



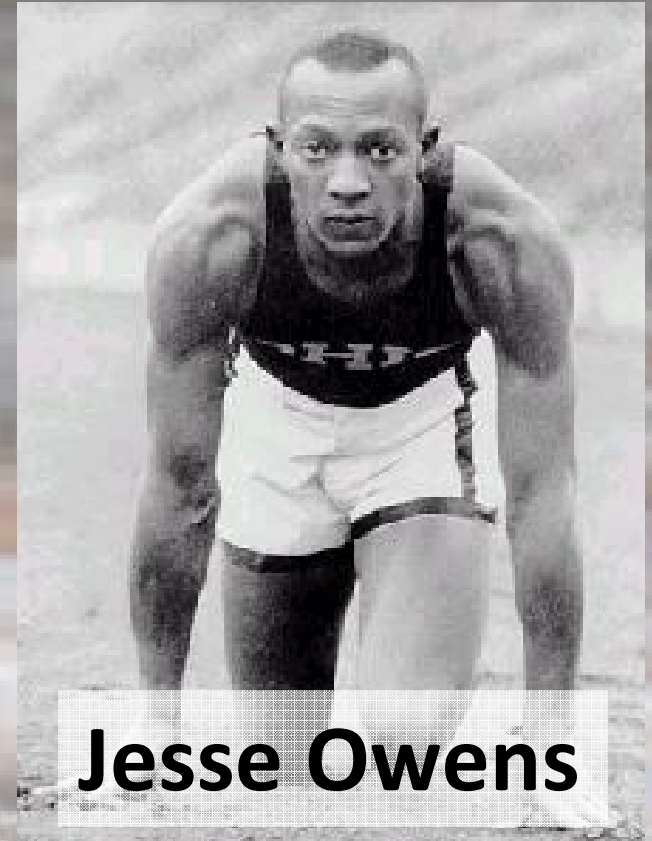
# Forecasting Human Sporting Achievement



Jesse Owens ran 100m in  
10.2 seconds in Berlin, 1936

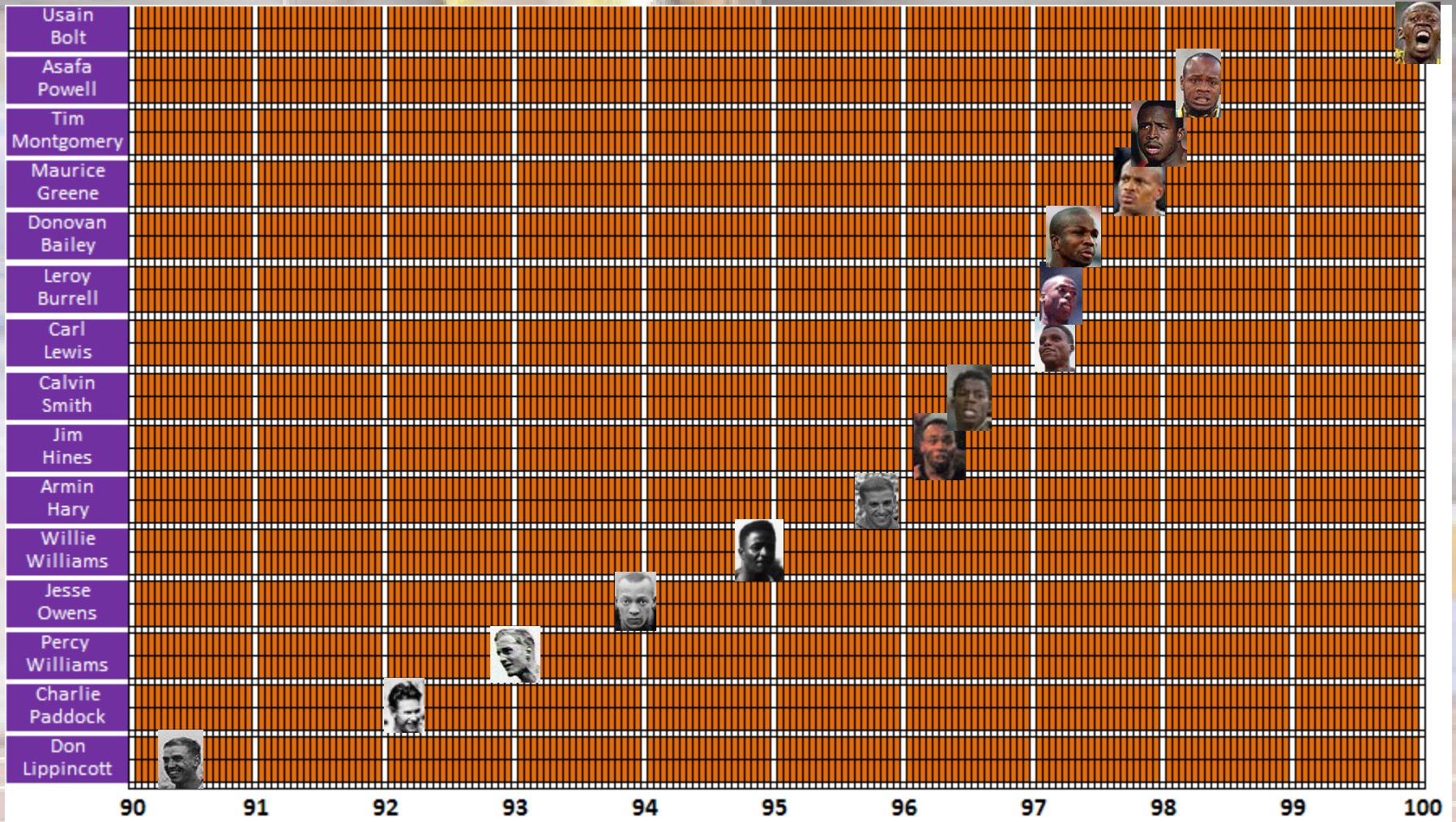
Usain Bolt ran 100m in 9.58  
seconds in Berlin, 2009


