

## 22S:30/105, Statistical Methods and Computing

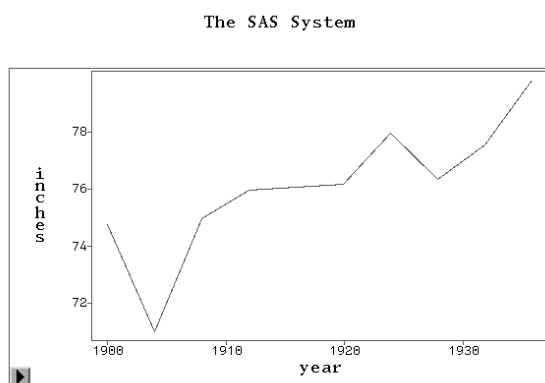
Instructor: Cowles

## Spring 2009, Homework 1

Due: Fri., 01/30 in class

Please put your name at the top of your homework, and list the names of any classmates with whom you collaborated.

- For the years 1900 to 1936, this plot shows the height of the gold-medal-winning male Olympic high jump.



- What type of plot is this?
  - What was the approximate winning jump height in 1932?
  - Give a brief description of the pattern of winning jump heights over these years.
- Identify each of the following variables as nominal, ordinal, binary, quantitative discrete, or quantitative continuous:
    - number of piglets in a litter
    - whether or not a person has a high school diploma
    - the major of an undergrad quantitative science student (can take on values “computer science,” “math,” “statistics,” “actuarial science”)
    - weight of an elephant in kilograms
    - rating of a performer in a musical competition (can take on values “superior,” “excellent,” “good,” “fair,” “poor”)
  - Textbook problems: 1.26, 1.30, 1.32, 1.37, 1.40, 1.42