

2 Mar 1994

Al and Rex-

This package is Men's field event throws. It is to replace this portion of the 1994 bound book Fedexed yesterday.

Per our phoncon, I got out the package Rex sent me last April and found the list of unrepresentative records therein. Using my same program, I removed the records of the listed individuals from the data base and then refitted the men's throws. When I had finished refitting the curves, I then replaced the removed records and printed out the results. Thus, none of the tainted records were used in refitting the throw curves, but the "removed" records can be seen in the page 107 tabulation of F.E. PL of Actual Records and can be seen on the graphs which plot Mens Distance Standards And Records In Meters for each throw event.

I agree that the resulting standards are superior as indicated by the graphs of the resulting Age-Factors, and in addition, better fits result for SP/6K, SP/5K and DT/1.5K particularly. Moreover, the events are now more similar in their graphically seen characteristics and in their equational characteristics. In fact, I would say the results can be used as compelling empirical evidence that those records exceeding the standards by upwards of 5 to 10 percent are clearly out of bounds on some basis.

I also refitted the high jump. The computer liked fitting the additional records of the 30 and 40 year olds, but having 18 year old high schoolers jump at open class world record heights is quite out of the question. The 30 and 40 year olds just aren't doing as well in the HJ as those ages are doing in the PV, LJ and TJ.

I hope this gives you every thing you need. The standards are certainly validated and verified by a wide variety of charts and tabulations.

Chuck

MEN'S FIELD EVENT STANDARDS

AGE	PV	HJ	LJ	TJ	AGE	SP/7.26k	HT/7.26k	AGE	DT/2k	AGE	JT/800g	WT/35Lb		
8	2.70	1.53	4.67	9.09	8									
9	3.22	1.71	5.34	10.76										
10	3.66	1.85	5.90	12.11										
11	4.04	1.97	6.38	13.22										
12	4.37	2.07	6.79	14.14										
13	4.66	2.15	7.15	14.93										
14	4.92	2.22	7.47	15.60	14	15.92	59.15	14	48.74	14	67.21	17.94		
15	5.17	2.28	7.76	16.18	15	17.59	65.13	15	53.87	15	74.22	19.56		
16	5.40	2.33	8.02	16.68	16	18.99	70.07	16	58.19	16	79.97	20.86		
17	5.62	2.37	8.25	17.11	17	20.16	74.16	17	61.83	17	84.69	21.91		
18	5.83	2.41	8.46	17.49	18	21.13	77.55	18	64.91	18	88.54	22.75		
19	6.03	2.44	8.65	17.82	19	21.94	80.35	19	67.51	19	91.65	23.42		
OC	6.13	2.45	8.95	17.97	OC	23.12	86.74	OC	74.08	OC	95.66	24.67		
30	6.13	2.45	8.95	17.97	30	23.11	86.74	30	74.08	30	95.66	24.67		
31	6.09	2.43	8.90	17.97	31	22.81	86.74	31	74.08	31	95.66	24.66		
32	5.99	2.41	8.80	17.97	32	22.50	86.61	32	73.45	32	94.80	24.48		
33	5.90	2.39	8.70	17.92	33	22.19	85.83	33	72.65	33	93.65	24.27		
34	5.81	2.37	8.60	17.76	34	21.87	84.99	34	71.81	34	92.45	24.04		
35	5.73	2.35	8.50	17.59	35	21.55	84.09	35	70.94	35	91.19	23.80		
36	5.65	2.33	8.40	17.42	36	21.23	83.14	36	70.04	36	89.90	23.55		
37	5.57	2.31	8.30	17.25	37	20.90	82.16	37	69.12	37	88.57	23.28		
38	5.50	2.29	8.21	17.08	38	20.58	81.14	38	68.19	38	87.21	23.01		
39	5.43	2.27	8.11	16.90	39	20.25	80.10	39	67.25	39	85.83	22.72		
40	5.36	2.25	8.02	16.72	40	19.93	79.03	40	66.29	40	84.44	22.43		
41	5.29	2.23	7.92	16.55	41	19.60	77.93	41	65.33	41	83.03	22.13		
42	5.22	2.21	7.83	16.37	42	19.28	76.82	42	64.36	42	81.61	21.82		
43	5.16	2.19	7.74	16.19	43	18.97	75.70	43	63.39	43	80.19	21.51		
44	5.10	2.16	7.64	16.01	44	18.65	74.56	44	62.42	44	78.75	21.19		
45	5.03	2.14	7.55	15.83	45	18.33	73.40	45	61.44	45	77.32	20.87		
46	4.97	2.12	7.46	15.65	46	18.02	72.24	46	60.47	46	75.89	20.54		
47	4.91	2.10	7.37	15.47	47	17.71	71.07	47	59.49	47	74.45	20.21		
48	4.85	2.07	7.28	15.29	48	17.40	69.89	48	58.51	48	73.02	19.88		
49	4.78	2.05	7.19	15.10	49	17.09	68.71	49	57.53	49	71.59	19.54		
50	4.72	2.03	7.10	14.92	SP/6k	HT/6k	DT/1.6k	50	70.16	50	70.16	19.20		
51	4.66	2.01	7.01	14.74	50	18.47	74.27	50	65.30	51	68.74	18.86		
52	4.60	1.99	6.92	14.55	51	18.14	72.95	51	64.17	52	67.32	18.52		
53	4.54	1.96	6.83	14.37	52	17.81	71.63	52	63.04	53	65.91	18.17		
54	4.48	1.94	6.74	14.18	53	17.48	70.31	53	61.91	54	64.51	17.83		
55	4.42	1.92	6.65	13.99	54	17.15	68.98	54	60.78	55	63.11	17.48		
56	4.35	1.89	6.56	13.81	55	16.83	67.65	55	59.65	56	61.72	17.13		
57	4.29	1.87	6.47	13.62	56	16.50	66.32	56	58.52	57	60.33	16.78		
58	4.23	1.85	6.38	13.43	57	16.18	64.99	57	57.39	58	58.95	16.43		
59	4.17	1.83	6.29	13.24	58	15.86	63.65	58	56.27	59	57.58	16.08		
60	4.10	1.80	6.20	13.05	59	15.54	62.31	59	55.14	JT/600g	WT/25Lb	60	64.92	18.61
61	4.04	1.78	6.11	12.86	60	16.68	66.79	60	66.15	61	63.35	18.20		
62	3.97	1.76	6.01	12.67	61	16.34	65.32	61	64.76	62	61.79	17.78		
63	3.91	1.73	5.92	12.47	62	15.99	63.86	62	63.38	63	60.25	17.36		
64	3.84	1.71	5.83	12.28	63	15.65	62.39	63	62.00	64	58.71	16.95		
65	3.77	1.68	5.74	12.08	64	15.31	60.92	64	60.61	65	57.18	16.53		
66	3.70	1.66	5.65	11.89	65	14.97	59.44	65	59.23	66	55.66	16.11		
67	3.63	1.64	5.55	11.69	66	14.63	57.97	66	57.84	67	54.15	15.69		
68	3.56	1.61	5.46	11.49	67	14.29	56.50	67	56.45	68	52.64	15.27		
69	3.49	1.59	5.36	11.29	68	13.96	55.03	68	55.06	69	51.15	14.86		
70	3.41	1.56	5.27	11.09	69	13.62	53.56	69	53.67	70	49.67	14.44		
71	3.34	1.54	5.17	10.88	SP/4k	HT/4k	DT/1k	70	52.28	71	48.19	14.02		
72	3.26	1.51	5.08	10.68	70	14.86	58.23	70	50.88	72	46.72	13.60		
73	3.18	1.49	4.98	10.47	71	14.48	56.58	71	49.48	73	45.26	13.18		
74	3.10	1.47	4.88	10.26	72	14.11	54.94	72	48.08	74	43.81	12.77		
75	3.02	1.44	4.78	10.05	73	13.74	53.29	73	46.68	75	42.37	12.35		
76	2.94	1.41	4.68	9.84	74	13.37	51.64	74	45.27	76	40.94	11.93		
77	2.85	1.39	4.58	9.62	75	13.00	49.99	75	43.86	77	39.51	11.52		
78	2.78	1.36	4.48	9.41	76	12.63	48.34	76	42.44	78	38.09	11.10		
79	2.67	1.34	4.37	9.19	77	12.26	46.69	77	41.02	79	36.68	10.68		
80	2.58	1.31	4.27	8.97	78	11.89	45.04	78	39.60	80	35.28	10.27		
81	2.49	1.29	4.16	8.75	79	11.52	43.39	79	38.17	81	33.89	9.85		
82	2.39	1.26	4.06	8.52	80	11.16	41.74	80	36.74	82	32.50	9.44		
83	2.29	1.23	3.95	8.30	81	10.79	40.09	81	35.30	83	31.12	9.02		
84	2.19	1.21	3.84	8.07	82	10.42	38.43	82	33.86	84	29.75	8.61		
85	2.08	1.18	3.73	7.84	83	10.05	36.78	83	32.41	85	28.38	8.19		
86	1.97	1.15	3.62	7.60	84	9.69	35.12	84	30.96	86	27.03	7.78		
87	1.86	1.12	3.51	7.37	85	9.32	33.47	85	29.50	87	25.68	7.37		
88	1.75	1.10	3.39	7.13	86	8.95	31.81	86	28.03	88	24.33	6.96		
89	1.63	1.07	3.27	6.89	87	8.59	30.15	87	26.56	89	23.00	6.54		
90	1.51	1.04	3.16	6.64	88	8.22	28.49	88	25.08	90	21.67	6.13		
91	1.38	1.01	3.04	6.39	89	7.85	26.83	89	23.59	91	20.35	5.72		
92	1.25	0.98	2.92	6.14	90	7.48	25.17	90	22.10	92	19.03	5.31		
93	1.11	0.95	2.79	5.89	91	7.11	23.51	91	20.60	93	17.72	4.90		
94	0.97	0.92	2.67	5.63	92	6.75	21.84	92	19.09	94	16.42	4.49		
95	0.83	0.89	2.54	5.37	93	6.38	20.17	93	17.58	95	15.12	4.08		
96	0.68	0.87	2.41	5.11	94	6.01	18.50	94	16.06	96	13.83	3.67		
97	0.52	0.84	2.28	4.84	95	5.64	16.83	95	14.52	97	12.54	3.26		
98	0.36	0.80	2.15	4.57	96	5.27	15.16	96	12.98	98	11.26	2.85		
99	0.19	0.77	2.01	4.30	97	4.90	13.48	97	11.43	99	9.99	2.44		
100	0.02	0.74	1.88	4.02	98	4.52	11.81	98	9.88	100	8.72	2.03		
					99	4.15	10.13	99	8.31					
					100	3.78	8.45							

MEN'S FIELD EVENT STANDARDS

WT	PV	HJ	LJ	TJ	SP				HT				DT			JT		WT	
					16Lb	6Kg	5Kg	4Kg	16Lb	6Kg	5Kg	4Kg	2Kg	1.5Kg	1Kg	800Gm	600Gm	35Lb	25Lb
AGE	all	all	all	all	30-49	50-59	60-69	70-100	30-49	50-59	60-69	70-100	30-49	50-59	60-100	30-59	60-100	30-59	60-100
8	2.70	1.53		4.67	9.09														
9	3.22	1.71	5.34	10.76															
10	3.66	1.85	5.90	12.11															
11	4.04	1.97	6.38	13.22															
12	4.37	2.07	6.79	14.14															
13	4.66	2.15	7.15	14.93															
14	4.92	2.22	7.47	15.60	15.92	17.51	19.18	21.44	59.15	65.06	71.27	79.69	48.74	56.28	68.93	67.21	77.61	17.94	21.23
15	5.17	2.28	7.76	16.18	17.59	19.35	21.19	23.70	65.13	71.64	78.48	87.74	53.87	62.21	76.19	74.22	85.70	19.56	23.15
16	5.40	2.33	8.02	16.68	18.99	20.88	22.88	25.58	70.07	77.08	84.43	94.40	58.19	67.19	82.29	79.97	92.35	20.86	24.68
17	5.62	2.37	8.25	17.11	20.16	22.17	24.29	27.15	74.16	81.58	89.37	99.92	61.83	71.39	87.44	84.69	97.80	21.91	25.92
18	5.83	2.41	8.46	17.49	21.13	23.25	25.46	28.47	77.55	85.31	93.45	104.48	64.91	74.95	91.79	88.54	102.24	22.75	26.92
19	6.03	2.44	8.65	17.82	21.94	24.14	26.44	29.56	80.35	88.39	96.83	108.25	67.51	77.95	95.47	91.65	105.83	23.42	27.71
OC	6.13	2.45	8.95	17.97	23.12				86.74				74.08			95.66		24.67	
30	6.13	2.45	8.95	17.97	23.11	25.42	27.84	31.13	86.74	95.41	104.52	116.86	74.08	85.54	104.76	95.66	110.46	24.67	29.19
31	6.09	2.43	8.90	17.97	22.81	25.09	27.49	30.73	86.74	95.41	104.52	116.86	74.08	85.54	104.76	95.66	110.46	24.66	29.18
32	5.99	2.41	8.80	17.97	22.50	24.76	27.12	30.32	86.61	95.27	104.36	116.68	73.45	84.81	103.87	94.80	109.46	24.48	28.96
33	5.90	2.39	8.70	17.92	22.19	24.41	26.74	29.90	85.83	94.41	103.42	115.63	72.65	83.89	102.74	93.65	108.14	24.27	28.72
34	5.81	2.37	8.60	17.76	21.87	24.06	26.36	29.47	84.99	93.48	102.41	114.49	71.81	82.92	101.55	92.45	106.75	24.04	28.45
35	5.73	2.35	8.50	17.59	21.55	23.70	25.97	29.03	84.09	92.50	101.32	113.28	70.94	81.91	100.32	91.19	105.30	23.80	28.16
36	5.65	2.33	8.40	17.42	21.23	23.35	25.58	28.60	83.14	91.46	100.19	112.01	70.04	80.87	99.05	89.90	103.80	23.55	27.86
37	5.57	2.31	8.30	17.25	20.90	22.99	25.18	28.16	82.16	90.38	99.00	110.69	69.12	79.81	97.75	88.57	102.27	23.28	27.55
38	5.50	2.29	8.21	17.08	20.58	22.63	24.79	27.72	81.14	89.26	97.78	109.32	68.19	78.74	96.43	87.21	100.70	23.01	27.22
39	5.43	2.27	8.11	16.90	20.25	22.28	24.40	27.28	80.10	88.11	96.52	107.91	67.25	77.65	95.10	85.83	99.11	22.72	26.89
40	5.36	2.25	8.02	16.72	19.93	21.92	24.01	26.85	79.03	86.93	95.23	106.47	66.29	76.55	93.75	84.44	97.50	22.43	26.54
41	5.29	2.23	7.92	16.55	19.60	21.57	23.62	26.41	77.93	85.73	93.91	104.99	65.33	75.44	92.39	83.03	95.87	22.13	26.18
42	5.22	2.21	7.83	16.37	19.28	21.21	23.24	25.98	76.82	84.51	92.57	103.50	64.36	74.32	91.02	81.61	94.24	21.82	25.82
43	5.16	2.19	7.74	16.19	18.97	20.86	22.85	25.55	75.70	83.27	91.21	101.98	63.39	73.20	89.65	80.19	92.59	21.51	25.45
44	5.10	2.16	7.64	16.01	18.65	20.51	22.47	25.12	74.56	82.01	89.84	100.44	62.42	72.08	88.28	78.75	90.94	21.19	25.07
45	5.03	2.14	7.55	15.83	18.33	20.17	22.09	24.70	73.40	80.75	88.45	98.89	61.44	70.95	86.90	77.32	89.28	20.87	24.69
46	4.97	2.12	7.46	15.65	18.02	19.82	21.71	24.28	72.24	79.47	87.05	97.33	60.47	69.82	85.51	75.89	87.63	20.54	24.30
47	4.91	2.10	7.37	15.47	17.71	19.48	21.34	23.86	71.07	78.18	85.64	95.75	59.49	68.69	84.13	74.45	85.97	20.21	23.91
48	4.85	2.07	7.28	15.29	17.40	19.14	20.97	23.44	69.89	76.88	84.22	94.16	58.51	67.56	82.75	73.02	84.32	19.88	23.52
49	4.78	2.05	7.19	15.10	17.09	18.80	20.60	23.03	68.71	75.58	82.79	92.56	57.53	66.43	81.36	71.59	82.66	19.54	23.12
50	4.72	2.03	7.10	14.92	16.79	18.47	20.23	22.62	67.52	74.27	81.36	90.96	56.55	65.30	79.98	70.16	81.02	19.20	22.72
51	4.66	2.01	7.01	14.74	16.49	18.14	19.87	22.21	66.32	72.95	79.92	89.35	55.57	64.17	78.59	68.74	79.38	18.86	22.32
52	4.60	1.99	6.92	14.55	16.19	17.81	19.51	21.81	65.12	71.63	78.47	87.73	54.59	63.04	77.21	67.32	77.74	18.52	21.91
53	4.54	1.96	6.83	14.37	15.89	17.48	19.15	21.40	63.92	70.31	77.02	86.11	53.62	61.91	75.82	65.91	76.11	18.17	21.50
54	4.48	1.94	6.74	14.18	15.59	17.15	18.79	21.00	62.71	68.98	75.57	84.49	52.64	60.78	74.44	64.51	74.49	17.83	21.09
55	4.42	1.92	6.65	13.99	15.30	16.83	18.43	20.61	61.50	67.65	74.11	82.86	51.66	59.65	73.06	63.11	72.87	17.48	20.68
56	4.35	1.89	6.56	13.81	15.00	16.50	18.08	20.21	60.29	66.32	72.65	81.22	50.68	58.52	71.67	61.72	71.26	17.13	20.27
57	4.29	1.87	6.47	13.62	14.71	16.18	17.73	19.82	59.08	64.99	71.19	79.59	49.70	57.39	70.29	60.33	69.66	16.78	19.86
58	4.23	1.85	6.38	13.43	14.42	15.86	17.38	19.43	57.86	63.65	69.72	77.95	48.73	56.27	68.91	58.95	68.07	16.43	19.44
59	4.17	1.83	6.29	13.24	14.13	15.54	17.03	19.04	56.65	62.31	68.26	76.32	47.75	55.14	67.53	57.58	66.49	16.08	19.03
60	4.10	1.80	6.20	13.05	13.84	15.23	16.68	18.65	55.43	60.97	66.79	74.68	46.77	54.01	66.15	56.22	64.92	15.73	18.61
61	4.04	1.78	6.11	12.86	13.56	14.91	16.34	18.26	54.21	59.63	65.32	73.03	45.80	52.88	64.76	54.86	63.35	15.38	18.20
62	3.97	1.76	6.01	12.67	13.27	14.60	15.99	17.88	52.99	58.29	63.86	71.39	44.82	51.75	63.38	53.52	61.79	15.03	17.78
63	3.91	1.73	5.92	12.47	12.99	14.29	15.65	17.50	51.77	56.95	62.39	69.75	43.84	50.62	62.00	52.18	60.25	14.68	17.36
64	3.84	1.71	5.83	12.28	12.70	13.98	15.31	17.12	50.55	55.61	60.92	68.11	42.86	49.49	60.61	50.84	58.71	14.32	16.95
65	3.77	1.68	5.74	12.08	12.42	13.67	14.97	16.74	49.33	54.26	59.44	66.46	41.88	48.36	59.23	49.52	57.18	13.97	16.53
66	3.70	1.66	5.65	11.89	12.14	13.36	14.63	16.36	48.11	52.92	57.97	64.82	40.90	47.23	57.84	48.20	55.66	13.62	16.11
67	3.63	1.64	5.55	11.69	11.86	13.06	14.29	15.98	46.89	51.58	56.50	63.17	39.92	46.09	56.45	46.89	54.15	13.26	15.69
68	3.56	1.61	5.46	11.49	11.58	12.74	13.96	15.60	45.67	50.23	55.03	61.52	38.94	44.96	55.06	45.59	52.64	12.91	15.27
69	3.49	1.59	5.36	11.29	11.30	12.44	13.62	15.23	44.45	48.89	53.56	59.88	37.95	43.82	53.67	44.30	51.15	12.56	14.86
70	3.41	1.56	5.27	11.09	11.03	12.13	13.29	14.86	43.22	47.55	52.08	58.23	36.97	42.69	52.28	43.01	49.67	12.20	14.44
71	3.34	1.54	5.17	10.88	10.75	11.83	12.95	14.48	42.00	46.20	50.61	56.58	35.98	41.55	50.88	41.73	48.19	11.85	14.02
72	3.26	1.51	5.08	10.68	10.47	11.52	12.62	14.11	40.78	44.86	49.14	54.94	34.99	40.40	49.48	40.46	46.72	11.50	13.60
73	3.18	1.49	4.98	10.47	10.20	11.22	12.29	13.74	39.55	43.51	47.66	53.29	34.00	39.26	48.08	39.20	45.26	11.14	13.18
74	3.10	1.47	4.88	10.26	9.92	10.92	11.96	13.37	38.33	42.16	46.19	51.64	33.01	38.11	46.68	37.94	43.81	10.79	12.77
75	3.02	1.44	4.78	10.05	9.65	10.61	11.63	13.00	37.11	40.82	44.71	49.99	32.01	36.96	45.27	36.69	42.37	10.44	12.35
76	2.94	1.41	4.68	9.84	9.37	10.31	11.30	12.63	35.88	39.47	43.24	48.34	31.01	35.81	43.86	35.45	40.94	10.09	11.93
77	2.85	1.39	4.58	9.62	9.10	10.01	10.97	12.26	34.66	38.12	41.76	46.69	30.01	34.66	42.44	34.22	39.51	9.73	11.52
78	2.76	1.36	4.48	9.41	8.83	9.71	10.64	11.89	33.43	36.78	40.29	45.04	29.01	33.50	41.02	32.99	38.09	9.38	11.10
79	2.67	1.34	4.37	9.19	8.55	9.41													