What time might the Olympic champion of  
2060 win in?



**Jesse Owens**

# How the 15 world record holders in the men's 100m sprint would finish had they all raced at their best





# How could we use statistics to predict the time taken by the 100m winner in the 2060 Olympics?

What data could we collect?

Where would we get it from?

How would we process it?

How would it help us to make a prediction?

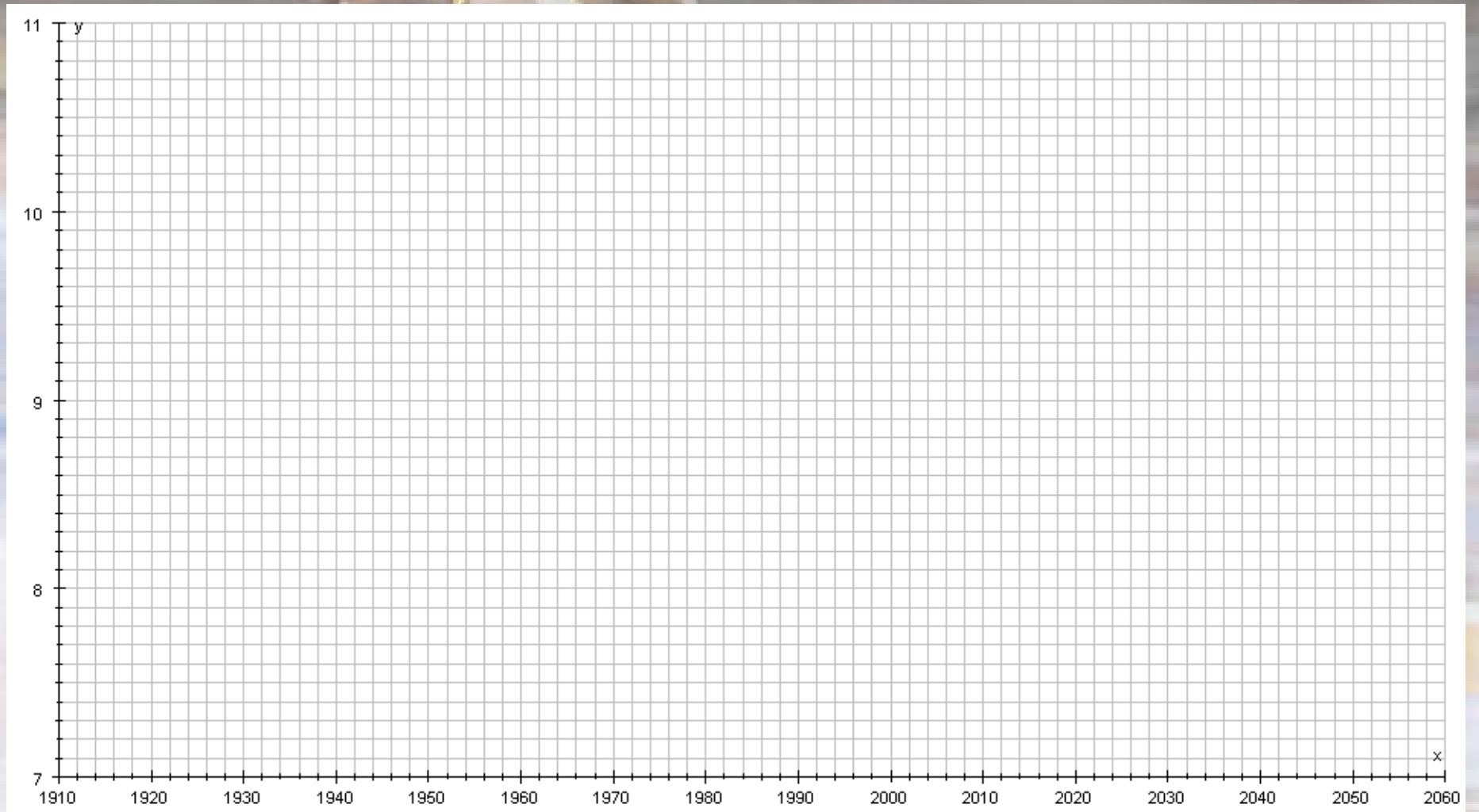


Athlete	Year	Time (s)
Don Lippincott	1912	10.6
Charlie Paddock	1921	10.4
Percy Williams	1930	10.3
Jesse Owens	1936	10.2
