

"Bird Species Observation – Executive Summary"

378

Endangered_Species

108

Forest_Species

107

Grassland_Species

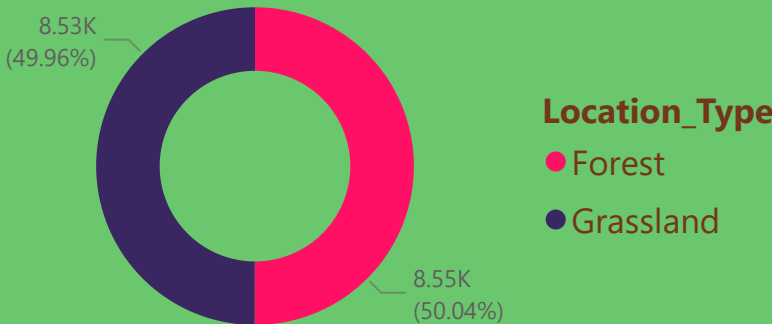
127

TotalUniqueSpecies

17K

TotalObservationCount

Habitat Distribution



Date

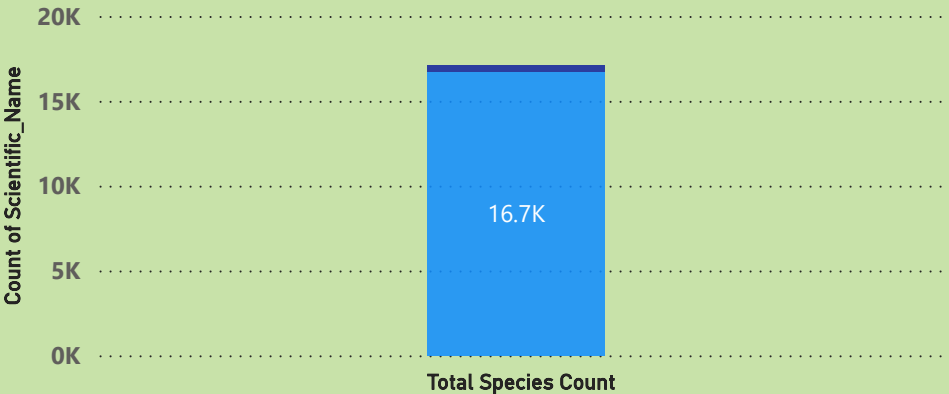
- ☐ 07-05-2018 00:00:00
- ☐ 08-05-2018 00:00:00
- ☐ 09-05-2018 00:00:00
- ☐ 10-05-2018 00:00:00
- ☐ 11-05-2018 00:00:00

PIF_Watchlist_Status, ...

