg	strides																	

1987 Meeting International de Dijon (Dijon, FRA)**FINAL**

date 13-Jun-87

Veney - split times from PJ

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Debois, Nadine (FRA) (1961) time	7.2	11.7	16.3	21.0	25.8		30.7	35.6	40.5	45.4	50.7		56.54	/ 2			
reaction time	interval	4.5	4.6	4.7	4.8		4.9	4.9	4.9	4.9	5.3	5.84			13.80	14.60	15.10
H1 lead leg	velocity	6.25	7.78	7.61	7.45	7.29	7.14	7.14	7.14	7.14	6.60	6.85	7.07		7.61	7.19	6.95
	strides																

1986 IX USSR Spartakiade (Tashkent, URS)**FINAL**

date 17-Sep-86

Stepanova (1997) - my experiences in the 400m hurdles

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Stepanova, Marina (URS) (1961) time	6.55	10.65	14.80	19.05	23.38		27.81	32.49	37.34	42.15	47.19		52.94	/ 1			
reaction time	interval	4.10	4.15	4.25	4.33		4.43	4.68	4.85	4.81	5.04	5.75	WR		12.50	13.44	14.70
H1 lead leg	velocity	6.87	8.54	8.43	8.24	8.08	7.90	7.48	7.22	7.28	6.94	6.96	7.56		8.40	7.81	7.14
	strides	22	15	15	15	15	15	15	17	17	17	17	163				

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

date 30-Aug-86

Behm (1995) - la tactique du 400 haies
Breizer (1990) - the preparation of women for the 400m hurdles

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Stepanova, Marina (URS) (1961) time	6.64	10.78	15.01	19.38	23.84		28.39	33.06	37.88	42.75	47.73		53.32	/ 1			
reaction time	interval	4.14	4.23	4.37	4.46		4.55	4.67	4.82	4.87	4.98	5.59	WR		12.74	13.68	14.67
H1 lead leg	velocity	6.78	8.45	8.27	8.01	7.85	7.69	7.49	7.26	7.19	7.03	7.16	7.50		8.24	7.68	7.16
	strides	23	15	15	15	15	15	15	17	17	17	21	185				
Busch, Sabine (GDR) (1962) time	6.56	10.72	15.06	19.42	23.90		28.47	33.11	37.93	42.76	47.76		53.60	/ 2			
reaction time	interval	4.16	4.34	4.36	4.48		4.57	4.64	4.82	4.83	5.00	5.84			12.86	13.69	14.65
H1 lead leg	velocity	6.86	8.41	8.06	8.03	7.81	7.66	7.54	7.26	7.25	7.00	6.85	7.46		8.16	7.67	7.17
	strides	22	15	15	15	15	15	15	15	15	15	19	176				
Feuerbach, Cornelia (GDR) (1962) time	6.4	10.4	14.6	18.8	23.3		28.0	32.7	37.7	42.8	48.0		54.13	/ 3			
reaction time	interval	4.0	4.2	4.2	4.5		4.7	4.7	5.0	5.1	5.2	6.13	PB		12.40	13.90	15.30
H1 lead leg	velocity	7.03	8.75	8.33	8.33	7.78	7.45	7.45	7.00	6.86	6.73	6.53	7.39		8.47	7.55	6.86
	strides	23	15	15	15	15	15	15	15	17	17	17	162				
Skoglund, Ann-Louise (SWE) (1962)	no information available												54.15	/ 4			
Blaszak, Genowefa (POL) (1957)	no information available												54.74	/ 5			
Fieldler, Ellen (GDR) (1958)	no information available												54.90	/ 6			

1986 French National Championships (Aix les Bains, FRA)**FINAL**

date 10-Aug-86

Veney - split times from PJ

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Dille, Monique (FRA) time	6.9	11.3	16.1	20.9	25.9		30.9	36.2	41.6	47.2	52.9		59.50	/ 6			
reaction time	interval	4.4	4.8	4.8	5.0		5.0	5.3	5.4	5.6	5.7	6.60			14.00	15.30	16.70
H1 lead leg	velocity	6.52	7.95	7.29	7.29	7.00	7.00	6.60	6.48	6.25	6.14	6.06	6.72		7.50	6.86	6.29
	strides																

