# National Parks

Biodiversity Analysis

Looking Over Data

The file contains species from the National Parks in categories based on conservation status. One thing I did notice and found interesting was the number of species in the national parks (5,541) which I found to be small. I was surprised to not see more species. What I also noticed was there were a number of species that are not classified in a conservation status. What are we doing to track those species? How can we determine if they are thriving or not? Why aren't they being tracked to see why they are thriving?

What we found!

After performing a number of calculations and analysis of the data, I was able to find that there was in fact a number of species that had no intervention at all. From the ones that had a status, there were more species of concern.
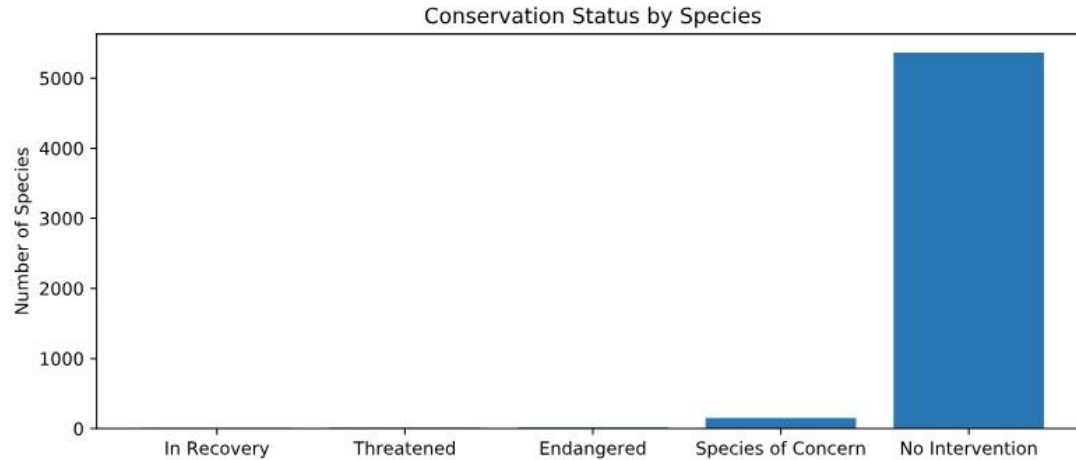
What else we found

After looking further into the data and comparing animal species who had more protected species, we found that the difference of percentages was by chance. However when we looked at a different set species, one with higher and one with lower protected species, we were able to conclude that certain species types are more likely to hit endangered status quicker than others.

Recommendations

Recommendations for conservationists:

I recommend that the species who currently have no intervention or those who have less species protected be observed more. From there you can determine what is causing them them to either thrive or survive with the current numbers they have or what steps are being put in place to protect them.

Foot and Mouth Disease Study

After looking over the data from last year for Bryce National Park we know that 15% of sheep had foot and mouth disease. In order to see if the current program is effective at Yellowstone Park, and in order to track a change of 5%, we will have to conduct a larger study of sheep. Yellowstone would need to conduct a study of at least 870 sheep. We were able to determine that it would take close to 1 week of observation to finish these observations.

Observations of Sheep per Week