



Conservation of Species in our National Parks

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Introduction

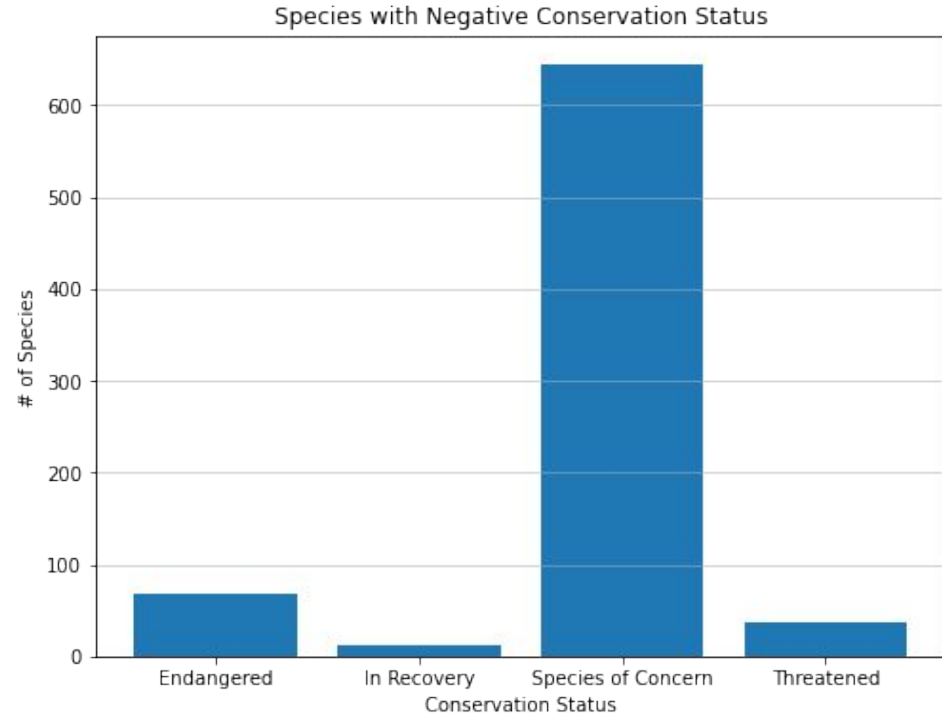
- Researchers made 23,281 unique observations during this study.
- Approximately 3% of those species observations were of species populations that are stressed.
- Questions asked in this study:
 - What is the most prevalent conservation status among stressed species populations?
 - What category of species has the most stressed species?
 - What category of species with stressed populations were observed the least often?

THE DATA SET

- Data Set 1 (23297 entries)
 - Researchers at various national parks recorded their observations of different species.
 - Information included:
 - Scientific Name
 - Park Name
 - Number of Observations of that species
- Data Set 2 (5825 entries)
 - Known data of species that may be encountered in National Parks
 - Information included:
 - Species Category (i.e. mammal, fish, vascular plant, etc.)
 - Scientific Name
 - Common Name
 - Conservation Status (Endangered, Species of Concern, In Recovery, or Threatened)

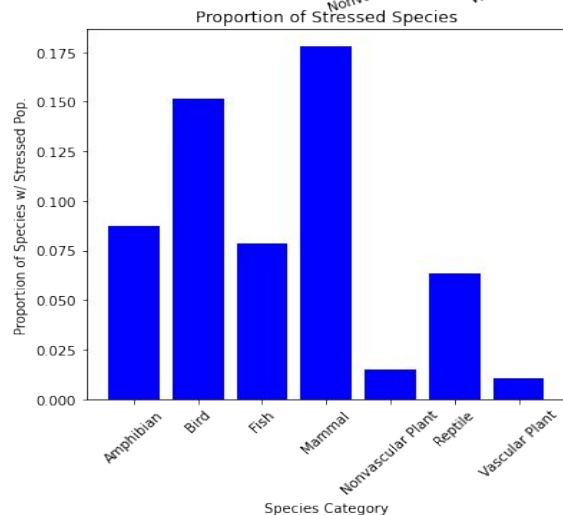
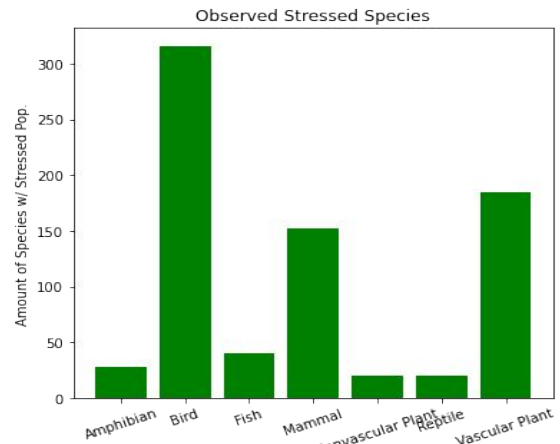
What is the most prevalent conservation status among stressed species populations?