Willie Williams	1956	10.1
Armin Hary	1960	10.0
Jim Hines	1968	9.95
Calvin Smith	1983	9.93
Carl Lewis	1988	9.92
Leroy Burrell	1991	9.90
Carl Lewis	1991	9.86
Leroy Burrell	1994	9.85
Donovan Bailey	1996	9.84
Maurice Greene	1999	9.79
Tim Montgomery	2002	9.78
Asafa Powell	2005	9.77
Asafa Powell	2007	9.74
Usain Bolt	2008	9.72
Usain Bolt	2008	9.69
Usain Bolt	2009	9.58

These are the world record breaking times for the 100m since records were first officially kept.

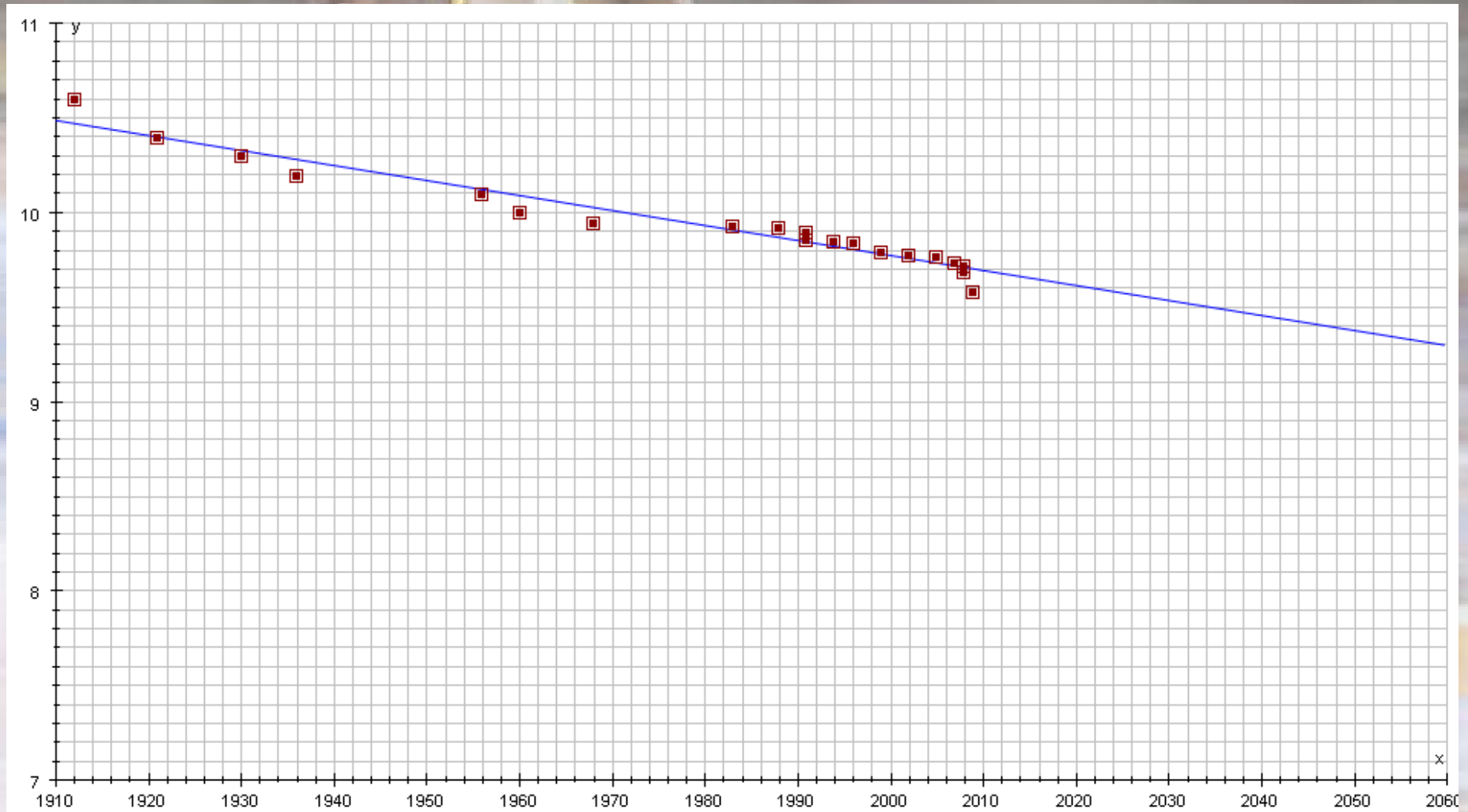
How could this data be processed to let us predict the possible record time in 2060?