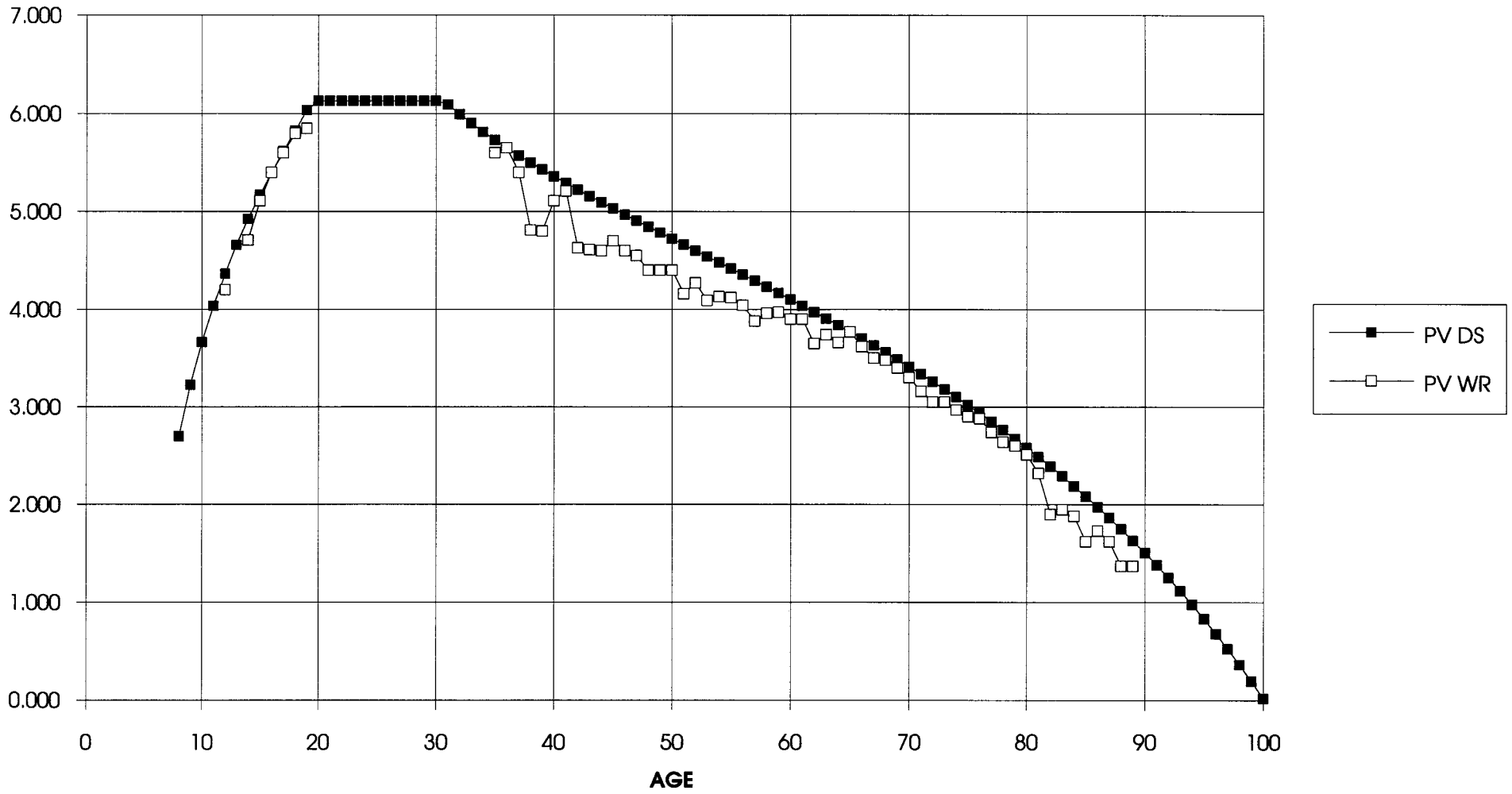
MEN'S FIELD EVENT AGE FACTORS

WT. AGE	PV	HJ	LJ	TJ	SP				HT			DT			JT		WT		
	all	all	all	all	16Lb	6Kg	5Kg	4Kg	16Lb	6Kg	5Kg	4Kg	2Kg	15Kg	1Kg	800Gm	600Gm	35Lb	25Lb
					30-49	50-59	60-69	70-100	30-49	50-59	60-69	70-100	30-49	50-59	60-100	30-59	60-100	30-49	50-59
8	0.440	0.626	0.522	0.506															
9	0.526	0.698	0.597	0.599															
10	0.598	0.756	0.659	0.674															
11	0.659	0.804	0.712	0.736															
12	0.712	0.843	0.758	0.787															
13	0.760	0.877	0.799	0.831															
14	0.803	0.906	0.835	0.868	0.688	0.757	0.830	0.927	0.682	0.750	0.822	0.919	0.658	0.760	0.930	0.703	0.811	0.727	0.860
15	0.843	0.930	0.867	0.900	0.761	0.837	0.917	1.025	0.751	0.826	0.905	1.012	0.727	0.840	1.028	0.776	0.896	0.793	0.938
16	0.881	0.951	0.896	0.928	0.821	0.903	0.990	1.106	0.808	0.889	0.973	1.088	0.785	0.907	1.111	0.836	0.965	0.846	1.001
17	0.917	0.969	0.922	0.952	0.872	0.959	1.050	1.174	0.855	0.941	1.030	1.152	0.835	0.964	1.180	0.885	1.022	0.888	1.051
18	0.951	0.984	0.945	0.973	0.914	1.005	1.101	1.231	0.894	0.984	1.077	1.205	0.876	1.012	1.239	0.926	1.069	0.922	1.091
19	0.984	0.997	0.967	0.991	0.949	1.044	1.144	1.279	0.926	1.019	1.116	1.248	0.911	1.052	1.289	0.958	1.106	0.949	1.123
OC	1.000	1.000	1.000	1.000	1.000				1.000					1.000			1.000		1.000
30	1.000	1.000	1.000	1.000	0.999	1.099	1.204	1.346	1.000	1.100	1.205	1.347	1.000	1.155	1.414	1.000	1.155	1.000	1.183
31	0.994	0.993	0.994	1.000	0.987	1.085	1.189	1.329	1.000	1.100	1.205	1.347	1.000	1.155	1.414	1.000	1.155	1.000	1.183
32	0.978	0.985	0.983	1.000	0.973	1.071	1.173	1.311	0.998	1.098	1.203	1.345	0.991	1.145	1.402	0.991	1.144	0.992	1.174
33	0.963	0.977	0.972	0.997	0.960	1.056	1.157	1.293	0.989	1.088	1.192	1.333	0.981	1.132	1.387	0.979	1.130	0.984	1.164
34	0.948	0.969	0.961	0.988	0.946	1.041	1.140	1.275	0.980	1.078	1.181	1.320	0.969	1.119	1.371	0.966	1.116	0.975	1.153
35	0.935	0.961	0.950	0.979	0.932	1.025	1.123	1.256	0.969	1.066	1.168	1.306	0.958	1.106	1.354	0.953	1.101	0.965	1.142
36	0.922	0.953	0.939	0.969	0.918	1.010	1.106	1.237	0.959	1.054	1.155	1.291	0.945	1.092	1.337	0.940	1.085	0.955	1.129
37	0.909	0.944	0.928	0.960	0.904	0.994	1.089	1.218	0.947	1.042	1.141	1.276	0.933	1.077	1.320	0.926	1.069	0.944	1.117
38	0.897	0.936	0.917	0.950	0.890	0.979	1.072	1.199	0.935	1.029	1.127	1.260	0.920	1.063	1.302	0.912	1.053	0.933	1.103
39	0.886	0.927	0.906	0.940	0.876	0.963	1.055	1.180	0.923	1.016	1.113	1.244	0.908	1.048	1.284	0.897	1.036	0.921	1.090
40	0.874	0.918	0.896	0.931	0.862	0.948	1.039	1.161	0.911	1.002	1.098	1.227	0.895	1.033	1.266	0.883	1.019	0.909	1.076
41	0.863	0.910	0.885	0.921	0.848	0.933	1.022	1.142	0.898	0.988	1.083	1.210	0.882	1.018	1.247	0.868	1.002	0.897	1.061
42	0.852	0.901	0.875	0.911	0.834	0.917	1.005	1.124	0.886	0.974	1.067	1.193	0.869	1.003	1.229	0.853	0.985	0.884	1.047
43	0.842	0.892	0.864	0.901	0.820	0.902	0.988	1.105	0.873	0.960	1.052	1.176	0.856	0.988	1.210	0.838	0.968	0.872	1.032
44	0.831	0.883	0.854	0.891	0.807	0.887	0.972	1.087	0.860	0.945	1.036	1.158	0.843	0.973	1.192	0.823	0.951	0.859	1.016
45	0.821	0.874	0.844	0.881	0.793	0.872	0.956	1.068	0.846	0.931	1.020	1.140	0.829	0.958	1.173	0.808	0.933	0.846	1.001
46	0.811	0.865	0.834	0.871	0.779	0.857	0.939	1.050	0.833	0.916	1.004	1.122	0.816	0.943	1.154	0.793	0.916	0.833	0.985
47	0.801	0.856	0.823	0.861	0.766	0.843	0.923	1.032	0.819	0.901	0.987	1.104	0.803	0.927	1.136	0.778	0.899	0.819	0.969
48	0.790	0.847	0.813	0.851	0.753	0.828	0.907	1.014	0.806	0.886	0.971	1.086	0.790	0.912	1.117	0.763	0.881	0.806	0.953
49	0.780	0.838	0.803	0.840	0.739	0.813	0.891	0.996	0.792	0.871	0.954	1.067	0.777	0.897	1.098	0.748	0.864	0.792	0.937
50	0.770	0.829	0.793	0.830	0.726	0.799	0.875	0.978	0.778	0.856	0.938	1.049	0.763	0.881	1.080	0.733	0.847	0.778	0.921
51	0.760	0.820	0.783	0.820	0.713	0.784	0.859	0.961	0.765	0.841	0.921	1.030	0.750	0.866	1.061	0.719	0.830	0.765	0.905
52	0.751	0.810	0.773	0.810	0.700	0.770	0.844	0.943	0.751	0.826	0.905	1.011	0.737	0.851	1.042	0.704	0.813	0.751	0.888
53	0.741	0.801	0.763	0.799	0.687	0.756	0.828	0.926	0.737	0.811	0.888	0.993	0.724	0.836	1.024	0.689	0.796	0.737	0.872
54	0.731	0.792	0.753	0.789	0.674	0.742	0.813	0.909	0.723	0.795	0.871	0.974	0.711	0.820	1.005	0.674	0.779	0.723	0.855
55	0.720	0.783	0.743	0.779	0.662	0.728	0.797	0.891	0.709	0.780	0.854	0.955	0.697	0.805	0.986	0.660	0.762	0.709	0.838
56	0.710	0.773	0.733	0.768	0.649	0.714	0.782	0.874	0.695	0.765	0.838	0.936	0.684	0.790	0.968	0.645	0.745	0.694	0.822
57	0.700	0.764	0.723	0.758	0.636	0.700	0.767	0.857	0.681	0.749	0.821	0.918	0.671	0.775	0.949	0.631	0.728	0.680	0.805
58	0.690	0.754	0.713	0.747	0.624	0.686	0.752	0.840	0.667	0.734	0.804	0.899	0.658	0.760	0.930	0.616	0.712	0.666	0.788
59	0.680	0.745	0.702	0.737	0.611	0.672	0.736	0.823	0.653	0.718	0.787	0.880	0.645	0.744	0.912	0.602	0.695	0.652	0.771
60	0.669	0.736	0.692	0.726	0.599	0.659	0.721	0.807	0.639	0.703	0.770	0.861	0.631	0.729	0.893	0.588	0.679	0.638	0.755
61	0.659	0.726	0.682	0.716	0.586	0.645	0.707	0.790	0.625	0.687	0.753	0.842	0.618	0.714	0.874	0.574	0.662	0.623	0.738
62	0.648	0.717	0.672	0.705	0.574	0.631	0.692	0.773	0.611	0.672	0.736	0.823	0.605	0.699	0.856	0.559	0.646	0.609	0.721
63	0.637	0.707	0.662	0.694	0.562	0.618	0.677	0.757	0.597	0.657	0.719	0.804	0.592	0.683	0.837	0.545	0.630	0.595	0.704
64	0.626	0.697	0.651	0.683	0.550	0.604	0.662	0.740	0.583	0.641	0.702	0.785	0.579	0.668	0.818	0.531	0.614	0.581	0.687
65	0.615	0.688	0.641	0.672	0.537	0.591	0.647	0.724	0.569	0.626	0.685	0.766	0.565	0.653	0.800	0.518	0.598	0.566	0.670
66	0.604	0.678	0.631	0.661	0.525	0.578	0.633	0.708	0.555	0.610	0.668	0.747	0.552	0.638	0.781	0.504	0.582	0.552	0.653
67	0.592	0.668	0.620	0.650	0.513	0.564	0.618	0.691	0.541	0.595	0.651	0.728	0.539	0.622	0.762	0.490	0.566	0.538	0.636
68	0.581	0.658	0.610	0.639	0.501	0.551	0.604	0.675	0.526	0.579	0.634	0.709	0.526	0.607	0.743	0.477	0.550	0.523	0.619
69	0.569	0.648	0.599	0.628	0.489	0.538	0.589	0.659	0.512	0.564	0.617	0.690	0.512	0.592	0.725	0.463	0.535	0.509	0.602
70	0.557	0.638	0.589	0.617	0.477	0.525	0.575	0.643	0.498	0.548	0.600	0.671	0.499	0.576	0.706	0.450	0.519	0.495	0.585
71	0.544	0.628	0.578	0.606	0.465	0.511	0.560	0.626	0.484	0.533	0.583	0.652	0.486	0.561	0.687	0.436	0.504	0.480	0.568
72	0.532	0.618	0.567	0.594	0.453	0.498	0.546	0.610	0.470	0.517	0.566	0.633	0.472	0.545	0.668	0.423	0.488	0.466	0.551
73	0.519	0.608	0.556	0.583	0.441	0.485	0.532	0.594	0.456	0.502	0.549	0.614	0.459	0.530	0.649	0.410	0.473	0.452	0.534
74	0.506	0.598	0.545	0.571	0.429	0.472	0.517	0.578	0.442	0.486	0.532	0.595	0.446	0.514	0.630	0.397	0.458	0.437	0.518
75	0.493	0.588	0.534	0.559	0.417	0.459	0.503	0.562	0.428	0.471	0.515	0.576	0.432	0.499	0.611	0.384	0.443	0.423	0.501
76	0.479	0.577	0.523	0.547	0.405	0.446	0.489	0.546	0.414	0.455	0.498	0.557	0.419	0.483	0.592	0.371	0.428	0.409	0.484
77	0.465	0.567	0.512	0.536	0.394	0.433	0.474	0.530	0.400	0.440	0.481	0.538	0.405	0.468	0.573	0.358	0.413	0.395	0.467
78	0.451	0.557	0.500	0.524	0.382	0.420	0.460	0.514	0.385	0.424									

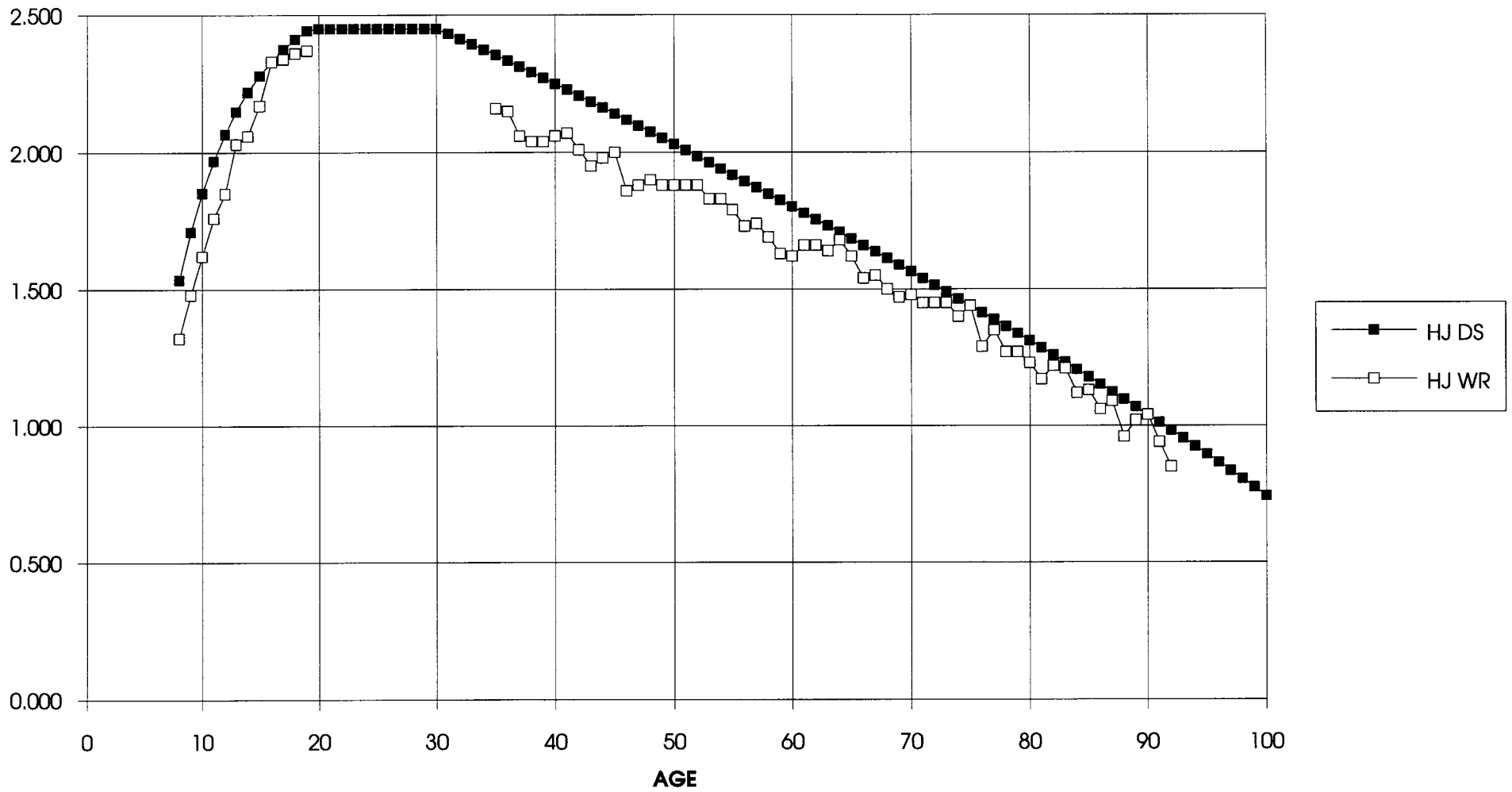
MEN'S FIELD EVENTS: PERFORMANCE LEVEL OF ACTUAL RECORDS