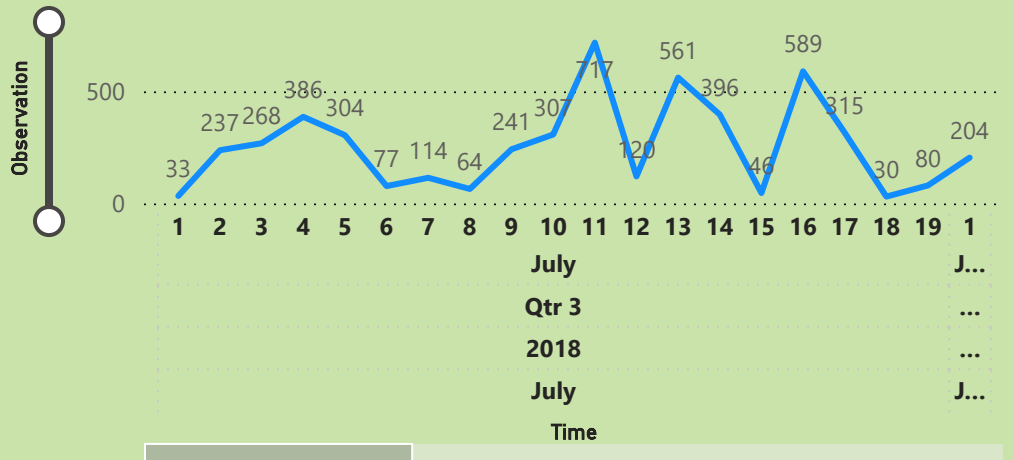
- ☐ False
- ☐ True

Endangered vs. Non-Endangered Species Count

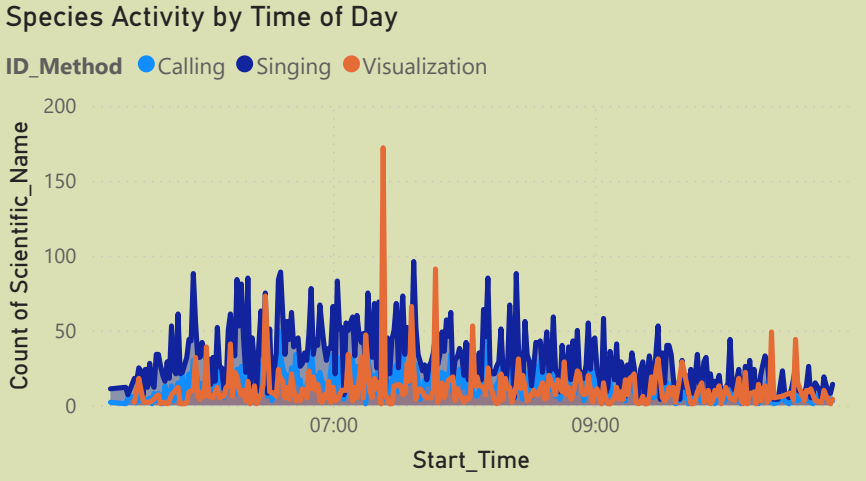
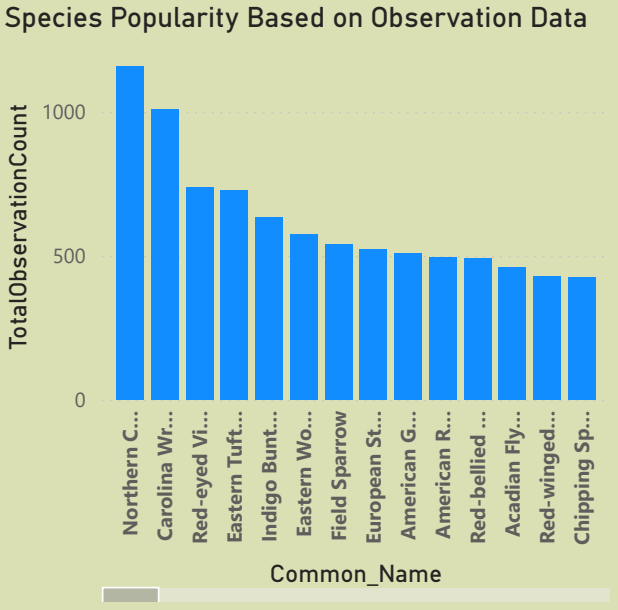
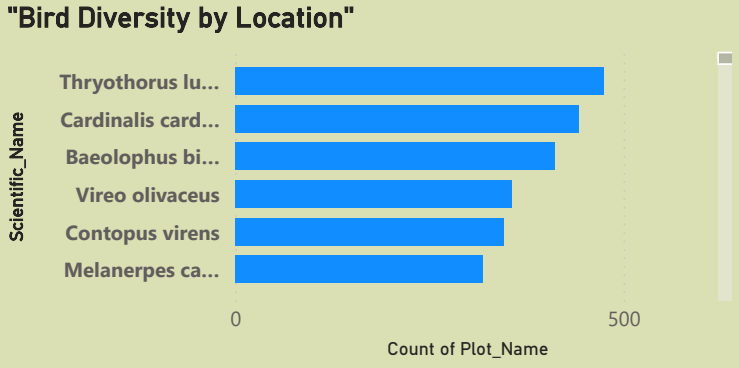
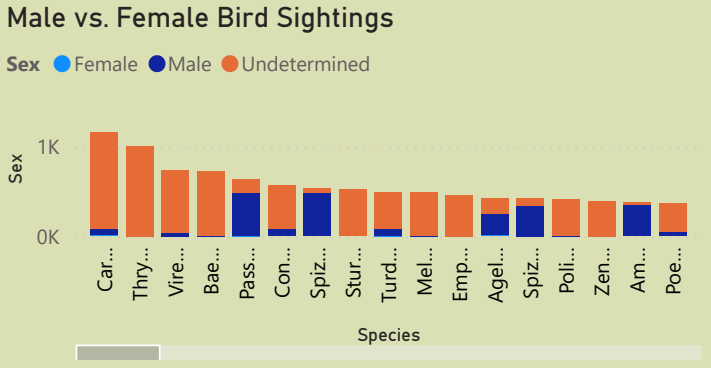
PIF_Watchlist_Status ● False ● True



