

TRIPLE JUMP

During the World Championships in Athletics in August 1995 in Gothenburg Sweden, a research group had access to videotape the final of the mens triple jump. In this competition Jonathan Edwards broke the existing world record twice. The research group consisted of Per Aagaard, Morten Havkrog, Erik B. Simonsen, Gideon Ariel and Leif Dahlberg. The hop, step and jump were recorded by separate cameras with a shutter of 1/1000 sec. Later the 9 best athletes of the final were analysed by the APAS system.

The world record in triple jump of 18.29m by J. Edwards, UK.

(Right click on the file and select 'play movie')

HOP	Result	Height of CM at heel strike	Minimum height of CM	Height of CM at toe off	Velocity at heel strike	Minimum velocity	Velocity at toe off	Take off angle
Edwards	18.29	1.00	1.00	1.20	9.60	9.26	9.60	16
Edwards	18.16	1.01	1.00	1.18	9.90	9.40	9.43	15
Wellman	17.62	0.94	0.94	1.08	9.61	8.90	9.00	14
Romain	17.59	0.91	0.91	1.05	9.65	8.91	9.10	14
Quesada	17.59	1.03	1.02	1.16	9.33	8.58	8.89	15
Garcia	17.16	1.02	1.01	1.19	9.67	8.93	9.02	15
Beckford	17.13	0.99	0.99	1.15	9.90	9.11	9.74	15
Conley	16.96	0.99	0.98	1.10	9.61	9.42	9.49	11
Georgiev	16.93	1.02	1.01	1.25	10.69	10.61	10.70	11
Henriksson	16.92	1.03	1.02	1.19	8.65	8.13	8.40	16

STEP	Result	Height of CM at heel strike	Minimum height of CM	Height of CM at toe off	Velocity at heel strike	Minimum velocity	Velocity at toe off	Take off angle
Edwards	18.29	0.98	0.97	1.07	9.10	8.04	8.04	14.5
Edwards	18.16	1.01	0.99	1.09	9.05	8.22	8.34	15
Wellman	17.62	0.92	0.89	1.05	8.88	7.62	7.88	17
Romain	17.59	0.95	0.91	0.99	8.40	7.78	8.03	11
Quesada	17.59	0.98	0.92	1.12	8.28	7.41	7.70	17
Garcia	17.16	1.02	0.98	1.08	8.52	7.04	7.33	13
Beckford	17.13	-	-	-	-	-	-	-
Conley	16.96	0.99	0.97	1.13	9.02	8.40	8.68	11
Georgiev	16.93	1.02	1.00	1.15	8.70	7.41	7.80	16
Henriksson	16.92	1.03	1.00	1.20	8.64	7.71	7.82	17

JUMP	Result	Height of CM at heel strike	Minimum height of CM	Height of CM at toe off	Velocity at heel strike	Minimum velocity	Velocity at toe off	Take off angle
Edwards	18.29	0.97	0.96	1.18	7.80	6.70	7.10	19
Edwards	18.16	0.89	0.86	1.11	8.10	6.74	6.94	19
Wellman	17.62	0.88	0.86	1.05	6.80	6.27	6.27	22
Romain	17.59	0.91	0.88	1.12	7.57	6.29	6.97	19
Quesada	17.59	0.98	0.94	1.19	7.28	6.13	6.59	20
Garcia	17.16	1.06	1.03	1.19	7.94	7.15	7.39	18
Beckford	17.13	1.00	0.94	1.10	8.18	7.10	7.10	19
Conley	16.96	1.00	0.97	1.13	8.38	7.17	7.58	16
Georgiev	16.93	1.03	1.01	1.20	7.35	6.11	6.11	22
Henriksson	16.92	1.04	1.02	1.23	6.79	5.28	5.90	22