AGE	PV	HJ	LJ	TJ	SP 16Lb	SP 6Kg	SP 5Kg	SP 4Kg	HT 16Lb	HT 6Kg	HT 5Kg	HT 4Kg	DT 2Kg	DT 1.5Kg	DT 1Kg	JT 800Gm	JT 600Gm	WT 35Lb	WT 25Lb
8		86	99																
9		87	90																
10		87	89																
11		89	92																
12	96	90	94																
13		94	97	91															
14	96	93	100	94	85				74					84			95		
15	99	95	99	97	98				85					97			95		
16	100	100	99	100	99				98					94			100		
17	100	99	100	99	100				97					100			96		
18	100	98		99	98				99					96			91		
19	97	97	100	98	100				100					97			88		
OC	100	100	100	100	100				100					100			100		100
30																			
31																			
32																			
33																			
34																			
35	98	92	100	96	102				98					100			96		89
36	100	92	97	96	102				99					102			96		87
37	97	89	95	94	102				100					98			97		89
38	87	89	91	97	108				96					105			93		93
39	88	90	93	100	104				98					98			96		91
40	95	92	94	93	107				90					101	73		93		92
41	98	93	96	95	104				92					99	74		94		96
42	89	91	92	90	106				96					104	82		97		100
43	89	89	94	94	106				98					110	70		95		105
44	90	92	92	89	109				100					110	84		94		92
45	93	93	94	89	113	92			86					108	86		92		94
46	93	88	97	89	112	90			85					107	79		96		85
47	93	90	92	87	100	94			87					114	74		89		96
48	91	92	90	88	108	94			91					110	82		100		86
49	92	92	89	91	98	86			89					108	89		94		92
50	93	93	94	91	99	95			87	81				90	100		94	67	98
51	89	94	92	92	94	89			83	87				105	99		95	65	104
52	93	95	88	88	83	99			84	86				99	100		96	66	107
53	90	93	92	90	96	94			80	87				92	97		99	90	96
54	92	94	91	92	97	95			83	92				97	88		99	71	93
55	93	93	92	91	97	95			87	92				94	84		91	73	100
56	93	91	92	93	77	90			81	83	91			98	92	77	92	76	105
57	90	93	91	94	87	82			83	82	98			96	90	85	90	73	93
58	94	91	94	93	87	85			85	74	89			93	88	80	87	72	93
59	95	89	97	93	96	92			77	81	92			99	95	86	93	81	87
60	95	90	98	94	94	93	96	90	84	75	86			86	79	87	91	90	84
61	97	93	94	93	89	83	93	89	79	73	89			82	81	88	92	89	78
62	92	95	88	94	83	83	95	87	72	76	82			82	75	84	87	87	103
63	96	95	89	91	85	87	93	85	78	84	89			79	78	86	82	90	87
64	95	98	88	87	83	82	94	89	75					82	72	87	89	98	87
65	100	96	92	92	84	83	98	91	74	75	87			83	84	94	83	91	86
66	98	93	94	91	85	87	92	94	78	81	87			89	86	86	79	88	94
67	96	95	90	90	82	86	90	98	75	85	84			88	86	85	85	89	85
68	98	93	91	90	92	88	95	87	76	80	77			85	87	87	86	89	82
69	98	93	90	88	93	91	98	93	75	82	75			83	84	86	77	92	91
70	97	95	95	93	89	90			95	80	85	80	78	95	91	91	79	97	86
71	95	94	93	92	91	94			94	78	81	77	84	100	95	94	81	94	100
72	94	96	89	96	96	97			95	81	83	77	85	94	93	88	78	99	87
73	96	97	91	94	93	100			100	85	90	85	86	94	93	90	93	92	95
74	96	96	85	94	98	92			96	81	87	76	77	96	94	92	97	97	88
75	96	100	100	100	90	100			97	57	67	66	89	77	79	92	97	97	96
76	98	91	93	93	98	88			99	71	84			81	85	89	93	100	94
77	96	97	93	95	85	85			98	50	84			80	77	59	96	79	87
78	96	93	97	99	82	85			99	49	75	61	81	82	79	90	65	83	66
79	97	95	85	85	78	83			96	50		57	84	79	74	96	70	95	85
80	97	94	97	100	80	80			99	60	100			82	67	45	99	77	77
81	93	91	84	82					91					69			86	71	59
82	80	97	94	97					90		86	65	73			91	88	100	80
83	85	98	100	94					91		80			66		88	59	82	68
84	86	93	80	85					82					47		85		78	66
85	78	96	81	81					91					61		88	92	88	66
86	88	92	94	72					93					48		90		85	43
87	87	97	70	72					98					55		93	75	76	67
88	78	88	75	71					80							74	61	78	68
89	84	95	62	70					86					58		72	63	69	76
90		100	77	83					93					67		87		80	
91		93	79	73					72					72		86		49	
92		86		65					71							75		76	
93									67							46		45	
94			45	50					67							60			
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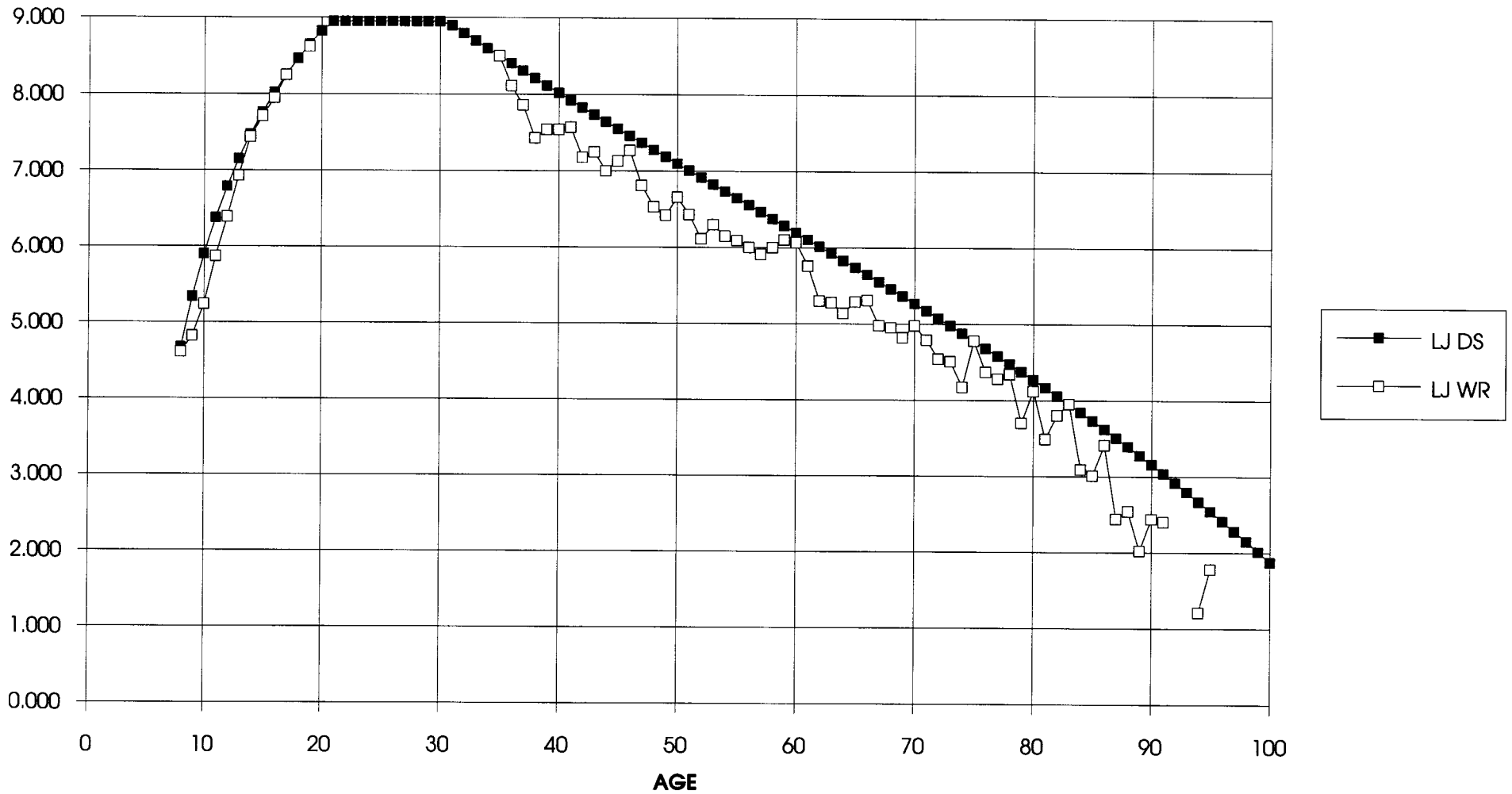
MENS DISTANCE STANDARDS AND RECORDS IN METERS



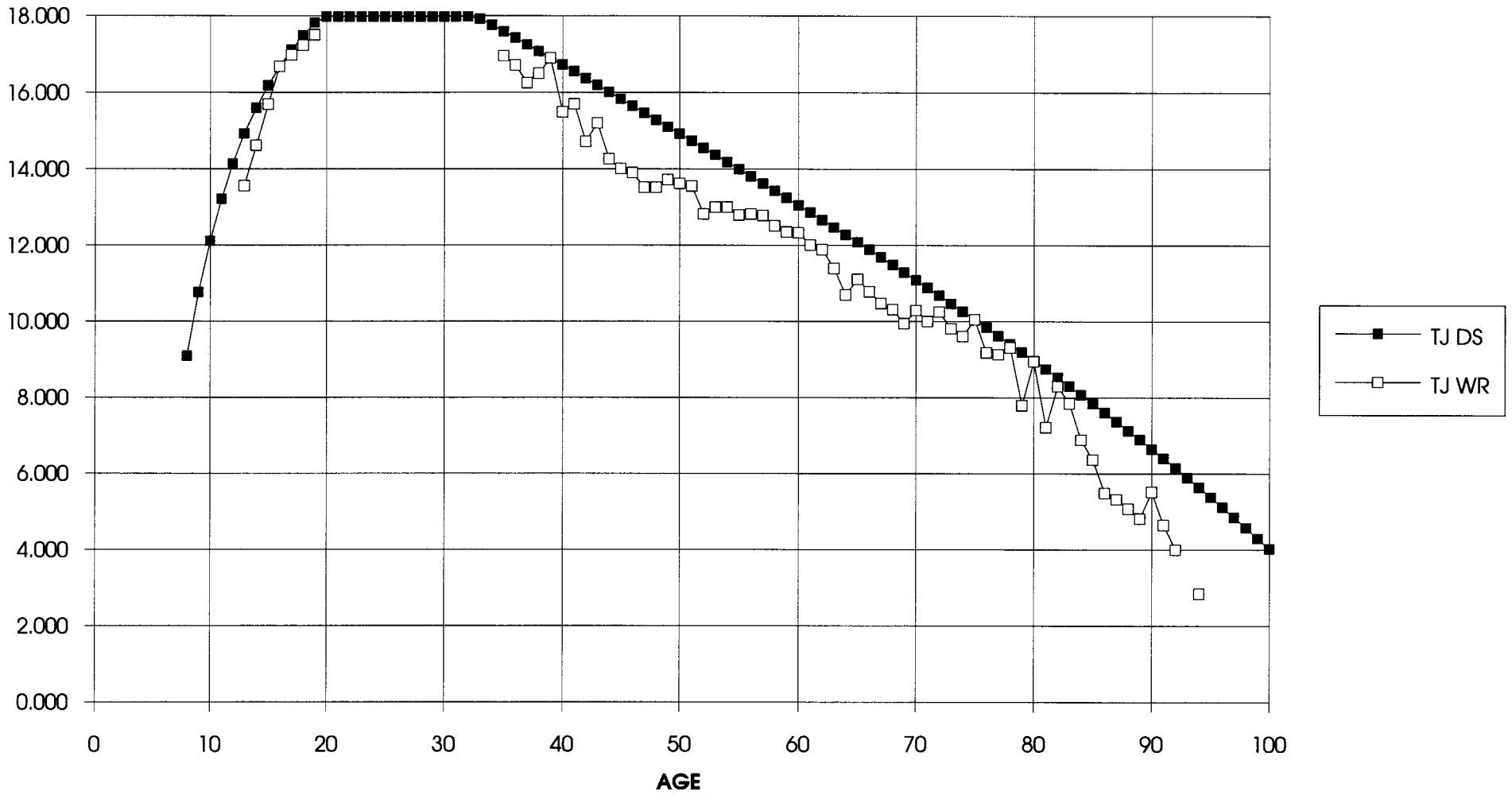
MENS DISTANCE STANDARDS AND RECORDS IN METERS



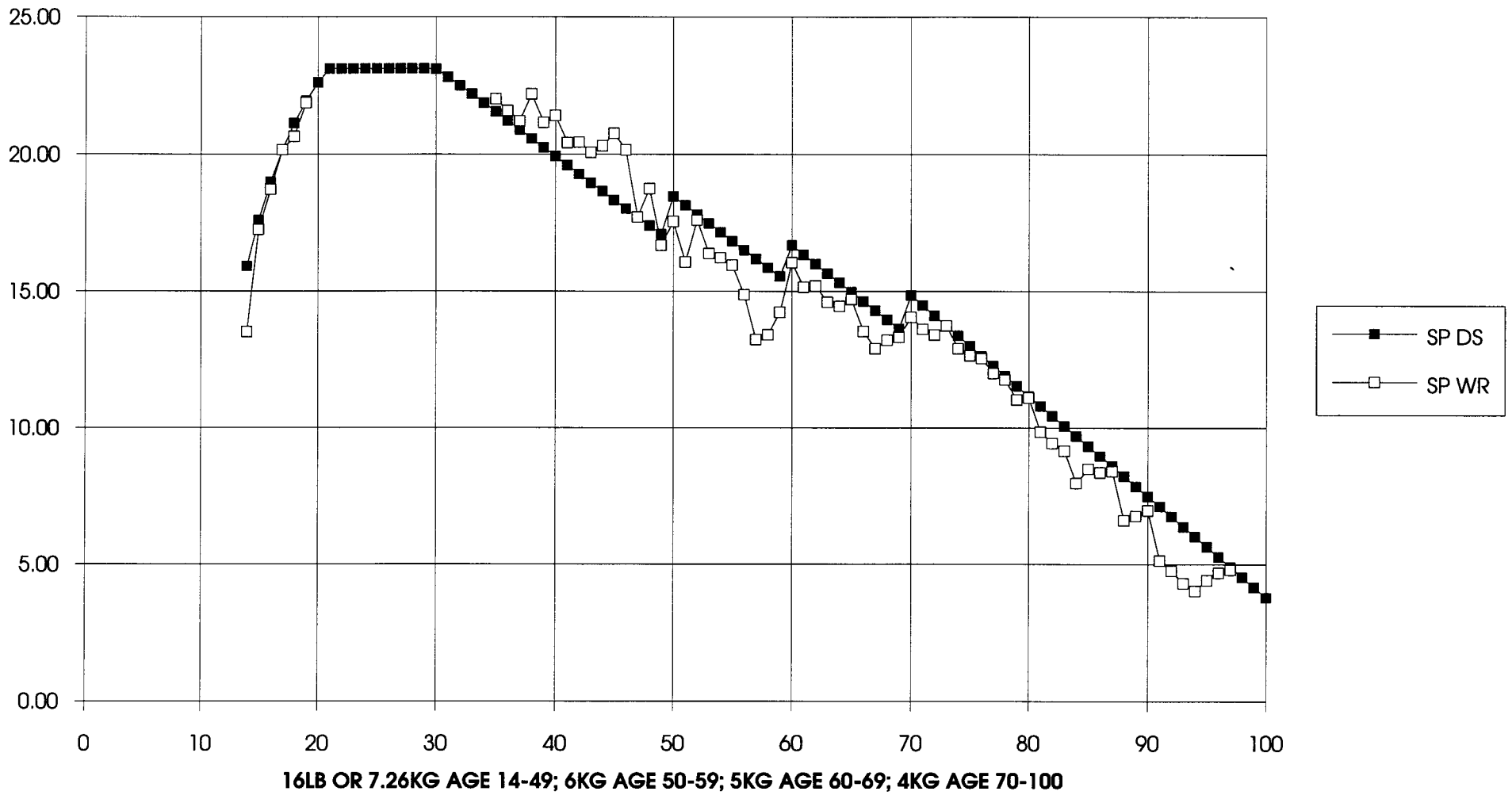
MENS DISTANCE STANDARDS AND RECORDS IN METERS



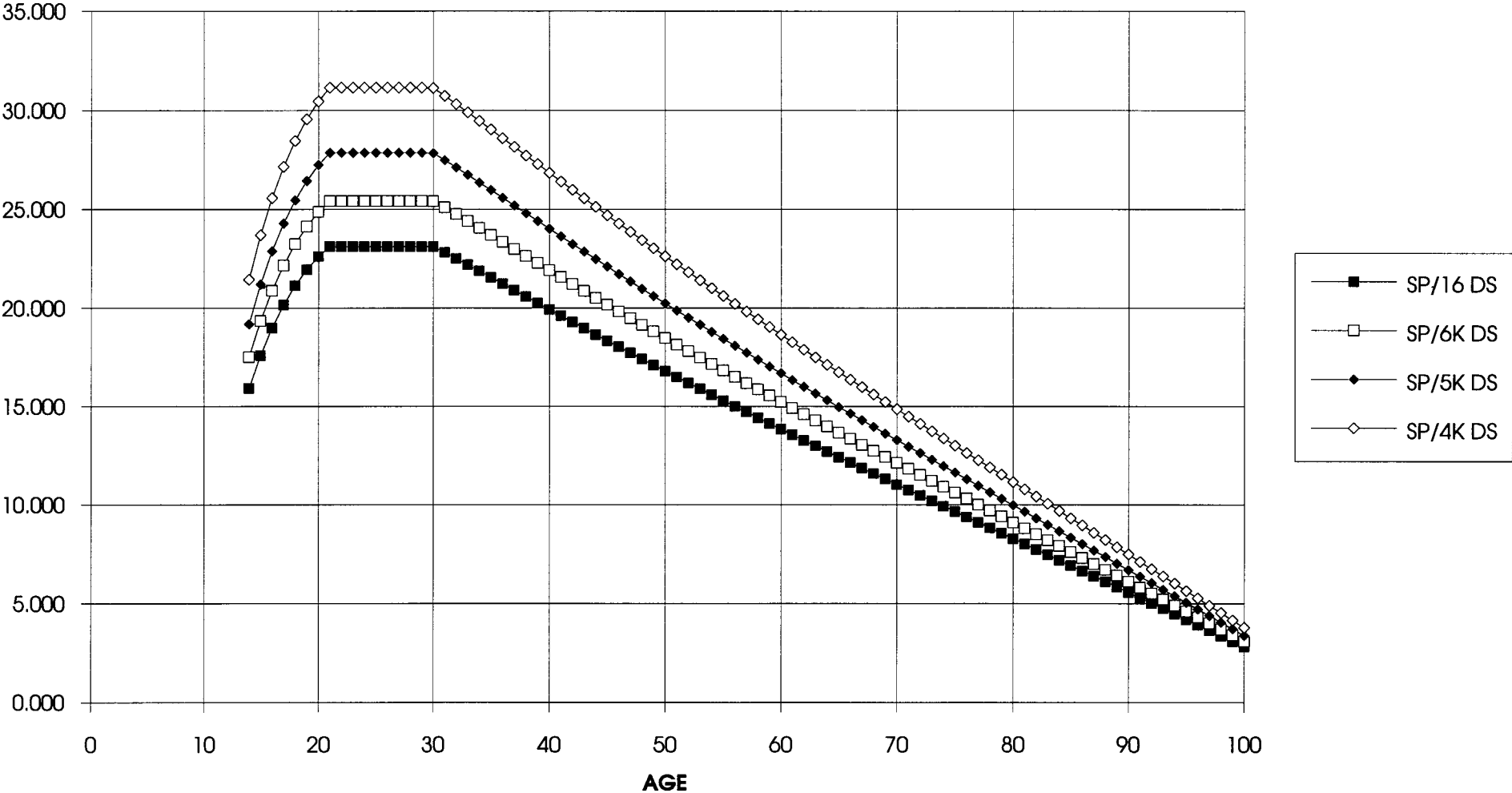
MENS DISTANCE STANDARDS AND RECORDS IN METERS