Bird Sighting Patterns

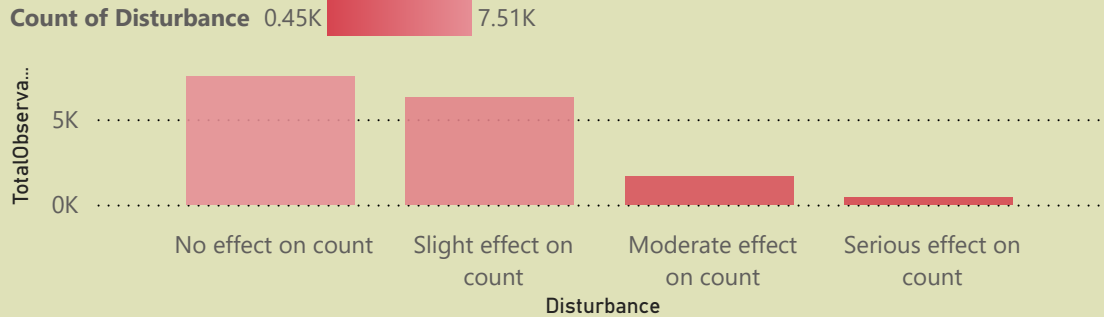


Species Diversity & Habitat Preferences

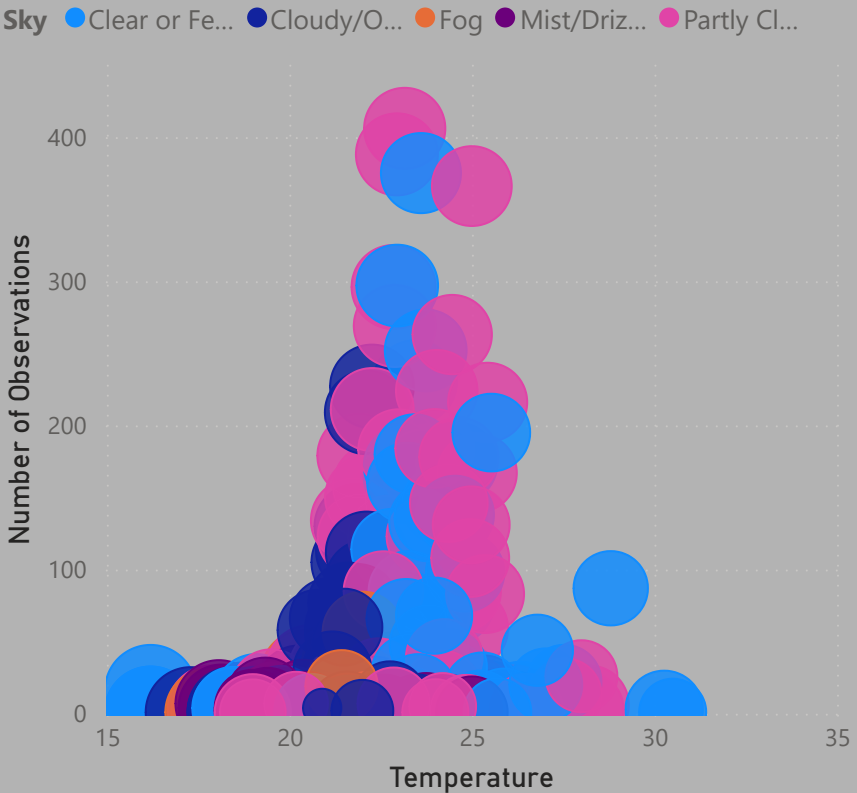


"Assessing Human & Climate Impact on Bird Species"

