

# 2022 Women's 100m Hurdles World Record Season

Tobi Amusan (NGR) - 12.12

Hurdle Touchdown Times



**ATHLETE FIRST**  
**INTERNATIONAL**  
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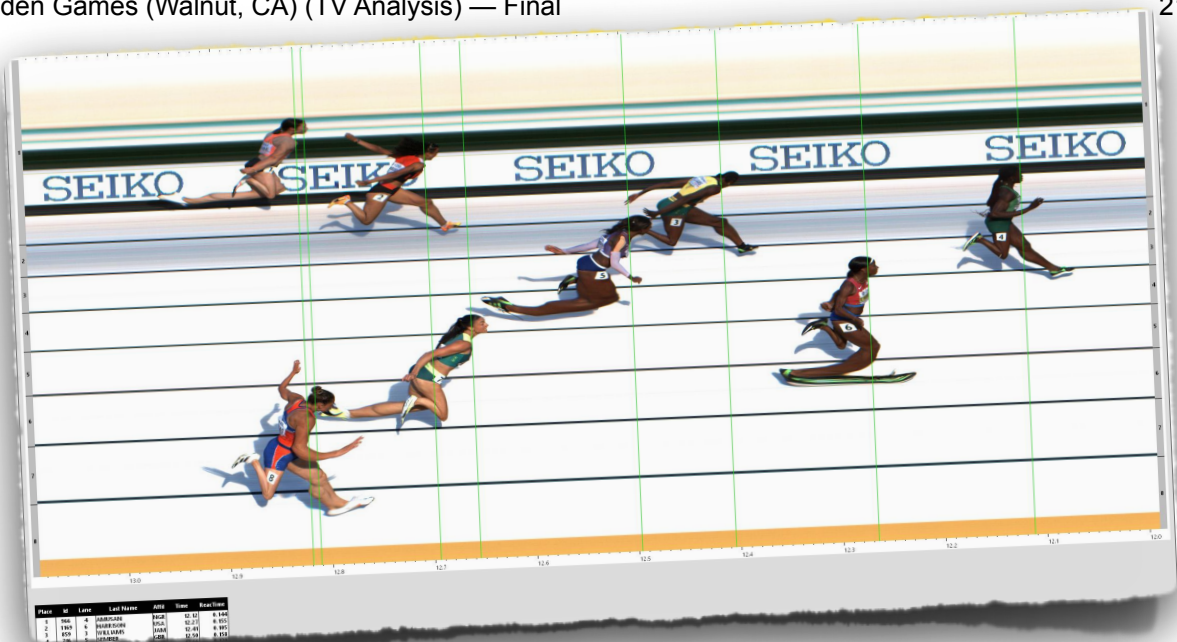
Todd Henson

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### Meetings Overview:

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### Notes:

- The times listed as TV Analysis are taken from [youtube.com](https://www.youtube.com) videos and generally coming from Television broadcasts. These are not always the best angles or coverage for getting times. They are often trying to tell a story by focusing on one athlete, and sometimes while shifting camera angles an extra frame can get added or removed.
- Where times are taken from the first movement, instead of the gun, there is at least a  $\pm 0.12$  second difference/error. This will show up from the start to the first hurdle and then from hurdle 10 to the finish. The between hurdle intervals should be fairly consistent, but there is still the usual  $\pm 0.03$  second
- Data errors, missing data, spelling mistakes, anything that need correction - please let me know. As always, I try to put together the most complete and accurate report possible.
- I have done the best I could, I hope people find it useful or at least interesting.



**2022 African Championships (St. Pierre, MRI) (TV Analysis)**

**FINAL**

	date	09-Jun-22	wind	4.0 m/s	Henson (2022) - Athlete First: 2022 Tobi Amusan world record season														
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Amusan, Tobi (NGR) (1997)	time		2.50	3.52	4.54	5.48	6.42	7.40	8.38	9.34	10.34	11.40		12.57	5 / 1				
reaction time	interval			1.02	1.02	0.94	0.94	0.98	0.98	0.96	1.00	1.06	1.17				2.98	2.90	3.02
	velocity		5.20	8.33	8.33	9.04	9.04	8.67	8.67	8.85	8.50	8.02	8.59	7.96			8.56	8.79	8.44

**Heat 2**

	date	08-Jun-22	wind	2.5 m/s	Henson (2022) - Athlete First: 2022 Tobi Amusan world record season													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Amusan, Tobi (NGR) (1997)	time													12.63	2 / 1			
reaction time	interval			No Information Available														
	velocity			No Information Available											7.92			

**2022 Irena Szewinska Memorial (Bydgoszcz, POL) (TV Analysis)**

**FINAL**

	date	03-Jun-22	wind	0.2 m/s	Henson (2022) - Athlete First: 2022 Tobi Amusan world record season														
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Amusan, Tobi (NGR) (1997)	time		2.58	3.60	4.60	5.60	6.56	7.56	8.54	9.56	10.60	11.64		12.80	6 / 2				
reaction time	interval			1.02	1.00	1.00	0.96	1.00	0.98	1.02	1.04	1.04	1.16				3.02	2.94	3.10
	velocity		5.04	8.33	8.50	8.50	8.85	8.50	8.67	8.33	8.17	8.17	8.66	7.81			8.44	8.67	8.23

**Heat 1**

	date	03-Jun-22	wind	-0.9 m/s	Henson (2022) - Athlete First: 2022 Tobi Amusan world record season													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Amusan, Tobi (NGR) (1997)	time													12.93	/ 1			
reaction time	interval			No Information Available														
	velocity			No Information Available											7.73			

**2022 Prefontaine Classic (Eugene, OR) (TV Analysis)**

**FINAL**

	date	28-May-22	wind	-0.7 m/s	Henson (2022) - Athlete First: 2022 year end hurdle report														
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Amusan, Tobi (NGR) (1997)	time		2.50	3.53	4.53	5.50	6.48	7.45	8.43	9.40	10.40	11.43		12.58	8 / 2				
reaction time	0.150	interval		1.03	1.00	0.97	0.98	0.97	0.98	0.97	1.00	1.03	1.15				3.00	2.93	3.00
	velocity		5.20	8.25	8.50	8.76	8.67	8.76	8.67	8.76	8.50	8.25	8.74	7.95			8.50	8.70	8.50

**2022 Doha Diamond League (Doha, QAT) (TV Analysis)**

**FINAL**

	date	13-May-22	wind	3.8 m/s	Henson (2022) - Athlete First: 2022 year end hurdle report														
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Amusan, Tobi (NGR) (1997)	time		2.50	3.53	4.51	5.43	6.40	7.35	8.31	9.30	10.28	11.30		12.44	6 / 2				
reaction time	0.171	interval		1.03	0.98	0.92	0.97	0.95	0.96	0.99	0.98	1.02	1.14				2.93	2.88	2.99
	velocity		5.20	8.25	8.67	9.24	8.76	8.95	8.85	8.59	8.67	8.33	8.82	8.04			8.70	8.85	8.53

**2022 Drake Relays (Des Moines, IA)**

**FINAL**

	date	30-Apr-22	wind	-0.7 m/s	Henson (2022) - Athlete First: 2022 Tobi Amusan world record season													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Amusan, Tobi (NGR) (1997)	time													13.08	3 / 7			
reaction time	interval			No Information Available														
	velocity			No Information Available											7.65			

**2022 Golden Games (Walnut, CA) (TV Analysis)**

**FINAL**

	date	16-Apr-22	wind	0.8 m/s	Henson (2022) - Athlete First: 2022 Tobi Amusan world record season														
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10	
Amusan, Tobi (NGR) (1997)	time		2.58	3.63	4.61	5.59	6.55	7.51	8.47	9.47	10.47	11.49		12.61	5 / 4				
reaction time	interval			1.05	0.98	0.98	0.96	0.96	0.96	1.00	1.00	1.02	1.12				3.01	2.88	3.02
	velocity		5.04	8.10	8.67	8.67	8.85	8.85	8.85	8.50	8.50	8.33	8.97	7.93			8.47	8.85	8.44

**Heat 1**

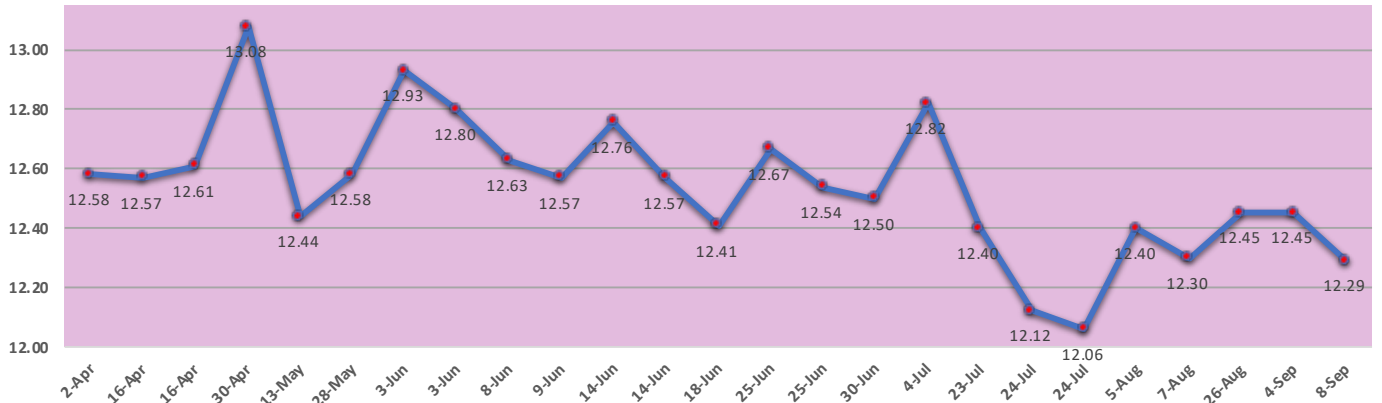
	date	16-Apr-22	wind	2.4 m/s	Henson (2022) - Athlete First: 2022 Tobi Amusan world record season													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Amusan, Tobi (NGR) (1997)	time													12.57	5 / 2			
reaction time	0.200	interval		No Information Available														
	velocity			No Information Available											7.96			

**2022 TTU Masked Rider Open (Lubbock, TX)**

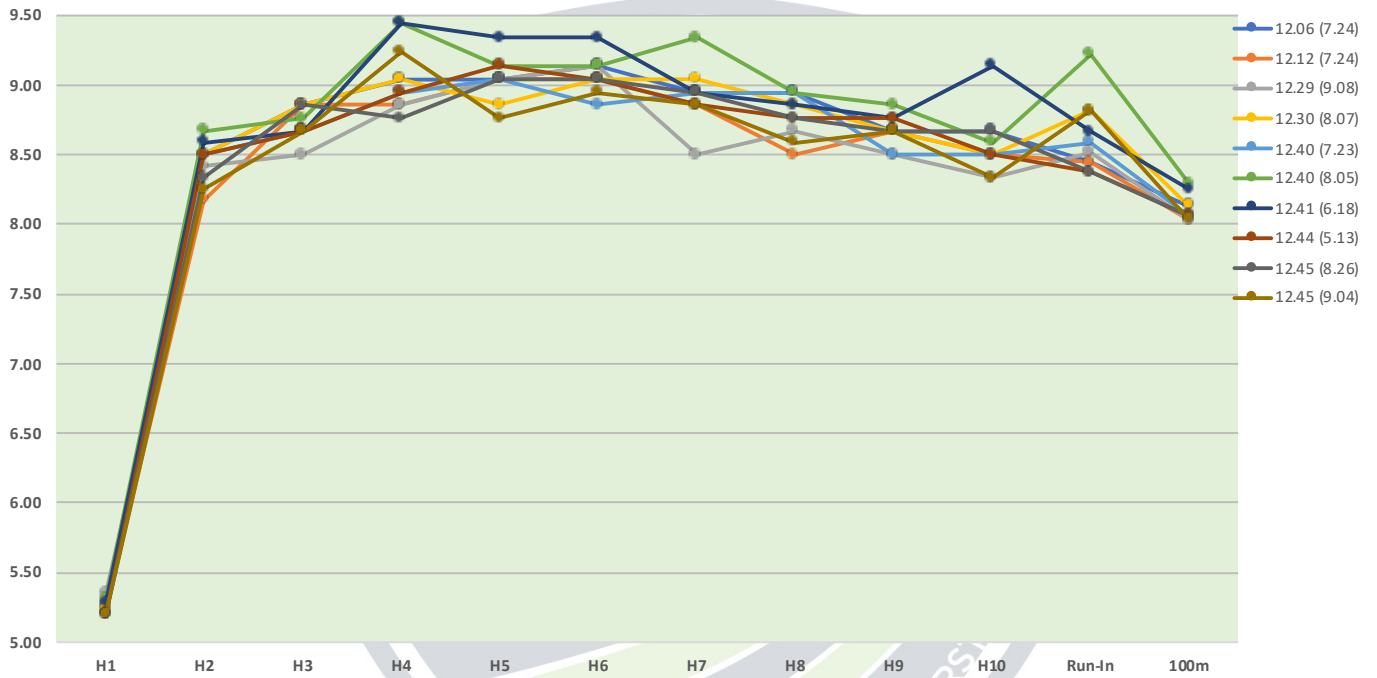
**FINAL**

	date	02-Apr-22	wind	2.6 m/s	Henson (2022) - Athlete First: 2022 Tobi Amusan world record season													
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	Official Time	Lane / Place	H1-H4	H4-H7	H7-H10
Amusan, Tobi (NGR) (1997)	time													12.58	/ 1			
reaction time	interval			No Information Available														
	velocity			No Information Available											7.95			

**Tobi Amusan 2022**

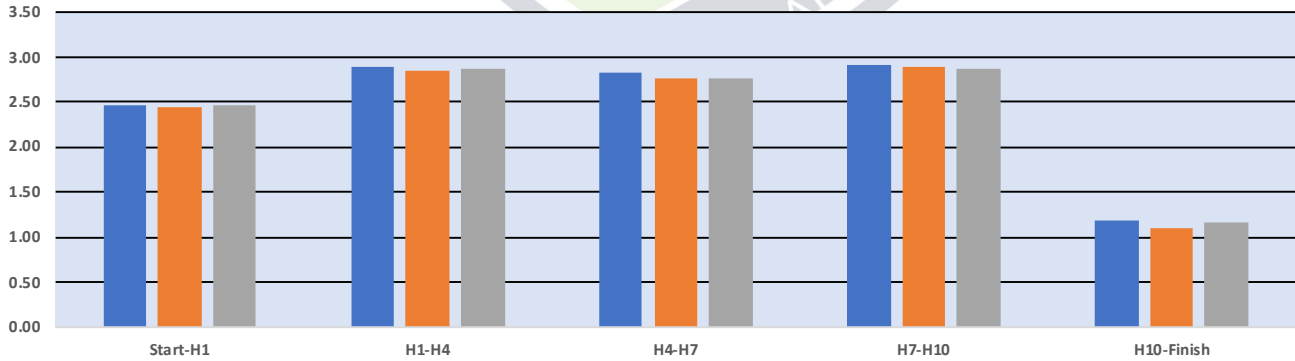


### Hurdle Rhythmic Units (Top 10 times)



Time Intervals (s)

