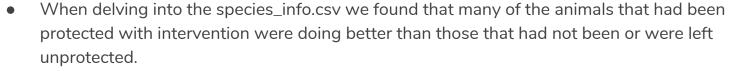
## biodiversity

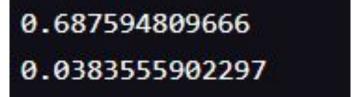
By Breanna Niekamp

## Data from Species\_Info.csv:



- Mammals more likely to be endangered than the birds, however upon comparing them there was no significant difference.
- There was a definite significant difference that was found when comparing mammals and reptiles though.

	category	not_protected	protected
0	Amphibian	72	7
1	Bird	413	75
2	Fish	115	11
3	Mammal	146	30
4	Nonvascular Plant	328	5
5	Reptile	73	5
6	Vascular Plant	4216	46



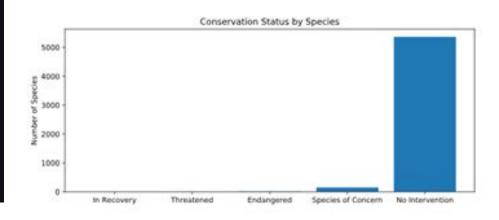
We calculated the endangerment statuses for all of the species in the csv file, and rendered this graphic:

scientific_name	conservation_status	
15	Endangered	0
4	In Recovery	1
151	Species of Concern	2
16	Threatened	3

## Recommendations for Conservationists:

I would certainly recommend focussing more efforts to getting involved, as you can see, the number of those that were endangered most were the ones who were lacking in intervention from conservationists.

	category	not_protected	protected
0	Amphibian	72	7
1	Bird	413	75
2	Fish	115	11
3	Mammal	146	30
4	Nonvascular Plant	328	5
5	Reptile	73	5
6	Vascular Plant	4216	46





With the provided baseline of 15%, of those that had the foot and mouth disease in sheep, we discovered that if the scientists wanted to be sure that a drop greater than 5% in observed cases was significant they would have to observe 870 sheep or more.

We also discovered that this would take one week of observation in order to see that many sheep in Yellowstone, and two weeks in Bryce National Park.

Graphs:

