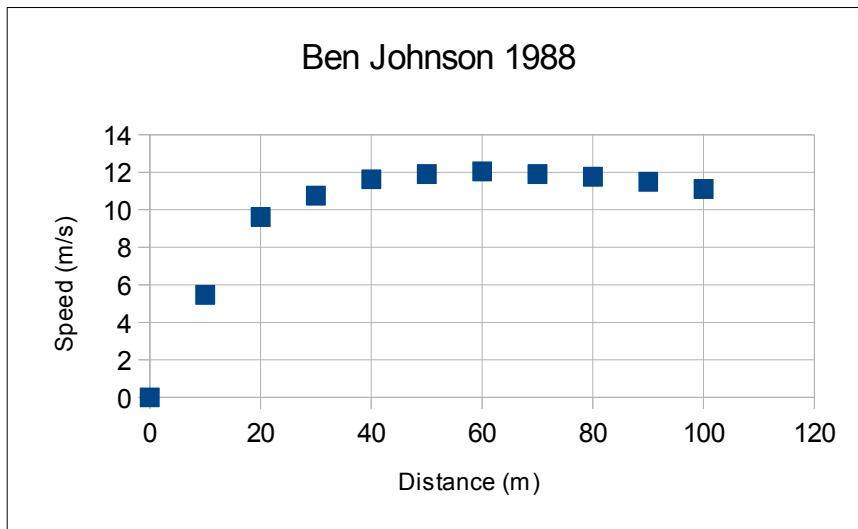


Sheet1

Ben Johnson 1988 (DQ)

Dist	Ben	cum split	Dist	Speed
0	0	0	0	0
10	1.83	1.83	10	5.5
20	1.04	2.87	20	9.6
30	0.93	3.8	30	10.8
40	0.86	4.66	40	11.6
50	0.84	5.5	50	11.9
60	0.83	6.33	60	12.0
70	0.84	7.17	70	11.9
80	0.85	8.02	80	11.8
90	0.87	8.89	90	11.5
100	0.9	9.79	100	11.1



Usain Bolt 2009 9.58 world record 100m

Distance	split	dist	actual speed	logistic model
0	0	0	0	0
20	2.89	20	6.9	8.0
40	4.64	40	11.4	11.3
60	6.31	60	12.0	12.2
80	7.92	80	12.4	12.3
100	9.58	100	12.0	12.4

Formula: $'=-12.4+(24.8/(1+EXP(-C31/13)))$
 (formula is from cell E31).

Usain Bolt 9.58 world record run 2009

Actual versus logistic model