### Hurdle Phases



2022 Weltklasse (Zürich, SUI) (TV Analysis)

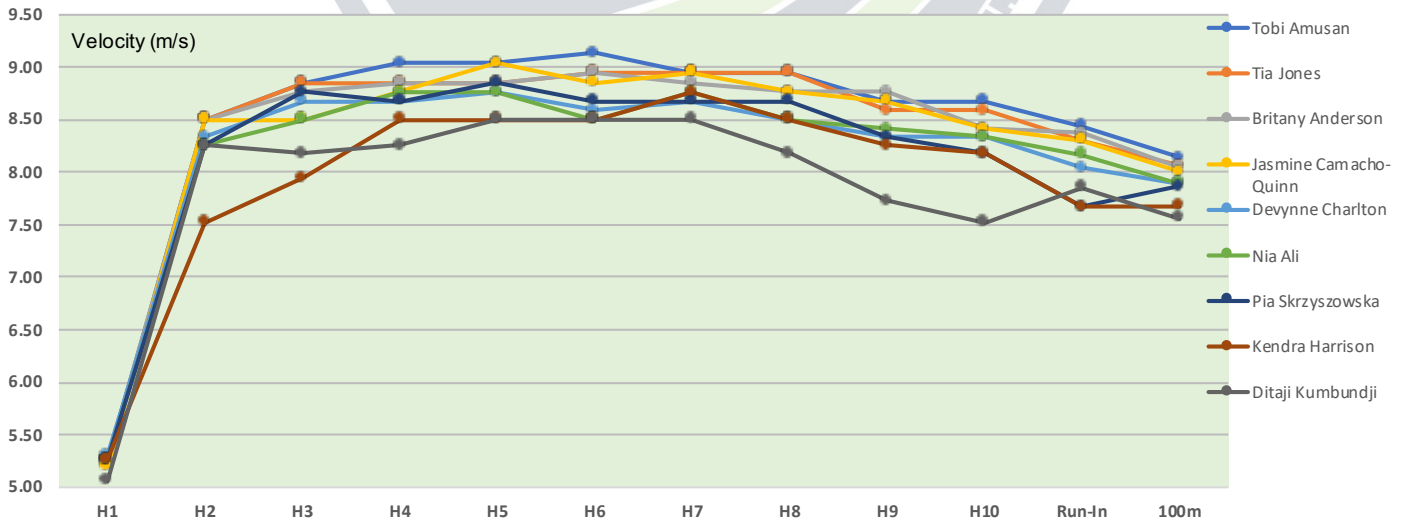
100m Hurdles

Date: 2022.09.08

Wind: -0.3 m/s

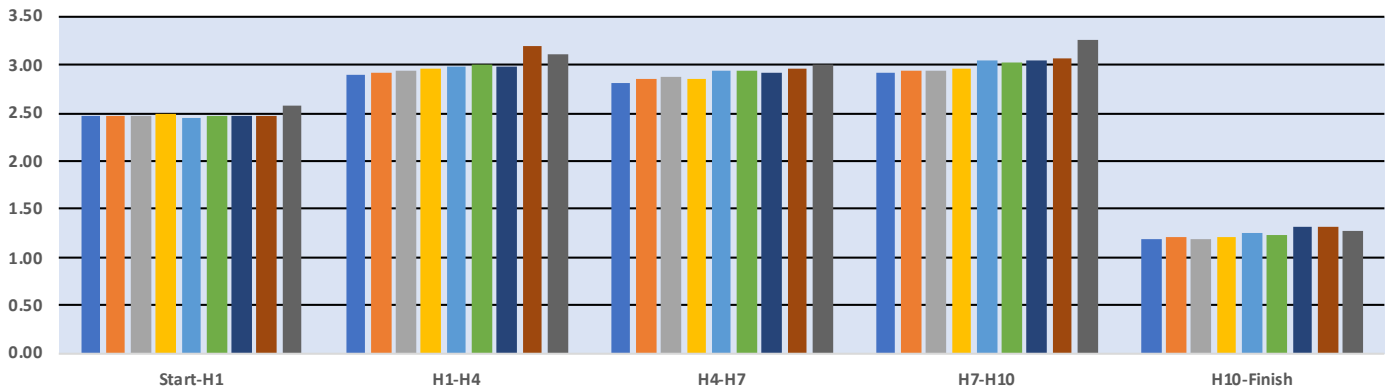
FINAL

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	100m	Lane/Place	H1-H4	H4-H7	H7-H10
<b>Amusan, Tobi (NGR) (1997)</b>	time	2.47	3.47	4.43	5.37	6.31	7.24	8.19	9.14	10.12	11.10		12.29	4 / 1			
	reaction time	0.163													2.90	2.82	2.91
	interval		1.00	0.96	0.94	0.94	0.93	0.95	0.95	0.98	0.98	1.19			8.79	9.04	8.76
	velocity	5.26	8.50	8.85	9.04	9.04	9.14	8.95	8.95	8.67	8.67	8.45	8.14				
<b>Jones, Tia (USA) (2000)</b>	time	2.48	3.48	4.44	5.40	6.36	7.31	8.26	9.21	10.20	11.19		12.40	8 / 2			
	reaction time	0.173													2.92	2.86	2.93
	interval		1.00	0.96	0.96	0.96	0.95	0.95	0.95	0.99	0.99	1.21			8.73	8.92	8.70
	velocity	5.24	8.50	8.85	8.85	8.85	8.95	8.95	8.95	8.59	8.59	8.31	8.06				
<b>Anderson, Britany (JAM) (2001)</b>	time	2.47	3.47	4.44	5.40	6.36	7.31	8.27	9.24	10.21	11.22		12.42	6 / 3			
	reaction time	0.166													2.93	2.87	2.95
	interval		1.00	0.97	0.96	0.96	0.95	0.96	0.97	0.97	1.01	1.20			8.70	8.89	8.64
	velocity	5.26	8.50	8.76	8.85	8.85	8.95	8.85	8.76	8.76	8.42	8.38	8.05				
<b>Camacho-Quinn, Jasmine (PUR) (199)</b>	time	2.50	3.50	4.50	5.47	6.41	7.37	8.32	9.29	10.27	11.28		12.49	5 / 4			
	reaction time	0.186													2.97	2.85	2.96
	interval		1.00	1.00	0.97	0.94	0.96	0.95	0.97	0.98	1.01	1.21			8.59	8.95	8.61
	velocity	5.20	8.50	8.50	8.76	9.04	8.85	8.95	8.76	8.67	8.42	8.31	8.01				
<b>Charlton, Devynne (BAH) (1995)</b>	time	2.45	3.47	4.45	5.43	6.40	7.39	8.37	9.37	10.39	11.41		12.66	2 / 5			
	reaction time	0.147													2.98	2.94	3.04
	interval		1.02	0.98	0.98	0.97	0.99	0.98	1.00	1.02	1.02	1.25			8.56	8.67	8.39
	velocity	5.31	8.33	8.67	8.67	8.76	8.59	8.67	8.50	8.33	8.33	8.04	7.90				
<b>Ali, Nia (USA) (1988)</b>	time	2.47	3.50	4.50	5.47	6.44	7.44	8.41	9.41	10.42	11.44		12.67	3 / 6			
	reaction time	0.163													3.00	2.94	3.03
	interval		1.03	1.00	0.97	0.97	1.00	0.97	1.00	1.01	1.02	1.23			8.50	8.67	8.42
	velocity	5.26	8.25	8.50	8.76	8.76	8.50	8.76	8.50	8.42	8.33	8.17	7.89				
<b>Skrzyszowska, Pia (POL) (2001)</b>	time	2.47	3.50	4.47	5.45	6.41	7.39	8.37	9.35	10.37	11.41		12.72	9 / 7			
	reaction time	0.162													2.98	2.92	3.04
	interval		1.03	0.97	0.98	0.96	0.98	0.98	0.98	1.02	1.04	1.31			8.56	8.73	8.39
	velocity	5.26	8.25	8.76	8.67	8.85	8.67	8.67	8.67	8.33	8.17	7.67	7.86				
<b>Harrison, Kendra (USA) (1992)</b>	time	2.47	3.60	4.67	5.67	6.67	7.67	8.64	9.64	10.67	11.71		13.02	7 / 8			
	reaction time	0.163													3.20	2.97	3.07
	interval		1.13	1.07	1.00	1.00	1.00	0.97	1.00	1.03	1.04	1.31			7.97	8.59	8.31
	velocity	5.26	7.52	7.94	8.50	8.50	8.50	8.76	8.50	8.25	8.17	7.67	7.68				
<b>Kambundji, Ditaji (SUI) (2002)</b>	time	2.57	3.60	4.64	5.67	6.67	7.67	8.67	9.71	10.81	11.94		13.22	1 / 9			
	reaction time	0.161													3.10	3.00	3.27
	interval		1.03	1.04	1.03	1.00	1.00	1.00	1.04	1.10	1.13	1.28			8.23	8.50	7.80
	velocity	5.06	8.25	8.17	8.25	8.50	8.50	8.50	8.17	7.73	7.52	7.56					



Time Intervals (s)

Hurdle Phases



Evaluated with: ObjectusVideo  
 Quality & Frame Rate: 1920 x 1080 @ 30fps  
 Timing From: First Movement  
 Source: <https://www.youtube.com/watch?v=EzJKodw5GFU&t=9s>

2022 ISTAF (Berlin, GER) (TV Analysis)

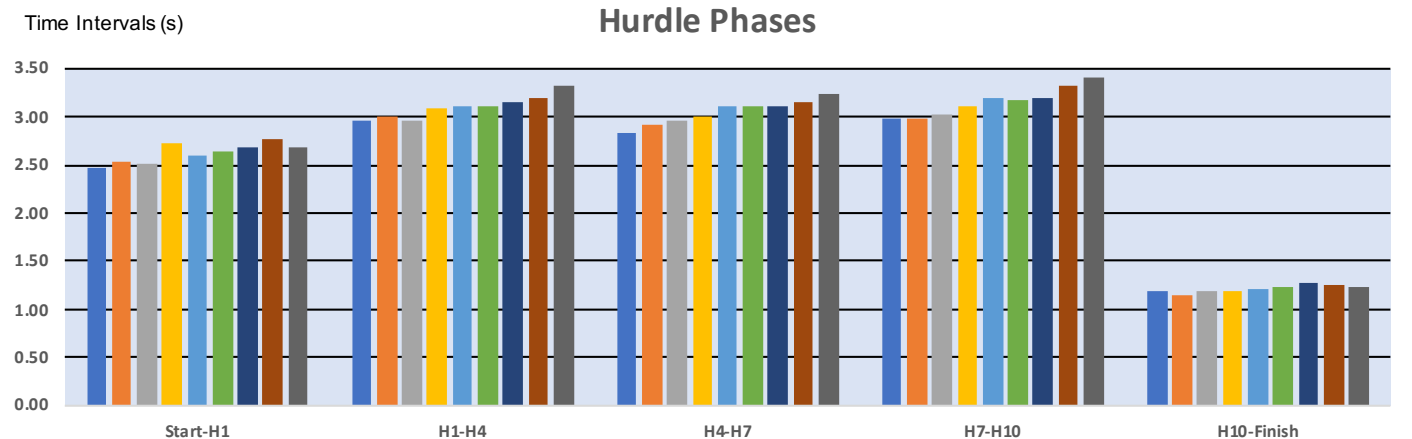
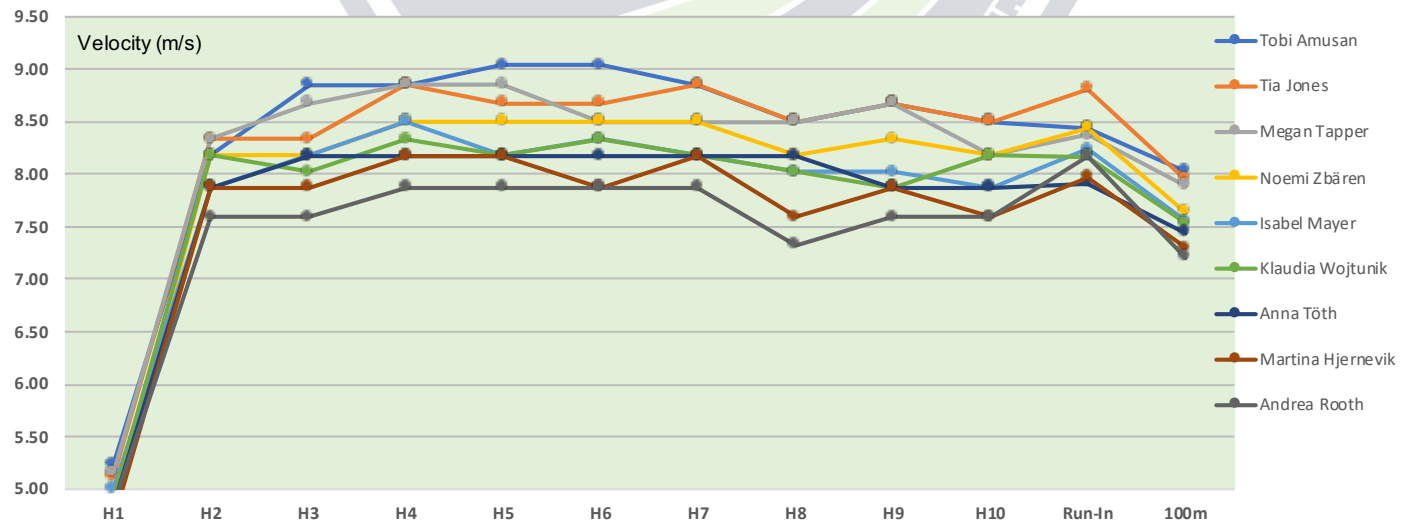
100m Hurdles

Date: 2022.09.04

Wind: -0.3 m/s

FINAL

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	100m	Lane/Place	H1-H4	H4-H7	H7-H10
<b>Amusan, Tobi (NGR) (1997)</b>	time	2.48	3.52	4.48	5.44	6.38	7.32	8.28	9.28	10.26	11.26		12.45	4 / 1			
	reaction time	0.133													2.96	2.84	2.98
	interval velocity		1.04	0.96	0.96	0.94	0.94	0.96	1.00	0.98	1.00	1.19			8.61	8.98	8.56
	velocity	5.24	8.17	8.85	8.85	9.04	9.04	8.85	8.50	8.67	8.50	8.45	8.03				
<b>Jones, Tia (USA) (2000)</b>	time	2.54	3.56	4.58	5.54	6.52	7.50	8.46	9.46	10.44	11.44		12.58	5 / 2			
	reaction time	0.151													3.00	2.92	2.98
	interval velocity		1.02	1.02	0.96	0.98	0.98	0.96	1.00	0.98	1.00	1.14			8.50	8.73	8.56
	velocity	5.12	8.33	8.33	8.85	8.67	8.67	8.85	8.50	8.67	8.50	8.82	7.95				
<b>Tapper, Megan (JAM) (1994)</b>	time	2.52	3.54	4.52	5.48	6.44	7.44	8.44	9.44	10.42	11.46		12.66	6 / 3			
	reaction time	0.146													2.96	2.96	3.02
	interval velocity		1.02	0.98	0.96	0.96	1.00	1.00	1.00	0.98	1.04	1.20			8.61	8.61	8.44
	velocity	5.16	8.33	8.67	8.85	8.85	8.50	8.50	8.50	8.67	8.17	8.38	7.90				
<b>Zbären, Noemi (SUI) (1994)</b>	time	2.72	3.76	4.80	5.80	6.80	7.80	8.80	9.84	10.86	11.90		13.09	3 / 4			
	reaction time	0.232													3.08	3.00	3.10
	interval velocity		1.04	1.04	1.00	1.00	1.00	1.00	1.04	1.02	1.04	1.19			8.28	8.50	8.23
	velocity	4.78	8.17	8.17	8.50	8.50	8.50	8.50	8.17	8.33	8.17	8.45	7.64				
<b>Mayer, Isabel (GER) (1993)</b>	time	2.60	3.68	4.72	5.72	6.76	7.78	8.82	9.88	10.94	12.02		13.24	1 / 5			
	reaction time	0.153													3.12	3.10	3.20
	interval velocity		1.08	1.04	1.00	1.04	1.02	1.04	1.06	1.06	1.08	1.22	<b>PB</b>		8.17	8.23	7.97
	velocity	5.00	7.87	8.17	8.50	8.17	8.33	8.17	8.02	8.02	7.87	8.24	7.55				
<b>Wojtunik, Klaudia (POL) (1999)</b>	time	2.64	3.68	4.74	5.76	6.80	7.82	8.86	9.92	11.00	12.04		13.27	7 / 6			
	reaction time	0.127													3.12	3.10	3.18
	interval velocity		1.04	1.06	1.02	1.04	1.02	1.04	1.06	1.08	1.04	1.23			8.17	8.23	8.02
	velocity	4.92	8.17	8.02	8.33	8.17	8.33	8.17	8.02	7.87	8.17	8.17	7.54				
<b>Töth, Anna (HUN) (2003)</b>	time	2.68	3.76	4.80	5.84	6.88	7.92	8.96	10.00	11.08	12.16		13.43	8 / 7			
	reaction time	0.165													3.16	3.12	3.20
	interval velocity		1.08	1.04	1.04	1.04	1.04	1.04	1.04	1.08	1.08	1.27			8.07	8.17	7.97
	velocity	4.85	7.87	8.17	8.17	8.17	8.17	8.17	8.17	7.87	7.87	7.91	7.45				
<b>Hjørnevik, Martine (NOR) (2001)</b>	time	2.76	3.84	4.92	5.96	7.00	8.08	9.12	10.24	11.32	12.44		13.70	2 / 8			
	reaction time	0.166													3.20	3.16	3.32
	interval velocity		1.08	1.08	1.04	1.04	1.08	1.04	1.12	1.08	1.12	1.26			7.97	8.07	7.68
	velocity	4.71	7.87	7.87	8.17	8.17	7.87	8.17	7.59	7.87	7.59	7.98	7.30				
<b>Rooth, Andrea (NOR) (2002)</b>	time	2.68	3.80	4.92	6.00	7.08	8.16	9.24	10.40	11.52	12.64		13.87	9 / 9			
	reaction time	0.139													3.32	3.24	3.40
	interval velocity		1.12	1.12	1.08	1.08	1.08	1.08	1.16	1.12	1.12	1.23			7.68	7.87	7.50
	velocity	4.85	7.59	7.59	7.87	7.87	7.87	7.87	7.33	7.59	7.59	8.17	7.21				



Evaluated with: ObjectVideo  
 Quality & Frame Rate: 1280 x 720 @ 25fps  
 Timing From: First Movement  
 Source: <https://www.youtube.com/watch?v=qa0M92wRqBM&t=19s>