- During the analysis we found that “Species of Concern” was the most prevalent conservation status among stressed species populations.
- This is a concerning revelation because it shows that relatively recently a lot of species populations have become stressed.
- Another interesting observation is that the smallest status is “In Recovery”.
 - Tells us that the amount of species being stressed may continue to increase rapidly.



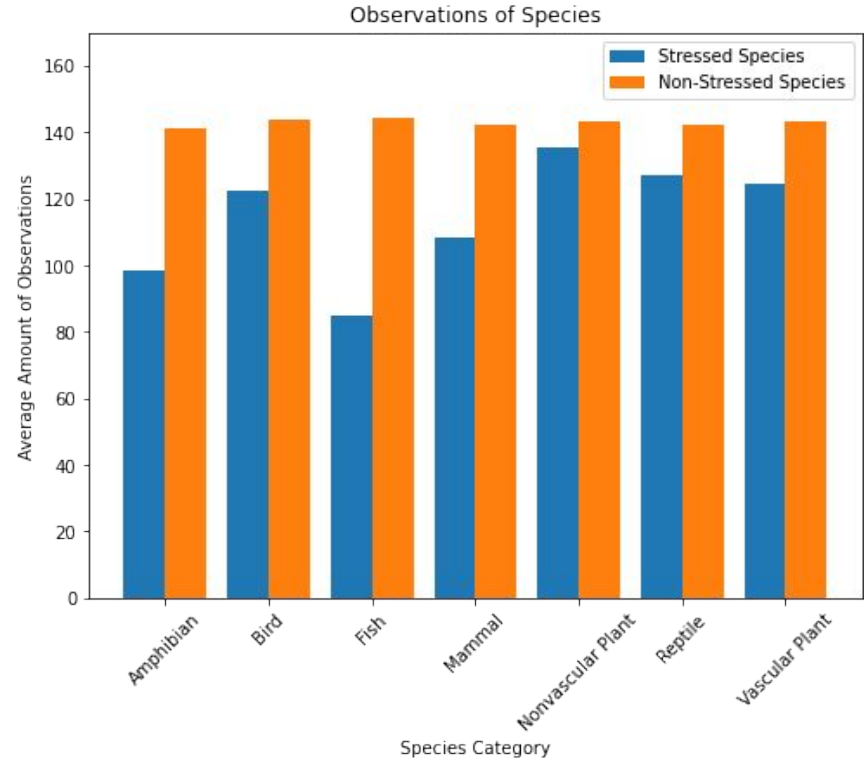
What category of species has the most stressed species?

- Birds have the most stressed species but are second when taken as a proportion of the total amount of bird species observed.
- Mammals have the highest proportion of stressed species (approx. 18%).



What category of species with stressed populations were observed the least often?

- On average, stressed species of fish were observed least often.
- Across all species categories for non-stressed species, the amount of observations was around 142.
 - This suggests that whether or not a species was stressed had a noticeable effect on average observations for the species category.



Conclusion

- “Species of Concern” is by far the most common type of conservation status among stressed species suggesting that more species populations have started to come under stress.
- As expected, whether or not a species was stressed had an impact on how many times they were observed in National Parks.
- Of the all species populations observed in National Parks, mammals have the highest proportion of species that are stressed (approx. 18%).