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

date 18-Jul-86

Miskos (1986) - IAAF biomechanical research - Athens 1986 - hurdle races

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bartl, Claudia (GDR) (1968) time	6.49	10.77	15.25	19.73	24.49		29.51	34.57	40.05	45.30	50.69		56.76	/ 1			
reaction time	interval	4.28	4.48	4.48	4.76		5.02	5.06	5.48	5.25	5.39	6.07	CR		13.24	14.84	16.12
H1 lead leg	velocity	6.93	8.18	7.81	7.81	7.35	6.97	6.92	6.39	6.67	6.49	6.59	7.05		7.93	7.08	6.51
	strides	23	15	15	15	16	17	17	17	17	17	20	189				
Roberts, Kellie (USA) (1969) time	6.73	11.11	15.51	20.08	24.87		29.87	34.98	40.19	45.39	50.75		56.80	/ 2			
reaction time	interval	4.38	4.40	4.57	4.79		5.00	5.11	5.21	5.20	5.36	6.05			13.35	14.90	15.77
H1 lead leg	velocity	6.69	7.99	7.95	7.66	7.31	7.00	6.85	6.72	6.73	6.53	6.61	7.04		7.87	7.05	6.66
	strides	24	16	16	16	18	17	17	17	17	17	21	196				
Lukashevich, Svetlana (URS) (1968) time	6.75	11.13	15.72	20.29	24.98		29.91	35.58	40.93	46.47	51.95		57.92	/ 3			
reaction time	interval	4.38	4.59	4.57	4.69		4.93	5.67	5.35	5.54	5.48	5.97			13.54	15.29	16.37
H1 lead leg	velocity	6.67	7.99	7.63	7.66	7.46	7.10	6.17	6.54	6.32	6.39	6.70	6.91		7.75	6.87	6.41
	strides	23	15	15	15	15	15	15	17	17	17	21	185				
McDermid, Jill (CAN)	no information available												58.00	/ 4			
Draghia, Ana Maria (ROM) (1968)	no information available												58.74	/ 5			
Moore, Shawn (USA)	no information available												58.80	/ 6			
Georgieva, Zdravka (BUL)	no information available												60.32	/ 7			
Matyakina, Marina (URS)	no information available												61.14	/ 8			

1985 European Junior Championships (Cottbus, GDR)**FINAL**

date 25-Aug-85

Warburton (1985) - 1985 european junior championships - hurdles

	H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Bartl, Claudia (GDR) (1968) time	6.57		14.88	19.39	24.30		29.11	33.98	39.11	44.48	49.80		56.22	/ 1			
reaction time	interval		8.31	4.51	4.91		4.81	4.87	5.13	5.37	5.32	6.42			12.82	14.59	15.82
H1 lead leg	velocity	6.85	8.42	7.76	7.13		7.28	7.19	6.82	6.52	6.58	6.23	7.11		8.19	7.20	6.64
	strides																
Petkova, Zhivka (BUL) (1967) time		10.73	15.24	19.85	24.72		29.60	34.49	39.51	44.62	49.93		56.50	/ 2			

reaction time	interval		4.51	4.61	4.87		4.88	4.89	5.02	5.11	5.31	6.57	PB		14.64	15.44
H1 lead leg	velocity		7.46	7.76	7.59	7.19		7.17	7.16	6.97	6.85	6.59	7.08		7.17	6.80
	strides															

1984 Women's Friendship Games (Prague, TCH)**FINAL**

date 17-Aug-84

Stepanova (1997) - my experiences in the 400m hurdles

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Stepanova, Marina (URS) (1984)	time	6.65	10.81	15.09	19.45	23.93		28.49	33.13		42.97	48.01		53.67	1 / 1			
	reaction time		interval	4.16	4.28	4.36	4.48	4.56	4.64		9.84	5.04	5.66	PB		12.80	13.68	14.88
			velocity	6.77	8.41	8.18	8.03	7.81	7.68	7.54	7.11	6.94	7.07	7.45		8.20	7.68	7.06
	H1 lead leg		strides	22	15	15	15	15	15	17	17	17		163				

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

date 08-Aug-84

Behm (1995) - la tactique du 400 haies

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
El Moutawakel, Nawal (MAR) (1984)	time	6.4	10.6	14.8	19.1	23.7		28.3	33.2	38.2	43.4	48.6		54.61	3 / 1			
	reaction time	0.176	interval	4.2	4.2	4.3	4.6	4.6	4.9	5.0	5.2	5.2	6.01	OR PB		12.70	14.10	15.40
			velocity	7.03	8.33	8.33	8.14	7.61	7.14	7.00	6.73	6.73	6.66	7.32		8.27	7.45	6.82
	H1 lead leg		strides	17	17	17	17	17	17	18	18	19	22.5	179.5				
Brown-King, Judi (USA) (1984)	time	6.7	11.2	15.7	20.4	25.0		29.6	34.5	39.5	44.6	49.7		55.20	8 / 2			
	reaction time	0.188	interval	4.5	4.5	4.7	4.6	4.6	4.9	5.0	5.1	5.1	5.50			13.70	14.10	15.20
			velocity	6.72	7.78	7.78	7.45	7.61	7.14	7.00	6.86	6.86	7.27	7.25		7.66	7.45	6.91
	H1 lead leg		strides	21	14	14	14	14	14	15	15	15	18	168				
Cojocar, Christina (ROU) (1984)	time	6.3	10.6	15.0	19.4	24.1		28.8	33.5	38.7	44.0	49.3		55.41	2 / 3			
	reaction time	0.237	interval	4.3	4.4	4.4	4.7	4.7	4.7	5.2	5.3	5.3	6.11			13.10	14.10	15.80
			velocity	7.14	8.14	7.95	7.95	7.45	7.45	6.73	6.60	6.60	6.55	7.22		8.02	7.45	6.65
	H1 lead leg		strides	22	15	15	15	15	15	16	16	17	21	182				
Usha, P.T. (IND) (1984)	0.229	no information available												55.42	5 / 4			
Skoglund, Ann-Louise (SWE) (1984)	0.227	no information available												55.43	1 / 5			
Flintoff-King, Debbie (AUS) (1984)	0.262	no information available												56.21	6 / 6			
Helander, Tuija (FIN) (1961)	0.183	no information available												56.55	7 / 7			
Farmer-Patrick, Sandra (JAM) (1984)	0.361	no information available												57.15	4 / 8			