2022 Athletissima (Lausanne, SUI) (TV Analysis)

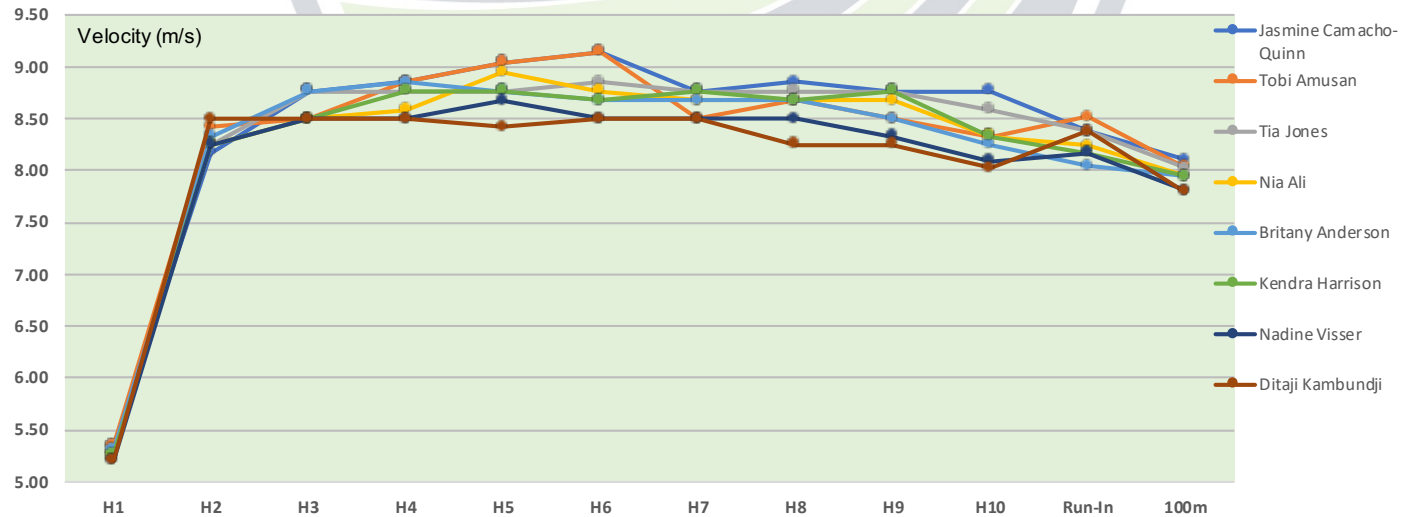
100m Hurdles

Date: 2022.08.26

Wind: -0.9 m/s

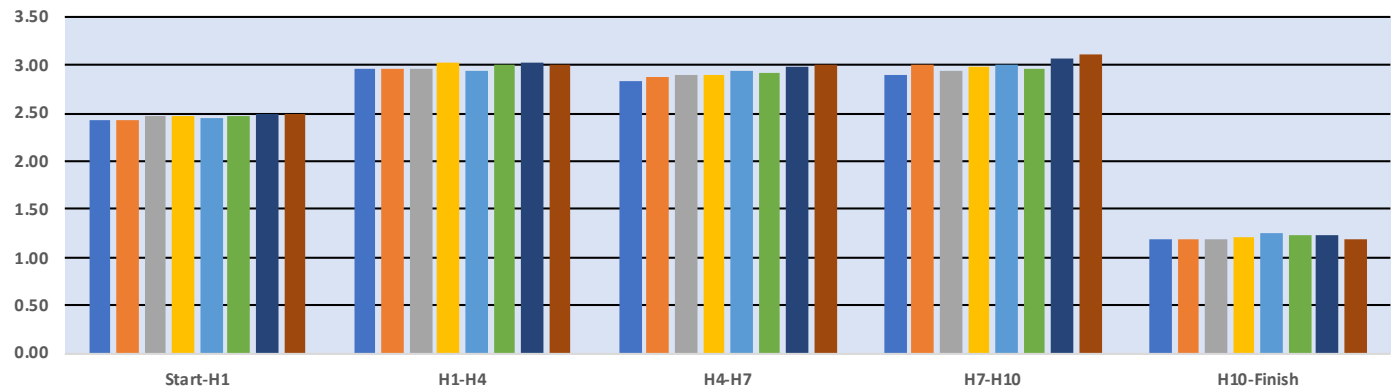
FINAL

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	100m	Lane/Place	H1-H4	H4-H7	H7-H10
<b>Camacho-Quinn, Jasmine (PUR) (199)</b>	time	2.43	3.47	4.44	5.40	6.34	7.27	8.24	9.20	10.17	11.14		12.34	4 / 1			
	reaction time	0.152													2.97	2.84	2.90
	interval		1.04	0.97	0.96	0.94	0.93	0.97	0.96	0.97	0.97	1.20			8.59	8.98	8.79
	velocity	5.35	8.17	8.76	8.85	9.04	9.14	8.76	8.85	8.76	8.76	8.38	8.10				
<b>Amusan, Tobi (NGR) (1997)</b>	time	2.43	3.44	4.44	5.40	6.34	7.27	8.27	9.25	10.25	11.27		12.45	5 / 2			
	reaction time	0.151													2.97	2.87	3.00
	interval		1.01	1.00	0.96	0.94	0.93	1.00	0.98	1.00	1.02	1.18			8.59	8.89	8.50
	velocity	5.35	8.42	8.50	8.85	9.04	9.14	8.50	8.67	8.50	8.33	8.52	8.03				
<b>Jones, Tia (USA) (2000)</b>	time	2.47	3.50	4.47	5.44	6.41	7.37	8.34	9.31	10.28	11.27		12.47	8 / 3			
	reaction time	0.161													2.97	2.90	2.93
	interval		1.03	0.97	0.97	0.97	0.96	0.97	0.97	0.97	0.99	1.20	<b>PB</b>		8.59	8.79	8.70
	velocity	5.26	8.25	8.76	8.76	8.76	8.85	8.76	8.76	8.76	8.59	8.37	8.02				
<b>Ali, Nia (USA) (1988)</b>	time	2.47	3.50	4.50	5.49	6.44	7.41	8.39	9.37	10.35	11.37		12.59	7 / 4			
	reaction time	0.182													3.02	2.90	2.98
	interval		1.03	1.00	0.99	0.95	0.97	0.98	0.98	0.98	1.02	1.22			8.44	8.79	8.56
	velocity	5.26	8.25	8.50	8.59	8.95	8.76	8.67	8.67	8.67	8.33	8.24	7.94				
<b>Anderson, Britany (JAM) (2001)</b>	time	2.45	3.47	4.44	5.40	6.37	7.35	8.33	9.31	10.31	11.34		12.59	3 / 5			
	reaction time	0.155													2.95	2.93	3.01
	interval		1.02	0.97	0.96	0.97	0.98	0.98	0.98	1.00	1.03	1.25			8.64	8.70	8.47
	velocity	5.31	8.33	8.76	8.85	8.76	8.67	8.67	8.67	8.50	8.25	8.04	7.94				
<b>Harrison, Kendra (USA) (1992)</b>	time	2.47	3.50	4.50	5.47	6.44	7.42	8.39	9.37	10.34	11.36		12.59	6 / 6			
	reaction time	0.171													3.00	2.92	2.97
	interval		1.03	1.00	0.97	0.97	0.98	0.97	0.98	0.97	1.02	1.23			8.50	8.73	8.59
	velocity	5.26	8.25	8.50	8.76	8.76	8.67	8.76	8.67	8.76	8.33	8.17	7.94				
<b>Visser, Nadine (NED) (1995)</b>	time	2.50	3.53	4.53	5.53	6.51	7.51	8.51	9.51	10.53	11.58		12.81	1 / 7			
	reaction time	0.171													3.03	2.98	3.07
	interval		1.03	1.00	1.00	0.98	1.00	1.00	1.00	1.02	1.05	1.23			8.42	8.56	8.31
	velocity	5.20	8.25	8.50	8.50	8.67	8.50	8.50	8.50	8.33	8.10	8.17	7.81				
<b>Kambundji, Ditaji (SUI) (2002)</b>	time	2.50	3.50	4.50	5.50	6.51	7.51	8.51	9.54	10.57	11.63		12.83	2 / 8			
	reaction time	0.129													3.00	3.01	3.12
	interval		1.00	1.00	1.00	1.01	1.00	1.00	1.03	1.03	1.06	1.20			8.50	8.47	8.17
	velocity	5.20	8.50	8.50	8.50	8.42	8.50	8.50	8.25	8.25	8.02	8.38	7.79				



Time Intervals (s)

Hurdle Phases



Evaluated with: ObjectusVideo  
 Quality & Frame Rate: 1920 x 1080 @ 30fps  
 Timing From: First Movement  
 Source: <https://www.youtube.com/watch?v=frnmR4Ecb0c&t=2s>



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

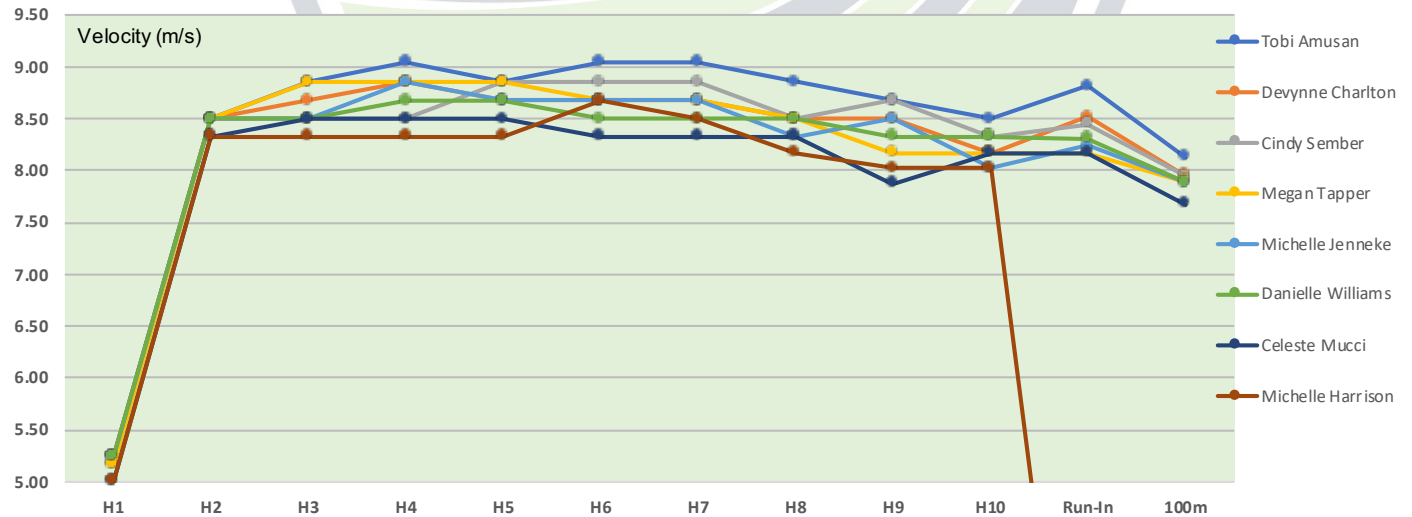
100m Hurdles

Date: 2022.08.07

Wind: -0.2 m/s

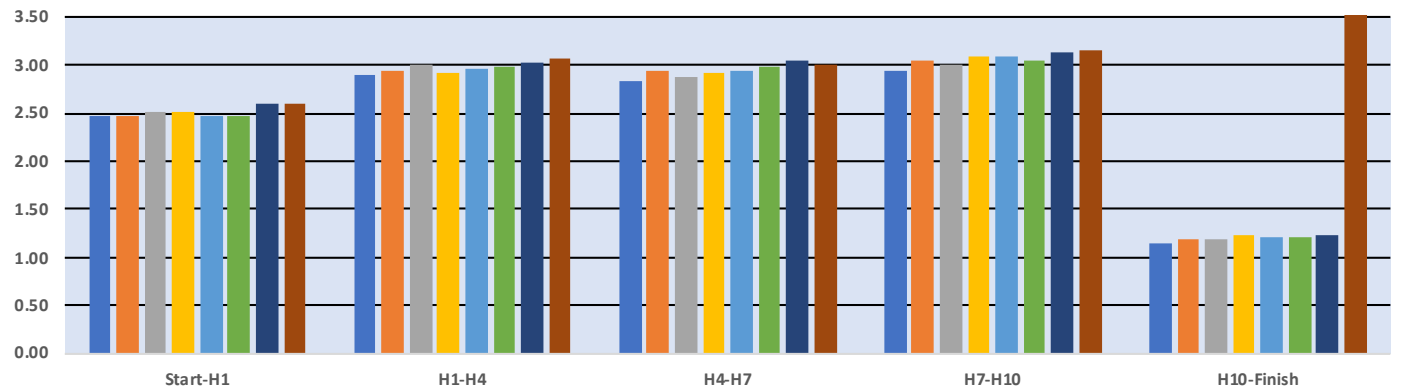
FINAL

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	100m	Lane/Place	H1-H4	H4-H7	H7-H10
<b>Amusan, Tobi (NGR) (1997)</b>	time	2.48	3.48	4.44	5.38	6.34	7.28	8.22	9.18	10.16	11.16		12.30	5 / 1			
	reaction time	0.126													2.90	2.84	2.94
	interval		1.00	0.96	0.94	0.96	0.94	0.94	0.96	0.98	1.00	1.14			8.79	8.98	8.67
	velocity	5.24	8.50	8.85	9.04	8.85	9.04	9.04	8.85	8.67	8.50	8.82	8.13				
<b>Charlton, Devynne (BAH) (1995)</b>	time	2.48	3.48	4.46	5.42	6.40	7.38	8.36	9.36	10.36	11.40		12.58	7 / 2			
	reaction time	0.144													2.94	2.94	3.04
	interval		1.00	0.98	0.96	0.98	0.98	0.98	1.00	1.00	1.04	1.18			8.67	8.67	8.39
	velocity	5.24	8.50	8.67	8.85	8.67	8.67	8.67	8.50	8.50	8.17	8.52	7.95				
<b>Sember, Cindy (GBR) (1994)</b>	time	2.52	3.52	4.52	5.52	6.48	7.44	8.40	9.40	10.38	11.40		12.59	3 / 3			
	reaction time	0.145													3.00	2.88	3.00
	interval		1.00	1.00	1.00	0.96	0.96	0.96	1.00	0.98	1.02	1.19			8.50	8.85	8.50
	velocity	5.16	8.50	8.50	8.50	8.85	8.85	8.85	8.50	8.67	8.33	8.45	7.94				
<b>Tapper, Megan (JAM) (1994)</b>	time	2.52	3.52	4.48	5.44	6.40	7.38	8.36	9.36	10.40	11.44		12.67	4 / 4			
	reaction time	0.154													2.92	2.92	3.08
	interval		1.00	0.96	0.96	0.96	0.98	0.98	1.00	1.04	1.04	1.23			8.73	8.73	8.28
	velocity	5.16	8.50	8.85	8.85	8.85	8.67	8.67	8.50	8.17	8.17	8.17	7.89				
<b>Jenneke, Michelle (AUS) (1993)</b>	time	2.48	3.48	4.48	5.44	6.42	7.40	8.38	9.40	10.40	11.46		12.68	6 / 5			
	reaction time	0.154													2.96	2.94	3.08
	interval		1.00	1.00	0.96	0.98	0.98	0.98	1.02	1.00	1.06	1.22			8.61	8.67	8.28
	velocity	5.24	8.50	8.50	8.85	8.67	8.67	8.67	8.33	8.50	8.02	8.24	7.89				
<b>Williams, Danielle (JAM) (1992)</b>	time	2.48	3.48	4.48	5.46	6.44	7.44	8.44	9.44	10.46	11.48		12.69	8 / 6			
	reaction time	0.128													2.98	2.98	3.04
	interval		1.00	1.00	0.98	0.98	1.00	1.00	1.00	1.02	1.02	1.21			8.56	8.56	8.39
	velocity	5.24	8.50	8.50	8.67	8.67	8.50	8.50	8.50	8.33	8.33	8.31	7.88				
<b>Mucci, Celeste (AUS) (1999)</b>	time	2.60	3.62	4.62	5.62	6.62	7.64	8.66	9.68	10.76	11.80		13.03	1 / 7			
	reaction time	0.151													3.02	3.04	3.14
	interval		1.02	1.00	1.00	1.00	1.02	1.02	1.02	1.08	1.04	1.23			8.44	8.39	8.12
	velocity	5.00	8.33	8.50	8.50	8.50	8.33	8.33	8.33	7.87	8.17	8.17	7.67				
<b>Harrison, Michelle (CAN) (1992)</b>	time	2.60	3.62	4.64	5.66	6.68	7.66	8.66	9.70	10.76	11.82		25.13	2 / 8			
	reaction time	0.126													3.06	3.00	3.16
	interval		1.02	1.02	1.02	1.02	0.98	1.00	1.04	1.06	1.06	13.31			8.33	8.50	8.07
	velocity	5.00	8.33	8.33	8.33	8.33	8.67	8.50	8.17	8.02	8.02	0.76	3.98				



Time Intervals (s)

Hurdle Phases



Evaluated with: ObjectusVideo  
 Quality & Frame Rate: 1280 x 720 @ 25fps  
 Timing From: First Movement  
 Source: <https://www.youtube.com/watch?v=8d1wCoBKveY&t=7s>

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

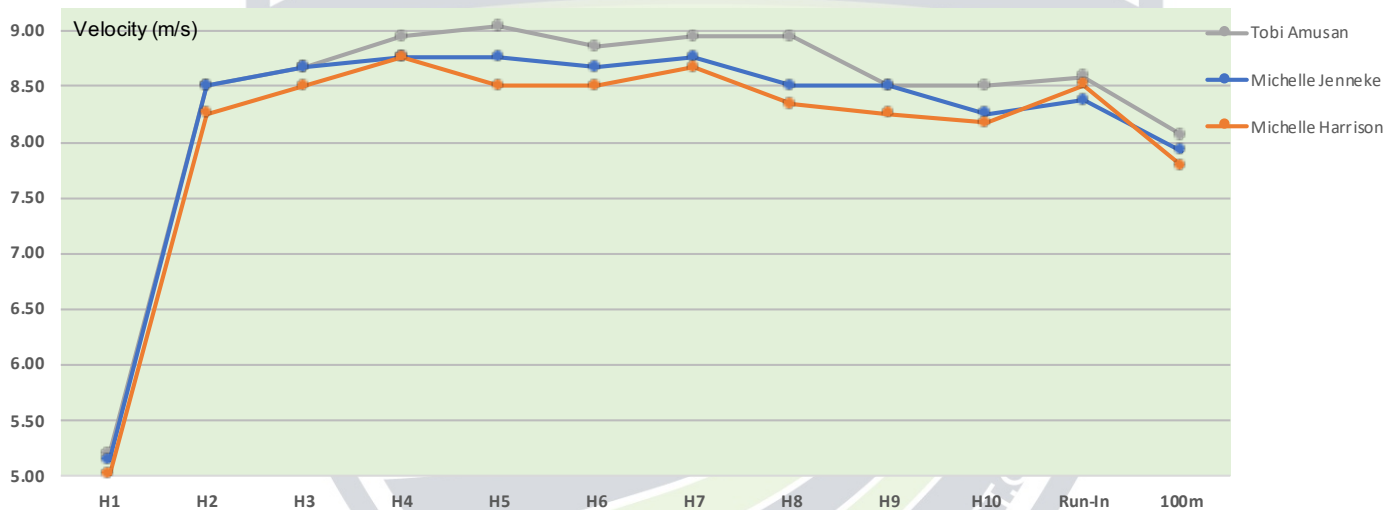
100m Hurdles

Date: 2022.08.05

Wind: 2.4 m/s

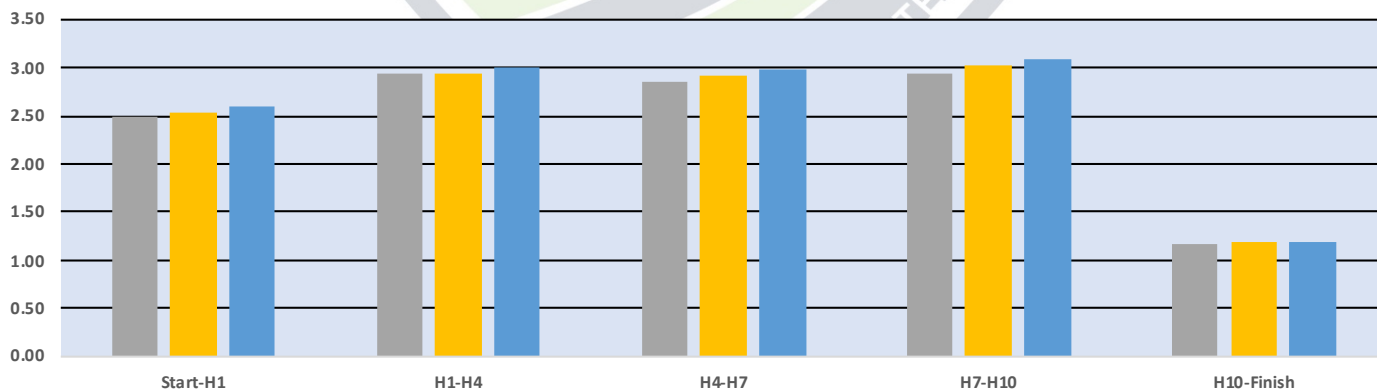
Heat 3

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	100m	Lane/Place	H1-H4	H4-H7	H7-H10
Amusan, Tobi (NGR) (1997)	time	2.50	3.50	4.48	5.43	6.37	7.33	8.28	9.23	10.23	11.23		12.40	3 / 1			
	reaction time	0.150													2.93	2.85	2.95
	interval		1.00	0.98	0.95	0.94	0.96	0.95	0.95	1.00	1.00	1.17			8.70	8.95	8.64
	velocity	5.20	8.50	8.67	8.95	9.04	8.85	8.95	8.95	8.50	8.50	8.59	8.06				
Jenneke, Michelle (AUS) (1993)	time	2.53	3.53	4.51	5.48	6.45	7.43	8.40	9.40	10.40	11.43		12.63	5 / 2			
	reaction time	0.153													2.95	2.92	3.03
	interval		1.00	0.98	0.97	0.97	0.98	0.97	1.00	1.00	1.03	1.20			8.64	8.73	8.42
	velocity	5.14	8.50	8.67	8.76	8.76	8.67	8.76	8.50	8.50	8.25	8.37	7.92				
Harrison, Michelle (CAN) (1992)	time	2.60	3.63	4.63	5.60	6.60	7.60	8.58	9.60	10.63	11.67		12.85	6 / 3			
	reaction time	0.137													3.00	2.98	3.09
	interval		1.03	1.00	0.97	1.00	1.00	0.98	1.02	1.03	1.04	1.18			8.50	8.56	8.25
	velocity	5.00	8.25	8.50	8.76	8.50	8.50	8.67	8.33	8.25	8.17	8.52	7.78				



