



## In Class Exercises (ICE) - 7/25/00

Since the late 1950's, a string of reports have described large, hairy, ape-like creatures (named "Bigfoot") inhabiting the forests of the Pacific northwest. For the last forty years, Bigfoot researchers have made plaster casts of large footprints that have been discovered in wilderness areas of the Pacific northwest.

Two of the measurements that Bigfoot researchers have focused on are the length of the foot and the foot width index (this is the width of the foot divided by the length of the foot). The lengths and foot width indices for a large number of plaster casts are shown in Figure 1 below.

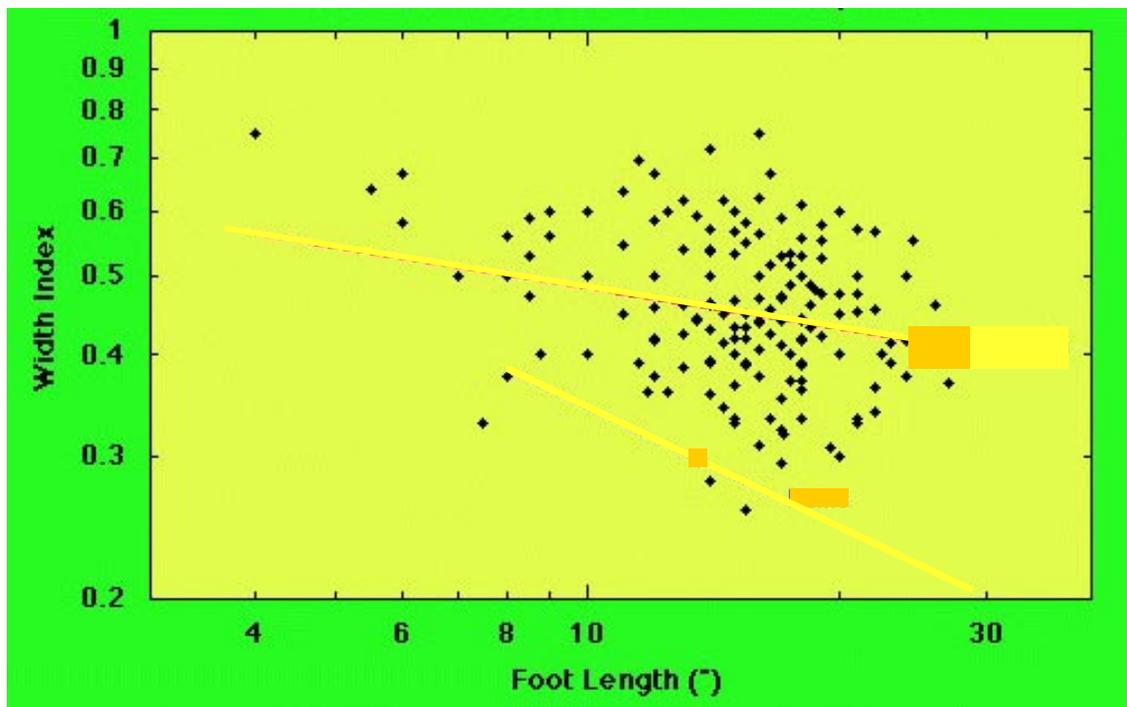


Figure 1: Foot Width Index versus Foot Length for Plaster Casts.

- *From the plot in Figure 1, what are the two quantities involved? Which appears to be the dependent variable, and which seems to be the independent variable?*
- *Predict the width index for a foot print that measured 18 inches in length.*
- *What problems did you have in predicting the width index?*