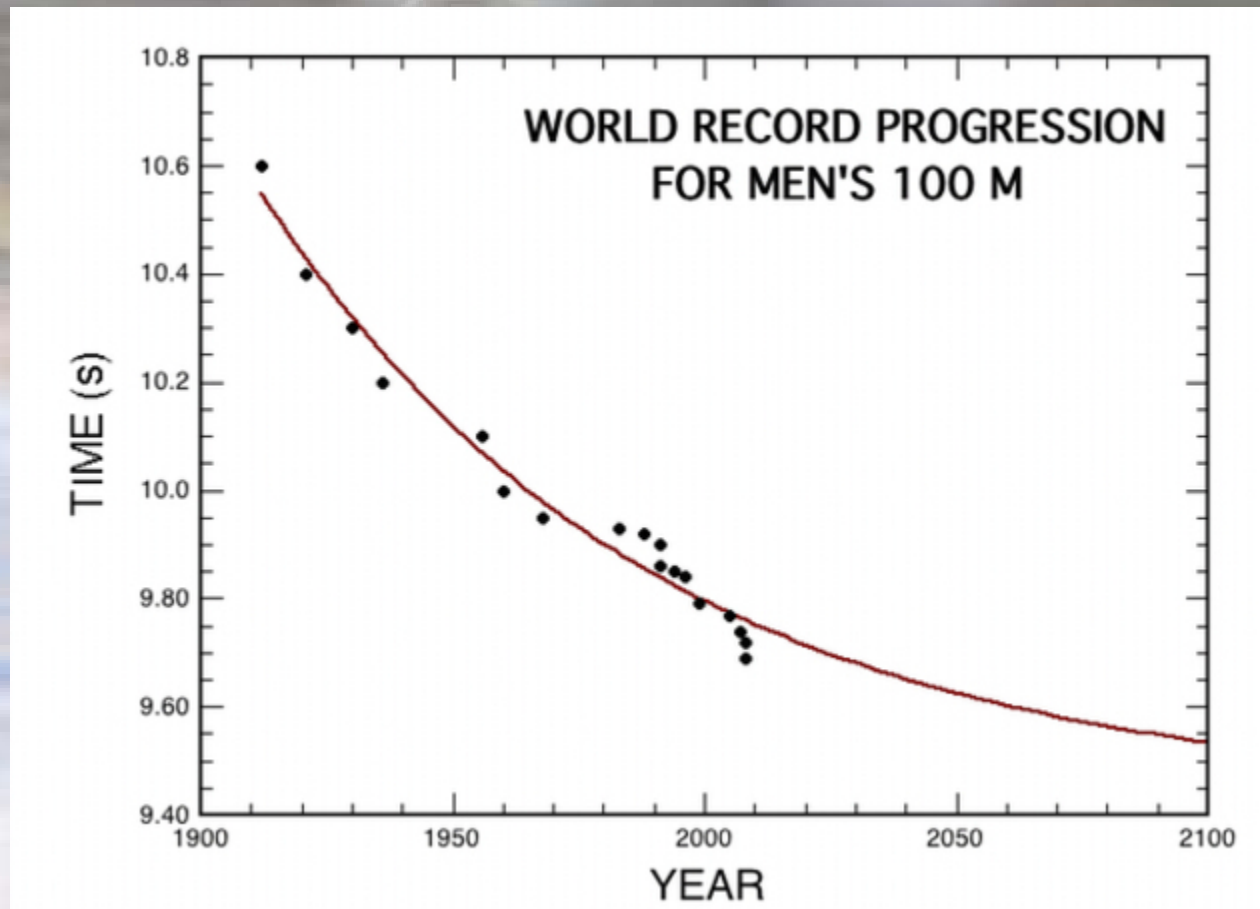
What prediction model could be used with this data?