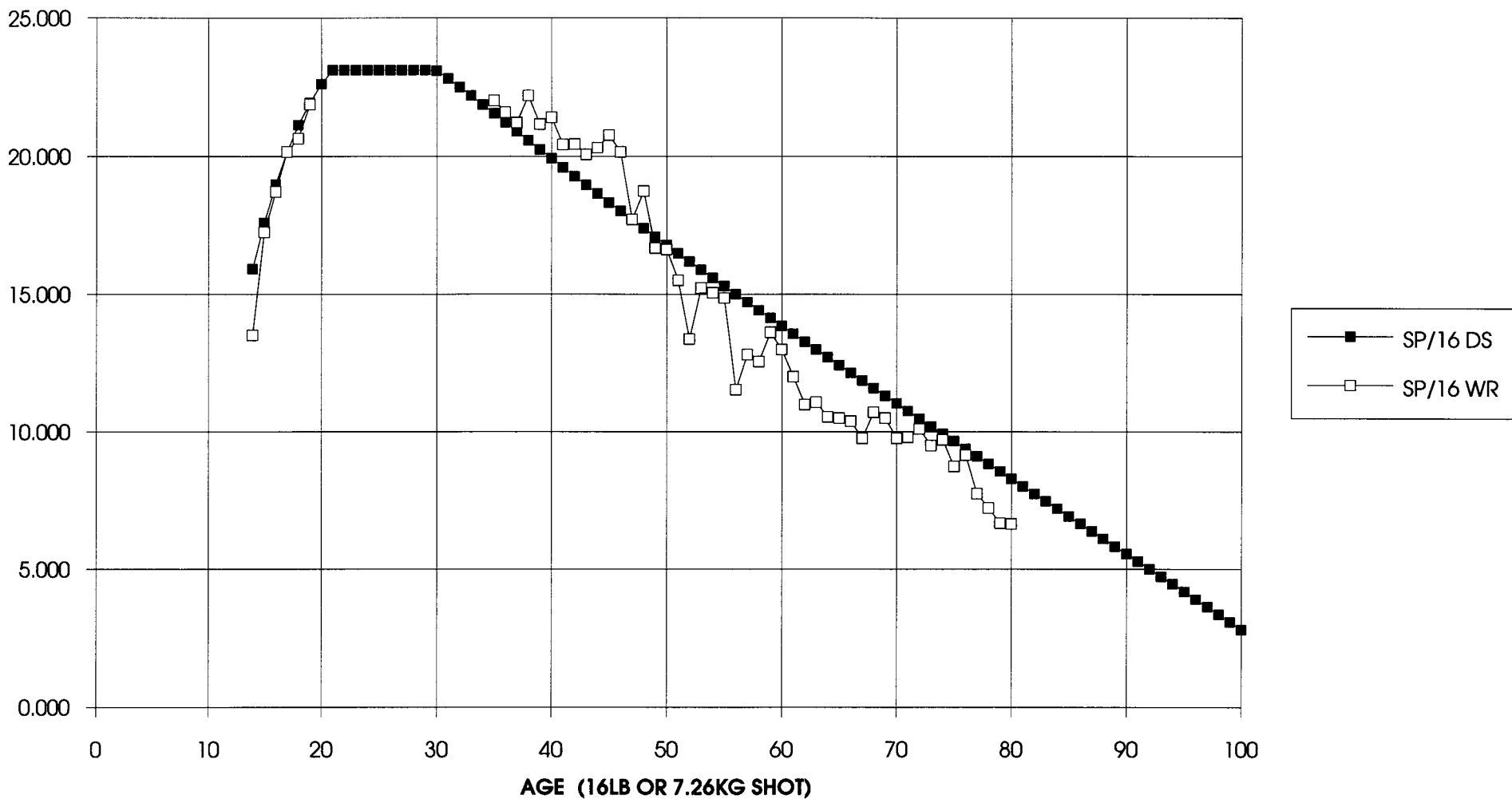
COMPOSITE CHART: MENS SHOT PUT DISTANCE STANDARDS AND RECORDS IN METERS



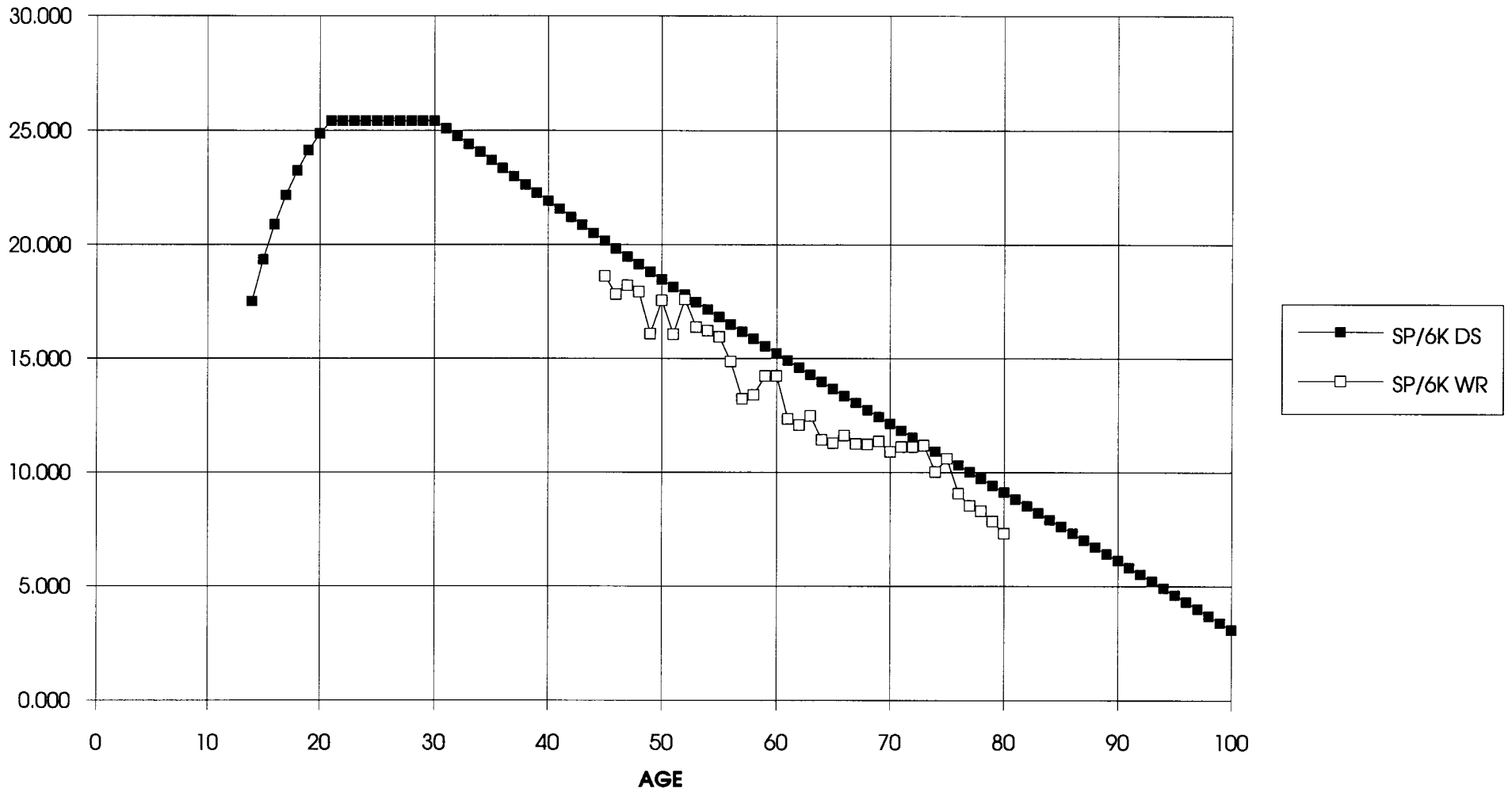
COMPARISON CHART: MENS SHOT PUT DISTANCE STANDARDS IN METERS



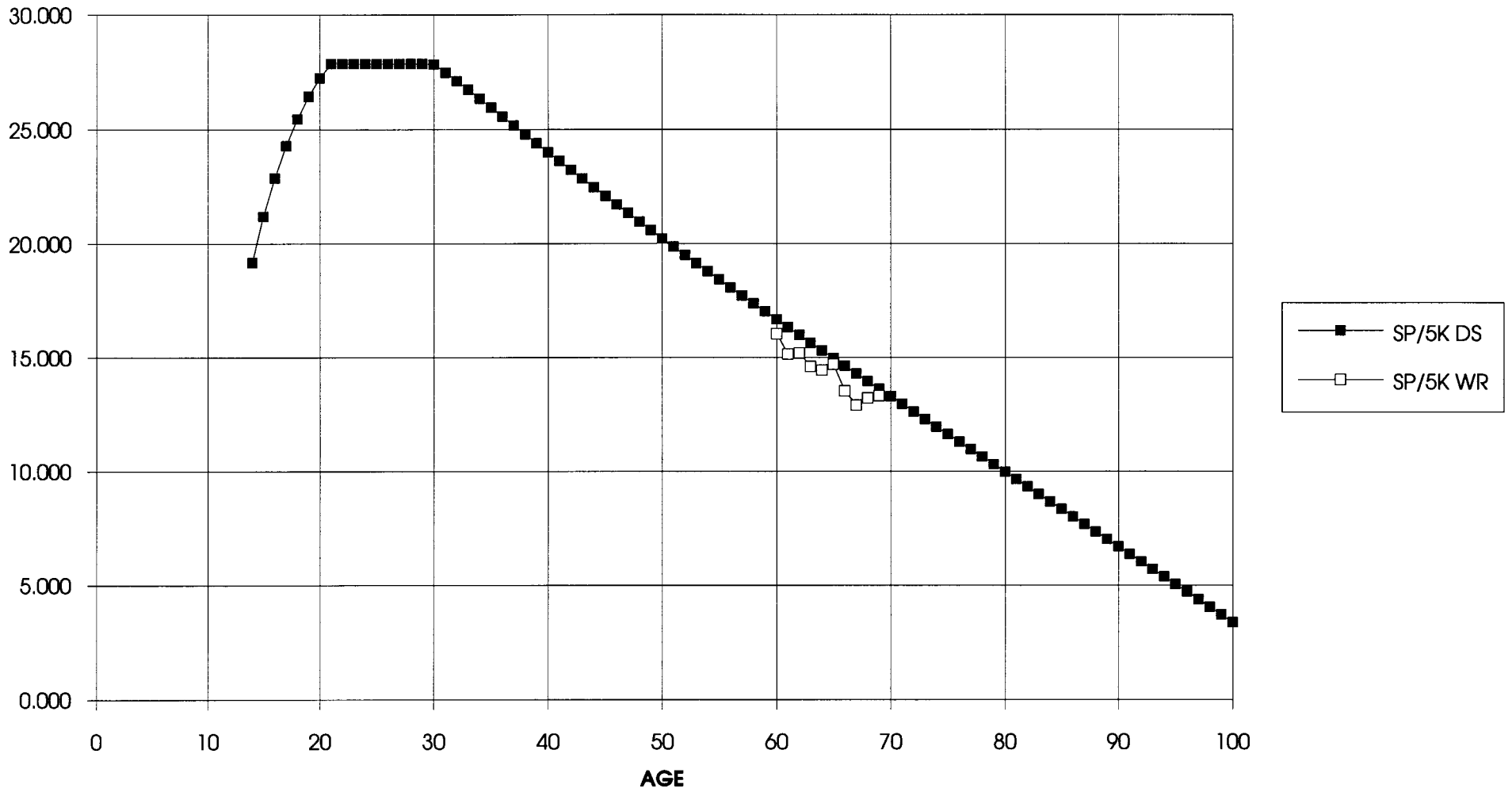
MENS DISTANCE STANDARDS AND RECORDS IN METERS



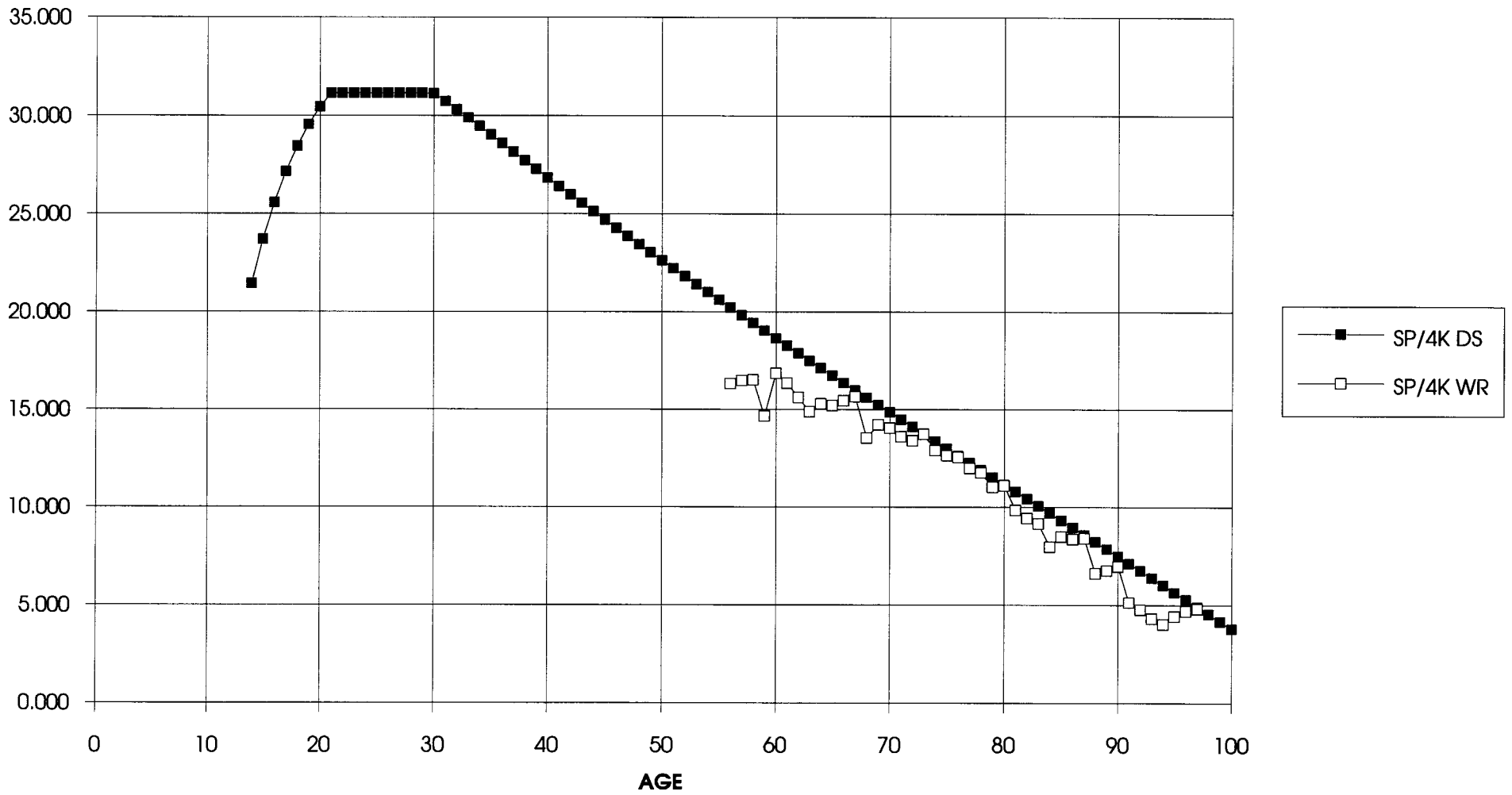
MENS DISTANCE STANDARDS AND RECORDS IN METERS



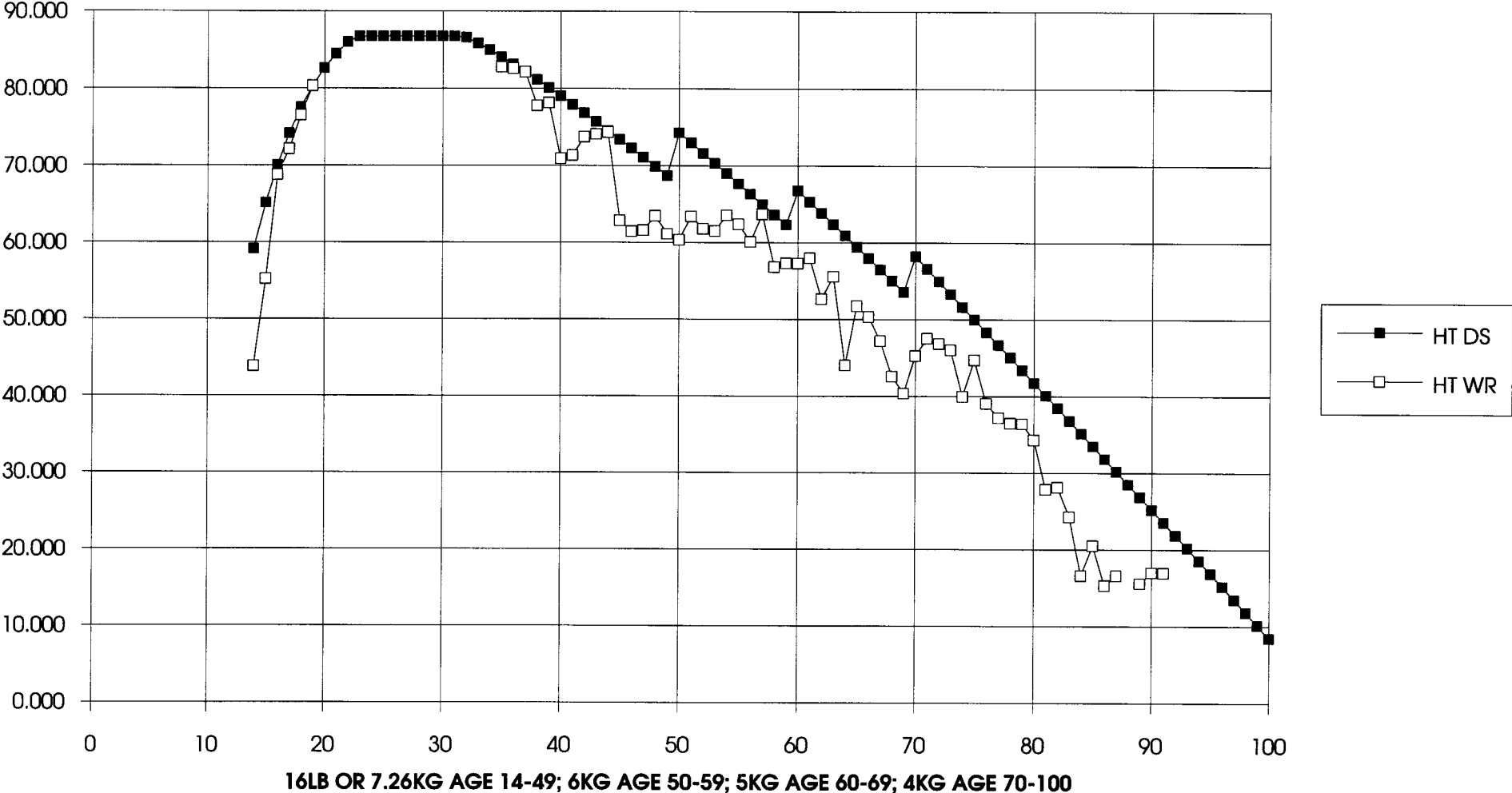
MENS DISTANCE STANDARDS AND RECORDS IN METERS



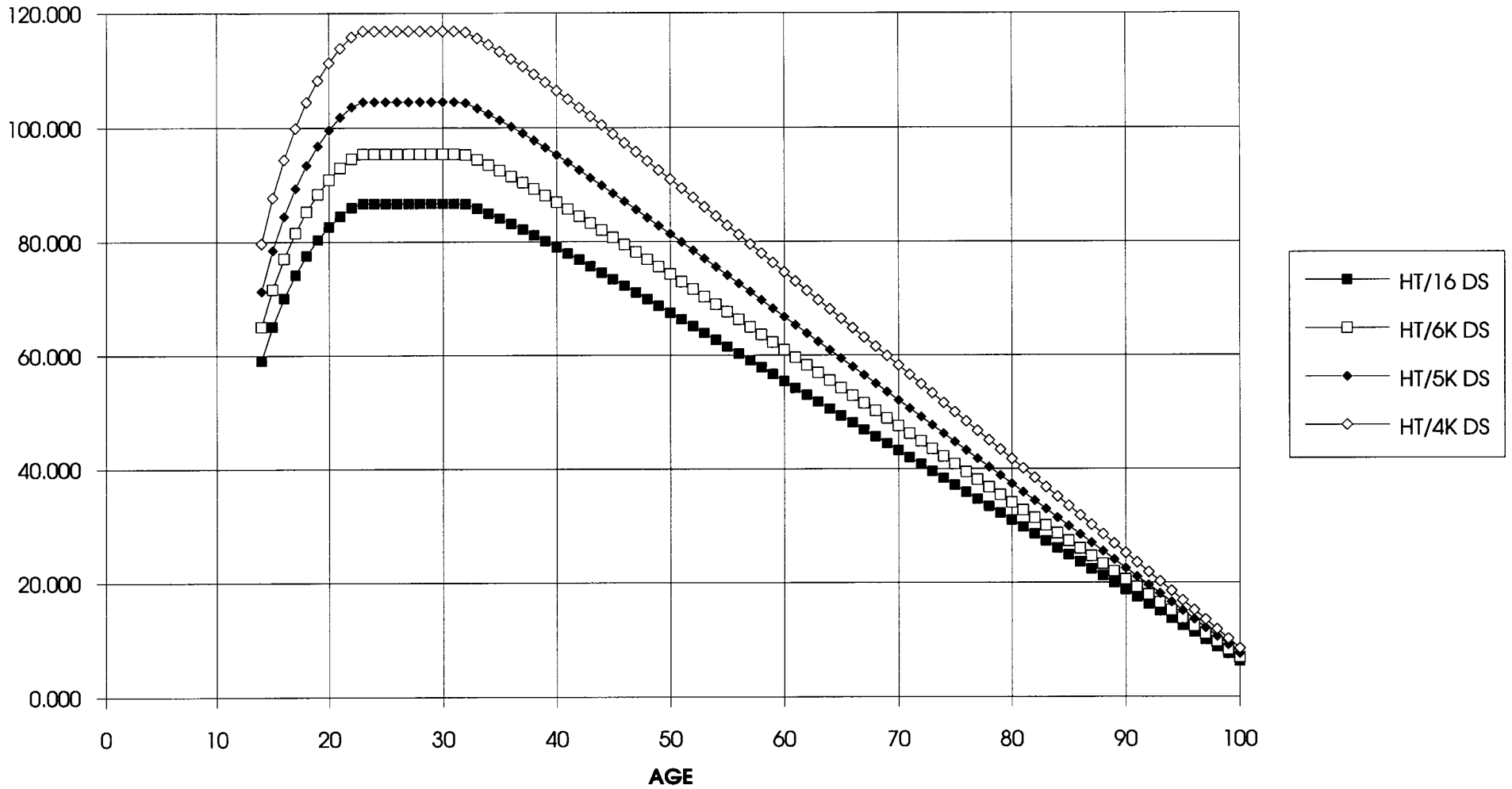
MENS DISTANCE STANDARDS AND RECORDS IN METERS