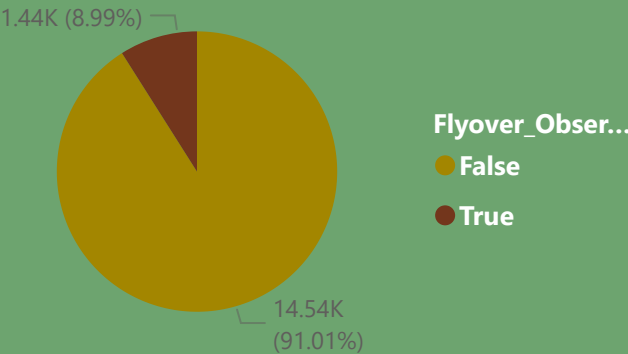
"Effect of Environmental Disturbance on Bird Population"



Temperature VARIation on Bird Observation



"Are More Birds Spotted in Flyovers?"



Temperature

16.1237.30

Humidity

7.3098.80

Wind

☐ Calm (< 1 mph) smoke rises vertically

☐ Gentle breeze (8-12 mph), leaves in..

☐ Light air movement (1-3 mph) smo...

☐ Light breeze (4-7 mph) wind felt on

Sky

☐ Clear or Few Clouds

☐ Cloudy/Overcast

☐ Fog

☐ Mist/Drizzle

☐ Partly Cloudy

Disturbance

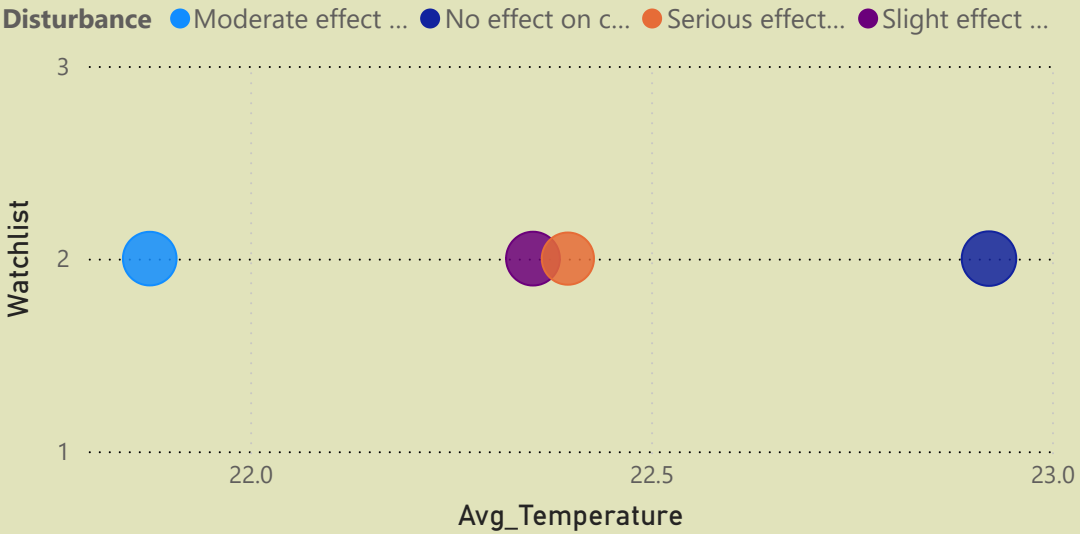
☐ Moderate effect on count

☐ No effect on count

☐ Serious effect on count

☐ Slight effect on count

"Environmental Conditions and Conservation Risk by Disturbance Level"



