

ANALISIS OF THE NATIONAL PARK BIODIVERSITY

DESCRIPTION OF THE SPECIES

The dataframe contains:

- The scientific name of each species
- The common names of each species
- The species conservation status

ENDANGERED STATUS OF THE SPECIES

Conservation_status	Counts
Endangered	15
In recovery	4
No intervention	5363
Species of concern	151
Threatened	10

No significant difference was observed between birds and mammals (chi-square test pval = 0.69)

In contrast, the chi-square test between protected reptiles and mammals gave pval = 0.038
Suggesting that some species are more likely to be endangered

Category	Not protected	Protected
Amphibian	72	7
Bird	413	75
Fish	115	11
Mammal	146	30
Nonvascular plant	328	5
Reptile	73	5
Vascular plant	4216	46

RECOMMENDATIONS FOR CONSERVATION

- ✓ Because some species are endangered, the conservationists should set up a legal framework and requirements to recover and protect those species
- ✓ Endangered species should be kept away from their predators

SAMPLE SIZE DETERMINATION

- ❖ Baseline of 15% occurrence of foot and mouth disease in sheep at Bryce National Park
- ❖ At least 510 sheep should be observed to be sure that >5% drop in observed cases of foot and mouth disease Yellowstone is significant.
- ❖ That would take about one week and 2 weeks of observing in Yellowstone and in Bryce, respectively.