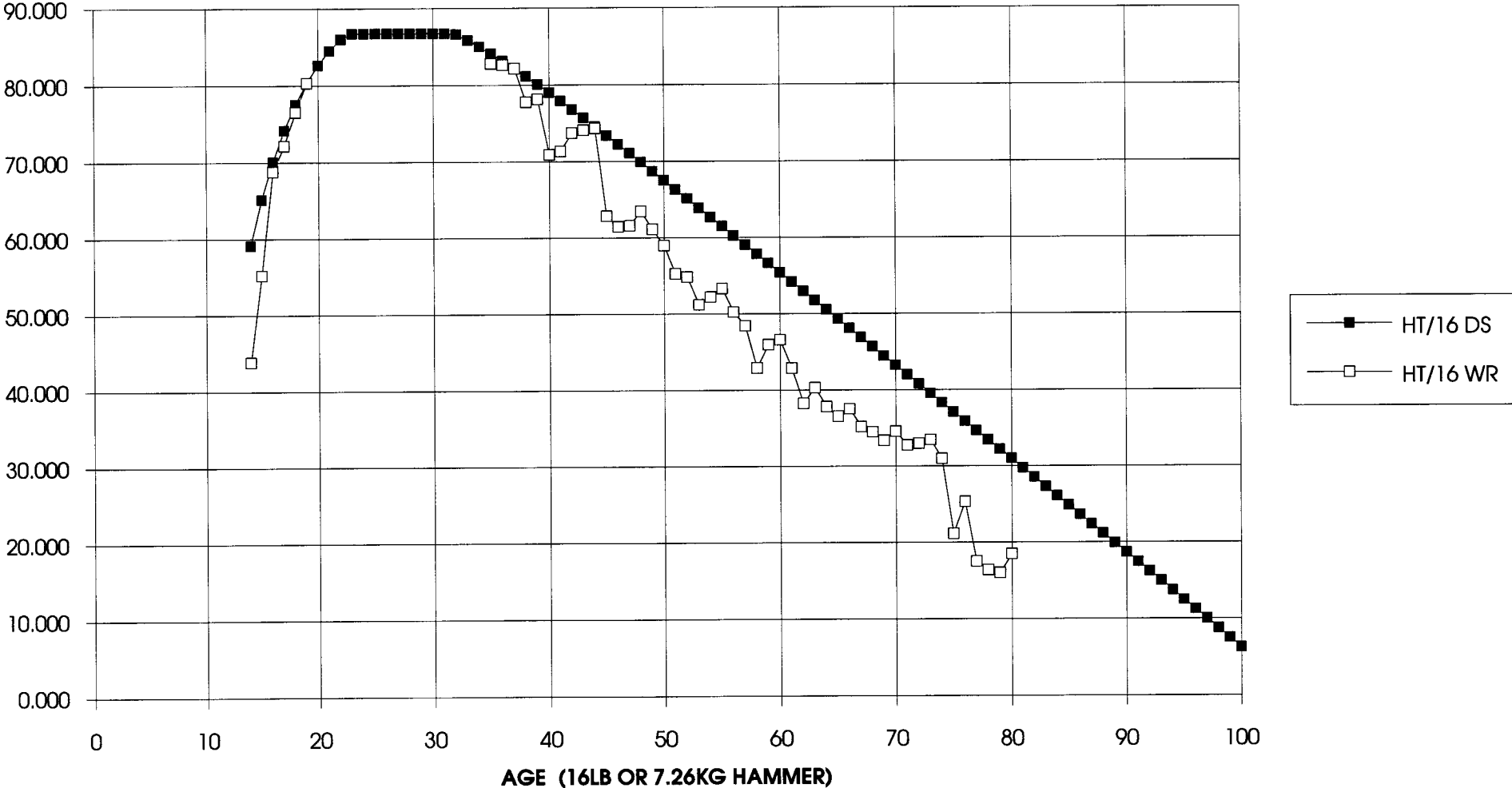
COMPOSITE CHART: MENS HAMMER THROW DISTANCE STANDARDS AND RECORDS IN METERS



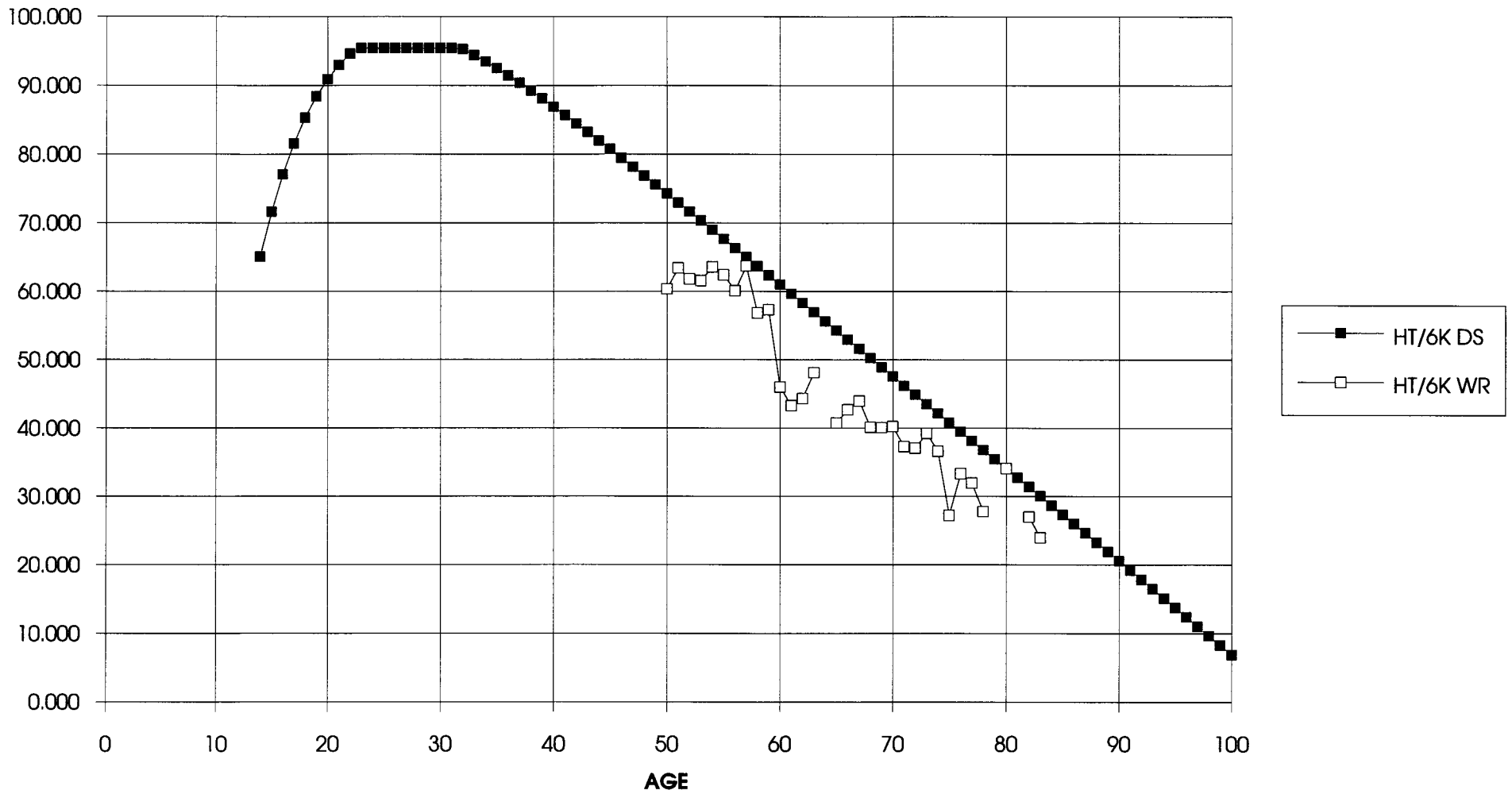
COMPARISON CHART: MENS HAMMER THROW DISTANCE STANDARDS IN METERS



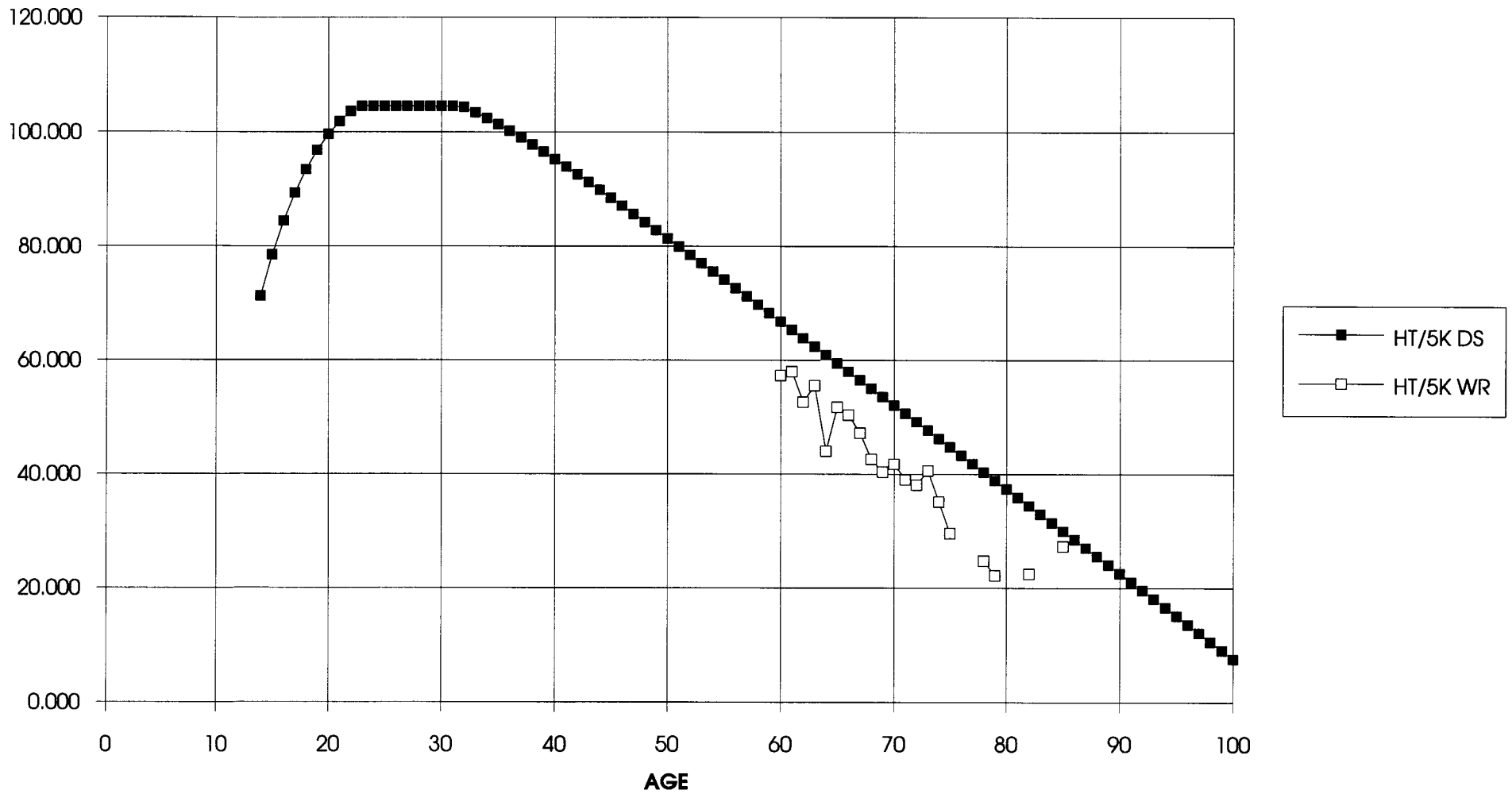
MENS DISTANCE STANDARDS AND RECORDS IN METERS



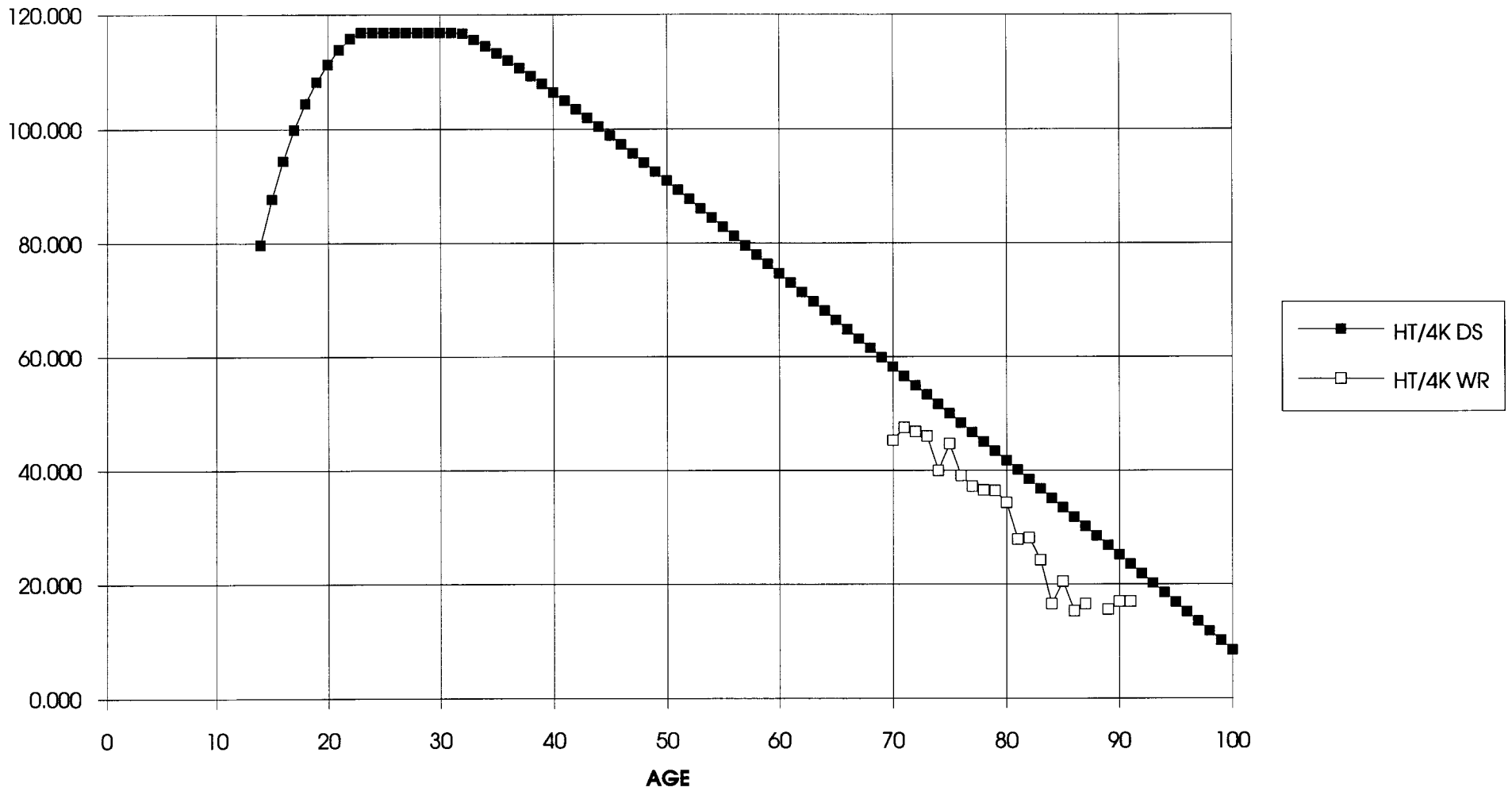
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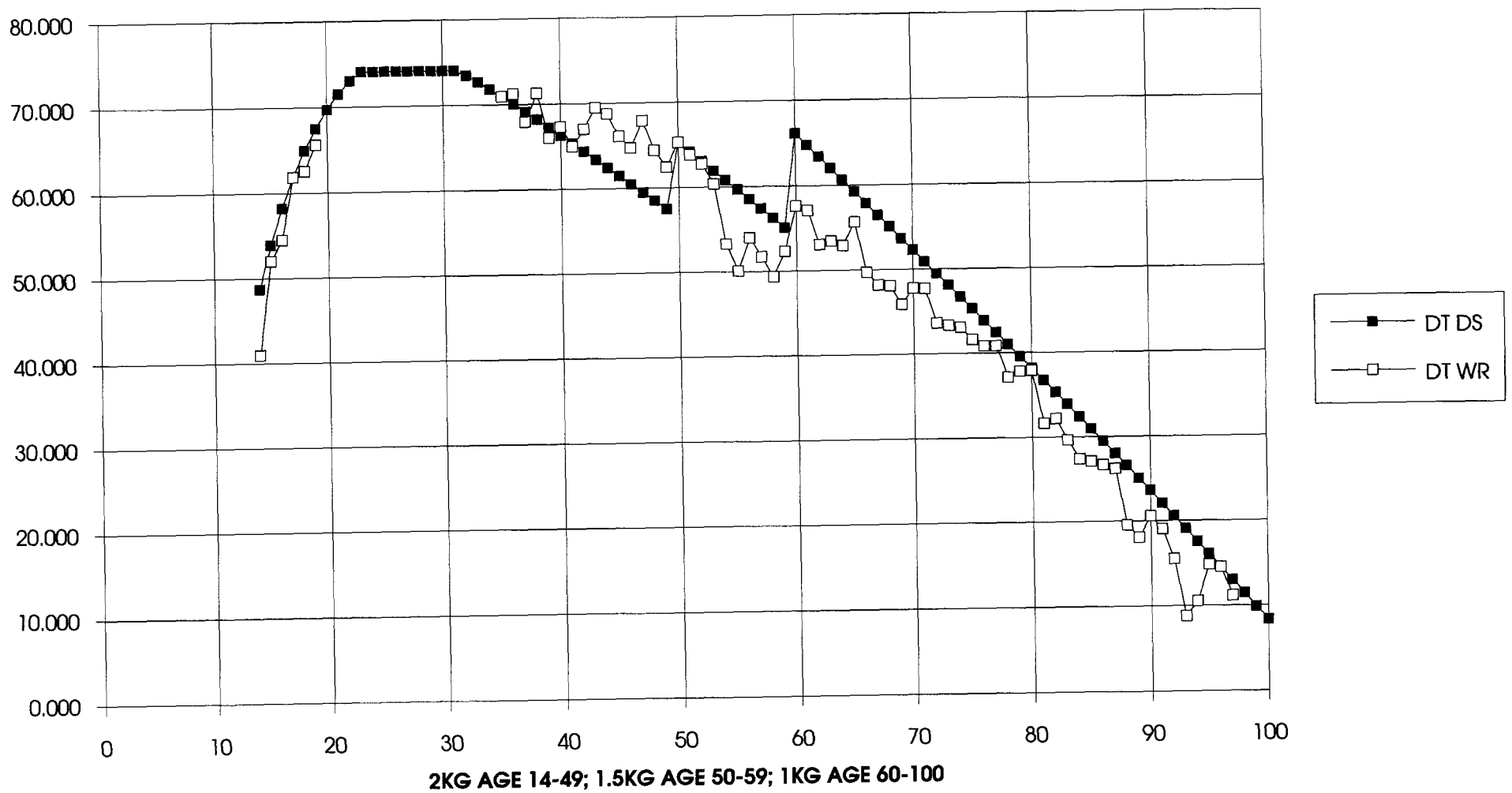
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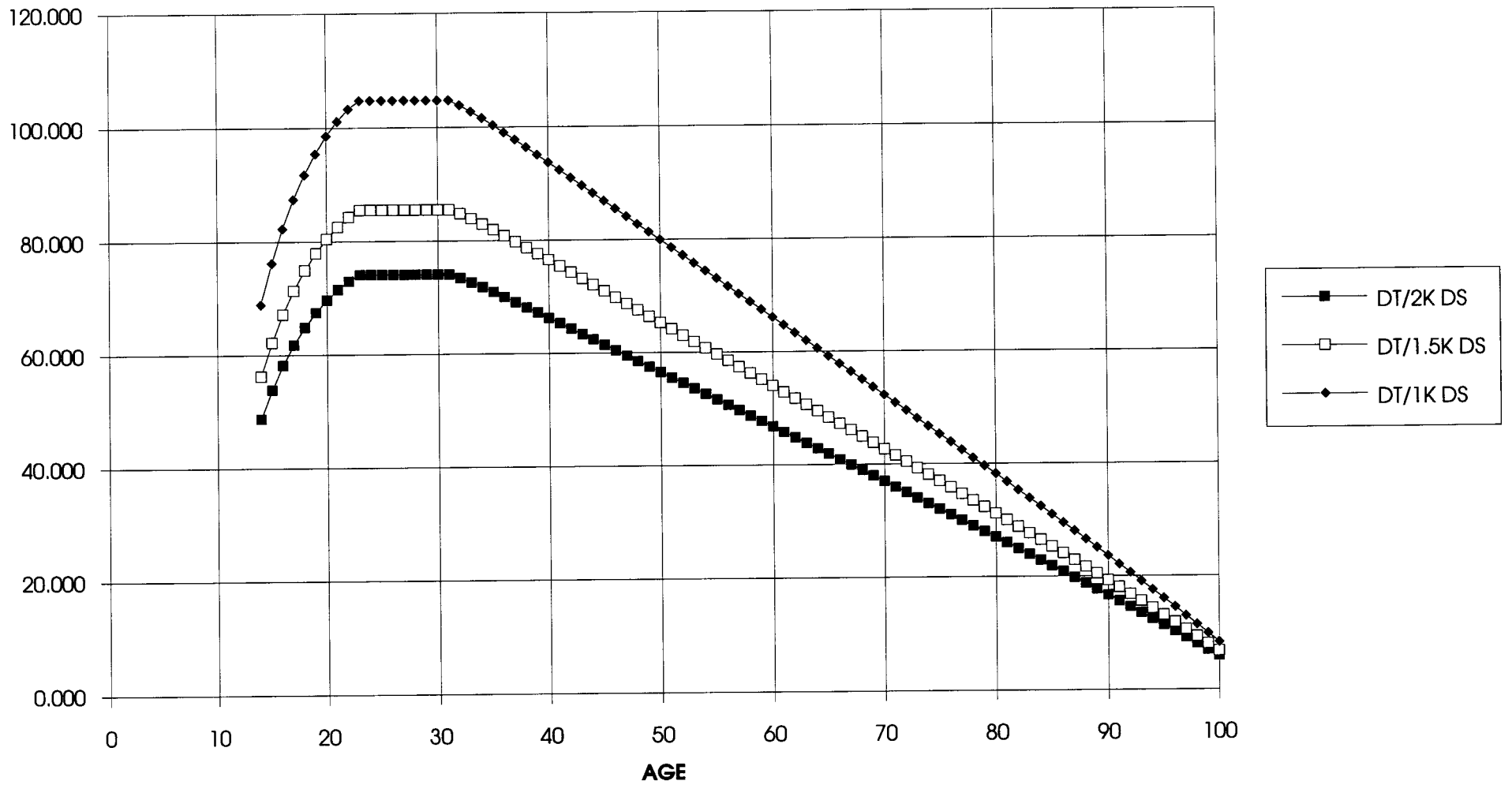
MENS DISTANCE STANDARDS AND RECORDS IN METERS