What time might be expected in 2060?

What problems are there with this model?

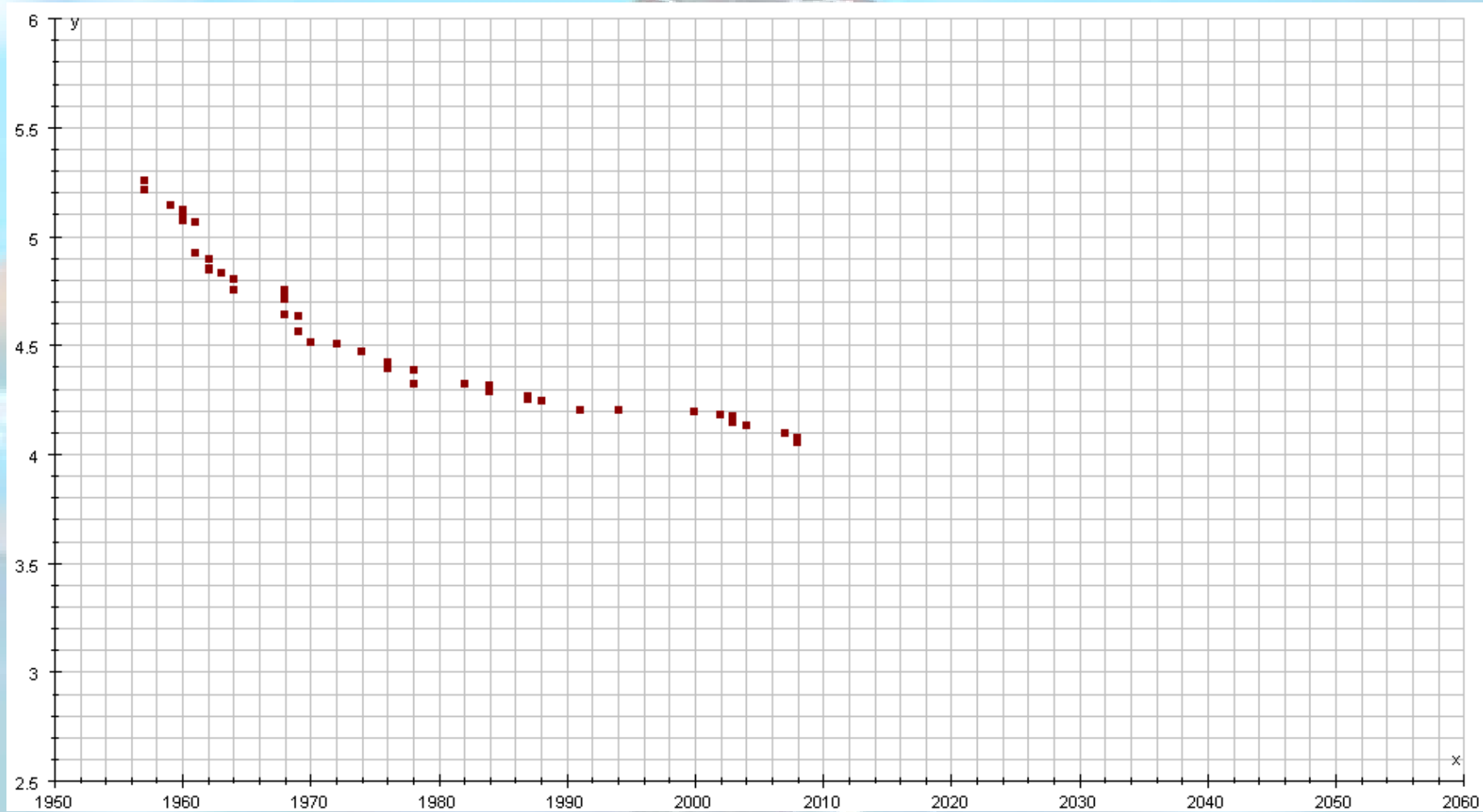


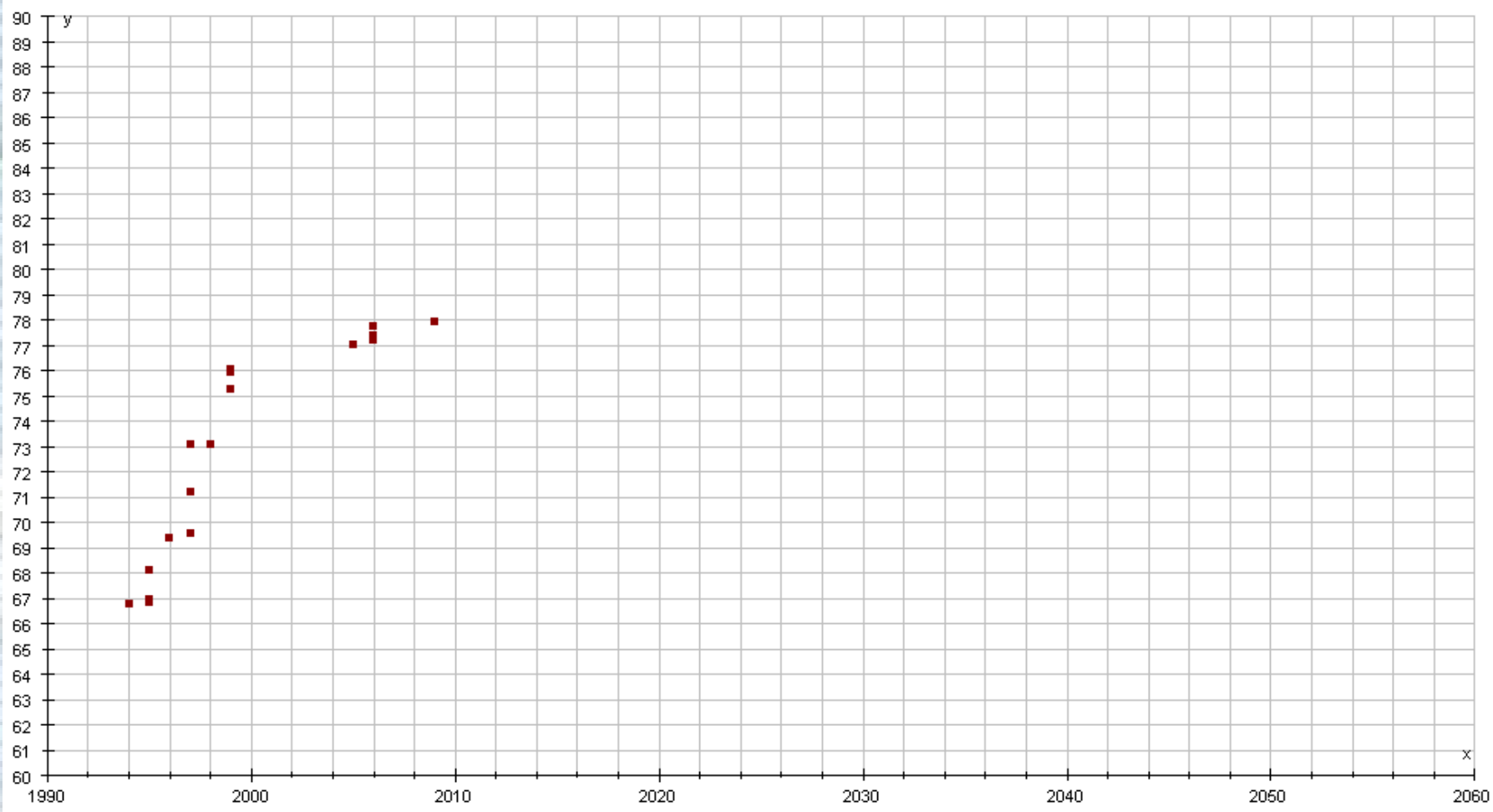


This model from [www.wired.com](http://www.wired.com) is based on work by the Institute for Data Evaluation and Analysis in Japan and doesn't predict Usain Bolt's time until after 2030!

Use world record data to predict the possible time for the men's 400m medley or the women's hammer.









[www.UniversalSports.com](http://www.UniversalSports.com)