Time Intervals (s)

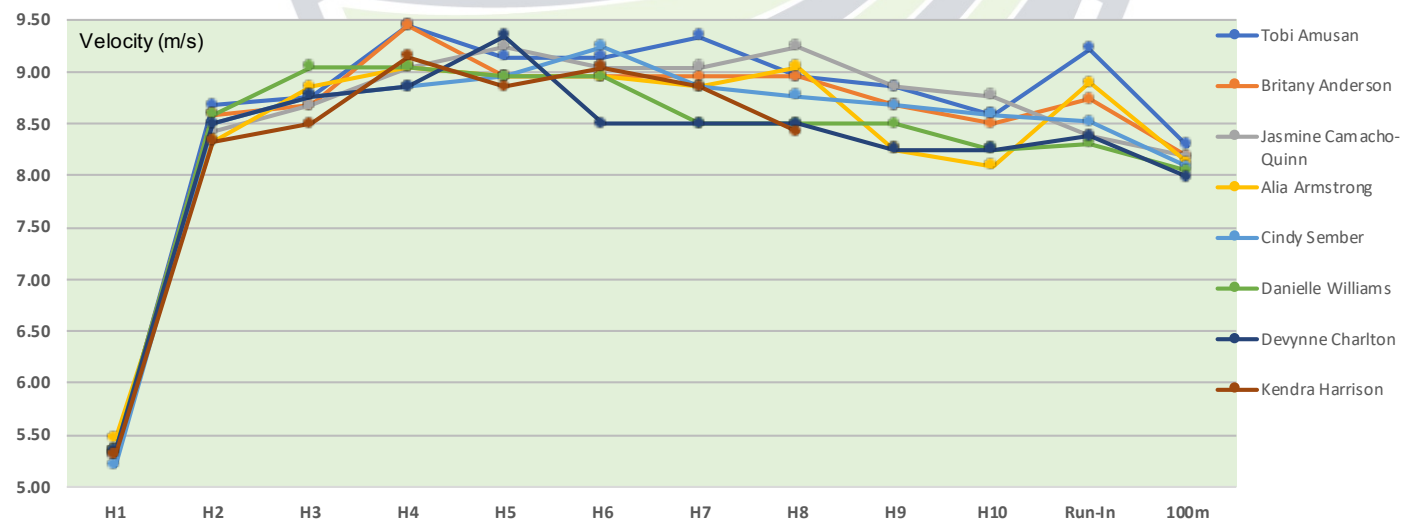
Hurdle Phases



Evaluated with: ObjectusVideo  
 Quality & Frame Rate: 1280 x 720 @ 25fps  
 Timing From: First Movement  
 Source: <https://www.youtube.com/watch?v=c71MlySu-U>

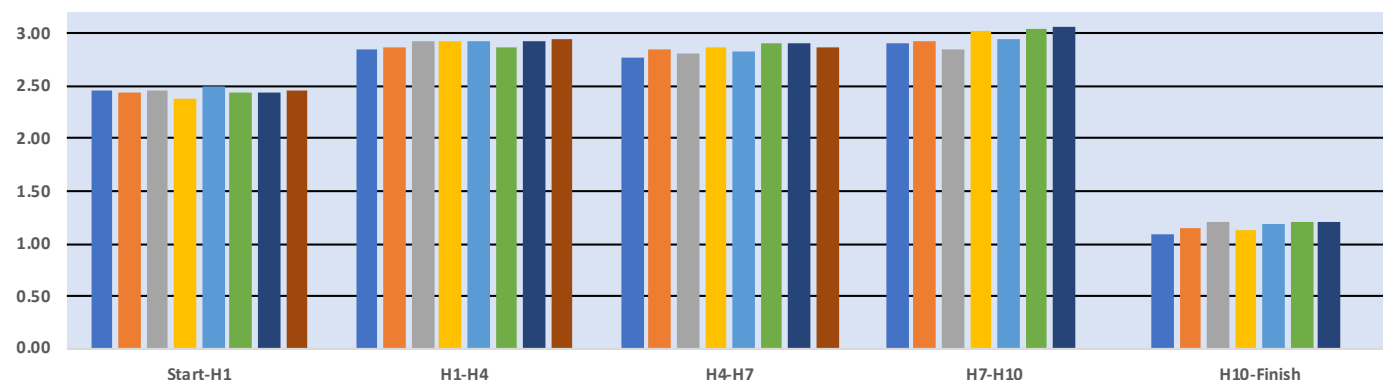
2022 World Athletics Championships (Eugene, OR) (TV Analysis)

100m Hurdles		Date: 2022.07.24	Wind: 2.5 m/s										FINAL					
			H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	100m	Lane/Place	H1-H4	H4-H7	H7-H10
<b>Amusan, Tobi (NGR) (1997)</b>	time		2.45	3.43	4.40	5.30	6.23	7.16	8.07	9.02	9.98	10.97		12.06	4 / 1			
	reaction time	0.130														2.85	2.77	2.90
	interval velocity			0.98	0.97	0.90	0.93	0.93	0.91	0.95	0.96	0.99	1.09			8.95	9.21	8.79
	velocity		5.31	8.67	8.76	9.44	9.14	9.14	9.34	8.95	8.85	8.59	9.22	8.29				
<b>Anderson, Britany (JAM) (2001)</b>	time		2.43	3.42	4.40	5.30	6.25	7.20	8.15	9.10	10.08	11.08		12.23	5 / 2			
	reaction time	0.129														2.87	2.85	2.93
	interval velocity			0.99	0.98	0.90	0.95	0.95	0.95	0.95	0.98	1.00	1.15			8.89	8.95	8.70
	velocity		5.35	8.59	8.67	9.44	8.95	8.95	8.95	8.95	8.67	8.50	8.74	8.18				
<b>Camacho-Quinn, Jasmine (PUR) (199)</b>	time		2.45	3.46	4.44	5.38	6.30	7.24	8.18	9.10	10.06	11.03		12.23	7 / 3			
	reaction time	0.127														2.93	2.80	2.85
	interval velocity			1.01	0.98	0.94	0.92	0.94	0.94	0.92	0.96	0.97	1.20			8.70	9.11	8.95
	velocity		5.31	8.42	8.67	9.04	9.24	9.04	9.04	9.24	8.85	8.76	8.37	8.18				
<b>Armstrong, Alia (USA) (2000)</b>	time		2.38	3.40	4.36	5.30	6.25	7.20	8.16	9.10	10.13	11.18		12.31	6 / 4			
	reaction time	0.125														2.92	2.86	3.02
	interval velocity			1.02	0.96	0.94	0.95	0.95	0.96	0.94	1.03	1.05	1.13			8.73	8.92	8.44
	velocity		5.46	8.33	8.85	9.04	8.95	8.95	8.85	9.04	8.25	8.10	8.89	8.12				
<b>Sember, Cindy (GBR) (1994)</b>	time		2.50	3.50	4.47	5.43	6.38	7.30	8.26	9.23	10.21	11.20		12.38	1 / 5			
	reaction time	0.158														2.93	2.83	2.94
	interval velocity			1.00	0.97	0.96	0.95	0.92	0.96	0.97	0.98	0.99	1.18			8.70	9.01	8.67
	velocity		5.20	8.50	8.76	8.85	8.95	9.24	8.85	8.76	8.67	8.59	8.52	8.08				
<b>Williams, Danielle (JAM) (1992)</b>	time		2.43	3.42	4.36	5.30	6.25	7.20	8.20	9.20	10.20	11.23		12.44	2 / 6			
	reaction time	0.105														2.87	2.90	3.03
	interval velocity			0.99	0.94	0.94	0.95	0.95	1.00	1.00	1.00	1.03	1.21			8.89	8.79	8.42
	velocity		5.35	8.59	9.04	9.04	8.95	8.95	8.50	8.50	8.50	8.25	8.31	8.04				
<b>Charlton, Devynne (BAH) (1995)</b>	time		2.43	3.43	4.40	5.36	6.27	7.27	8.27	9.27	10.30	11.33		12.53	8 / 7			
	reaction time	0.129														2.93	2.91	3.06
	interval velocity			1.00	0.97	0.96	0.91	1.00	1.00	1.00	1.03	1.03	1.20			8.70	8.76	8.33
	velocity		5.35	8.50	8.76	8.85	9.34	8.50	8.50	8.50	8.25	8.25	8.38	7.98				
<b>Harrison, Kendra (USA) (1992)</b>	time		2.45	3.47	4.47	5.40	6.36	7.30	8.26	9.27				dnf	3 / --			
	reaction time	0.145												DQ		2.95	2.86	
	interval velocity			1.02	1.00	0.93	0.96	0.94	0.96	1.01						8.64	8.92	
	velocity		5.31	8.33	8.50	9.14	8.85	9.04	8.85	8.42								



Time Intervals (s)

Hurdle Phases



Evaluated with: ObjectusVideo  
 Quality & Frame Rate: 1920 x 1080 @ 30fps  
 Timing From: First Movement  
 Source: <https://www.youtube.com/watch?v=ZNocfS5lFdc&t=22s>

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

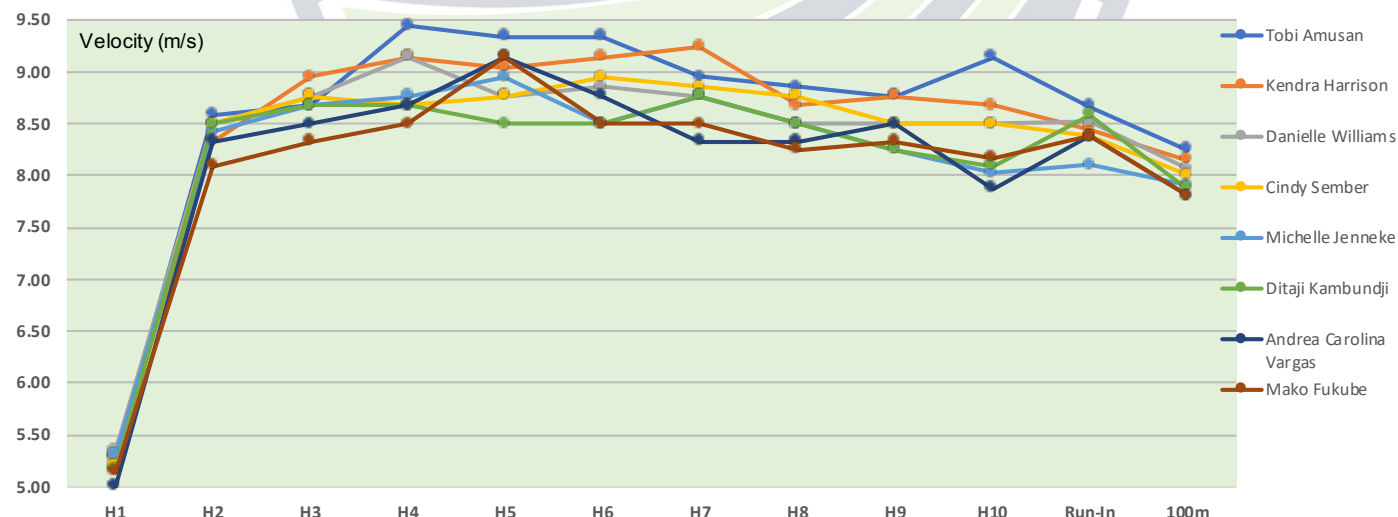
100m Hurdles

Date: 2022.07.24

Wind: 0.9 m/s

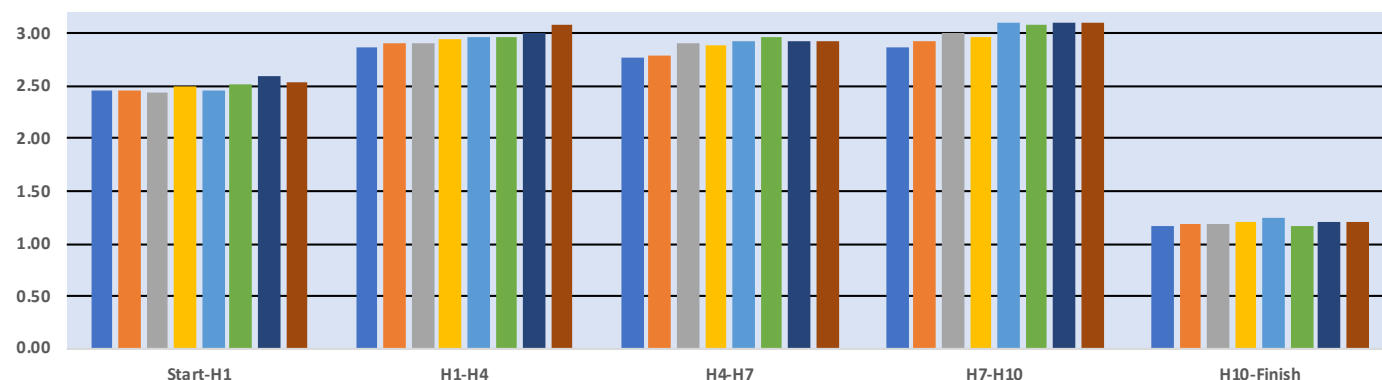
Semi-Final 1

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	100m	Lane/Place	H1-H4	H4-H7	H7-H10
Amusan, Tobi (NGR) (1997)	time	2.46	3.45	4.43	5.33	6.24	7.15	8.10	9.06	10.03	10.96	12.12	12.12	4 / 1			
	reaction time	0.144											WR		2.87	2.77	2.86
	interval		0.99	0.98	0.90	0.91	0.91	0.95	0.96	0.97	0.93	1.16	8.25		8.89	9.21	8.92
Harrison, Kendra (USA) (1992)	time	2.46	3.48	4.43	5.36	6.30	7.23	8.15	9.13	10.10	11.08	12.27	12.27	6 / 2			
	reaction time	0.155													2.90	2.79	2.93
	interval		1.02	0.95	0.93	0.94	0.93	0.92	0.98	0.97	0.98	1.19	8.15		8.79	9.14	8.70
Williams, Danielle (JAM) (1992)	time	2.43	3.43	4.40	5.33	6.30	7.26	8.23	9.23	10.23	11.23	12.41	12.41	3 / 3			
	reaction time	0.105													2.90	2.90	3.00
	interval		1.00	0.97	0.93	0.97	0.96	0.97	1.00	1.00	1.00	1.18	8.06		8.79	8.79	8.50
Sember, Cindy (GBR) (1994)	time	2.50	3.50	4.47	5.45	6.42	7.37	8.33	9.30	10.30	11.30	12.50	12.50	5 / 4			
	reaction time	0.158											NR PB		2.95	2.88	2.97
	interval		1.00	0.97	0.98	0.97	0.95	0.96	0.97	1.00	1.00	1.20	8.00		8.64	8.85	8.59
Jenneke, Michelle (AUS) (1993)	time	2.45	3.46	4.44	5.41	6.36	7.36	8.33	9.33	10.36	11.42	12.66	12.66	7 / 5			
	reaction time	0.120											PB		2.96	2.92	3.09
	interval		1.01	0.98	0.97	0.95	1.00	0.97	1.00	1.03	1.06	1.24	7.90		8.61	8.73	8.25
Kambundji, Ditaji (SUI) (2002)	time	2.52	3.52	4.50	5.48	6.48	7.48	8.45	9.45	10.48	11.53	12.70	12.70	2 / 6			
	reaction time	0.134											PB		2.96	2.97	3.08
	interval		1.00	0.98	0.98	1.00	1.00	0.97	1.00	1.03	1.05	1.17	7.87		8.61	8.59	8.28
Vargas, Andrea Carolina (CRC) (1996)	time	2.60	3.62	4.62	5.60	6.53	7.50	8.52	9.54	10.54	11.62	12.82	12.82	8 / 7			
	reaction time	0.154													3.00	2.92	3.10
	interval		1.02	1.00	0.98	0.93	0.97	1.02	1.02	1.00	1.08	1.20	7.80		8.50	8.73	8.23
Fukube, Mako (JPN) (1995)	time	2.53	3.58	4.60	5.60	6.53	7.53	8.53	9.56	10.58	11.62	12.82	12.82	1 / 8			
	reaction time	0.119											NR PB		3.07	2.93	3.09
	interval		1.05	1.02	1.00	0.93	1.00	1.00	1.03	1.02	1.04	1.20	7.80		8.31	8.70	8.25



Time Intervals (s)

Hurdle Phases



Evaluated with: ObjectusVideo  
 Quality & Frame Rate: 1920 x 1080 @ 30fps  
 Timing From: First Movement  
 Source: <https://www.youtube.com/watch?v=ZNocfS5lFdc&t=22s>

