

Biodiversity Data Analysis

Dylan Goldston





Species Info

	conservation_status	scientific_name
0	Endangered	15
1	In Recovery	4
2	No Intervention	5363
3	Species of Concern	151
4	Threatened	10

While many of the species do not require any intervention there is a large number of animals that face population number issues

A large number of the species do not fall into many of the conservation status



Species Info

is_protected	category	False	True
0	Amphibian	72	7
1	Bird	413	75
2	Fish	115	11
3	Mammal	146	30
4	Nonvascular Plant	328	5

There are a couple more things you can

The majority of endangered species are birds

Vascular plants are the second highest species facing endangerment

Birds are more likely to be endangered than mammals
But certain types of species are more likely to be endangered

Concerned conservationists should look to protect vascular plants, birds



Foot and Mouth Disease findings

Given a baseline of 15% occurrence of foot and mouth disease in sheep at Bryce National Park, you found that if the scientists wanted to be sure that a $>5\%$ drop in observed cases of foot and mouth disease in the sheep at Yellowstone was significant they would have to observe at least 870 sheep.

Then, using the observation data you analyzed earlier, you found that this would take approximately one week of observing in Yellowstone to see that many sheep, or approximately two weeks in Bryce to see that many sheep.

Graphs

