Alec McCurry

Football Stats

Project 1

Project one required us to take the different weights of the football team and interpret them as our data. We were told to compute the weights of 22 football players in intervals of 3. Ultimately, the projects goal was to conduct a 5-number summary, a box-and-whisker plot, an empirical rule graph, population mean and population standard deviation.

First, for the 5–number summary, I wrote down all of the selected weights in order from smallest to largest amount of weight. Doing this allows myself to find the median which was 195 pounds. The median now gives us the opportunity to find the first quartile (180ibs) and the third quartile (230ibs). After the quartiles I jotted down the maximum number of weight and the minimum number of weight. This came up as 155 for the minimum and 320 for the maximum weight.

Finding out the mean and the standard deviation were simple, all you had to do was plug in a format into Microsoft excel. The population mean came out as 198.27 and the population standard deviation was 44.23. This data tells us that the actual data does not deviate well because of the amount of difference in weight. The difference being 165ibs, overall the data is not much to compare to with the larger numbers it could deviate.

The empirical rule graph indicates that the data is skewed to the right. The data is skewed because this way as a result of the players weight going up along with the data. Most of the players are in the range between 225ibs and 275ibs. The players that were selected to me were more on the heavy side rather than not.

I found that the mean and standard deviation were just about the same as the average for the team’s weights. This is because the positions of my selected players were in diverse as far as offensive, defensive, lineman and non-lineman type players. My mean and average were less than 10 pounds apart causing my data to be very similar along with the graphs.

In conclusion, if you look at all of my data, including graphs you will find that my 22, diversed by position players are similar from the team average. This a goes along with my population mean and population standard deviation.