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

100m Hurdles

Date: 2022.07.23

Wind: 0.7 m/s

Heat 4

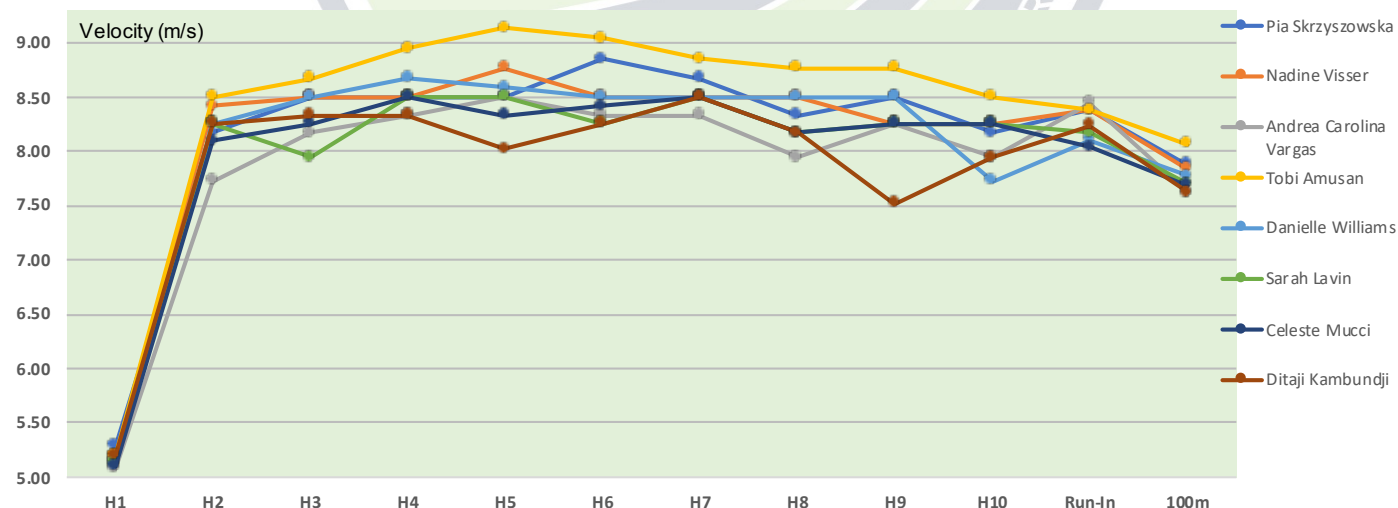
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	100m	Lane/Place	H1-H4	H4-H7	H7-H10
<b>Skrzyszowska, Pia (POL) (2001)</b>	time	2.46	3.50	4.50	5.50	6.50	7.46	8.44	9.46	10.46	11.50	12.70	12.70	7 / 1			
	reaction time	0.131													3.04	2.94	3.06
	interval		1.04	1.00	1.00	1.00	0.96	0.98	1.02	1.00	1.04	1.20			8.39	8.67	8.33
	velocity	5.28	8.17	8.50	8.50	8.50	8.85	8.67	8.33	8.50	8.17	8.38	7.87				
<b>Visser, Nadine (NED) (1995)</b>	time	2.52	3.53	4.53	5.53	6.50	7.50	8.50	9.50	10.53	11.56	12.76	12.76	8 / 2			
	reaction time	0.136													3.01	2.97	3.06
	interval		1.01	1.00	1.00	0.97	1.00	1.00	1.00	1.03	1.03	1.20			8.47	8.59	8.33
	velocity	5.16	8.42	8.50	8.50	8.76	8.50	8.50	8.50	8.25	8.25	8.38	7.84				
<b>Vargas, Andrea Carolina (CRC) (1996)</b>	time	2.56	3.66	4.70	5.72	6.72	7.74	8.76	9.83	10.86	11.93	13.12	13.12	5 / 3			
	reaction time	0.122													3.16	3.04	3.17
	interval		1.10	1.04	1.02	1.00	1.02	1.02	1.07	1.03	1.07	1.19			8.07	8.39	8.04
	velocity	5.08	7.73	8.17	8.33	8.50	8.33	8.33	7.94	8.25	7.94	8.45	7.62				

Date: 2022.07.23

Wind: 1.5 m/s

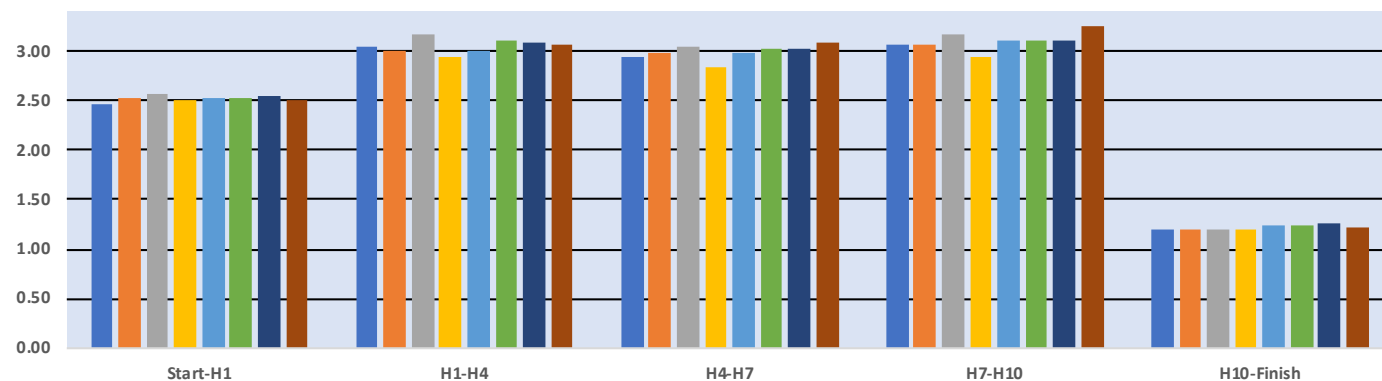
Heat 3

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	100m	Lane/Place	H1-H4	H4-H7	H7-H10
<b>Amusan, Tobi (NGR) (1997)</b>	time	2.50	3.50	4.48	5.43	6.36	7.30	8.26	9.23	10.20	11.20	12.40	12.40	3 / 1			
	reaction time	0.135													2.93	2.83	2.94
	interval		1.00	0.98	0.95	0.93	0.94	0.96	0.97	0.97	0.97	1.00	1.20	AR PB	8.70	9.01	8.67
	velocity	5.20	8.50	8.67	8.95	9.14	9.04	8.85	8.76	8.76	8.50	8.37	8.06				
<b>Williams, Danielle (JAM) (1992)</b>	time	2.53	3.56	4.56	5.54	6.53	7.53	8.53	9.53	10.53	11.63	12.87	12.87	8 / 2			
	reaction time	0.194													3.01	2.99	3.10
	interval		1.03	1.00	0.98	0.99	1.00	1.00	1.00	1.00	1.10	1.24			8.47	8.53	8.23
	velocity	5.14	8.25	8.50	8.67	8.59	8.50	8.50	8.50	8.50	7.73	8.10	7.77				
<b>Lavin, Sarah (IRL) (1994)</b>	time	2.53	3.56	4.63	5.63	6.63	7.66	8.66	9.70	10.73	11.76	12.99	12.99	4 / 3			
	reaction time	0.117													3.10	3.03	3.10
	interval		1.03	1.07	1.00	1.00	1.03	1.00	1.04	1.03	1.03	1.23			8.23	8.42	8.23
	velocity	5.14	8.25	7.94	8.50	8.50	8.25	8.50	8.17	8.25	8.25	8.17	7.70				
<b>Mucci, Celeste (AUS) (1999)</b>	time	2.55	3.60	4.63	5.63	6.65	7.66	8.66	9.70	10.73	11.76	13.01	13.01	5 / 4			
	reaction time	0.163													3.08	3.03	3.10
	interval		1.05	1.03	1.00	1.02	1.01	1.00	1.04	1.03	1.03	1.25			8.28	8.42	8.23
	velocity	5.10	8.10	8.25	8.50	8.33	8.42	8.50	8.17	8.25	8.25	8.04	7.69				
<b>Kambundji, Ditaji (SUI) (2002)</b>	time	2.50	3.53	4.55	5.57	6.63	7.66	8.66	9.70	10.83	11.90	13.12	13.12	7 / 5			
	reaction time	0.137													3.07	3.09	3.24
	interval		1.03	1.02	1.02	1.06	1.03	1.00	1.04	1.13	1.07	1.22			8.31	8.25	7.87
	velocity	5.20	8.25	8.33	8.33	8.02	8.25	8.50	8.17	7.52	7.94	8.24	7.62				



Time Intervals (s)

Hurdle Phases



Evaluated with: ObjectusVideo  
 Quality & Frame Rate: 1920 x 1080 @ 30fps  
 Timing From: First Movement  
 Source: <https://www.youtube.com/watch?v=ZvR4Zms45Aq&t=19s>

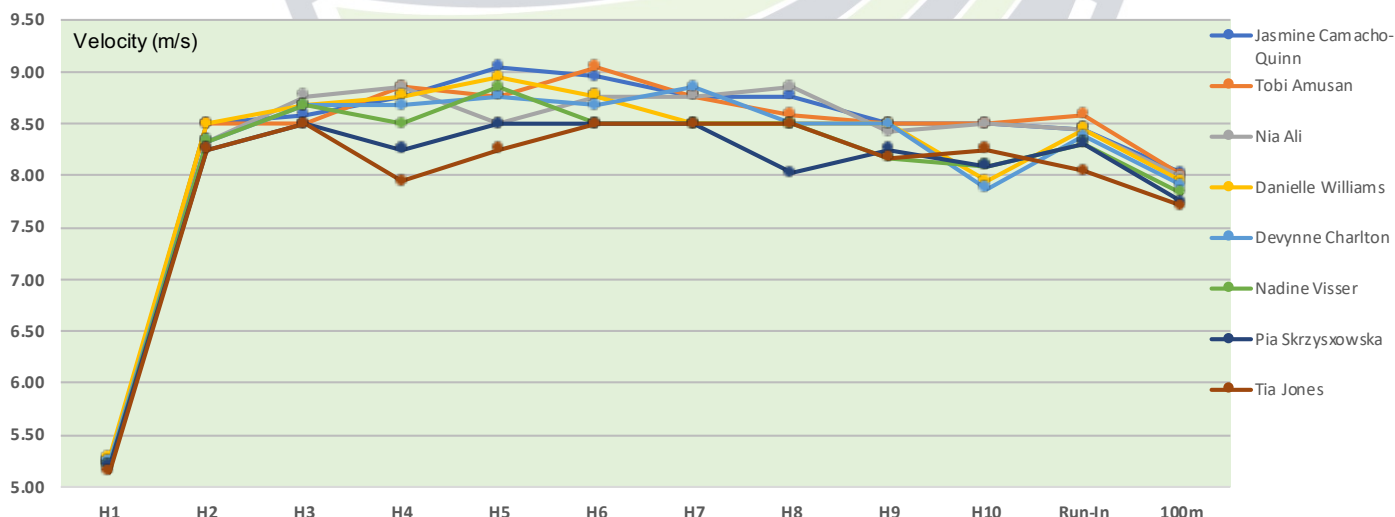
2022 Bauhaus Galan (Stockholm, SWE) (TV Analysis)

100m Hurdles

Date: 2022.06.30 Wind: -0.5 m/s

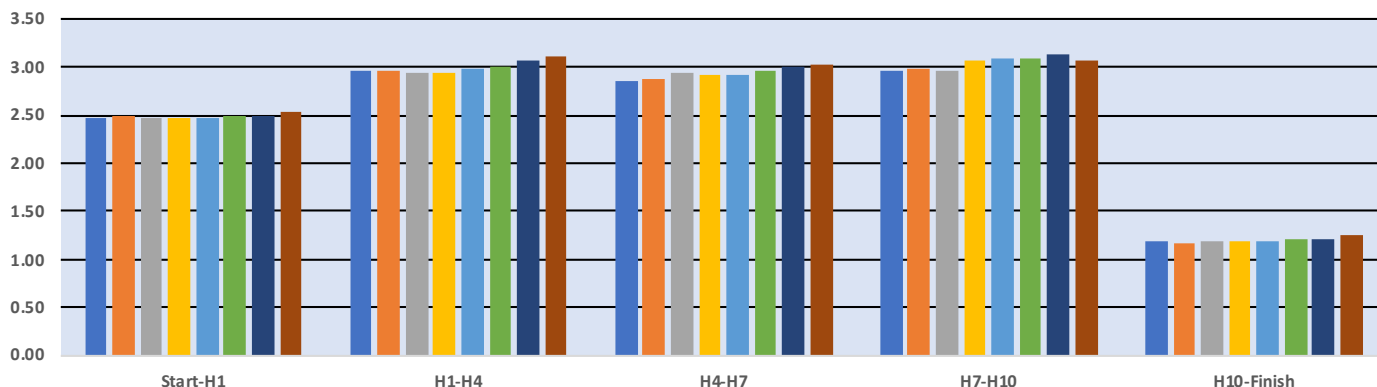
FINAL

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	100m	Lane/Place	H1-H4	H4-H7	H7-H10
<b>Camacho-Quinn, Jasmine (PUR) (199)</b>	time	2.48	3.48	4.47	5.44	6.38	7.33	8.30	9.27	10.27	11.27		12.46	5 / 1			
	reaction time	0.143													2.96	2.86	2.97
	interval		1.00	0.99	0.97	0.94	0.95	0.97	0.97	1.00	1.00	1.19			8.61	8.92	8.59
	velocity	5.24	8.50	8.59	8.76	9.04	8.95	8.76	8.76	8.50	8.50	8.45	8.03				
<b>Amusan, Tobi (NGR) (1997)</b>	time	2.50	3.50	4.50	5.46	6.43	7.37	8.34	9.33	10.33	11.33		12.50	4 / 2			
	reaction time	0.147													2.96	2.88	2.99
	interval		1.00	1.00	0.96	0.97	0.94	0.97	0.99	1.00	1.00	1.17			8.61	8.85	8.53
	velocity	5.20	8.50	8.50	8.85	8.76	9.04	8.76	8.59	8.50	8.50	8.59	8.00				
<b>Ali, Nia (USA) (1988)</b>	time	2.48	3.50	4.47	5.43	6.43	7.40	8.37	9.33	10.34	11.34		12.53	6 / 3			
	reaction time	0.160													2.95	2.94	2.97
	interval		1.02	0.97	0.96	1.00	0.97	0.97	0.96	1.01	1.00	1.19			8.64	8.67	8.59
	velocity	5.24	8.33	8.76	8.85	8.50	8.76	8.76	8.85	8.42	8.50	8.45	7.98				
<b>Williams, Danielle (JAM) (1992)</b>	time	2.46	3.46	4.44	5.41	6.36	7.33	8.33	9.33	10.33	11.40		12.59	2 / 4			
	reaction time	0.130													2.95	2.92	3.07
	interval		1.00	0.98	0.97	0.95	0.97	1.00	1.00	1.00	1.07	1.19			8.64	8.73	8.31
	velocity	5.28	8.50	8.67	8.76	8.95	8.76	8.50	8.50	8.50	7.94	8.45	7.94				
<b>Charlton, Devynne (BAH) (1995)</b>	time	2.48	3.50	4.48	5.46	6.43	7.41	8.37	9.37	10.37	11.45		12.65	7 / 5			
	reaction time	0.145													2.98	2.91	3.08
	interval		1.02	0.98	0.98	0.97	0.98	0.96	1.00	1.00	1.08	1.20			8.56	8.76	8.28
	velocity	5.24	8.33	8.67	8.67	8.76	8.67	8.85	8.50	8.50	7.87	8.37	7.91				
<b>Visser, Nadine (NED) (1995)</b>	time	2.50	3.52	4.50	5.50	6.46	7.46	8.46	9.46	10.50	11.55		12.76	1 / 6			
	reaction time	0.136													3.00	2.96	3.09
	interval		1.02	0.98	1.00	0.96	1.00	1.00	1.00	1.04	1.05	1.21			8.50	8.61	8.25
	velocity	5.20	8.33	8.67	8.50	8.85	8.50	8.50	8.50	8.17	8.10	8.31	7.84				
<b>Skrzysowska, Pia (POL) (2001)</b>	time	2.50	3.53	4.53	5.56	6.56	7.56	8.56	9.62	10.65	11.70		12.91	8 / 7			
	reaction time	0.132													3.06	3.00	3.14
	interval		1.03	1.00	1.03	1.00	1.00	1.00	1.06	1.03	1.05	1.21			8.33	8.50	8.12
	velocity	5.20	8.25	8.50	8.25	8.50	8.50	8.50	8.02	8.25	8.10	8.31	7.75				
<b>Jones, Tia (USA) (2000)</b>	time	2.53	3.56	4.56	5.63	6.66	7.66	8.66	9.66	10.70	11.73		12.98	3 / 8			
	reaction time	0.166													3.10	3.03	3.07
	interval		1.03	1.00	1.07	1.03	1.00	1.00	1.00	1.04	1.03	1.25			8.23	8.42	8.31
	velocity	5.14	8.25	8.50	7.94	8.25	8.50	8.50	8.50	8.17	8.25	8.04	7.70				



Time Intervals (s)

Hurdle Phases



Evaluated with: ObjectusVideo  
 Quality & Frame Rate: 1920 x 1080 @ 30fps  
 Timing From: First Movement  
 Source: <https://www.youtube.com/watch?v=qaQM92wRqBM&t=19s>

2022 Nigerian National Championships (Benin City, NGR) (TV Analysis)

100m Hurdles

Date: 2022.06.25 Wind: -0.4 m/s

FINAL

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	100m	Lane/Place	H1-H4	H4-H7	H7-H10
Amusan, Tobi (NGR) (1997)	time	2.52	3.53	4.52	5.49	6.45	7.42	8.39	9.36	10.36	11.36		12.54	4 / 1			
	reaction time														2.97	2.90	2.97
	interval		1.01	0.99	0.97	0.96	0.97	0.97	0.97	1.00	1.00	1.18			8.59	8.79	8.59
	velocity	5.16	8.42	8.59	8.76	8.85	8.76	8.76	8.76	8.50	8.50	8.52	7.97				

Date: 2022.06.25 Wind: 0.0 m/s

Heat 2

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	100m	Lane/Place	H1-H4	H4-H7	H7-H10
Amusan, Tobi (NGR) (1997)	time	2.52	3.55	4.55	5.52	6.49	7.46	8.44	9.41	10.41	11.43		12.67	3 / 1			
	reaction time														3.00	2.92	2.99
	interval		1.03	1.00	0.97	0.97	0.97	0.98	0.97	1.00	1.02	1.24			8.50	8.73	8.53
	velocity	5.16	8.25	8.50	8.76	8.76	8.76	8.67	8.76	8.50	8.33	8.10	7.89				