Semi-Final 2

date 06-Aug-84

Arnold (1984) - 1984 olympic games - hurdles

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Usha, P.T. (IND) (1984)	time	6.6	11.5	15.9	20.5	25.1	27.1	29.8	34.5	39.4	44.4	49.6		55.54	2 / 1				
	reaction time		interval	4.9	4.4	4.6	4.6	4.7	4.7	4.9	5.0	5.2	5.94	PB		13.90	14.00	15.10	
			velocity	6.82	7.14	7.95	7.61	7.61	7.38	7.45	7.14	7.00	6.73	7.20		7.55	7.50	6.95	
	H1 lead leg	L	strides	17	17	17				17	17	17	20.7	122.7					
Taylor, Gladys (GBR) (1953)	time	6.5	11.1	15.1	19.2	23.6	25.6	28.4	33.2	38.5	44.2	50.2		56.72	1 / 5				
	reaction time		interval	4.6	4.0	4.1	4.4	4.8	4.8	5.3	5.7	6.0	6.52	PB		12.70	14.00	17.00	
			velocity	6.92	7.61	8.75	8.54	7.95	7.81	7.29	7.29	6.60	6.14	5.83	6.13	7.05	8.27	7.50	6.18
	H1 lead leg	L	strides	15	15	15	15			17	19	19	21.5	136.5					

Semi-Final 1

date 06-Aug-84

Arnold (1984) - 1984 olympic games - hurdles

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Morley, Sue (GBR) (1957)	time	6.5	10.6	15.4	19.5	24.0	26.0	28.8	33.8	39.1	44.5	50.3		56.67	8 / 7				
	reaction time		interval	4.1	4.8	4.1	4.5	4.8	5.0	5.3	5.4	5.8	6.37			13.00	14.30	16.50	
			velocity	6.92	8.54	7.29	8.54	7.78	7.69	7.29	7.00	6.60	6.48	6.03	6.28	7.06	8.08	7.34	6.36
	H1 lead leg	L	strides	15	15	15	15	16	16	17				109					

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

date 21-Jul-84

Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen im olympiazzyklus 1981/84

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Khromova, Margareta (URS) (1984)	time	6.74				24.13						48.56		54.36	1 / 1			
	reaction time					17.39						24.43	5.80					
						8.05						7.16	6.90	7.36				
	H1 lead leg																	

1984 (Dresden, GDR)**FINAL**

date 19-May-84

Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdendisziplinen im olympiazzyklus 1981/84

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Uibel, Birgit (GDR) (1961)	time	6.53				23.54						48.64		54.68	1 / 1			
	reaction time					17.01						25.10	6.04	PB				
						8.23						6.97	6.62	7.32				
	H1 lead leg																	

1983 European Cup (London, GBR)**FINAL**

date 20-Aug-83

Ewen (1985) - hurdles

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Fiedler, Ellen (GDR) (1958)	time	6.4	10.6	14.9	19.3	23.7		32.9	37.7	42.8	48.0			54.20	4 / 1			
	reaction time		interval	4.20	4.30	4.40	4.40		9.20	4.80	5.10	5.20	6.20	PB		12.90	13.60	15.10
			velocity	7.03	8.33	8.14	7.95	7.95		7.61	7.29	6.86	6.73	6.45	7.38	8.14	7.72	6.95
	H1 lead leg																	

H1 lead leg	R	strides	23	15	15	15	15	15	15	15	16	16	16	20	181				
Ambraziene, Anna (URS) (1st time					15.6	19.9	24.4		28.8	33.7	38.7	43.9	48.7		54.74	2 / 2			
reaction time		interval			4.30	4.50		4.40	4.90	5.00	5.20	4.80	6.04				13.80	15.00	
		velocity			7.37	8.14	7.78	7.95	7.14	7.00	6.73	7.29	6.62	7.31			7.61	7.00	
H1 lead leg	R	strides	24	15	15	15	16	16	17	17	17	17	17	169					