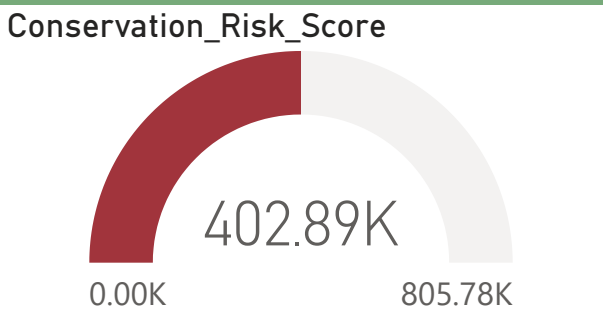
11.00

Min Temperature

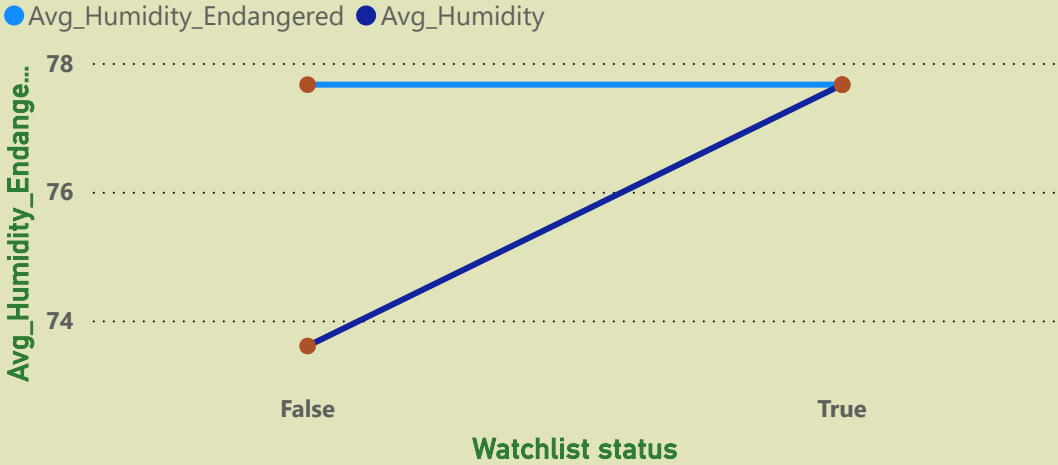
37.30

Max Temperature

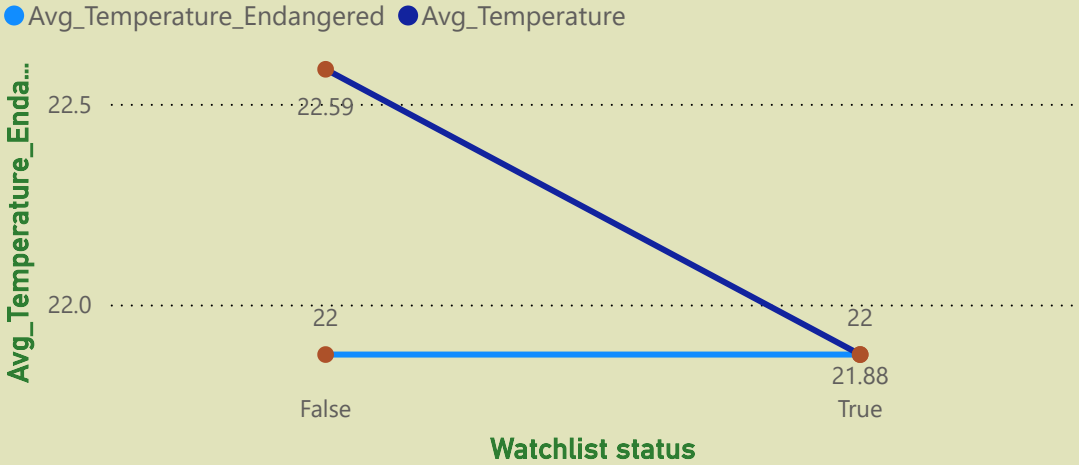
"Environmental Threats & Endangered Species Analysis"