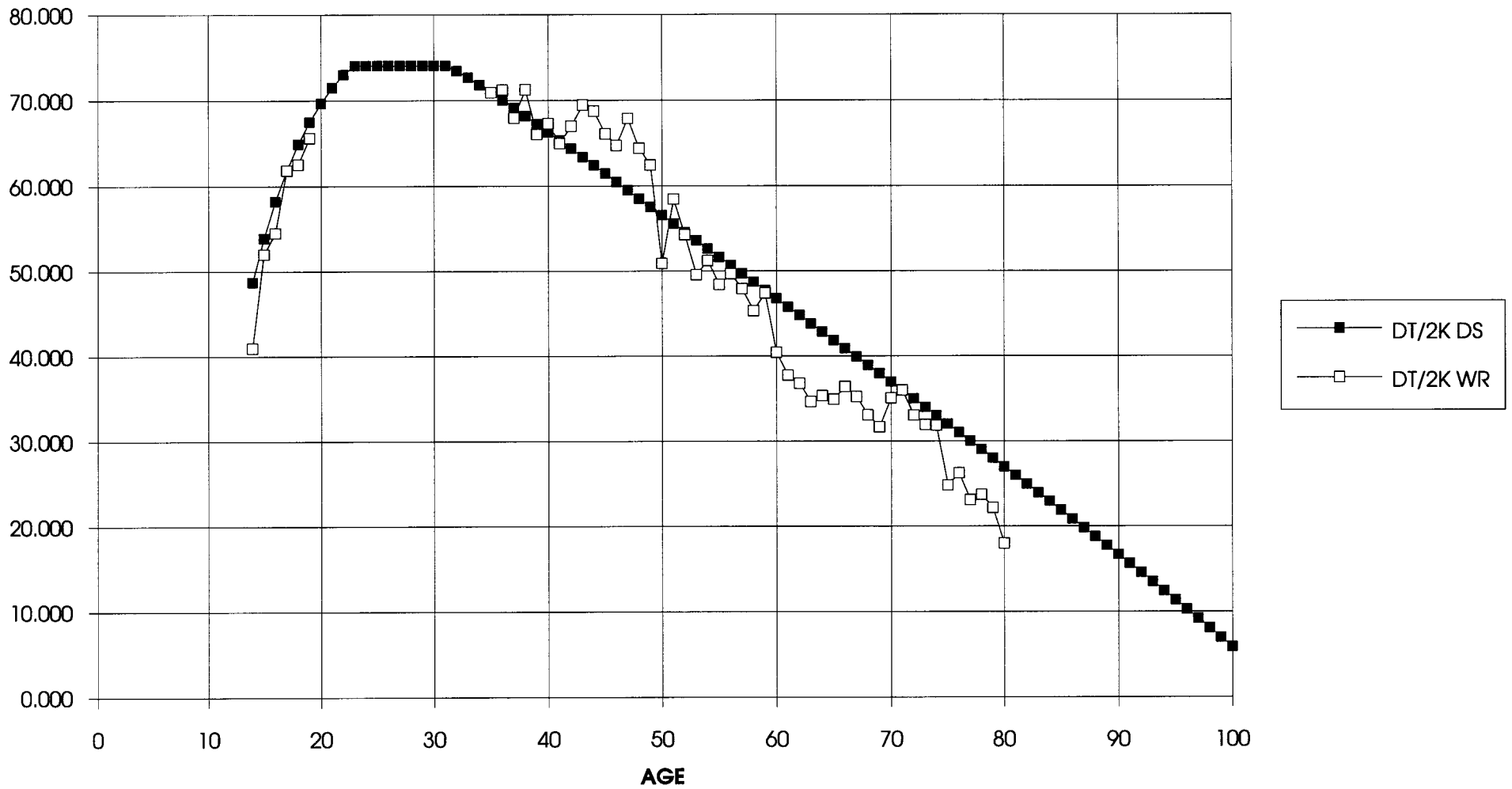
COMPOSITE CHART: MENS DISCUS THROW DISTANCE STANDARDS AND RECORDS IN METERS



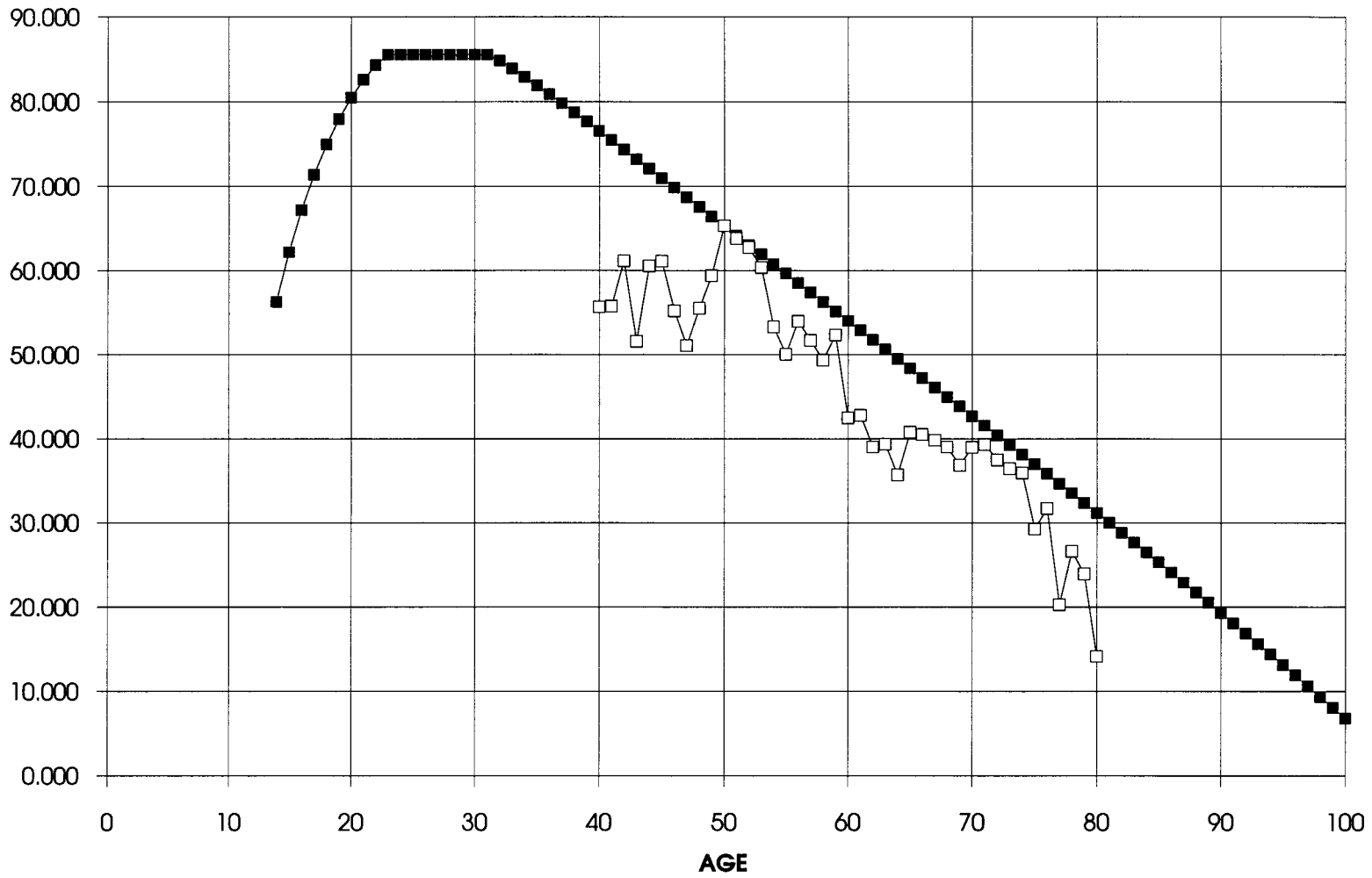
COMPARISON CHART: MENS DISCUS THROW DISTANCE STANDARDS IN METERS



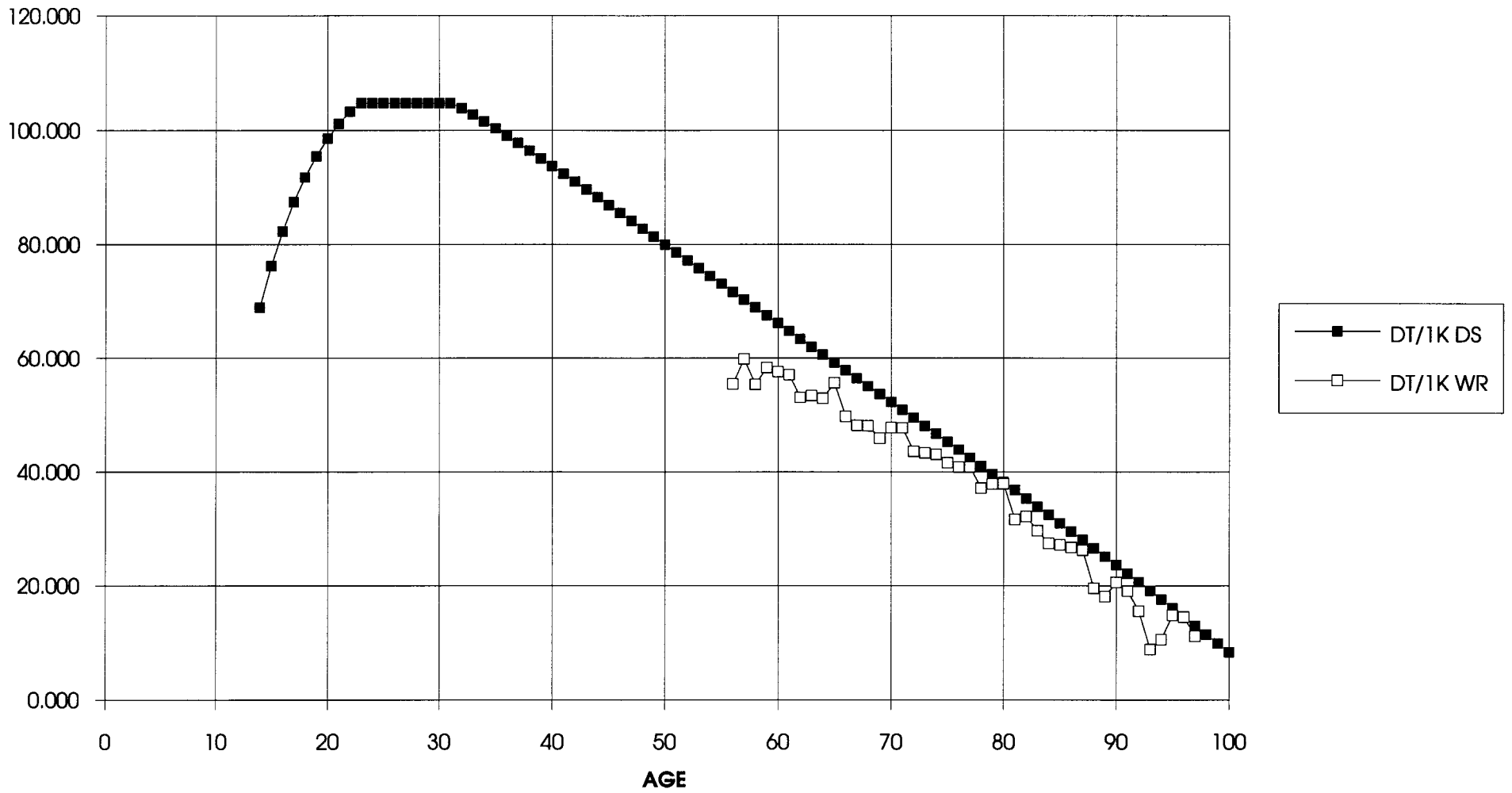
MENS DISTANCE STANDARDS AND RECORDS IN METERS



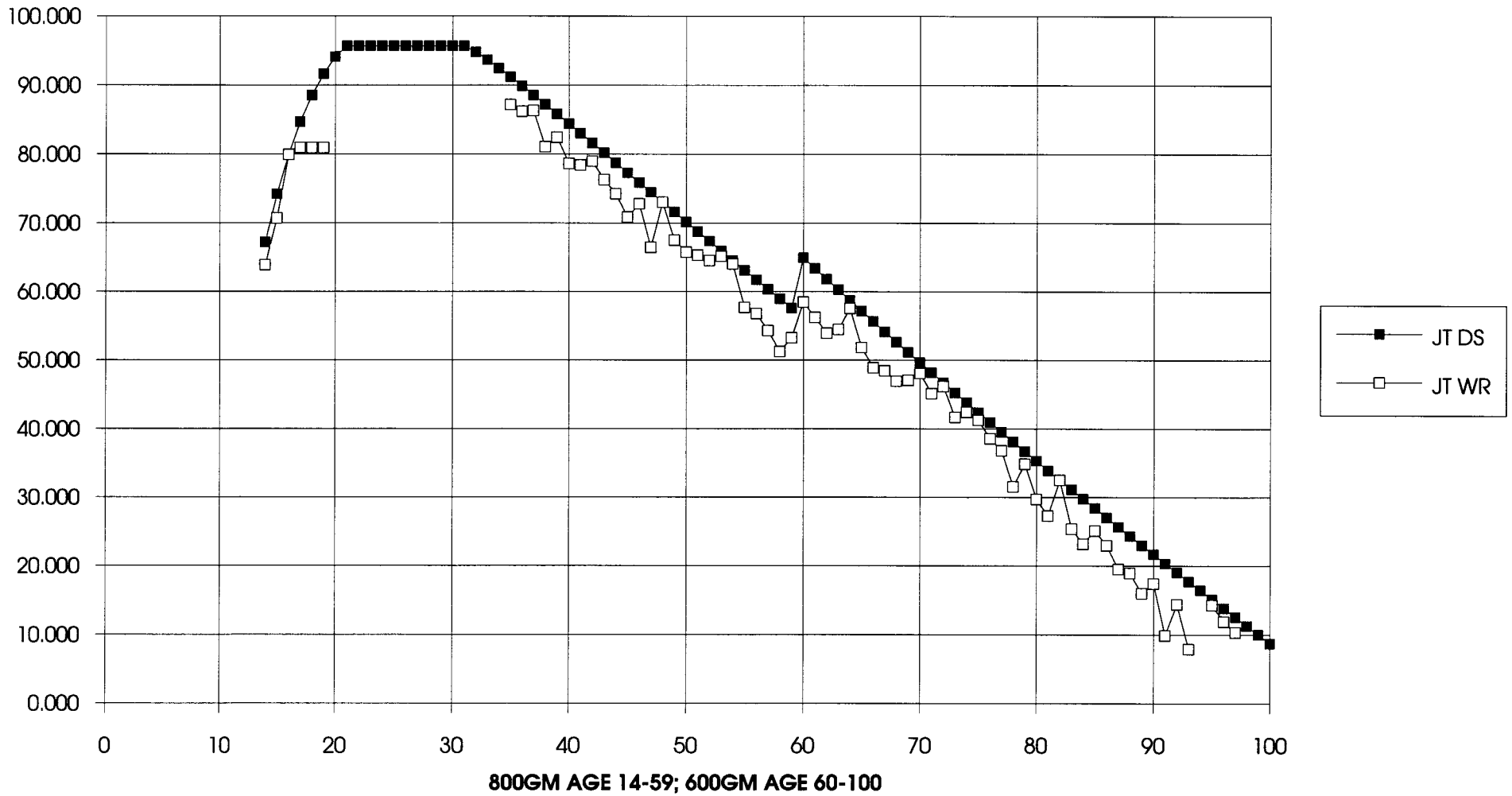
MENS DISTANCE STANDARDS AND RECORDS IN METERS



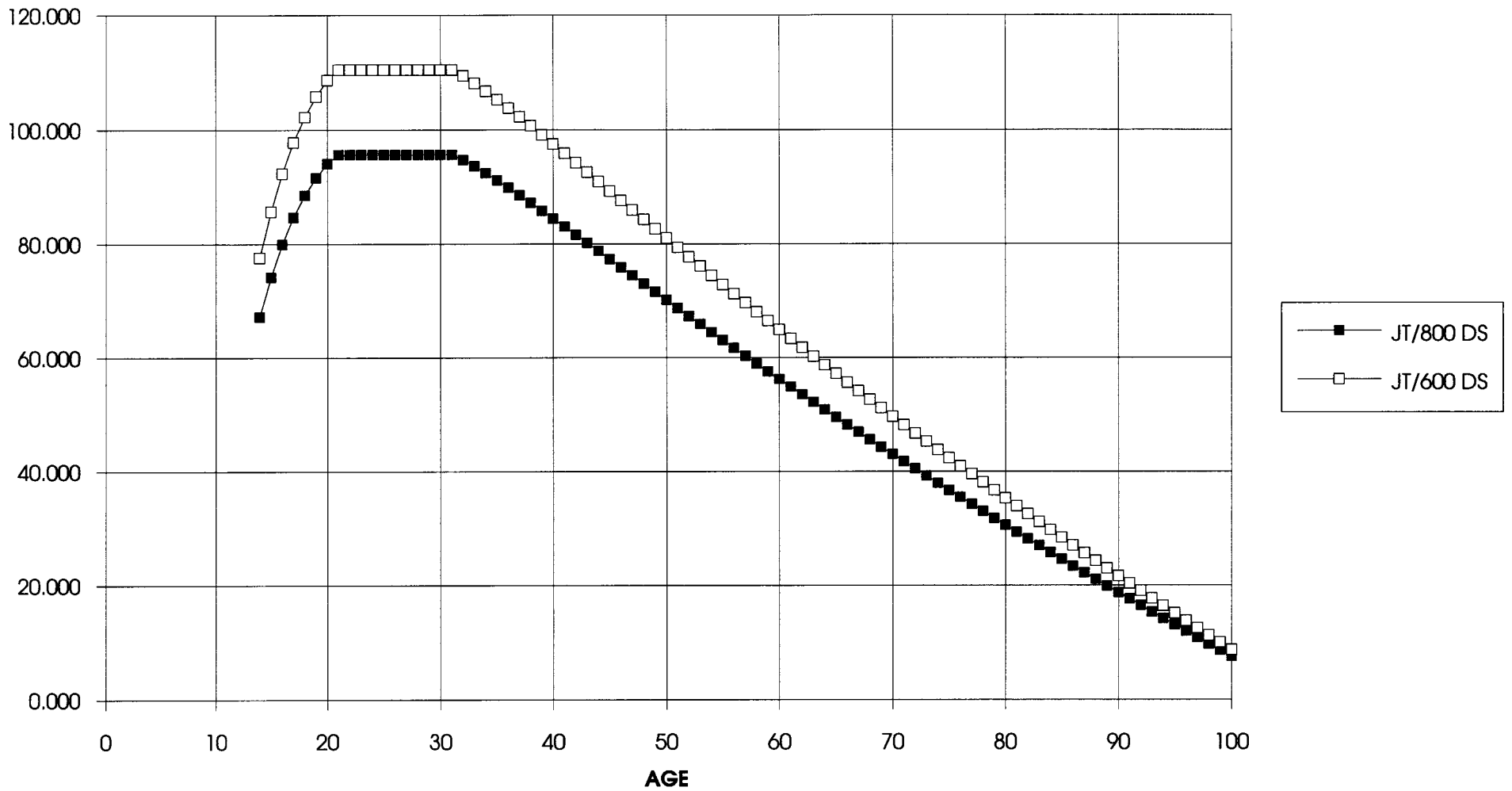
MENS DISTANCE STANDARDS AND RECORDS IN METERS