1983 IAAF World Championships (Helsinki, FIN)

FINAL

date 10-Aug-83

McFarlane (1988) - The Science of Hurdling

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Fesenko-Grun, Yekaterina (U	time		6.74	11.30	15.48	19.90	24.32		28.99	33.68	38.31	43.21	48.32		54.14	5 / 1			
reaction time	interval			4.56	4.18	4.42	4.42		4.67	4.69	4.63	4.90	5.11	5.82	CR / PB		13.16	13.78	14.64
	velocity		6.68	7.68	8.37	7.92	7.92		7.49	7.46	7.56	7.14	6.85	6.87	7.39		7.98	7.62	7.17
H1 lead leg	L	strides	23	17	17	17	17		17	17	17	17	17	21.5	197.5				
Ambraziene, Anna (URS) (1st time			6.69	11.05	15.31	19.57	24.08		28.65	33.31	38.15	43.13	48.16		54.15	3 / 2			
reaction time	interval			4.36	4.26	4.26	4.51		4.57	4.66	4.84	4.98	5.03	5.99			12.88	13.74	14.85
	velocity		6.73	8.03	8.22	8.22	7.76		7.66	7.51	7.23	7.03	6.96	6.68	7.39		8.15	7.64	7.07
H1 lead leg	R	strides	24	16	16	16	16		16	16	17	17	17	20	191				
Fiedler, Ellen (GDR) (1958)	time		6.44	10.52	14.65	18.87	23.34		28.04	32.64	37.77	42.90	48.26		54.55	1 / 3			
reaction time	interval			4.08	4.13	4.22	4.47		4.70	4.60	5.13	5.13	5.36	6.29			12.43	13.77	15.62
	velocity		6.99	8.58	8.47	8.29	7.83		7.45	7.61	6.82	6.82	6.53	6.36	7.33		8.45	7.63	6.72
H1 lead leg	R	strides	23	15	15	15	15		15	15	16	16	17	21	183				
Pfaff, Petra (GDR) (1960)															54.64	7 / 4			
Krug, Petra (GDR) (1963)															54.76	8 / 5			
Skoglund, Ann-Louise (SWE) (1962)															54.80	2 / 6			
Morley, Susan (GBR) (1957)															56.04	6 / 7			
Cojocar-Matei, Cristeana (ROU) (1962)															56.26	4 / 8			

Knoke (1984) - the hurdles

Semi-Final 1

date 09-Aug-83

Lyle - miscellaneous coaching notes

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Fesenko-Grun, Yekaterina (U	time		6.70	10.90	15.40	19.98	24.57		29.36	34.21	39.17	44.38	49.48		55.99	6 / 2			Lyle
reaction time	interval			4.20	4.50	4.58	4.59		4.79	4.85	4.96	5.21	5.10	6.51			13.28	14.23	15.27
	velocity		6.72	8.33	7.78	7.64	7.63		7.31	7.22	7.06	6.72	6.86	6.14	7.14		7.91	7.38	6.88
H1 lead leg	L	strides	24	17	17	17	17		17	17	17	17	17	21	198				
Flintoff-King, Debbie (AUS)	time		6.60	11.04	15.54	20.26	25.09		29.55	35.02	40.04	45.24	50.53		56.63	3 / 5			Knoke (1984)
reaction time	interval			4.44	4.50	4.72	4.83		4.46	5.47	5.02	5.20	5.29	6.10			13.66	14.76	15.51
	velocity		6.82	7.88	7.78	7.42	7.25		7.85	6.40	6.97	6.73	6.62	6.56	7.06		7.69	7.11	6.77
H1 lead leg	L	strides	23	15	15				16	16	16	16	17	20	154				

Knoke (1984) - the hurdles

Heat 4

date 08-Aug-83

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Flintoff-King, Debbie (AUS)	time		6.81	11.22	15.80	20.54	25.42		30.09	35.02	40.04	45.23	50.59		56.47	1 / 1			
reaction time	interval			4.41	4.58	4.74	4.88		4.67	4.93	5.02	5.19	5.36	5.88	PB		13.73	14.48	15.57
	velocity		6.61	7.94	7.64	7.38	7.17		7.49	7.10	6.97	6.74	6.53	6.80	7.08		7.65	7.25	6.74
H1 lead leg		strides																	

1983 VIII USSR Spartakiade (Moscow, URS)

FINAL

date 21-Jun-83

Breizer (1985) - on the track with ekaterina fesenko

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Fesenko-Grun, Yekaterina (U	time		7.10	11.64	16.06	20.46	25.34		30.12	34.84	39.70	44.74	49.62		55.01	1 / 2			
reaction time	interval			4.54	4.42	4.40	4.88		4.78	4.72	4.86	5.04	4.88	5.39			13.36	14.38	14.78
	velocity		6.34	7.71	7.92	7.95	7.17		7.32	7.42	7.20	6.94	7.17	7.42	7.27		7.86	7.30	7.10
H1 lead leg		strides	24	17	17	17	17		17	17	17	17	17	20.5	197.5				