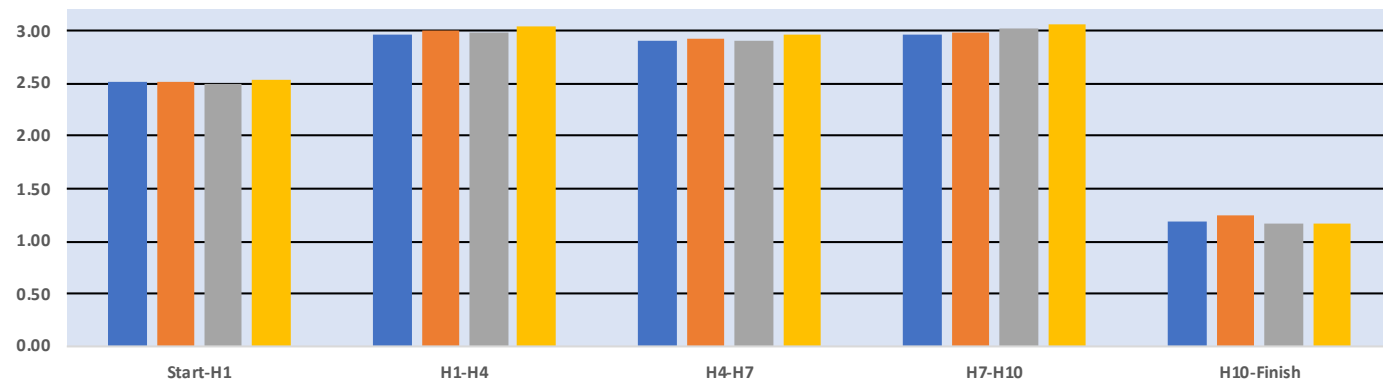
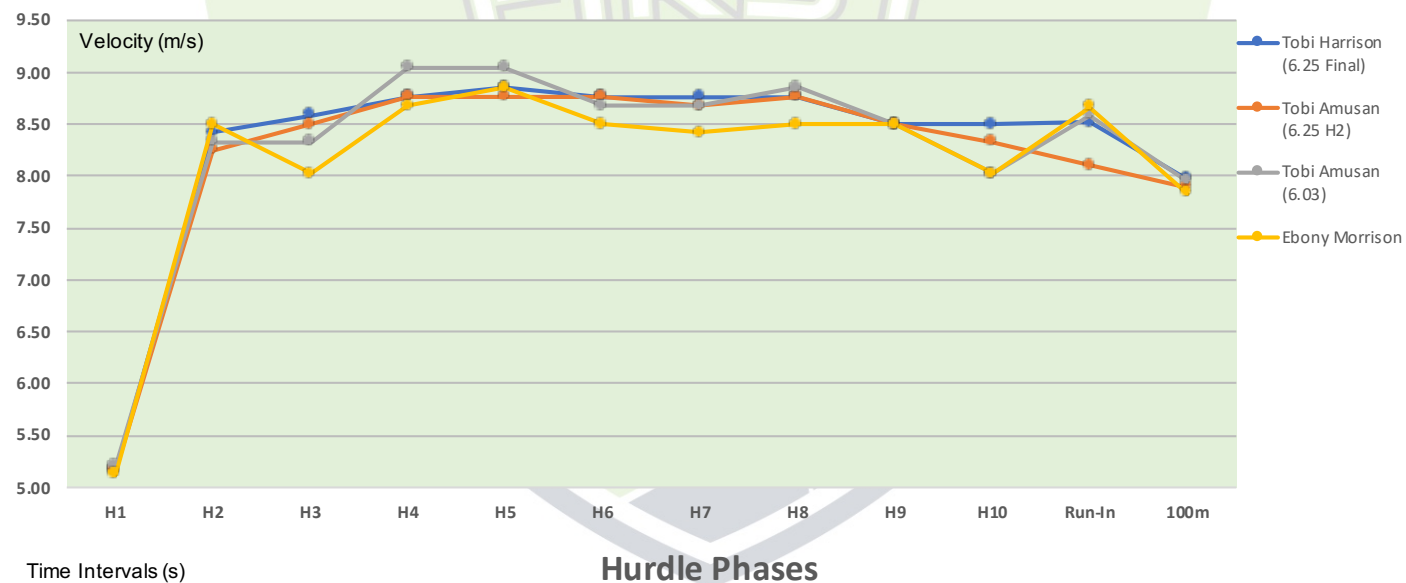
2022 African Championships (St. Pierre, MRI) (TV Analysis)

Date: 2022.06.09 Wind: 4.0 m/s

FINAL

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	100m	Lane/Place	H1-H4	H4-H7	H7-H10
Amusan, Tobi (NGR) (1997)	time	2.50	3.52	4.54	5.48	6.42	7.40	8.38	9.34	10.34	11.40		12.57	5 / 1			
	reaction time														2.98	2.90	3.02
	interval		1.02	1.02	0.94	0.94	0.98	0.98	0.96	1.00	1.06	1.17			8.56	8.79	8.44
	velocity	5.20	8.33	8.33	9.04	9.04	8.67	8.67	8.85	8.50	8.02	8.59	7.96				

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	100m	Lane/Place	H1-H4	H4-H7	H7-H10
Morrison, Ebony (LBR) (1994)	time	2.54	3.54	4.60	5.58	6.54	7.54	8.55	9.55	10.55	11.61		12.77	4 / 2			
	reaction time														3.04	2.97	3.06
	interval		1.00	1.06	0.98	0.96	1.00	1.01	1.00	1.00	1.06	1.16			8.39	8.59	8.33
	velocity	5.12	8.50	8.02	8.67	8.85	8.50	8.42	8.50	8.50	8.02	8.66	7.83				



Nigerian Championships - FINAL

Evaluated with: ObjectusVideo  
 Quality & Frame Rate: 1920 x 1080 @ 30fps  
 Timing From: Gun Flash  
 Source: <https://www.youtube.com/watch?v=qj9FzQ3k9BY>

African Championships - FINAL

Evaluated with: ObjectusVideo  
 Quality & Frame Rate: 1920 x 1080 @ 30fps  
 Timing From: First Movement  
 Source: <https://www.youtube.com/watch?v=PE1rxbz1dpA>

Nigerian Championships - Heat 2

Evaluated with: ObjectusVideo  
 Quality & Frame Rate: 1920 x 1080 @ 30fps  
 Timing From: First Movement  
 Source: <https://www.youtube.com/watch?v=zAoC3yji8BQ>

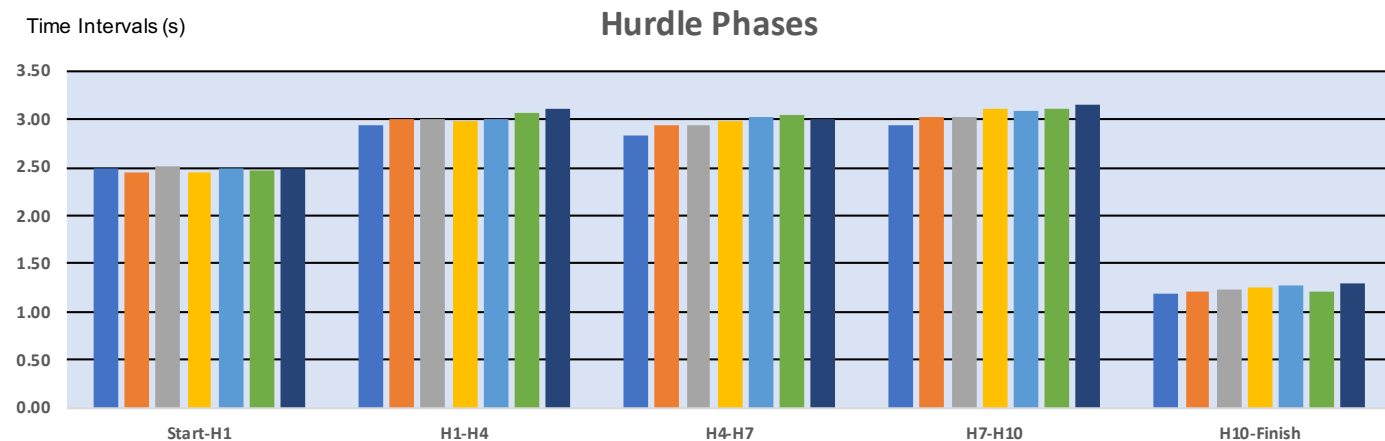
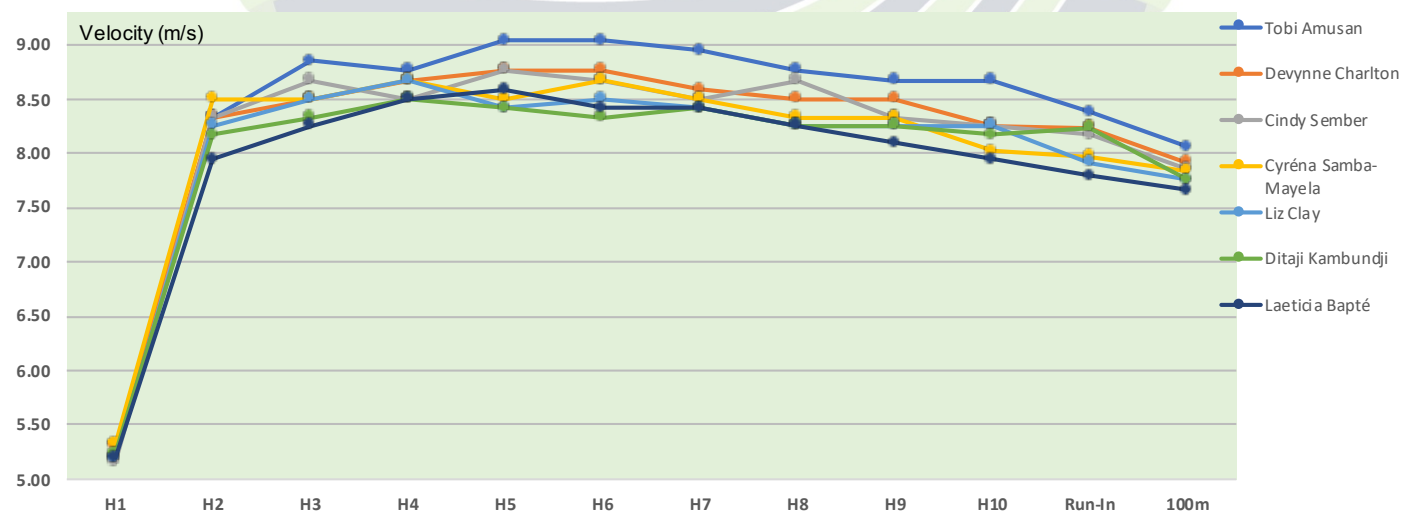
2022 Meeting de Paris (Paris, FRA) (TV Analysis)

100m Hurdles

Date: 2022.06.18 Wind: -0.4 m/s

FINAL

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	100m	Lane/Place	H1-H4	H4-H7	H7-H10
Amusan, Tobi (NGR) (1997)	time	2.50	3.52	4.48	5.45	6.39	7.33	8.28	9.25	10.23	11.21	12.41	12.41	5 / 1			
	reaction time	0.159											NR PB		2.95	2.83	2.93
	interval		1.02	0.96	0.97	0.94	0.94	0.95	0.97	0.98	0.98	1.20	8.06		8.64	9.01	8.70
	velocity	5.20	8.33	8.85	8.76	9.04	9.04	8.95	8.76	8.67	8.67	8.38	8.06				
Charlton, Devynne (BAH) (1995)	time	2.45	3.47	4.47	5.45	6.42	7.39	8.38	9.38	10.38	11.41	12.63	12.63	7 / 2			
	reaction time	0.153													3.00	2.93	3.03
	interval		1.02	1.00	0.98	0.97	0.97	0.99	1.00	1.00	1.03	1.22	7.92		8.50	8.70	8.42
	velocity	5.31	8.33	8.50	8.67	8.76	8.76	8.59	8.50	8.50	8.25	8.24	7.92				
Sember, Cindy (GBR) (1994)	time	2.52	3.54	4.52	5.52	6.49	7.47	8.47	9.45	10.47	11.50	12.73	12.73	3 / 3			
	reaction time	0.161													3.00	2.95	3.03
	interval		1.02	0.98	1.00	0.97	0.98	1.00	0.98	1.02	1.03	1.23	7.86		8.50	8.64	8.42
	velocity	5.16	8.33	8.67	8.50	8.76	8.67	8.50	8.67	8.33	8.25	8.17	7.86				
Samba-Mayela, Cyréna (FRA) (2000)	time	2.44	3.44	4.44	5.42	6.42	7.40	8.40	9.42	10.44	11.50	12.76	12.76	4 / 4			
	reaction time	0.123													2.98	2.98	3.10
	interval		1.00	1.00	0.98	1.00	0.98	1.00	1.02	1.02	1.06	1.26	7.84		8.56	8.56	8.23
	velocity	5.33	8.50	8.50	8.67	8.50	8.67	8.50	8.33	8.33	8.02	7.98	7.84				
Clay, Liz (AUS) (1995)	time	2.50	3.53	4.53	5.51	6.52	7.52	8.53	9.56	10.59	11.62	12.89	12.89	6 / 5			
	reaction time	0.149													3.01	3.02	3.09
	interval		1.03	1.00	0.98	1.01	1.00	1.01	1.03	1.03	1.03	1.27	7.76		8.47	8.44	8.25
	velocity	5.20	8.25	8.50	8.67	8.42	8.50	8.42	8.25	8.25	8.25	7.91	7.76				
Kambundji, Ditaji (SUI) (2002)	time	2.48	3.52	4.54	5.54	6.55	7.57	8.58	9.61	10.64	11.68	12.90	12.90	1 / 6			
	reaction time	0.145													3.06	3.04	3.10
	interval		1.04	1.02	1.00	1.01	1.02	1.01	1.03	1.03	1.04	1.22	7.75		8.33	8.39	8.23
	velocity	5.24	8.17	8.33	8.50	8.42	8.33	8.42	8.25	8.25	8.17	7.75	7.75				
Bapté, Laetitia (FRA) (1999)	time	2.50	3.57	4.60	5.60	6.59	7.60	8.61	9.64	10.69	11.76	13.05	13.05	2 / 7			
	reaction time	0.157													3.10	3.01	3.15
	interval		7 steps 1.07	1.03	1.00	0.99	1.01	1.01	1.03	1.03	1.05	1.29	7.66		8.23	8.47	8.10
	velocity	5.20	7.94	8.25	8.50	8.59	8.42	8.42	8.25	8.10	7.94	7.79	7.66				



Evaluated with: ObjectusVideo  
 Quality & Frame Rate: 1280 x 720 @ 50fps  
 Timing From: First Movement  
 Source: <https://www.youtube.com/watch?v=0Onww33Czs>



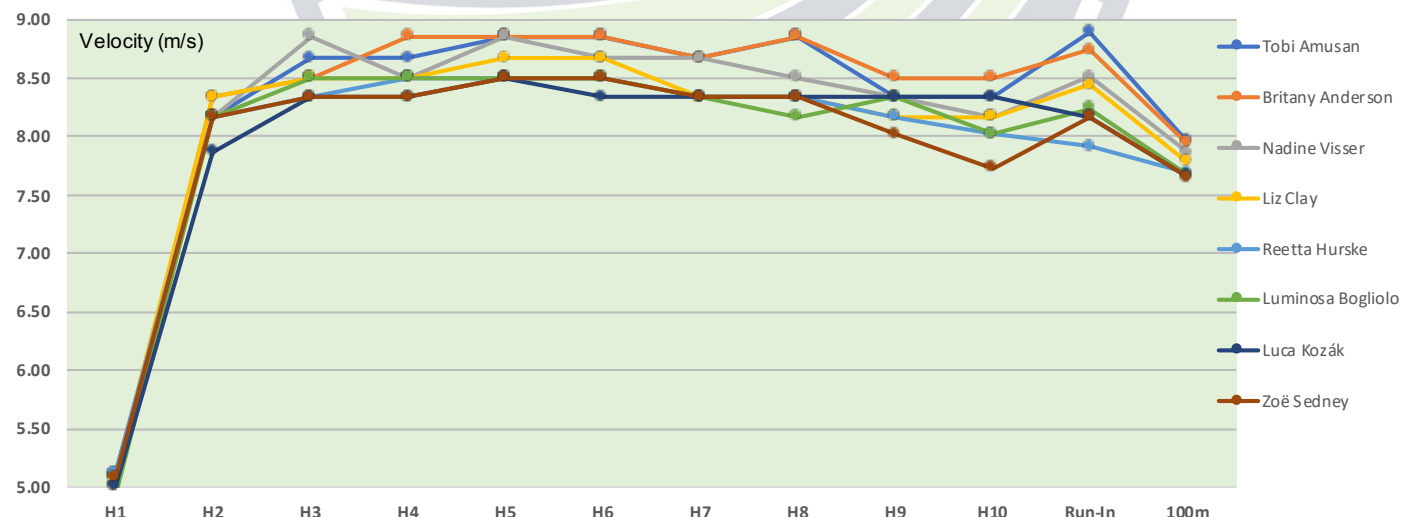
2022 Paavo Nurmi Games (Turku, FIN) (TV Analysis)

100m Hurdles

Date: 2022.06.14 Wind: 0.2 m/s

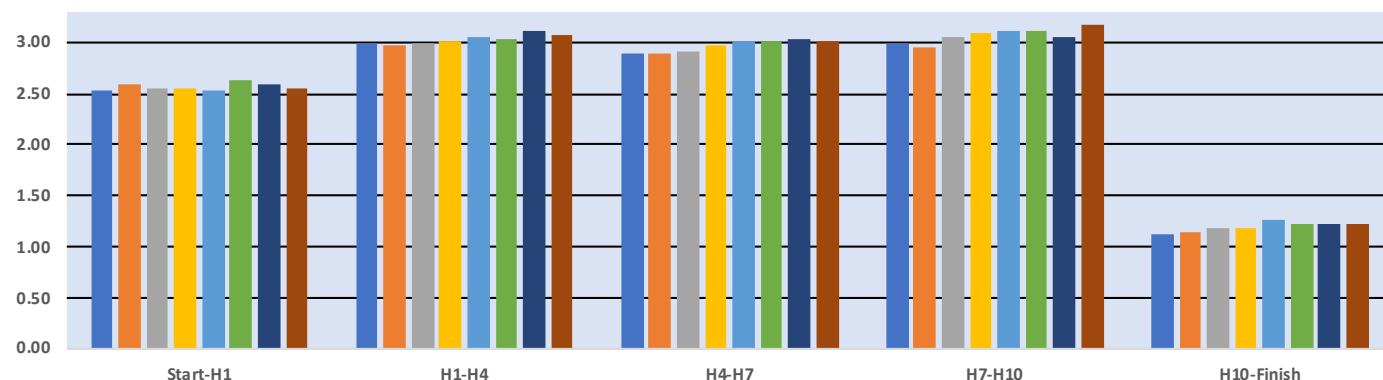
FINAL

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	100m	Lane/Place	H1-H4	H4-H7	H7-H10
<b>Amusan, Tobi (NGR) (1997)</b>	time	2.54	3.58	4.56	5.54	6.50	7.46	8.44	9.40	10.42	11.44		12.57	6 / 1			
	reaction time	0.164													3.00	2.90	3.00
	interval		1.04	0.98	0.98	0.96	0.96	0.98	0.96	1.02	1.02	1.13			8.50	8.79	8.50
	velocity	5.12	8.17	8.67	8.67	8.85	8.85	8.67	8.85	8.33	8.33	8.89	7.96				
<b>Anderson, Britany (JAM) (2001)</b>	time	2.60	3.62	4.62	5.58	6.54	7.50	8.48	9.44	10.44	11.44		12.59	4 / 2			
	reaction time	0.223													2.98	2.90	2.96
	interval		1.02	1.00	0.96	0.96	0.96	0.98	0.96	1.00	1.00	1.15			8.56	8.79	8.61
	velocity	5.00	8.33	8.50	8.85	8.85	8.85	8.67	8.85	8.50	8.50	8.74	7.94				
<b>Visser, Nadine (NED) (1995)</b>	time	2.56	3.60	4.56	5.56	6.52	7.50	8.48	9.48	10.50	11.54		12.72	5 / 3			
	reaction time	0.167													3.00	2.92	3.06
	interval		1.04	0.96	1.00	0.96	0.98	0.98	1.00	1.02	1.04	1.18			8.50	8.73	8.33
	velocity	5.08	8.17	8.85	8.50	8.85	8.67	8.67	8.50	8.33	8.17	8.52	7.86				
<b>Clay, Liz (AUS) (1995)</b>	time	2.56	3.58	4.58	5.58	6.56	7.54	8.56	9.58	10.62	11.66		12.85	3 / 4			
	reaction time	0.122													3.02	2.98	3.10
	interval		1.02	1.00	1.00	0.98	0.98	1.02	1.02	1.04	1.04	1.19			8.44	8.56	8.23
	velocity	5.08	8.33	8.50	8.50	8.67	8.67	8.33	8.33	8.17	8.17	8.45	7.78				
<b>Hurske, Reetta (FIN) (1995)</b>	time	2.54	3.58	4.60	5.60	6.60	7.60	8.62	9.64	10.68	11.74		13.01	8 / 5			
	reaction time	0.169													3.06	3.02	3.12
	interval		1.04	1.02	1.00	1.00	1.00	1.02	1.02	1.04	1.06	1.27			8.33	8.44	8.17
	velocity	5.12	8.17	8.33	8.50	8.50	8.50	8.33	8.33	8.17	8.02	7.91	7.69				
<b>Bogliolo, Luminosa (ITA) (1995)</b>	time	2.64	3.68	4.68	5.68	6.68	7.68	8.70	9.74	10.76	11.82		13.04	2 / 6			
	reaction time	0.195													3.04	3.02	3.12
	interval		1.04	1.00	1.00	1.00	1.00	1.02	1.04	1.02	1.06	1.22			8.39	8.44	8.17
	velocity	4.92	8.17	8.50	8.50	8.50	8.50	8.33	8.17	8.33	8.02	8.24	7.67				
<b>Kozák, Luca (HUN) (1996)</b>	time	2.60	3.68	4.70	5.72	6.72	7.74	8.76	9.78	10.80	11.82		13.05	1 / 7			
	reaction time	0.147													3.12	3.04	3.06
	interval		1.08	1.02	1.02	1.00	1.02	1.02	1.02	1.02	1.02	1.23			8.17	8.39	8.33
	velocity	5.00	7.87	8.33	8.33	8.50	8.33	8.33	8.33	8.33	8.33	8.17	7.66				
<b>Sedney, Zoë (NED) (2001)</b>	time	2.56	3.60	4.62	5.64	6.64	7.64	8.66	9.68	10.74	11.84		13.07	7 / 8			
	reaction time	0.165													3.08	3.02	3.18
	interval		1.04	1.02	1.02	1.00	1.00	1.02	1.02	1.06	1.10	1.23			8.28	8.44	8.02
	velocity	5.08	8.17	8.33	8.33	8.50	8.50	8.33	8.33	8.02	7.73	8.17	7.65				