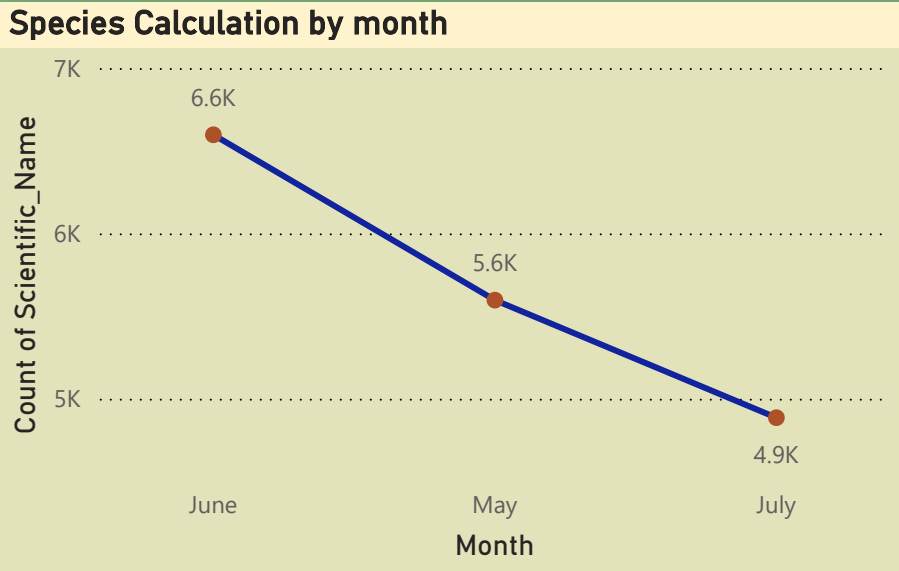
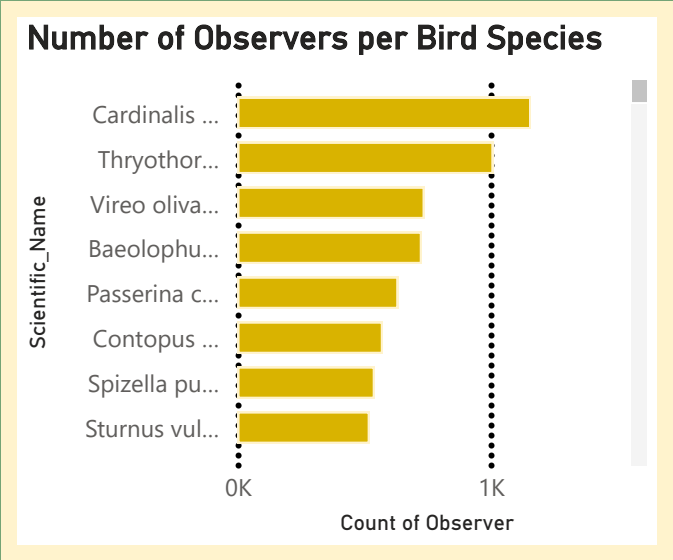
"Average Humidity Variations for Endangered and Non-Endangered Birds"



"Average Temperature Variations for Endangered and Non-Endangered Birds"