1982 European Championships (Athens, GRE)

FINAL

date 10-Sep-82

Behm (1995) - la tactique du 400 haies

			H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Skoglund, Ann-Louise (SWI)	time		6.6	10.9	15.3	19.7	24.2		28.7	33.3	38.0	43.2	48.4		54.58	1 / 1			
reaction time	interval			4.3	4.4	4.4	4.5		4.5	4.6	4.7	5.2	5.2	6.18	CR / PB		13.10	13.60	15.10
	velocity		6.82	8.14	7.95	7.95	7.78		7.78	7.61	7.45	6.73	6.73	6.47	7.33		8.02	7.72	6.95
H1 lead leg		strides	23	15	15	15	15		15	15	15	17	17	162					
Pfaff, Petra (GDR) (1960)	time		6.8	10.9	15.3	19.5	24.0		28.7	33.6	38.6	43.9	49.2		54.90	1 / 2			
reaction time	interval			4.1	4.4	4.2	4.5		4.7	4.9	5.0	5.3	5.3	5.70	PB		12.70	14.10	15.60
	velocity		6.62	8.54	7.95	8.33	7.78		7.45	7.14	7.00	6.60	6.60	7.02	7.29		8.27	7.45	6.73
H1 lead leg		strides	23	15	15	15	15		15	15	15	16	16	160					
Réga, Chantal (FRA) (1955)	time		6.47	10.56	14.72	18.97	23.36		27.96	32.97	38.07	43.37	48.80		54.94	1 / 3			
reaction time	interval			4.09	4.16	4.25	4.39		4.60	5.01	5.10	5.30	5.43	6.14	PB		12.50	14.00	15.83
	velocity		6.96	8.56	8.41	8.24	7.97		7.61	6.99	6.86	6.60	6.45	6.51	7.28		8.40	7.50	6.63
H1 lead leg		strides	23	15	15	15	15		15	16	16	17	17	20.7	184.7				
Kastzckaja, Anna (URS)															55.09	1 / 4			

Filipshina Yelena (URS) (1962)	no information available	55.09	/ 5
Uibel, Birgit (GDR) (1961)	no information available	55.70	/ 6
Fesenko, Ekaterina (URS) (1958)	no information available	55.86	/ 7
Blaszak, Genowefa (POL) (1957)	no information available	56.89	/ 8

Semi-Final 1

date 09-Sep-82

(1982) - XIII championnats d'Europe d'Atletisme, Athens 1982

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Réga, Chantal (FRA) (1955)	time	6.5	14.7	23.4					32.6					55.73	/ 1			
	reaction time		interval	8.2		8.7			9.2				11.1					
		velocity	6.92	8.54	8.05				7.61				6.31	7.18				
	H1 lead leg	strides																

1980 IAAF World Championships (Sittard, NED)**A FINAL**

date 16-Aug-80

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Broschat, Bärbel (GDR) (1957)	no information available													PB	54.55	7 / 1		
Neumann, Ellen (GDR) (1958)	no information available														54.56	6 / 2		
Pfaff, Petra (GDR) (1960)	no information available														55.84	8 / 3		
Appleby, Mary (IRL) (1957)	no information available														56.51	5 / 4		
Mahr, Esther (USA) (1961)	no information available														56.81	1 / 5		
Frederiksen, Hilde (NOR) (1960)	no information available														56.85	4 / 6		
Warden, Christine (GBR) (1950)	no information available													DQ	56.99	2 / 7		
Foreman, Lynette (AUS) (1957)	no information available														58.24	3 / 8 7		

1980 East German Spitzenklasse (Jena, GDR)**FINAL**

date 17-May-80

Heß (1985) - entwicklungsaspekte die leichtathletischen sprint-/hürdenisdisziplinen im olympiazzyklus 1981/84

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Roßley, Karin (GDR) (1957)	time	6.49				23.87							48.58	54.28	/ 1			
	reaction time					interval							24.71	5.70	WR			
		velocity	6.93			8.06							7.08	7.02	7.37			
	H1 lead leg	strides																

1979 AAA Women's National Championships (London, GBR)**FINAL**

date 28-Jul-79

Warden (1989) - sprinting and hurdling

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Warden, Christine (GBR) (1950)	time	6.7	11.1	15.5	20.1	24.5	26.7	29.3	34.1	39.3	44.5	49.8		56.06	/ 1			
	reaction time		interval	4.4	4.4	4.6	4.4	4.8	4.8	5.2	5.2	5.3	6.26	NR		13.40	14.00	15.70
		velocity	6.72	7.95	7.95	7.61	7.95	7.49	7.29	7.29	6.73	6.60	6.39	7.14		7.84	7.50	6.69
	H1 lead leg	strides	23	16	16	16	16	16	17	17	17	17	22	193				

1979 VII USSR Spartakiade (Moscow, URS)**FINAL**

date 27-Jul-79

Stepanova (1996) - my school

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Stepanova, Marina (URS) (1954)	time	6.92	11.33	15.91	20.51	25.18		29.91	34.69	39.55	44.46	49.38		54.78	4 / 1			
	reaction time		interval	4.41	4.58	4.60	4.67	4.73	4.78	4.86	4.91	4.92	5.40	WR		13.59	14.18	14.69
		velocity	6.50	7.94	7.64	7.61	7.49	7.40	7.32	7.20	7.13	7.11	7.41	7.30		7.73	7.40	7.15
	H1 lead leg	L	strides	23	17	17	17	17	17	17	17	17	21	197				