Time Intervals (s)

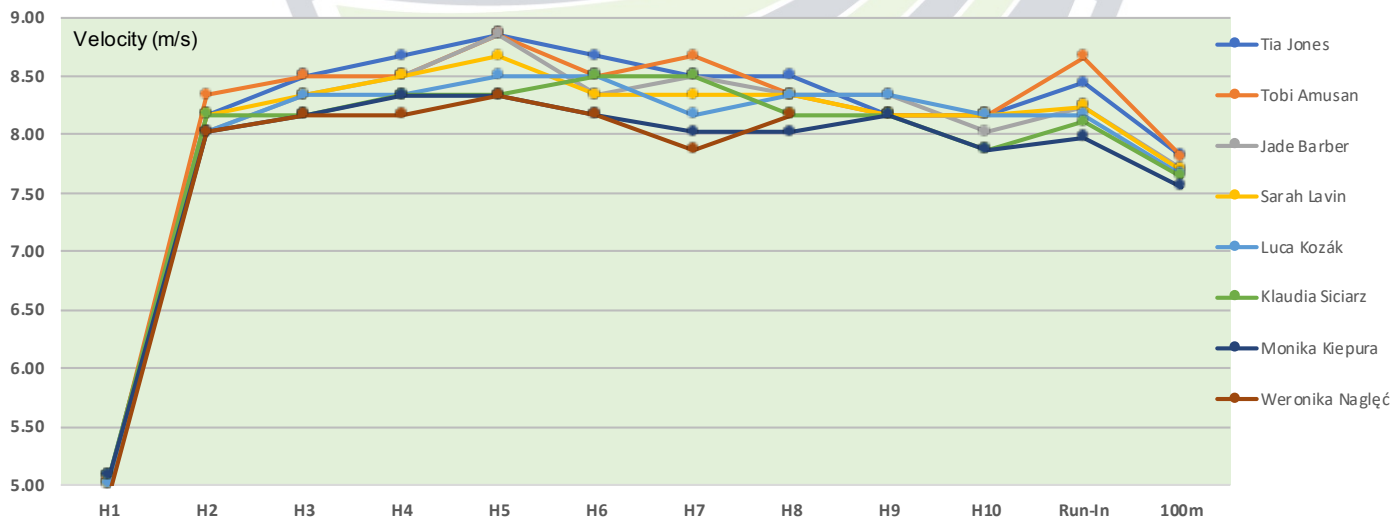
Hurdle Phases



Evaluated with: ObjectusVideo  
 Quality & Frame Rate: 1920 x 1080 @ 30fps  
 Timing From: First Movement  
 Source: <https://www.youtube.com/watch?v=Lndv0orzii4>

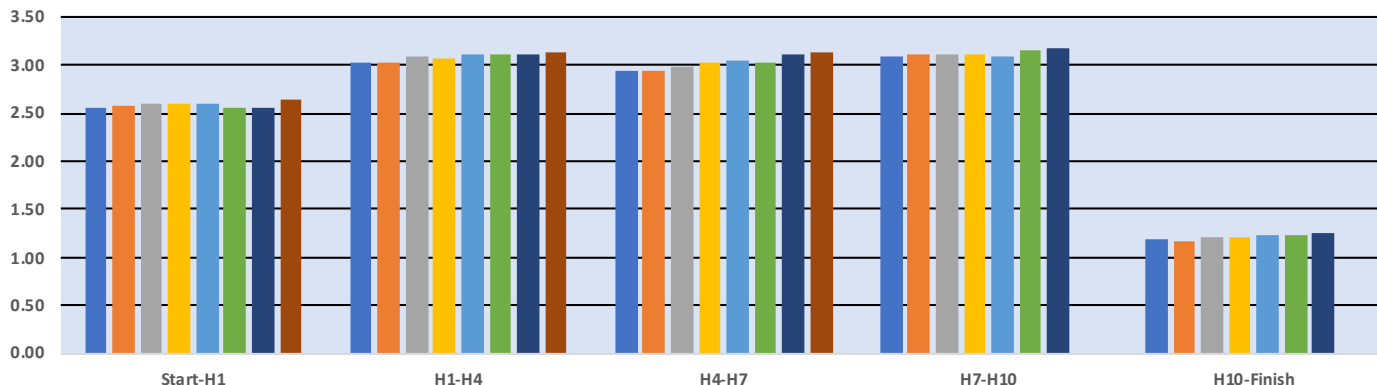
2022 Irena Szewinska Memorial (Bydgoszcz, POL) (TV Analysis)

100m Hurdles		Date: 2022.06.03	Wind: 0.2 m/s										FINAL				
		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	100m	Lane/Place	H1-H4	H4-H7	H7-H10
Jones, Tia (USA) (2000)	time	2.56	3.60	4.60	5.58	6.54	7.52	8.52	9.52	10.56	11.60		12.79	5 / 1			
	reaction time											1.19			3.02	2.94	3.08
	interval		1.04	1.00	0.98	0.96	0.98	1.00	1.00	1.04	1.04	1.19			8.44	8.67	8.28
	velocity	5.08	8.17	8.50	8.67	8.85	8.67	8.50	8.50	8.17	8.17	8.45	7.82				
Amusan, Tobi (NGR) (1997)	time	2.58	3.60	4.60	5.60	6.56	7.56	8.54	9.56	10.60	11.64		12.80	6 / 2			
	reaction time											1.16			3.02	2.94	3.10
	interval		1.02	1.00	1.00	0.96	1.00	0.98	1.02	1.04	1.04	1.16			8.44	8.67	8.23
	velocity	5.04	8.33	8.50	8.50	8.85	8.50	8.67	8.33	8.17	8.17	8.66	7.81				
Barber, Jade (USA) (1993)	time	2.60	3.66	4.68	5.68	6.64	7.66	8.66	9.68	10.70	11.76		12.98	8 / 3			
	reaction time											1.22			3.08	2.98	3.10
	interval		1.06	1.02	1.00	0.96	1.02	1.00	1.02	1.02	1.06	1.22			8.28	8.56	8.23
	velocity	5.00	8.02	8.33	8.50	8.85	8.33	8.50	8.33	8.33	8.02	8.24	7.70				
Lavin, Sarah (IRL) (1994)	time	2.60	3.64	4.66	5.66	6.64	7.66	8.68	9.70	10.74	11.78		13.00	4 / 4			
	reaction time											1.22			3.06	3.02	3.10
	interval		1.04	1.02	1.00	0.98	1.02	1.02	1.02	1.04	1.04	1.22			8.33	8.44	8.23
	velocity	5.00	8.17	8.33	8.50	8.67	8.33	8.33	8.33	8.17	8.17	8.24	7.69				
Kozák, Luca (HUN) (1996)	time	2.60	3.66	4.68	5.70	6.70	7.70	8.74	9.76	10.78	11.82		13.05	9 / 5			
	reaction time											1.23			3.10	3.04	3.08
	interval		1.06	1.02	1.02	1.00	1.00	1.04	1.02	1.02	1.04	1.23			8.23	8.39	8.28
	velocity	5.00	8.02	8.33	8.33	8.50	8.50	8.17	8.33	8.33	8.17	8.17	7.66				
Siciarz, Klaudia (POL) (1998)	time	2.56	3.60	4.64	5.66	6.68	7.68	8.68	9.72	10.76	11.84		13.08	7 / 6			
	reaction time											1.24			3.10	3.02	3.16
	interval		7 steps	1.04	1.04	1.02	1.00	1.00	1.04	1.04	1.08	1.24			8.23	8.44	8.07
	velocity	5.08	8.17	8.17	8.33	8.33	8.50	8.50	8.17	8.17	7.87	8.10	7.65				
Kiepusa, Monika (POL) (2000)	time	2.56	3.62	4.66	5.68	6.70	7.74	8.80	9.86	10.90	11.98		13.24	3 / 7			
	reaction time											1.26			3.12	3.12	3.18
	interval		1.06	1.04	1.02	1.02	1.04	1.06	1.06	1.04	1.08	1.26			8.17	8.17	8.02
	velocity	5.08	8.02	8.17	8.33	8.33	8.17	8.02	8.02	8.17	7.87	7.98	7.55				
Nagłec, Weronika (POL) (2002)	time	2.64	3.70	4.74	5.78	6.80	7.84	8.92	9.96				dnf	2 / --			
	reaction time												DQ		3.14	3.14	
	interval		1.06	1.04	1.04	1.02	1.04	1.08	1.04						8.12	8.12	
	velocity	4.92	8.02	8.17	8.17	8.33	8.17	7.87	8.17								



Time Intervals (s)

Hurdle Phases



Evaluated with: ObjectusVideo  
 Quality & Frame Rate: 1920 x 1080 @ 30fps  
 Timing From: First Movement  
 Source: <https://www.youtube.com/watch?v=oNCi3zBNEi8>

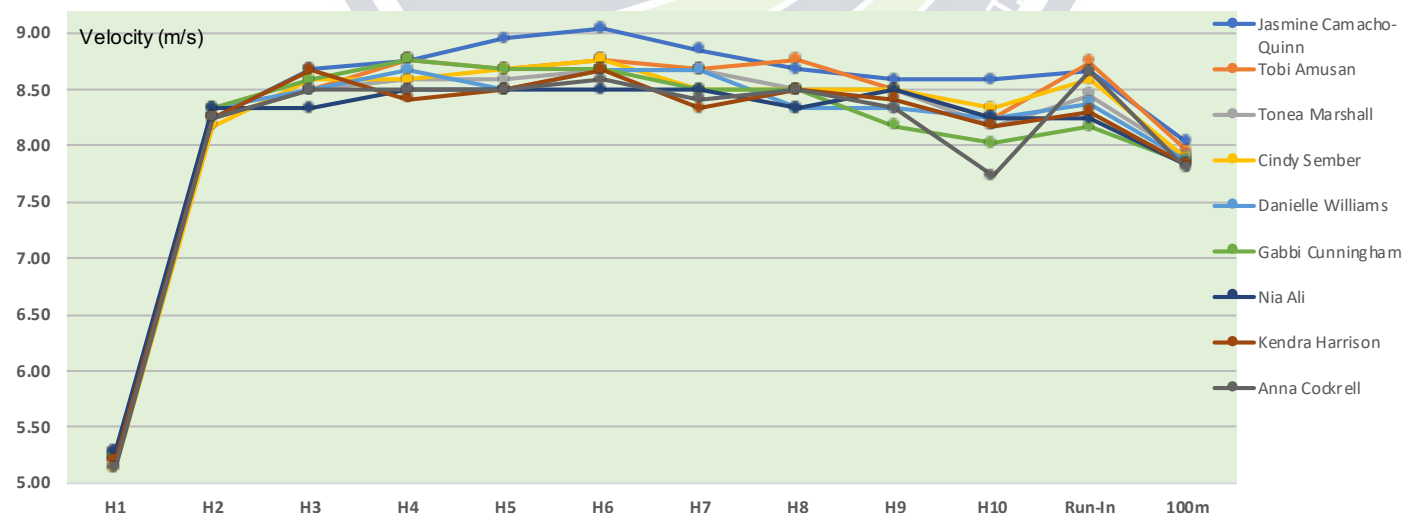
2022 Prefontaine Classic (Eugene, OR) (TV Analysis)

100m Hurdles

Date: 2022.05.28 Wind: -0.7 m/s

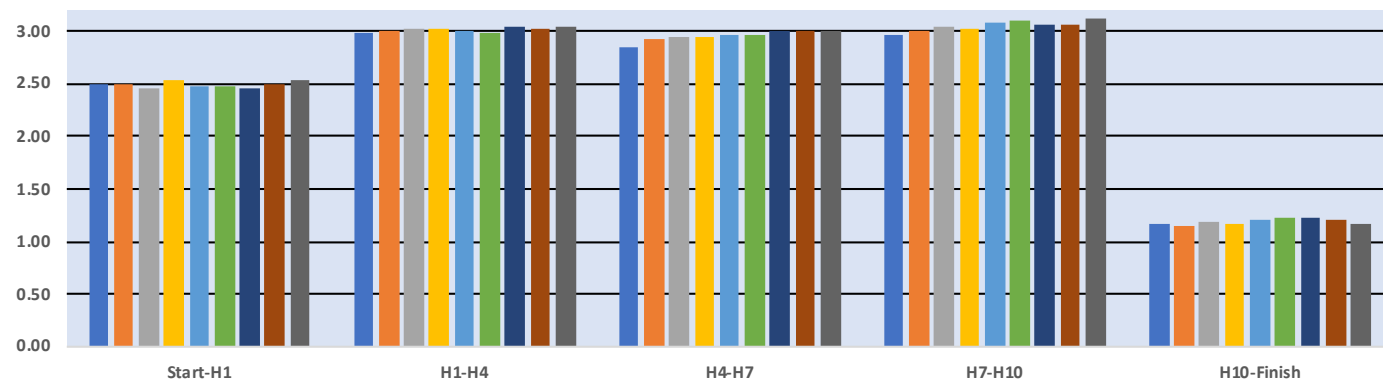
FINAL

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	100m	Lane/Place	H1-H4	H4-H7	H7-H10
<b>Camacho-Quinn, Jasmine (PUR) (199)</b>	time	2.50	3.53	4.51	5.48	6.43	7.37	8.33	9.31	10.30	11.29		12.45	5 / 1			
	reaction time	0.132													2.98	2.85	2.96
	interval		1.03	0.98	0.97	0.95	0.94	0.96	0.98	0.99	0.99	1.16			8.56	8.95	8.61
	velocity	5.20	8.25	8.67	8.76	8.95	9.04	8.85	8.67	8.59	8.59	8.66	8.03				
<b>Amusan, Tobi (NGR) (1997)</b>	time	2.50	3.53	4.53	5.50	6.48	7.45	8.43	9.40	10.40	11.43		12.58	8 / 2			
	reaction time	0.150													3.00	2.93	3.00
	interval		1.03	1.00	0.97	0.98	0.97	0.98	0.97	1.00	1.03	1.15			8.50	8.70	8.50
	velocity	5.20	8.25	8.50	8.76	8.67	8.76	8.67	8.76	8.50	8.25	8.74	7.95				
<b>Marshall, Tonea (USA) (1998)</b>	time	2.46	3.49	4.49	5.48	6.47	7.45	8.43	9.43	10.43	11.47		12.66	4 / 3			
	reaction time	0.127													3.02	2.95	3.04
	interval		1.03	1.00	0.99	0.99	0.98	0.98	1.00	1.00	1.04	1.19			8.44	8.64	8.39
	velocity	5.28	8.25	8.50	8.59	8.59	8.67	8.67	8.50	8.50	8.17	8.45	7.90				
<b>Sember, Cindy (GBR) (1994)</b>	time	2.53	3.57	4.56	5.55	6.53	7.50	8.50	9.50	10.50	11.52		12.69	2 / 4			
	reaction time	0.149													3.02	2.95	3.02
	interval		1.04	0.99	0.99	0.98	0.97	1.00	1.00	1.00	1.02	1.17			8.44	8.64	8.44
	velocity	5.14	8.17	8.59	8.59	8.67	8.76	8.50	8.50	8.50	8.33	8.59	7.88				
<b>Williams, Danielle (JAM) (1992)</b>	time	2.48	3.50	4.50	5.48	6.48	7.46	8.44	9.46	10.48	11.51		12.71	3 / 5			
	reaction time	0.139													3.00	2.96	3.07
	interval		1.02	1.00	0.98	1.00	0.98	0.98	1.02	1.02	1.03	1.20			8.50	8.61	8.31
	velocity	5.24	8.33	8.50	8.67	8.50	8.67	8.67	8.33	8.33	8.25	8.37	7.87				
<b>Cunningham, Gabbi (USA) (1998)</b>	time	2.48	3.50	4.49	5.46	6.44	7.42	8.42	9.42	10.46	11.52		12.75	1 / 6			
	reaction time	0.170													2.98	2.96	3.10
	interval		1.02	0.99	0.97	0.98	0.98	1.00	1.00	1.04	1.06	1.23			8.56	8.61	8.23
	velocity	5.24	8.33	8.59	8.76	8.67	8.67	8.50	8.50	8.17	8.02	8.17	7.84				
<b>Ali, Nia (USA) (1988)</b>	time	2.46	3.48	4.50	5.50	6.50	7.50	8.50	9.52	10.52	11.55		12.77	7 / 7			
	reaction time	0.144													3.04	3.00	3.05
	interval		1.02	1.02	1.00	1.00	1.00	1.00	1.02	1.00	1.03	1.22			8.39	8.50	8.36
	velocity	5.28	8.33	8.33	8.50	8.50	8.50	8.50	8.33	8.50	8.25	8.24	7.83				
<b>Harrison, Kendra (USA) (1992)</b>	time	2.50	3.53	4.51	5.52	6.52	7.50	8.52	9.52	10.53	11.57		12.78	6 / 8			
	reaction time	0.144													3.02	3.00	3.05
	interval		1.03	0.98	1.01	1.00	0.98	1.02	1.00	1.01	1.04	1.21			8.44	8.50	8.36
	velocity	5.20	8.25	8.67	8.42	8.50	8.67	8.33	8.50	8.42	8.17	8.31	7.82				
<b>Cockrell, Anna (USA) (1997)</b>	time	2.53	3.56	4.56	5.56	6.56	7.55	8.56	9.56	10.58	11.68		12.84	9 / 9			
	reaction time	0.115													3.03	3.00	3.12
	interval		1.03	1.00	1.00	1.00	0.99	1.01	1.00	1.02	1.10	1.16			8.42	8.50	8.17
	velocity	5.14	8.25	8.50	8.50	8.50	8.59	8.42	8.50	8.33	7.73	8.66	7.79				