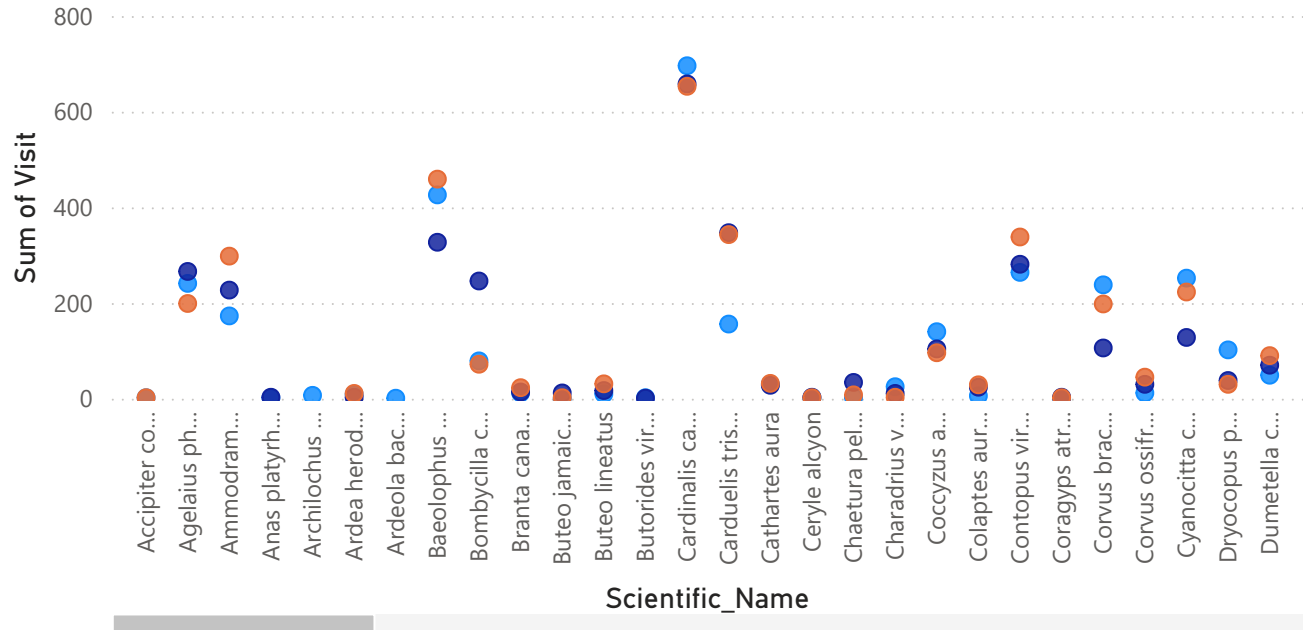


"Tracking Bird Sightings: Observer Influence & Time-Based Trends"