1978 European Championships (Prague, TCH)**FINAL**

date 02-Sep-78

Breiser (1990) - tendencies in the development of women for 400m races with hurdles

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Zelentsova, Tatyana (URS) (1954)	time	6.8	11.3	15.7	20.3	24.9	26.9	29.4	34.1	38.9	43.8	48.9		54.89	4 / 1			Breiser (1990)
	reaction time		interval	4.5	4.4	4.6	4.6	4.5	4.7	4.8	4.9	5.1	5.99	WR		13.50	13.80	14.80
		velocity	6.62	7.78	7.95	7.61	7.61	7.43	7.78	7.45	7.29	7.14	6.86	6.68	7.29	7.78	7.61	7.09
	H1 lead leg	L	strides	24	17	17	17	17	17	17	17	17	21	198				
Hollmann, Silvia (FRG) (1955)	time	6.5	10.8	15.2	19.6	24.2	26.2	28.7	33.2	38.1	43.1	48.5		55.14	6 / 2			Behm (1995)
	reaction time		interval	4.3	4.4	4.6	4.6	4.5	4.5	4.9	5.0	5.4	6.64			13.10	13.60	15.30
		velocity	6.92	8.14	7.95	7.95	7.61	7.63	7.78	7.78	7.14	7.00	6.48	6.02	7.25	8.02	7.72	6.86
	H1 lead leg	R	strides	23	15	15	15	15	15	15	16	16	17	182				Behm (1995)
Roßley, Karin (GDR) (1957)	time	6.5	10.5	14.8	19.2	23.9	25.7	28.8	33.9	39.0	44.2	49.5		55.36	1 / 3			
	reaction time		interval	4.0	4.3	4.4	4.7	4.9	5.1	5.1	5.2	5.3	5.86	NR		12.70	14.70	15.60
		velocity	6.92	8.75	8.14	7.95	7.45	7.78	7.14	6.86	6.86	6.73	6.60	6.83	7.23	8.27	7.14	6.73
	H1 lead leg	L	strides	23	15	15	15	16	16	17	17	17	21	187				
Köhn, Brigitte (GDR) (1954)	no information available													55.46	5 / 4			
Kacperczyk, Krystyna (POL) (1948)	no information available													55.55	3 / 5			
Weiß, Anita (GDR) (1955)	no information available													55.63	2 / 6			

Heat 3

date 01-Sep-78

McFarlane (1980) - understanding the 400m hurdles

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Sutherland, Liz (GBR) (1947)	time	6.9	11.5	16.1	20.9	25.7	27.7	30.5	35.5	40.6	45.7	51.6		57.60	/ 1			
	reaction time		interval	4.6	4.6	4.8	4.8	4.8	5.0	5.1	5.1	5.9	6.00			14.00	14.60	16.10
		velocity	6.52	7.61	7.61	7.29	7.29	7.22	7.29	7.00	6.86	6.86	5.93	6.67	6.94	7.50	7.19	6.52
	H1 lead leg	strides		15	15	15	15	15	16	17	17	17	17	142				

1977 European Cup (Helsinki, FIN)

FINAL

date 13-Aug-77

McFarlane (1979) - le 400 m haies feminin

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Roßley, Karin (GDR) (1957)	time	6.5	10.9	15.4	19.8	24.5	26.5	29.4	34.2	39.3	44.5	49.7		55.63	/ 1			
	reaction time		4.40	4.50	4.40	4.70		4.90	4.80	5.10	5.20	5.20	5.93	WR		13.30	14.40	15.50
		6.92	7.95	7.78	7.95	7.45	7.55	7.14	7.29	6.86	6.73	6.73	6.75	7.19		7.89	7.29	6.77
	H1 lead leg																	