Time Intervals (s)

Hurdle Phases



Evaluated with: ObjectusVideo  
 Quality & Frame Rate: 1920 x 1080 @ 30fps  
 Timing From: First Movement  
 Source: <https://www.youtube.com/watch?v=KZZSTexdh0&t=29s>

2022 Doha Diamond League (Doha, QAT) (TV Analysis)

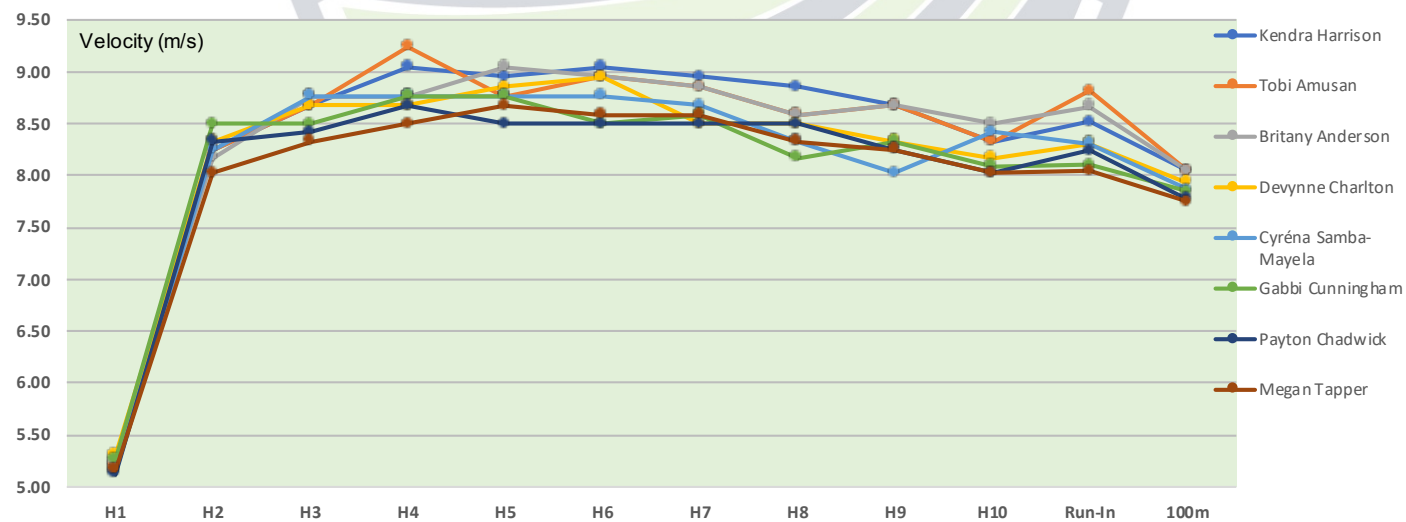
100m Hurdles

Date: 2022.05.13

Wind: 3.8 m/s

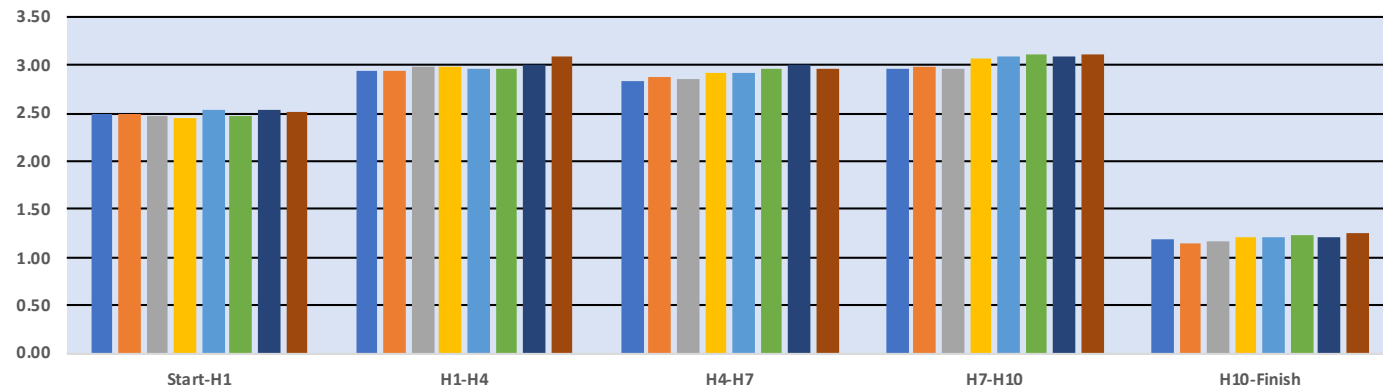
FINAL

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	100m	Lane/Place	H1-H4	H4-H7	H7-H10
Harrison, Kendra (USA) (1992)	time	2.50	3.53	4.51	5.45	6.40	7.34	8.29	9.25	10.23	11.25		12.43	4 / 1			
	reaction time	0.159													2.95	2.84	2.96
	interval		1.03	0.98	0.94	0.95	0.94	0.95	0.96	0.98	1.02	1.18			8.64	8.98	8.61
	velocity	5.20	8.25	8.67	9.04	8.95	9.04	8.95	8.85	8.67	8.33	8.52	8.05				
Amusan, Tobi (NGR) (1997)	time	2.50	3.53	4.51	5.43	6.40	7.35	8.31	9.30	10.28	11.30		12.44	6 / 2			
	reaction time	0.171													2.93	2.88	2.99
	interval		1.03	0.98	0.92	0.97	0.95	0.96	0.99	0.98	1.02	1.14			8.70	8.85	8.53
	velocity	5.20	8.25	8.67	9.24	8.76	8.95	8.85	8.59	8.67	8.33	8.82	8.04				
Anderson, Britany (JAM) (2001)	time	2.48	3.52	4.49	5.46	6.40	7.35	8.31	9.30	10.28	11.28		12.44	2 / 3			
	reaction time	0.154													2.98	2.85	2.97
	interval		1.04	0.97	0.97	0.94	0.95	0.96	0.99	0.98	1.00	1.16			8.56	8.95	8.59
	velocity	5.24	8.17	8.76	8.76	9.04	8.95	8.85	8.59	8.67	8.50	8.66	8.04				
Charlton, Devynne (BAH) (1995)	time	2.45	3.47	4.45	5.43	6.39	7.34	8.34	9.34	10.36	11.40		12.61	7 / 4			
	reaction time	0.154													2.98	2.91	3.06
	interval		1.02	0.98	0.98	0.96	0.95	1.00	1.00	1.02	1.04	1.21			8.56	8.76	8.33
	velocity	5.31	8.33	8.67	8.67	8.85	8.95	8.50	8.50	8.33	8.17	8.31	7.93				
Samba-Mayela, Cyréna (FRA) (2000)	time	2.53	3.56	4.53	5.50	6.47	7.44	8.42	9.44	10.50	11.51		12.72	5 / 5			
	reaction time	0.169													2.97	2.92	3.09
	interval		1.03	0.97	0.97	0.97	0.97	0.98	1.02	1.06	1.01	1.21			8.59	8.73	8.25
	velocity	5.14	8.25	8.76	8.76	8.76	8.76	8.67	8.33	8.02	8.42	8.31	7.86				
Cunningham, Gabriele (USA) (1998)	time	2.47	3.47	4.47	5.44	6.41	7.41	8.40	9.44	10.46	11.51		12.75	8 / 6			
	reaction time	0.157													2.97	2.96	3.11
	interval		1.00	1.00	0.97	0.97	1.00	0.99	1.04	1.02	1.05	1.24			8.59	8.61	8.20
	velocity	5.26	8.50	8.50	8.76	8.76	8.50	8.59	8.17	8.33	8.10	8.10	7.84				
Chadwick, Payton (USA) (1995)	time	2.54	3.56	4.57	5.55	6.55	7.55	8.55	9.55	10.58	11.64		12.86	1 / 7			
	reaction time	0.156													3.01	3.00	3.09
	interval		1.02	1.01	0.98	1.00	1.00	1.00	1.00	1.03	1.06	1.22			8.47	8.50	8.25
	velocity	5.12	8.33	8.42	8.67	8.50	8.50	8.50	8.50	8.25	8.02	8.24	7.78				
Tapper, Megan (JAM) (1994)	time	2.52	3.58	4.60	5.60	6.58	7.57	8.56	9.58	10.61	11.67		12.92	3 / 8			
	reaction time	0.153													3.08	2.96	3.11
	interval		1.06	1.02	1.00	0.98	0.99	0.99	1.02	1.03	1.06	1.25			8.28	8.61	8.20
	velocity	5.16	8.02	8.33	8.50	8.67	8.59	8.59	8.33	8.25	8.02	8.04	7.74				



Time Intervals (s)

Hurdle Phases



Evaluated with: ObjectusVideo  
 Quality & Frame Rate: 1920 x 1078 @ 30fps  
 Timing From: First Movement  
 Source: [https://www.youtube.com/watch?v=hghnuRk\\_eY0](https://www.youtube.com/watch?v=hghnuRk_eY0)

2022 Golden Games (Walnut, CA) (TV Analysis)

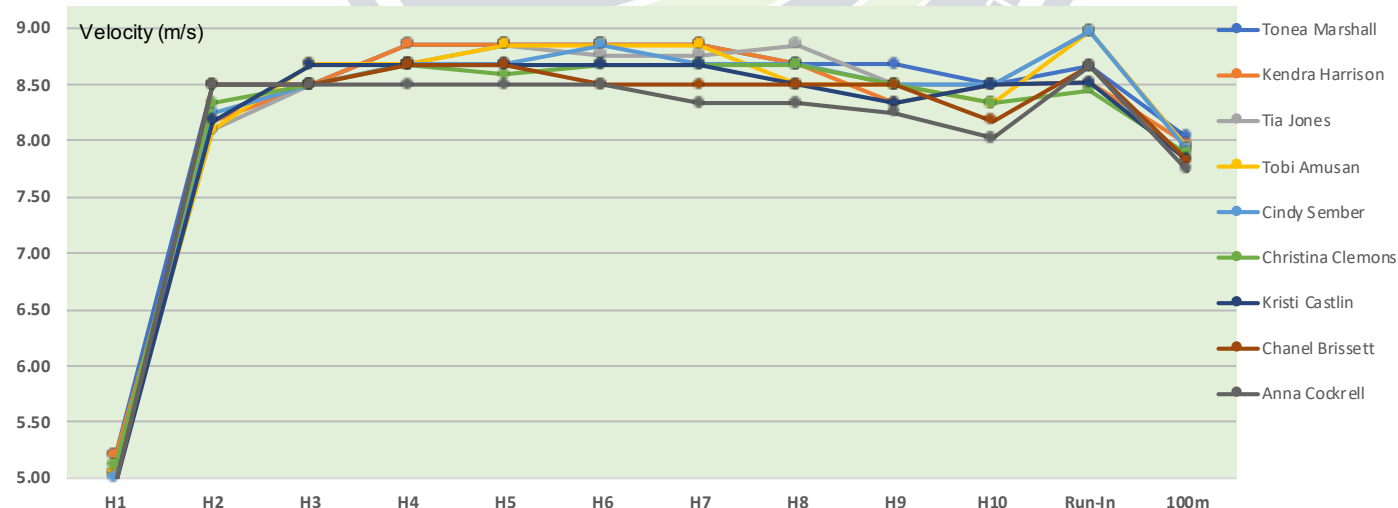
100m Hurdles

Date: 2022.04.22

Wind: 0.8 m/s

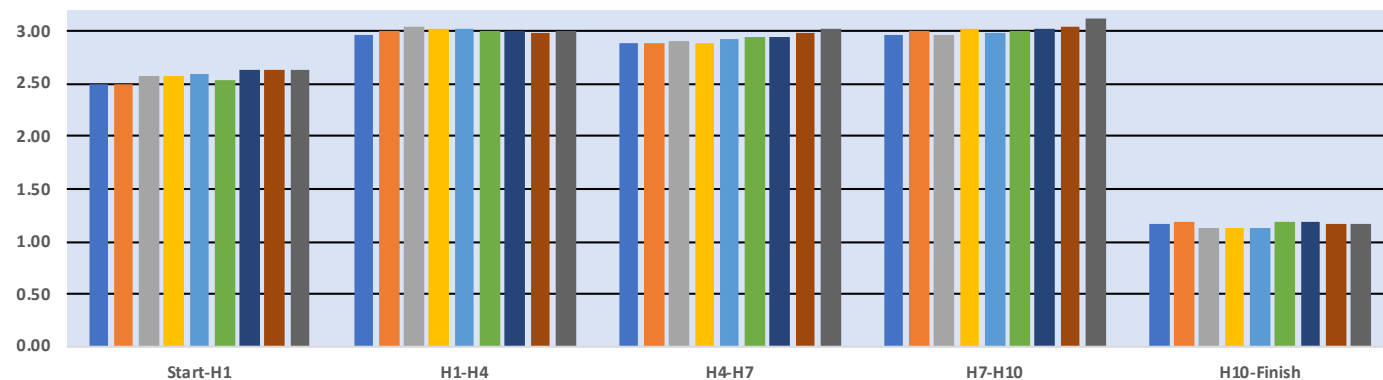
FINAL

		H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	Run-In	100m	Lane/Place	H1-H4	H4-H7	H7-H10
Marshall, Tonea (USA) (1998)	time	2.50	3.50	4.50	5.46	6.42	7.38	8.34	9.32	10.30	11.30		12.46	6 / 1			
	reaction time														2.96	2.88	2.96
	interval		1.00	1.00	0.96	0.96	0.96	0.96	0.98	0.98	1.00	1.16			8.61	8.85	8.61
	velocity	5.20	8.50	8.50	8.85	8.85	8.85	8.85	8.67	8.67	8.50	8.66	8.03				
Harrison, Kendra (USA) (1992)	time	2.50	3.54	4.54	5.50	6.46	7.42	8.38	9.36	10.38	11.38		12.56	4 / 2			
	reaction time														3.00	2.88	3.00
	interval		1.04	1.00	0.96	0.96	0.96	0.96	0.98	1.02	1.00	1.18			8.50	8.85	8.50
	velocity	5.20	8.17	8.50	8.85	8.85	8.85	8.85	8.67	8.33	8.50	8.52	7.96				
Jones, Tia (USA) (2000)	time	2.58	3.63	4.63	5.61	6.57	7.54	8.51	9.47	10.47	11.47		12.59	9 / 3			
	reaction time														3.03	2.90	2.96
	interval		1.05	1.00	0.98	0.96	0.97	0.97	0.96	1.00	1.00	1.12	PB		8.42	8.79	8.61
	velocity	5.04	8.10	8.50	8.67	8.85	8.76	8.76	8.85	8.50	8.50	8.97	7.94				
Amusan, Tobi (NGR) (1997)	time	2.58	3.63	4.61	5.59	6.55	7.51	8.47	9.47	10.47	11.49		12.61	5 / 4			
	reaction time														3.01	2.88	3.02
	interval		1.05	0.98	0.98	0.96	0.96	0.96	1.00	1.00	1.02	1.12			8.47	8.85	8.44
	velocity	5.04	8.10	8.67	8.67	8.85	8.85	8.85	8.50	8.50	8.33	8.97	7.93				
Sember, Cindy (GBR) (1994)	time	2.60	3.63	4.63	5.61	6.59	7.55	8.53	9.51	10.51	11.51		12.63	3 / 5			
	reaction time														3.01	2.92	2.98
	interval		1.03	1.00	0.98	0.98	0.96	0.98	0.98	1.00	1.00	1.12			8.47	8.73	8.56
	velocity	5.00	8.25	8.50	8.67	8.67	8.85	8.67	8.67	8.50	8.50	8.97	7.92				
Clemons, Christina (USA) (1990)	time	2.54	3.56	4.56	5.54	6.53	7.51	8.49	9.47	10.47	11.49		12.68	7 / 6			
	reaction time														3.00	2.95	3.00
	interval		1.02	1.00	0.98	0.99	0.98	0.98	0.98	1.00	1.02	1.19			8.50	8.64	8.50
	velocity	5.12	8.33	8.50	8.67	8.59	8.67	8.67	8.67	8.50	8.33	8.45	7.89				
Castlin, Kristi (USA) (1988)	time	2.63	3.67	4.65	5.63	6.61	7.59	8.57	9.57	10.59	11.59		12.77	2 / 7			
	reaction time														3.00	2.94	3.02
	interval		1.04	0.98	0.98	0.98	0.98	0.98	1.00	1.02	1.00	1.18			8.50	8.67	8.44
	velocity	4.94	8.17	8.67	8.67	8.67	8.67	8.67	8.50	8.33	8.50	8.52	7.83				
Brissett, Chanel (USA) (1999)	time	2.63	3.63	4.63	5.61	6.59	7.59	8.59	9.59	10.59	11.63		12.79	8 / 8			
	reaction time														2.98	2.98	3.04
	interval		1.00	1.00	0.98	0.98	1.00	1.00	1.00	1.00	1.04	1.16			8.56	8.56	8.39
	velocity	4.94	8.50	8.50	8.67	8.67	8.50	8.50	8.50	8.50	8.17	8.66	7.82				
Cockrell, Anna (USA) (1997)	time	2.63	3.63	4.63	5.63	6.63	7.63	8.65	9.67	10.70	11.76		12.92	1 / 9			
	reaction time														3.00	3.02	3.11
	interval		1.00	1.00	1.00	1.00	1.00	1.02	1.02	1.03	1.06	1.16			8.50	8.44	8.20
	velocity	4.94	8.50	8.50	8.50	8.50	8.50	8.33	8.33	8.25	8.02	8.66	7.74				



Time Intervals (s)

Hurdle Phases



Evaluated with: ObjectusVideo  
 Quality & Frame Rate: 1920 x 1080 @ 30fps  
 Timing From: Gun Flash  
 Source: <https://www.youtube.com/watch?v=QWI01kPXsik>