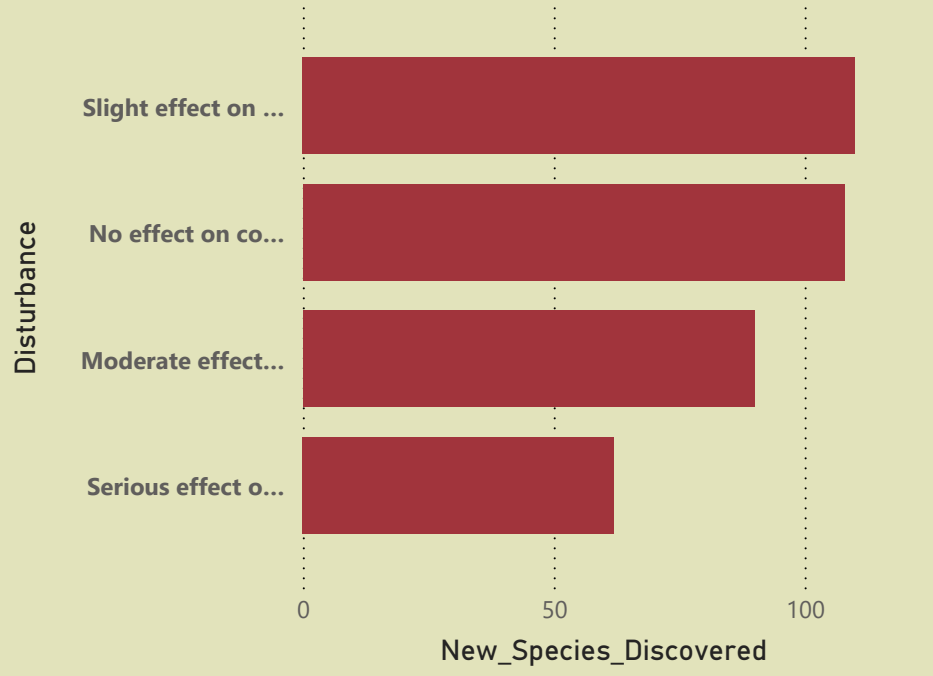


Most Frequently Monitored Bird Species by Observers

Observer ● Brian Swimelar ● Elizabeth Oswald ● Kimberly Serno



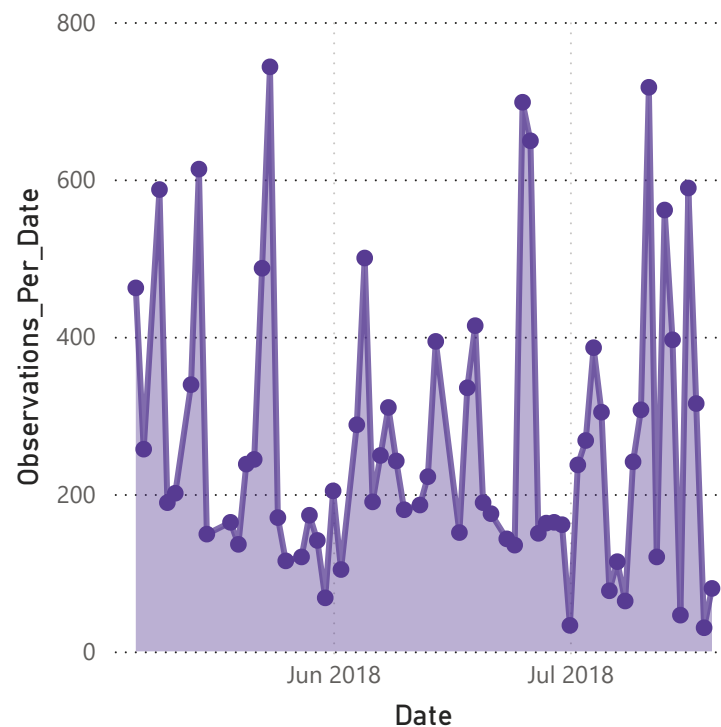
New_Species_Discovered by Disturbance



"Predicting Bird Sightings & Conservation Needs"

Month	July		June		May		Total	
Location_Type	First Scientific_Name	TotalUniqueSpecies	First Scientific_Name	TotalUniqueSpecies	First Scientific_Name	TotalUniqueSpecies	First Scientific_Name	TotalUniqueSpecies
Forest	Agelaius phoeniceus	65	Agelaius phoeniceus	86	Agelaius phoeniceus	94	Agelaius phoeniceus	108
Grassland	Agelaius phoeniceus	74	Accipiter cooperii	81	Agelaius phoeniceus	96	Accipiter cooperii	107
Total	Agelaius phoeniceus	89	Accipiter cooperii	100	Agelaius phoeniceus	114	Accipiter cooperii	127

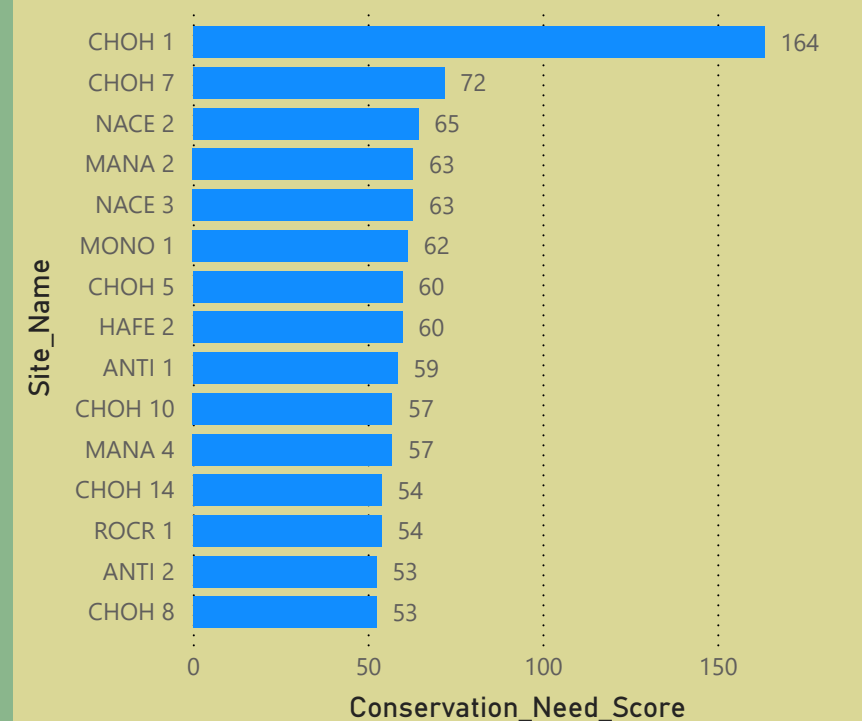
"Observations Over Time: Trend Analysis"



18.78K

Predicted_Sightings

"Conservation Need Score by Site Name"



"Turning Data into Action: The Future of Bird Conservation & Business"

"Biodiversity isn't just a responsibility—it's an opportunity.
The real question is: Are we ready to turn data into action?"

🌍 **For Governments:** *"Implement Smart Conservation Policies".* Integrating conservation data into urban planning ensures eco-friendly cities that support biodiversity.

• A proactive approach today secures a thriving ecosystem for future generations.

💰 **For Businesses:** Sustainability is a profitable investment, not just an ethical choice.

Green business strategies drive revenue growth and build brand loyalty among eco-conscious consumers.

• 📊 **For Researchers:** *"Leverage AI & Data for Predictive Insights."*

"Monitoring Bias: Do Habitats Influence Observation Methods?"