1973 DLV-Test (Frankfurt-am-Main, FRG)

FINAL

date 28-Jul-73

Keydel (1973) - 400m Hürden test der frauen vom 26. bis 28.7.1973

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Weinstein, Erika (FRG) (1950)	time	6.7	11.4	16.1	21.1	26.0	28.1	31.0	36.2	41.3	46.6	52.4		58.66	/ 1			
	reaction time		4.73	4.69	4.98	4.84		5.09	5.12	5.12	5.35	5.81	6.22	NR		14.40	15.05	16.28
		6.71	7.40	7.46	7.03	7.23	7.12	6.88	6.84	6.84	6.54	6.02	6.43	6.82		7.29	6.98	6.45
	H1 lead leg													170				
		23	17	17	17	17		17	17	17	9	19						
Kovacev, Mirjana (FRG)	time	6.7	11.4	16.3	21.2	26.2	28.2	31.3	37.0	43.2	49.5	55.9		63.20	/ 2			
	reaction time		4.65	4.91	4.91	4.97		5.14	5.74	6.20	6.23	6.40	7.33			14.47	15.85	18.83
		6.70	7.53	7.13	7.13	7.04	7.09	6.81	6.10	5.65	5.62	5.47	5.46	6.33		7.26	6.62	5.58
	H1 lead leg													180				
		23	17	17	17	17		17	17	17	19	19						
Gutewort, Marlies (FRG)							29.0							62.50	/ 3			
	H1 lead leg													180				
		23	17	17	17	17		17	17	17	19	19						
Petersen, Elke (FRG) (1948)	time	7.0	11.9	16.9	21.8	26.9	29.1	32.2	38.1	43.8	49.9	55.9		62.90	/ 4			
	reaction time		4.85	5.00	4.96	5.07		5.28	5.86	5.73	6.10	5.98	7.04			14.81	16.21	17.81
		6.40	7.22	7.00	7.06	6.90	6.87	6.63	5.97	6.11	5.74	5.85	5.68	6.36		7.09	6.48	5.90
	H1 lead leg													185				
		24	17	17	17	17		18	18	19	19	19						
Horlacher, Ester (FRG)	time	7.3	12.3	17.3	22.7	28.2	30.7	34.2	40.1	46.2	52.2	58.1		65.00	/ 5			
	reaction time		4.95	5.03	5.37	5.50		6.03	5.90	6.08	6.08	5.88	6.88			15.35	17.43	18.04
		6.16	7.07	6.96	6.52	6.36	6.51	5.80	5.93	5.76	5.76	5.95	5.81	6.15		6.84	6.02	5.82
	H1 lead leg													183				
		24	17	17	17	17		17	17	19	19	19						
Ohms, Sabine (FRG) (1954)	time	6.9	12.0	17.0	22.2	27.7	30.2	33.7	39.8	46.0	52.4	59.0		66.85	/ 6			
	reaction time		5.07	4.99	5.15	5.59		5.91	6.18	6.18	6.40	6.55	7.89			15.21	17.68	19.13
		6.48	6.90	7.01	6.80	6.26	6.62	5.92	5.66	5.66	5.47	5.34	5.07	5.98		6.90	5.94	5.49
	H1 lead leg													186				
		24	17	17	17	17		19	19	18	19	19						
Heitmann, Kersten (FRG)	time	7.3	12.4	17.5	23.0	28.6	31.1	34.6	40.7	46.9	53.5			68.30	/ 7			
	reaction time		5.10	5.10	5.47	5.59		6.05	6.09	6.21	6.57					15.67	17.73	
		6.16	6.86	6.86	6.40	6.26	6.43	5.79	5.75	5.64	5.33			5.86		6.70	5.92	
	H1 lead leg													181				
		24	17	17	17	17		17	17	18	18	19						
Linz, Christine (FRG) (1940)	time	7.2	12.7	18.2	23.9	29.5	32.0	35.6	41.6	47.7	54.6	61.2		68.31	/ 8			
	reaction time		5.41	5.54	5.66	5.69		6.09	5.94	6.15	6.85	6.64	7.10			16.61	17.72	19.64
		6.22	6.47	6.32	6.18	6.15	6.25	5.75	5.89	5.69	5.11	5.27	5.63	5.86		6.32	5.93	5.35
	H1 lead leg													186				
		25	17	17	17	17		17	17	19	19	21						

1973 British International Games (Edinburgh, GBR)

FINAL

date 16-Jun-73

Ewen (1976) - 400m haies feminin

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Sykora, Maria (AUT) (1946)	time	6.6	11.0	15.4	20.4	25.5		30.8	36.3	41.5	46.7	52.5	(58.53)	58.5	/ 1			
	reaction time		4.4	4.4	5.0	5.1		5.3	5.5	5.2	5.2	5.8	6.0	WR		13.80	15.90	16.20
		6.82	7.95	7.95	7.00	6.86		6.60	6.36	6.73	6.73	6.03	6.67	6.84		7.61	6.60	6.48
	H1 lead leg																	

