

INTRODUCTION

Collated Data

5541 Unique species
Grouped into 7 categories

Mammal

Bird

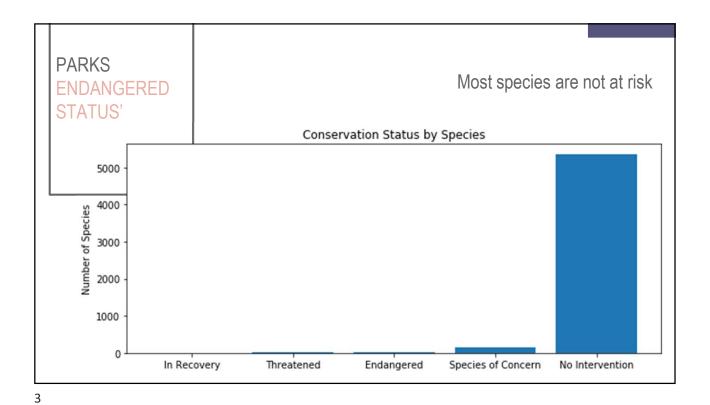
Reptile

Amphibian

Fish

Vascular Plant

Nonvascular Plant



PARKS
ENDANGERED
STATUS'
NUMBERS

CONSERVATION STATUS

In Recovery

4

Threatened

10

Endangered

15

Species of Concern

151

PARKS ENDANGERED STATUS' **NUMBERS**

CATEGORY	PERCENT PROTECTED
Amphibian	8.86%
Bird	15.37%
Fish	8.73%
Mammal	17.05%
Nonvascular Plant	1.50%
Reptile	6.41%
Vascular Plant	1.08%

5

Chi-Square Test

Used for categorical data

Two hypotheses are:

Ho → Mammals are not more endangered compared to Birds H1 → Mammals are more endangered compared to Birds

Significate level of 5% - if p-value is less than 5%, results are not random.

> Where p-value < 0.05, reject Ho Where p-value >= 0.05, reject H1

IS ONE SPECIES
AT RISK MORE
THAN ANOTHER?

No significant
difference
between
Mammal and
Birds
p-value of 0.69

Significant
difference
between
Mammal and
Reptile
p-value of 0.04

SAMPLE SIZE REQUIRED TO DETECT REDUCTIONS -SHEEP POPULATION -870 SHEEP OBSERVATIONS **FOOT AND** 4 weeks for Bryce National Park 6 weeks for Great Smoky Mountains MOUTH DISEASE 2 weeks for Yellowstone 3 weeks for Yosemite Observations of Sheep per Week 500 400 Number of Observations 300 200 100 Bryce National Park Great Smoky Mountains National Park Yellowstone National Park Yosemite National Park

8

