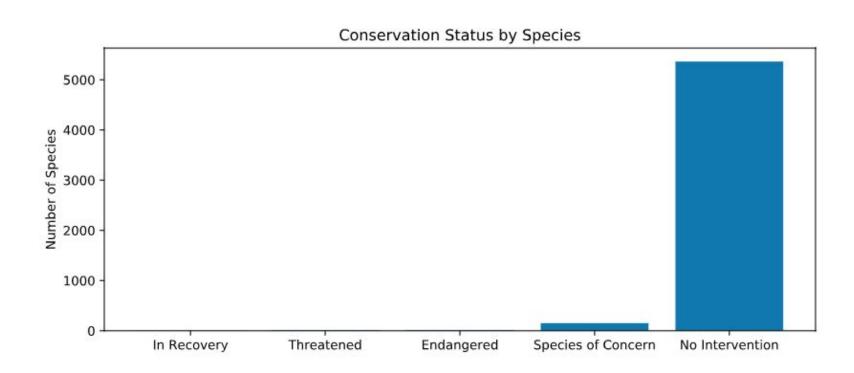




Species Data Collected

- Category (mammal, reptile, etc.)
- Scientific name of each species
- Common name of each species
- Species conservation status

Conservation Status by Species



Species of Concern

While the vast majority of species receive no intervention efforts, there are a number species with declining populations:

- 151 species are species of concern
 - Declining population or appears to be in need of conservation
- 10 species are threatened
 - Vulnerable to endangerment in the near future
- 15 species are endangered
 - Seriously at risk of extinction
- 4 species are in recovery
 - Formerly endangered but currently not in danger of extinction

Species Protection Status by Category

Category	Not Protected	Protected
Amphibian	72	7
Bird	413	75
Fish	115	11
Mammal	146	30
Plant (nonvascular)	328	5
Plant (vascular)	4216	46
Reptile	74	5

Conclusions

- Based on Chi Square tests, reptile species are significantly more likely to be endangered than mammal species
 - Recommend increasing protections for reptile species



Calculating Sample Size

Calculating required sample size requires:

- Baseline conversion rate (15%)
 - o 15% of sheep at Bryce National Park have foot and mouth disease
- Desired statistical significance percentage (90%)
- Minimum detectable effect (15%)

Recommended sample size: 870