1971 West German Athletics - 400m Hurdles Test (Bonn, FRG)

FINAL

date 15-May-71

Keydel (1971) - die 400m hürden machten das rennen

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Dyson, Sandra (GBR) (1977)	time	6.8	11.4	16.2	21.2	26.7		32.0	37.6	43.4	49.2	54.9		61.1	/ 1			
	reaction time		4.6	4.8	5.0	5.5		5.3	5.6	5.8	5.8	5.7	6.2			14.40	16.40	17.30
		6.62	7.61	7.29	7.00	6.36		6.60	6.25	6.03	6.03	6.14	6.45	6.55		7.29	6.40	6.07
	H1 lead leg													189				
		24	17	17	17	19		19	19	19	19	19						
Ellenberger, Gisela (FRG) (1948)	time	7.4	12.6	17.7	22.8	28.0		33.7	39.8	45.6	51.3	56.9		62.0	/ 2			
	reaction time		5.2	5.1	5.1	5.2		5.7	6.1	5.8	5.7	5.6	5.1			15.40	17.00	17.10
		6.08	6.73	6.86	6.86	6.73		6.14	5.74	6.03	6.14	6.25	7.84	6.45		6.82	6.18	6.14
	H1 lead leg													187				
		24	17	17	17	17		19	19	19	19	19						
Kovacev, Mirjana (FRG)	time	7.2	12.0	17.2	22.4	27.8		33.2	39.0	44.8	50.5	56.2		62.0	/ 3			
	reaction time		4.8	5.2	5.2	5.4		5.4	5.8	5.8	5.7	5.7	5.8			15.20	16.60	17.20
		6.25	7.29	6.73	6.73	6.48		6.48	6.03	6.03	6.14	6.14	6.90	6.45		6.91	6.33	6.10
	H1 lead leg													184				
		23	17	17	17	17		17	19	19	19	19						
Beermann, Elke (FRG)	time	7.5	13.0	18.6	24.2	29.8		35.3	40.8	46.3	51.6	56.9		62.6	/ 4			
	reaction time		5.5	5.6	5.6	5.6		5.5	5.5	5.5	5.3	5.3	5.7			16.70	16.60	16.10

	velocity	6.00	6.36	6.25	6.25	6.25	6.36	6.36	6.36	6.60	6.60	7.02	6.39	6.29	6.33	6.52
H1 lead leg	strides	24	19	19	19	19	19	19	19	19	19		195			
Gerhard, Heidi (FRG) (1941)	time	7.4	12.6	17.7	22.9	28.2	33.9	39.7	45.6	51.5	57.5		65.0	/ 5		
reaction time	interval		5.2	5.1	5.2	5.3	5.7	5.8	5.9	5.9	6.0	7.5		15.50	16.80	17.80
	velocity	6.08	6.73	6.86	6.73	6.60	6.14	6.03	5.93	5.93	5.83	5.33	6.15	6.77	6.25	5.90
H1 lead leg	strides	23	17	17	17	17	19	19	19	19	19		186			
Obeck, Waltraud (FRG) (1941)	time	7.5	12.5	17.5	22.6	27.9	33.4	38.8	45.0	51.6	58.0		65.3	/ 6		
reaction time	interval		5.0	5.0	5.1	5.3	5.5	5.4	6.2	6.6	6.4	7.3		15.10	16.20	19.20
	velocity	6.00	7.00	7.00	6.86	6.60	6.36	6.48	5.65	5.30	5.47	5.48	6.13	6.95	6.48	5.47
H1 lead leg	strides	24	17	17	17	17	19	19	19	21	21		191			

1971 West German Athletics - 300m Hurdles Test (Bonn, FRG)

FINAL

date 15-May-71

Keydel (1971) - 300 ou 400 haies pour les femmes?

		H1	H2	H3	H4	H5	200m	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Schallau, Karin (FRG) (1941)	time	4.1	7.9	11.6	15.4	19.3	23.6	27.6	31.7	36.1	41.4			44.4	/ 1			
reaction time	interval		3.8	3.7	3.8	3.9	4.3	4.0	4.1	4.4	5.3	3.0				11.30	12.20	13.80
	velocity																	
H1 lead leg	strides	13	13	13	13	13	13	13	13	13	13		130					
Leuschner, Uschi (FRG)	time	4.0	7.8	11.5	15.4	19.5	23.7	28.2	32.6	37.2	41.8			44.5	/ 2			
reaction time	interval		3.8	3.7	3.9	4.1	4.2	4.5	4.4	4.6	4.6	2.7				11.40	12.80	13.60
	velocity																	
H1 lead leg	strides	13	13	13	13	13	13	15	15	15	15		138					
Gloor, Rita (FRG)	time	4.1	7.8	11.5	15.3	19.1	23.2	27.5	31.9	36.8	41.6			45.0	/ 3			
reaction time	interval		3.7	3.7	3.8	3.8	4.1	4.3	4.4	4.9	4.8	3.4				11.20	12.20	14.10
	velocity																	
H1 lead leg	strides	13	13	13	13	13	13	13	13	13	15	15		134				
Grenwald, Lydia (FRG)	time	4.3	8.1	12.1	16.2	20.2	24.3	28.6	33.3	38.1	42.8			45.7	/ 4			
reaction time	interval		3.8	4.0	4.1	4.0	4.1	4.3	4.7	4.8	4.7	2.9				11.90	12.40	14.20
	velocity																	
H1 lead leg	strides	13	13	13	13	13	13	13	15	15	15		136					
Schirme, Randi (FRG)	time	4.1	7.9	11.8	15.6	19.6	24.1	28.6	33.3	38.1	43.0			46.4	/ 5			
reaction time	interval		3.8	3.9	3.8	4.0	4.5	4.5	4.7	4.8	4.9	3.4				11.50	13.00	14.40
	velocity																	
H1 lead leg	strides	13	13	13	13	13	15	15	15	15	15		140					