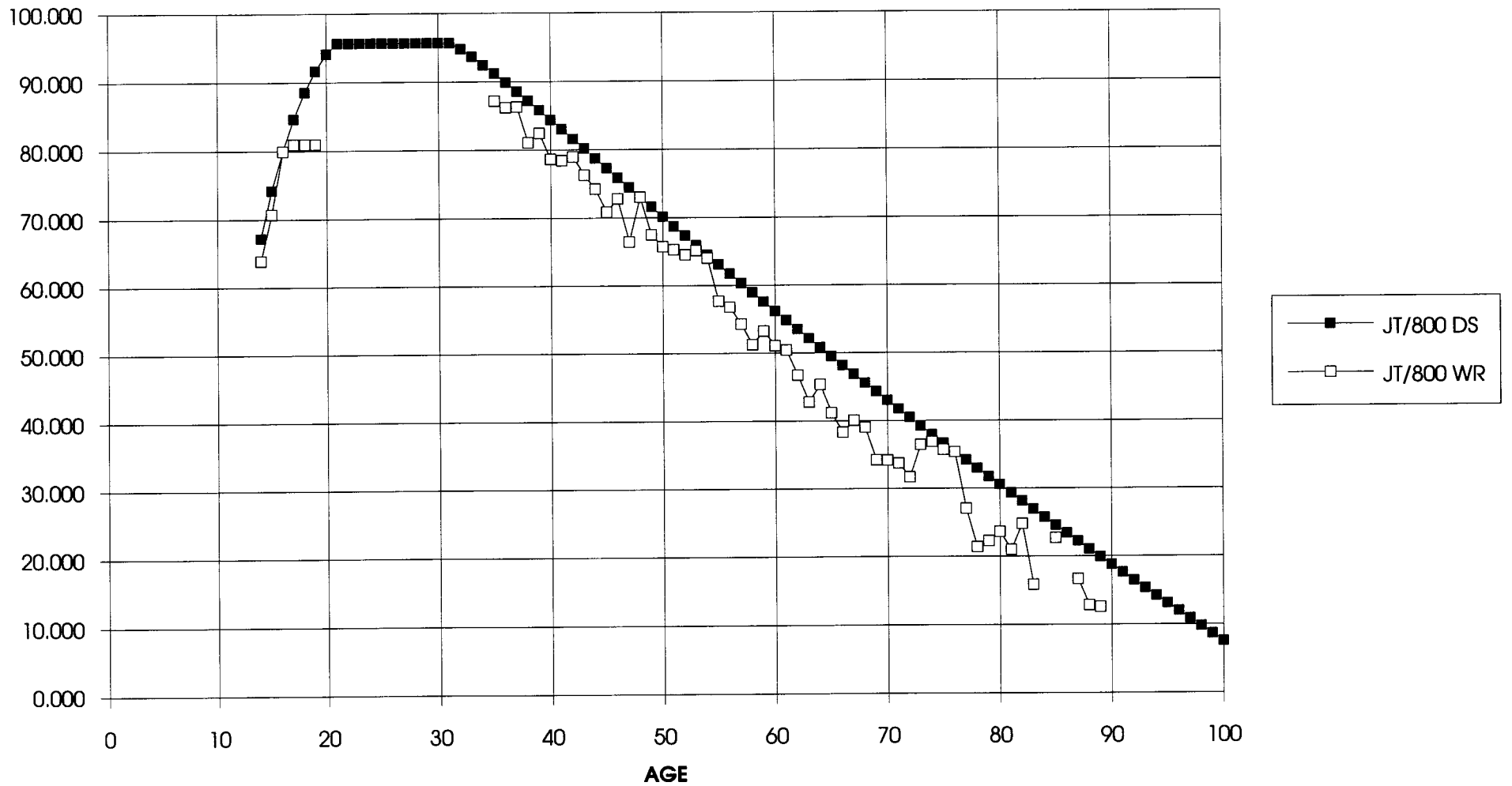
COMPOSITE CHART: MENS JAVELIN THROW DISTANCE STANDARDS AND RECORDS IN METERS



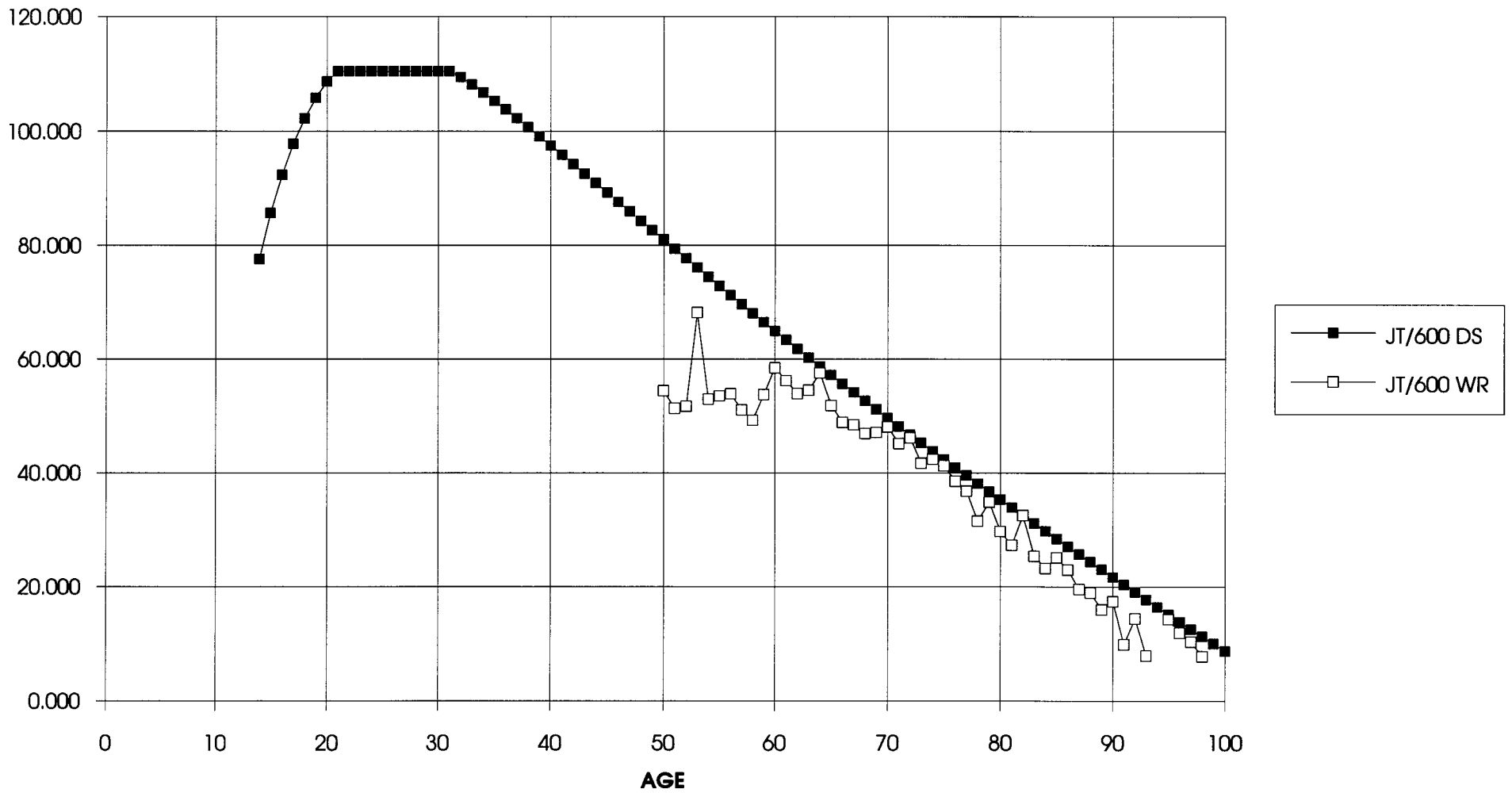
COMPARISON CHART: MENS JAVELIN THROW DISTANCE STANDARDS IN METERS



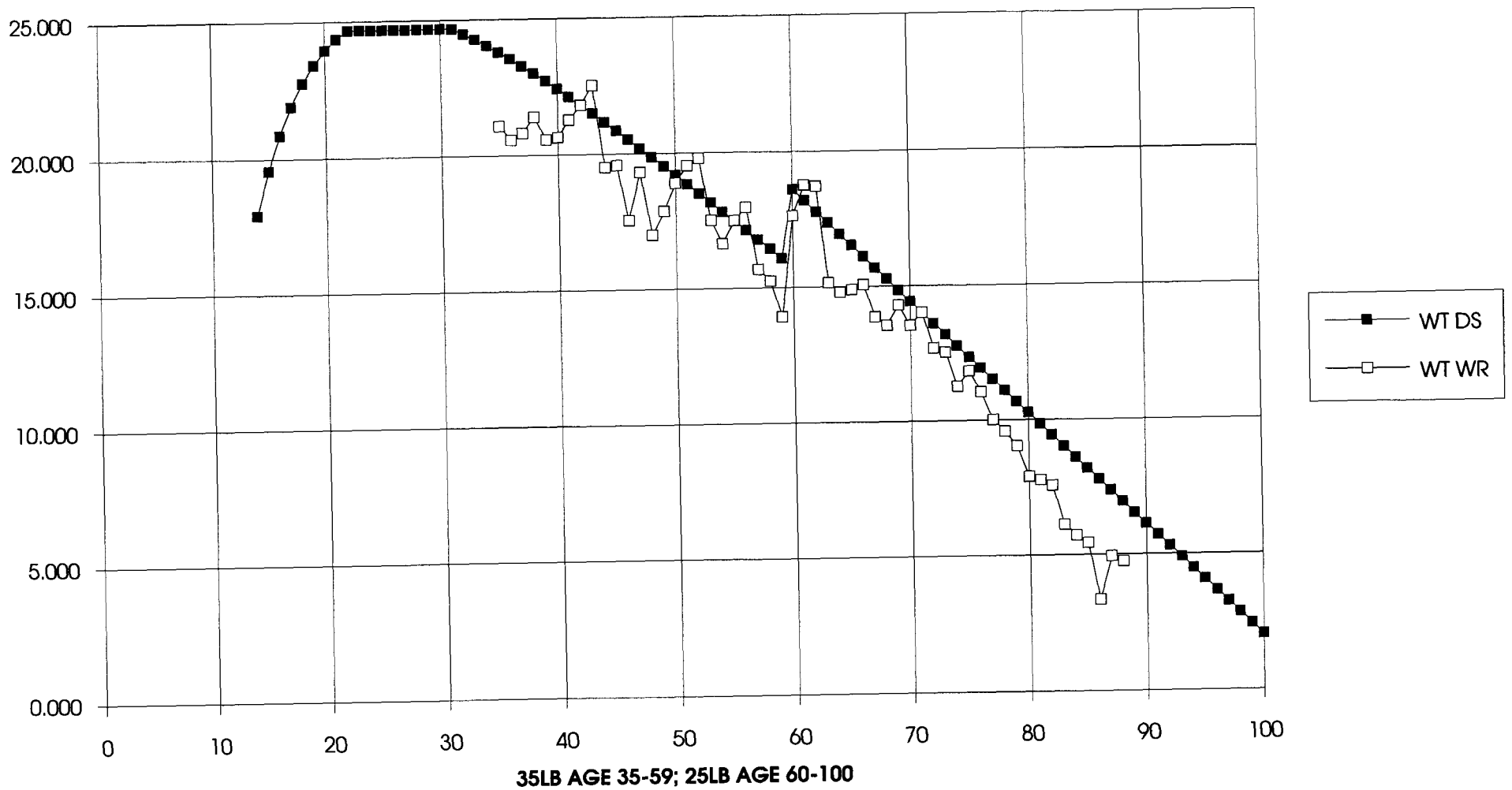
MENS DISTANCE STANDARDS AND RECORDS IN METERS



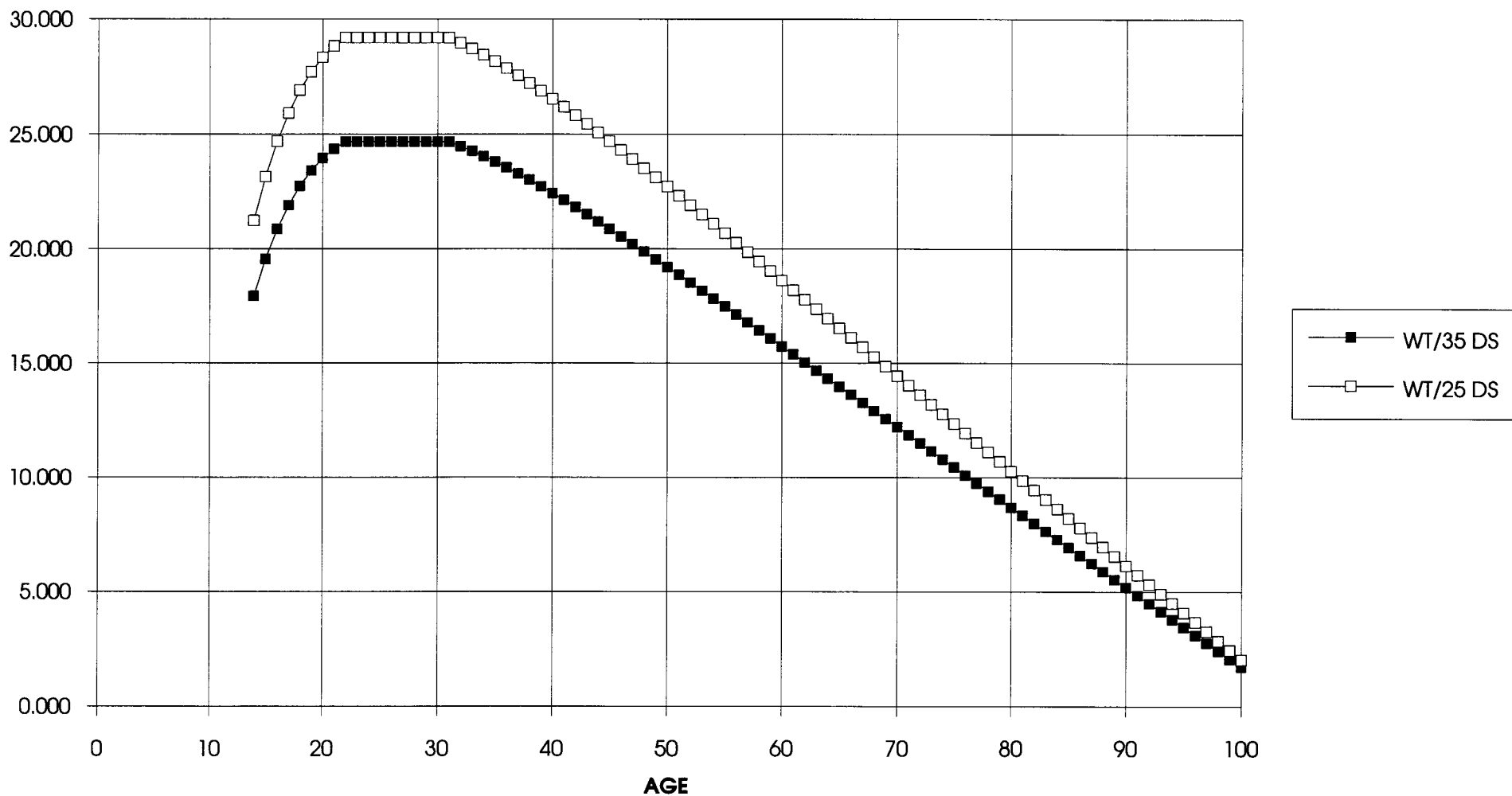
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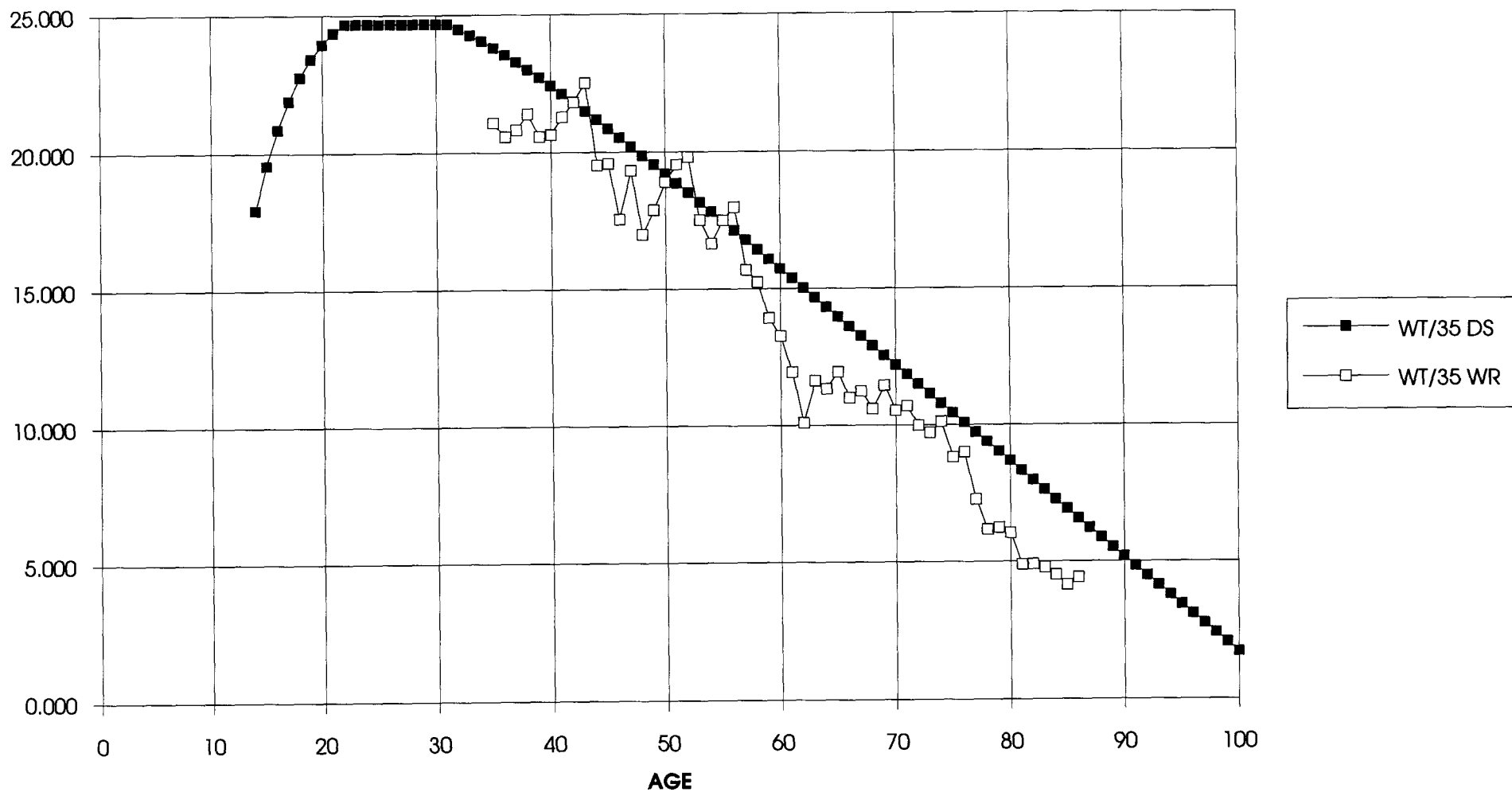
COMPOSITE CHART: MENS WEIGHT THROW DISTANCE STANDARDS AND RECORDS IN METERS



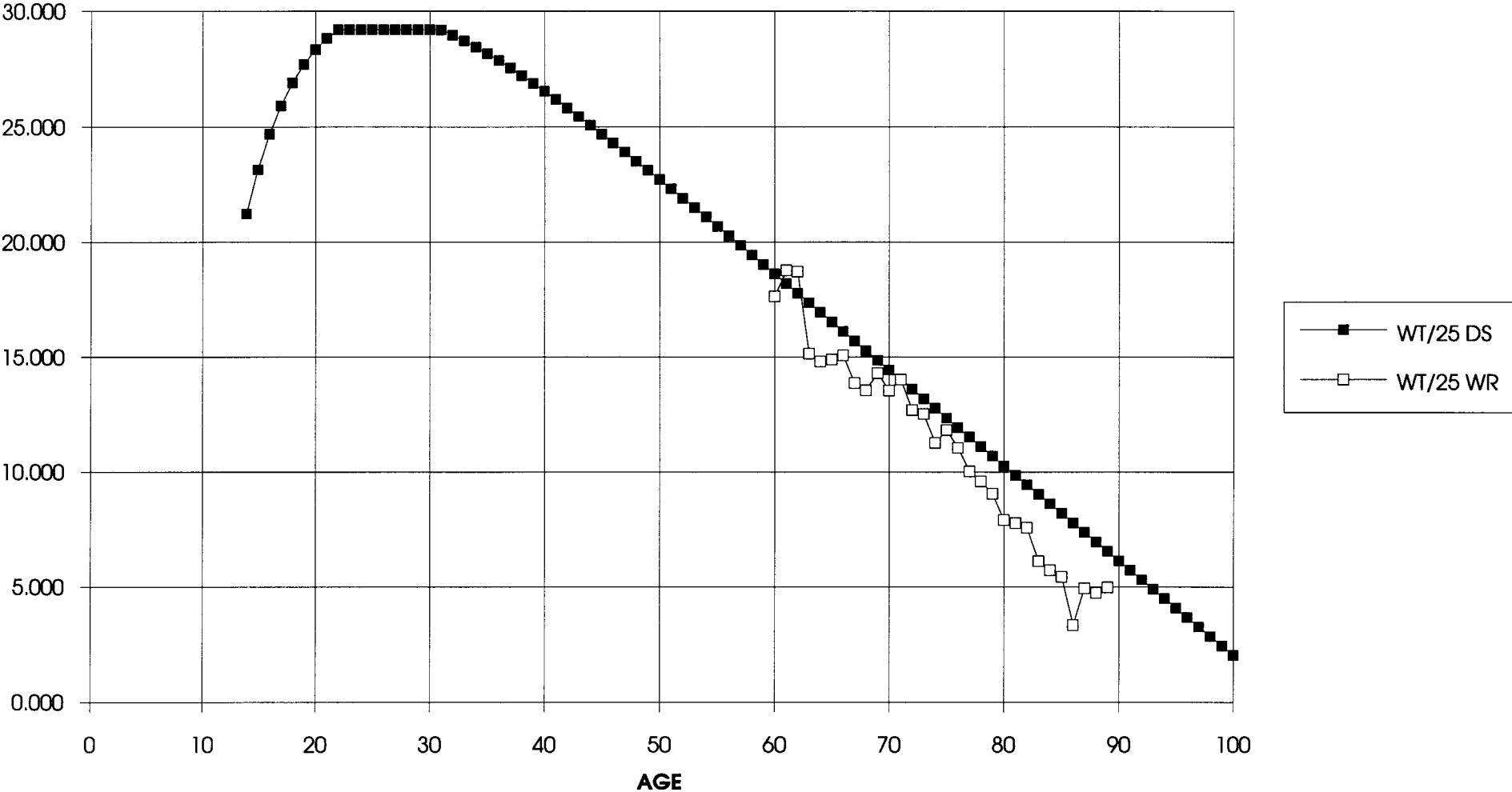
COMPARISON CHART: MENS WEIGHT THROW DISTANCE STANDARDS IN METERS



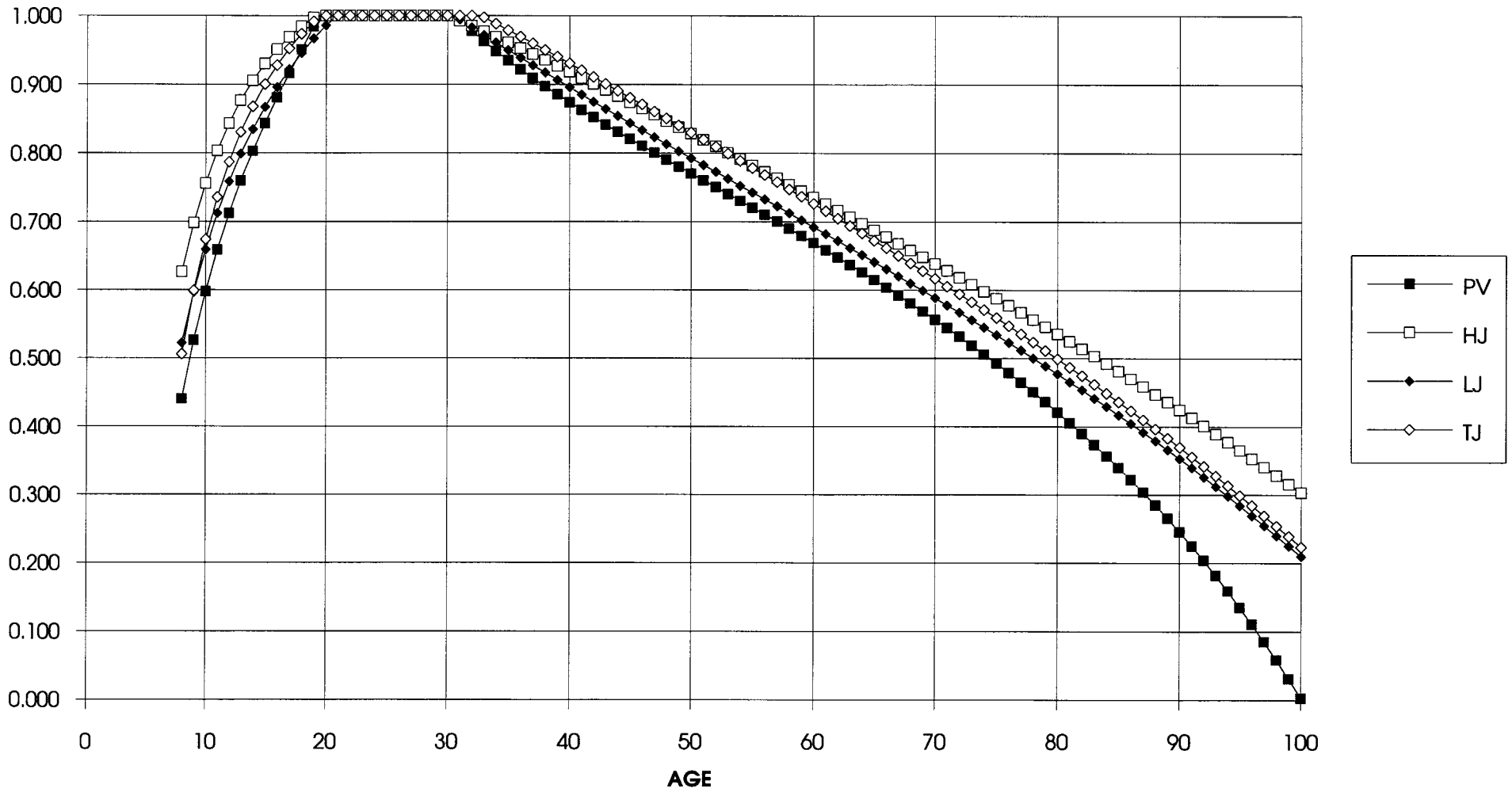
MENS DISTANCE STANDARDS AND RECORDS IN METERS



