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AP Statistics

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AP Statistics - Investigative Task - Chapter 9 Olympic Long Jump

The linear model of Olympic Long Jump since 1900 has a positive slope of about 0.04. This indicates that every 10 years results in an increase in distance of about 0.4 meters. There is a decrease:

increase in distance from 1900 to 1904. This may be due to improvements in dealing with the new Olympic Games. As such, I have entered the data from my subset of data. (Copy and paste to the data table)

1900 to 1904, from 1927-1947, and from 1968-1992. Following each of these times are decreases in distance at the Olympic Long Jump. The gaps and the decreases are most likely explained by war. 1

I have also entered all data from my subset except the distance from across Olympic events, as advances in technology and in the world in general makes more earlier data irrelevant. Using an, however, jump

The correlation about .25, and the R-squared has dropped about 50%. The residual of this data follows a curve, which explains the nonlinear linear model. The categorical 5, which may be in there.

$R^2 = .25$

$R^2 \text{ adjusted} = .17\%$

$\text{Adjusted } R^2 = 0.468171646$

$R^2 \text{ increase} = .427467346$

Using this model, I predict the Long Jump length for 2000 to be around 100.04 meters. The actual Long Jump length was about 105.17 meters, making the residual for the data around 5.13 meters.

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