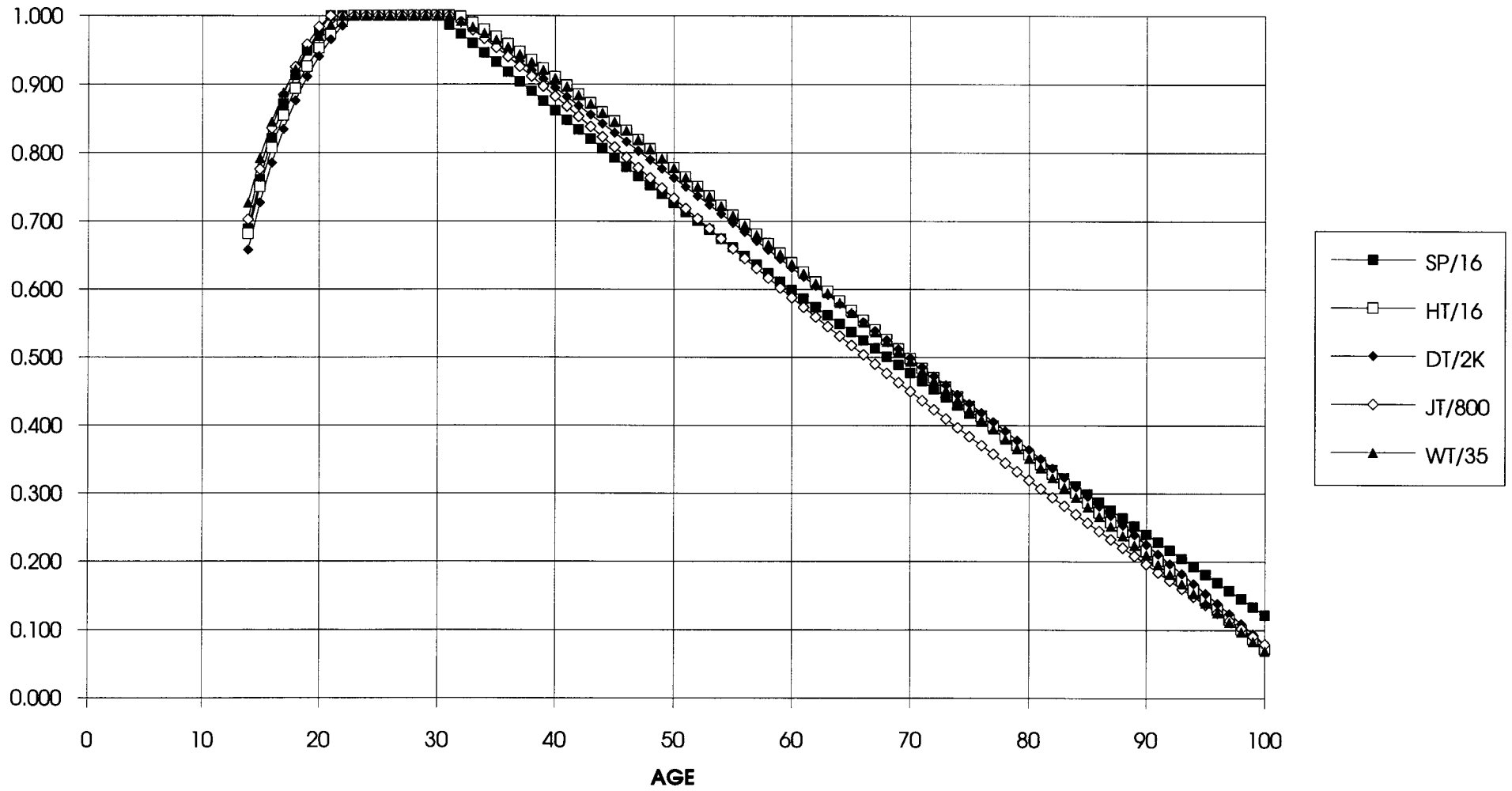
MENS DISTANCE STANDARDS AND RECORDS IN METERS



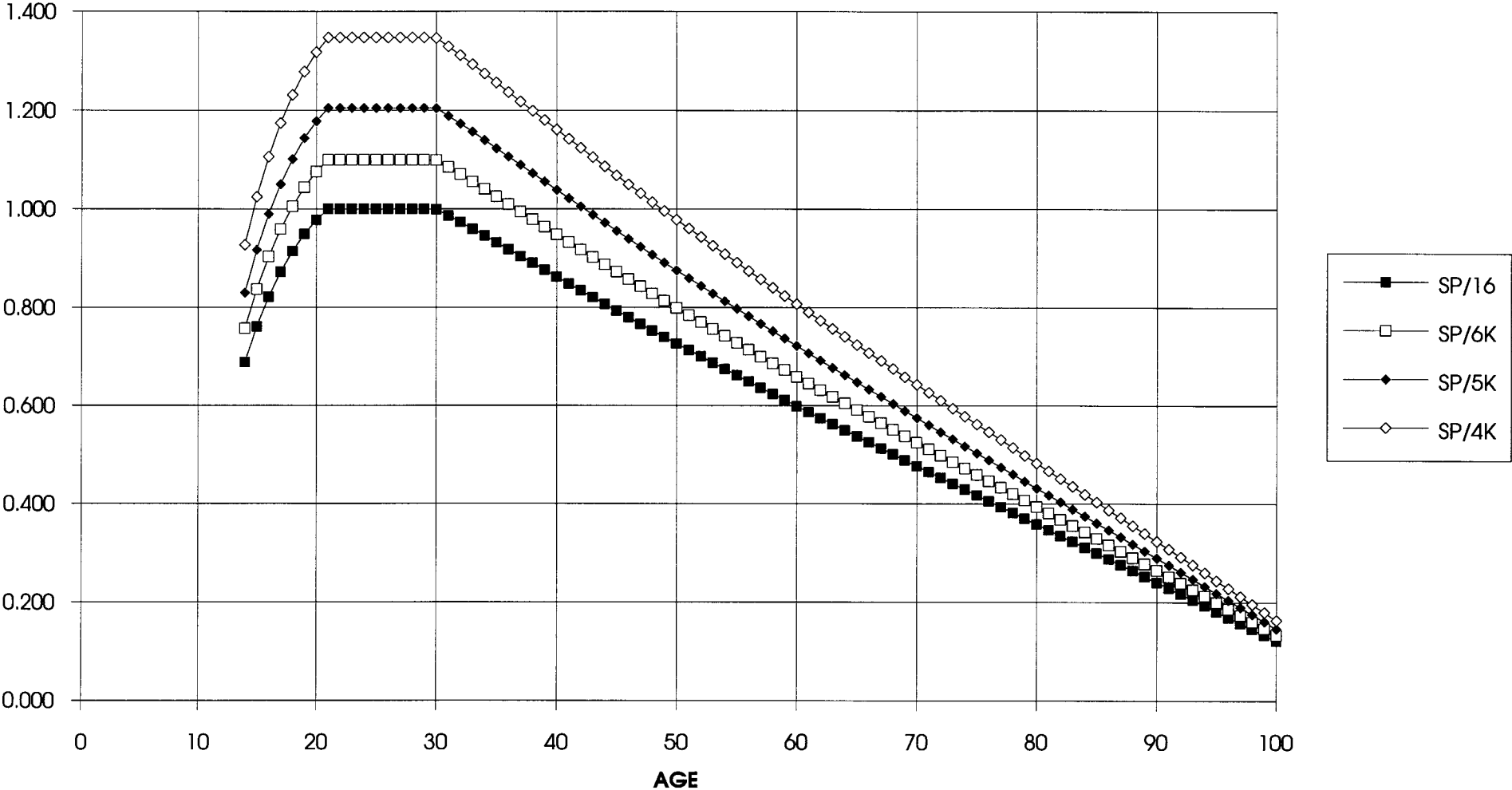
MENS AND BOYS AGE-FACTORS FOR JUMP FIELD EVENTS



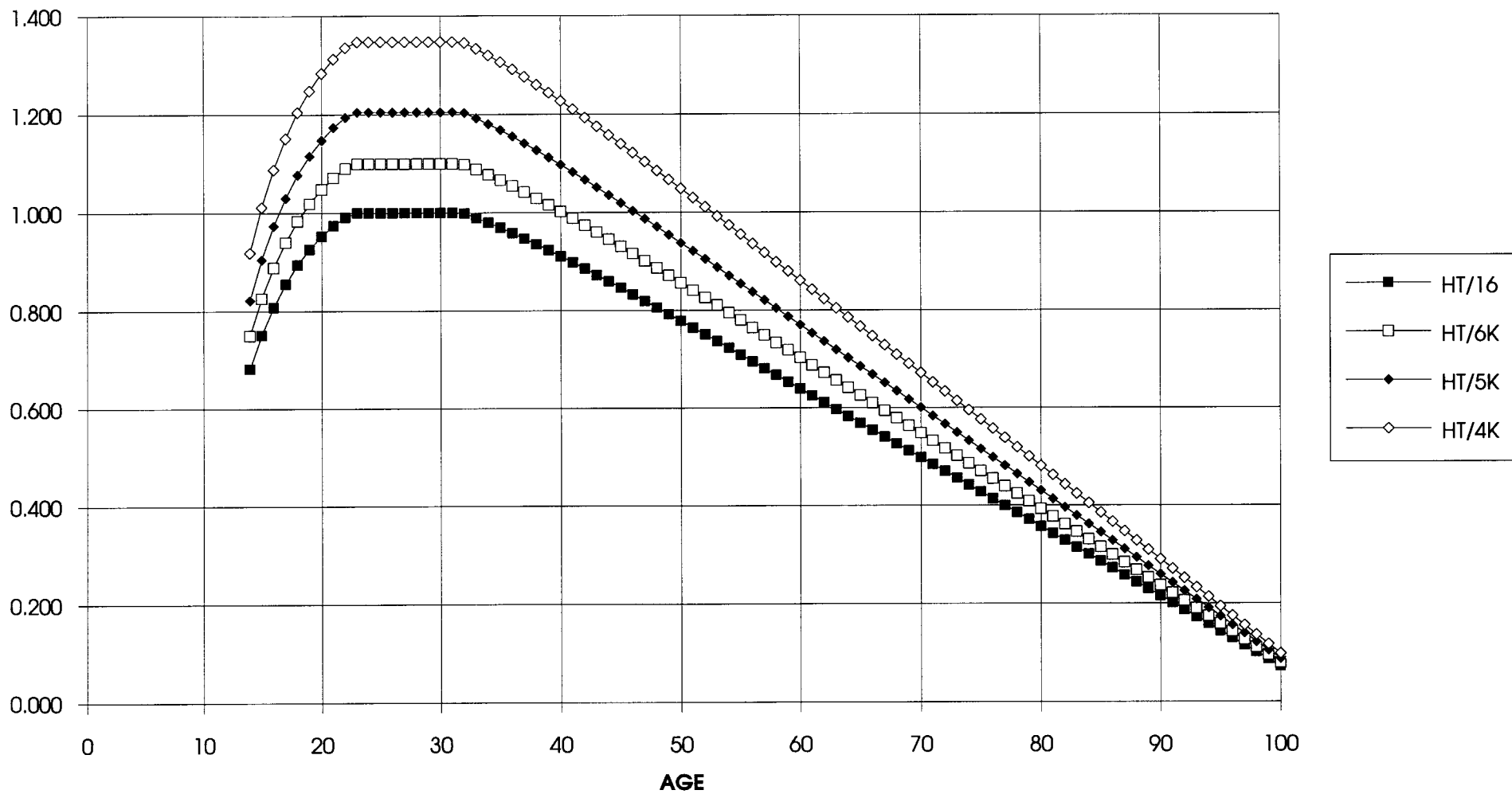
MENS AND BOYS AGE-FACTORS FOR THROW FIELD EVENTS



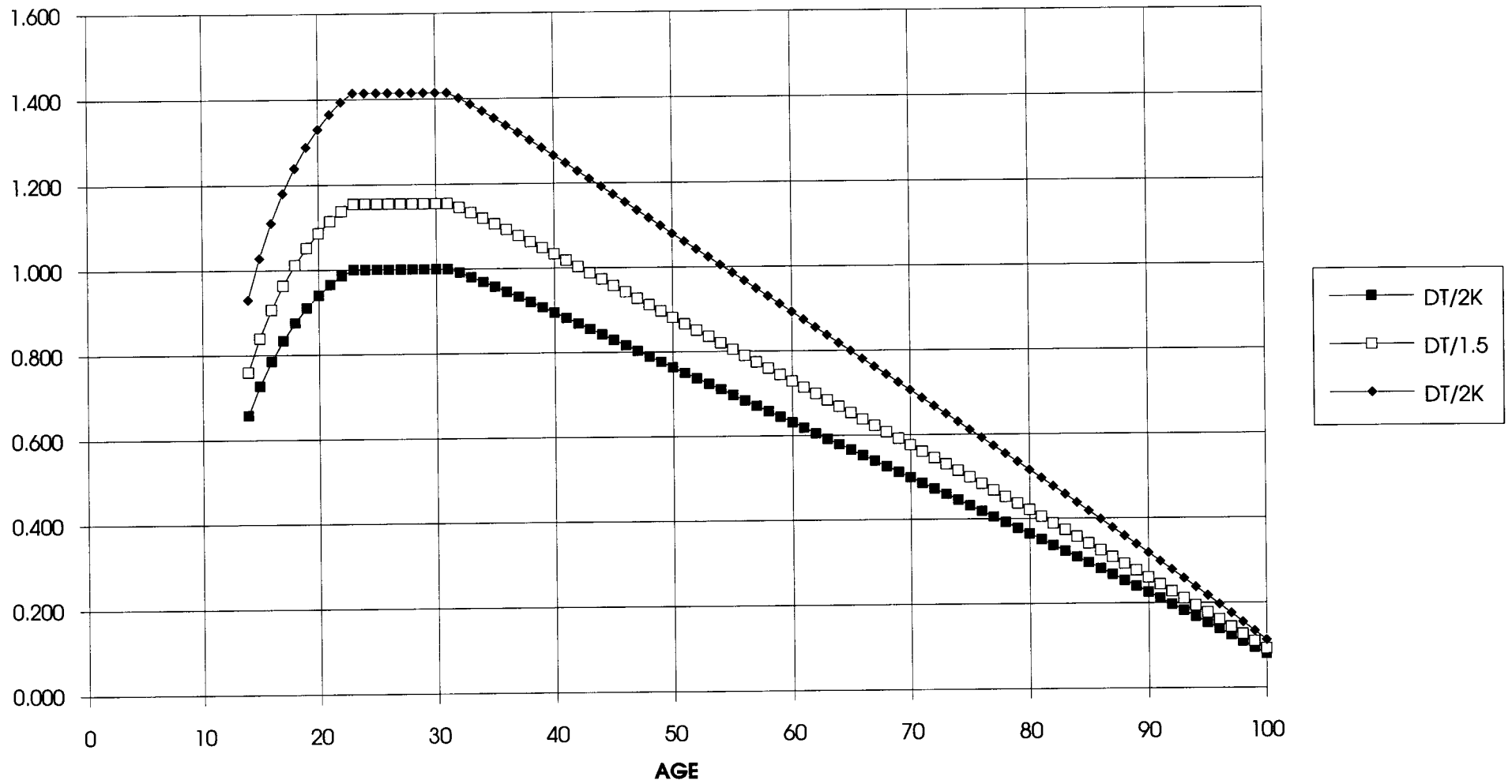
MENS AND BOYS AGE-FACTORS FOR SHOT PUT



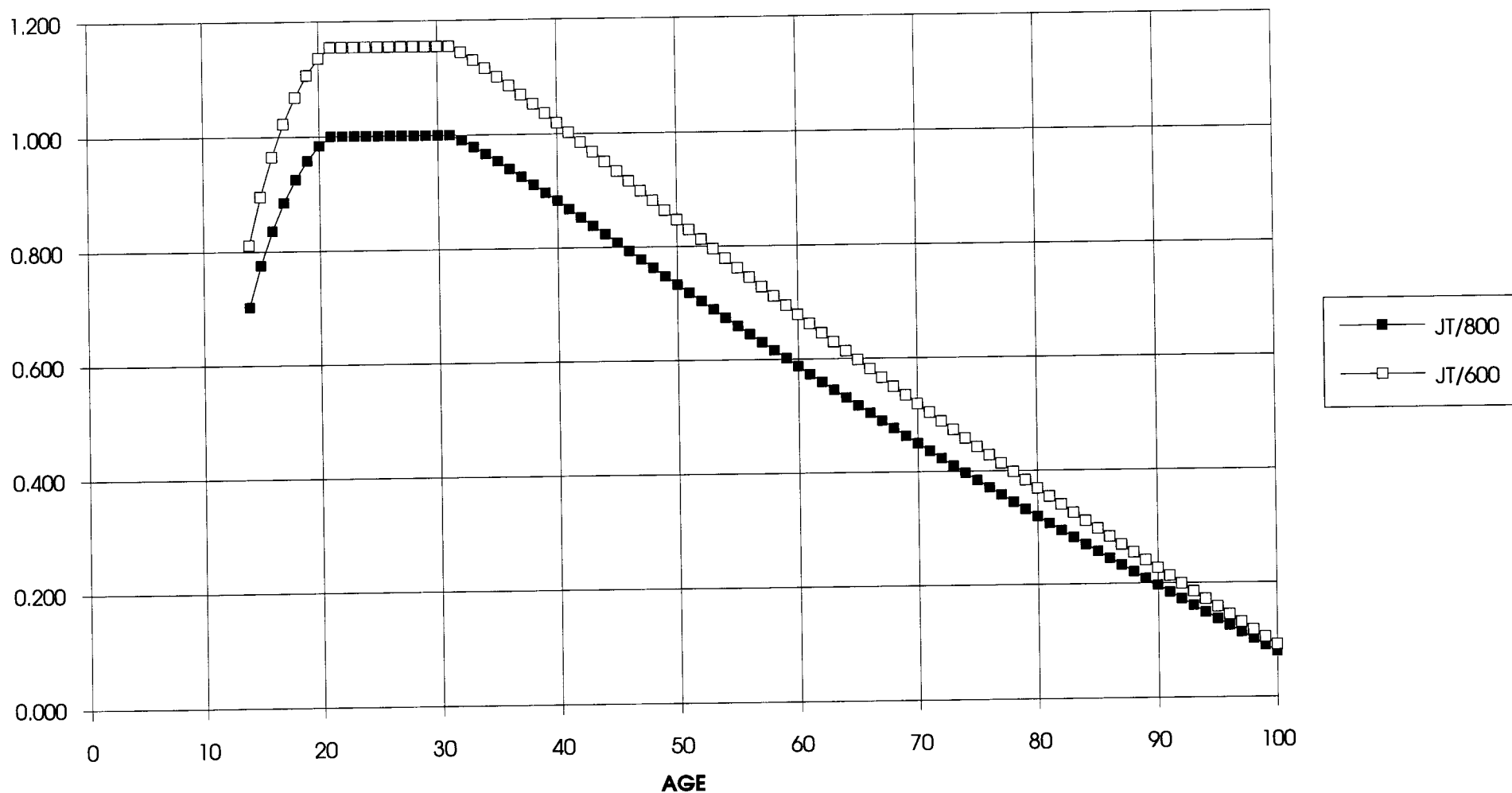
MENS AND BOYS AGE-FACTORS FOR HAMMER THROW



MENS AND BOYS AGE-FACTORS FOR DISCUS THROW



MENS AND BOYS AGE-FACTORS FOR JAVELIN THROW



MENS AND BOYS AGE-FACTORS FOR WEIGHT THROW

