FAA Wildlife Strikes Insights Using Tableau

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Project Flow Structure:

01. Connected to the data
02. Identified data types
03. Created visualizations
04. Derived insights
05. Built a dashboard to answer specific questions.
06. Revised the dashboard based on the insights gained.

Questions

1. To identify seasonal patterns and trends in strike frequency over time

2. To identify geographic hotspots of strikes

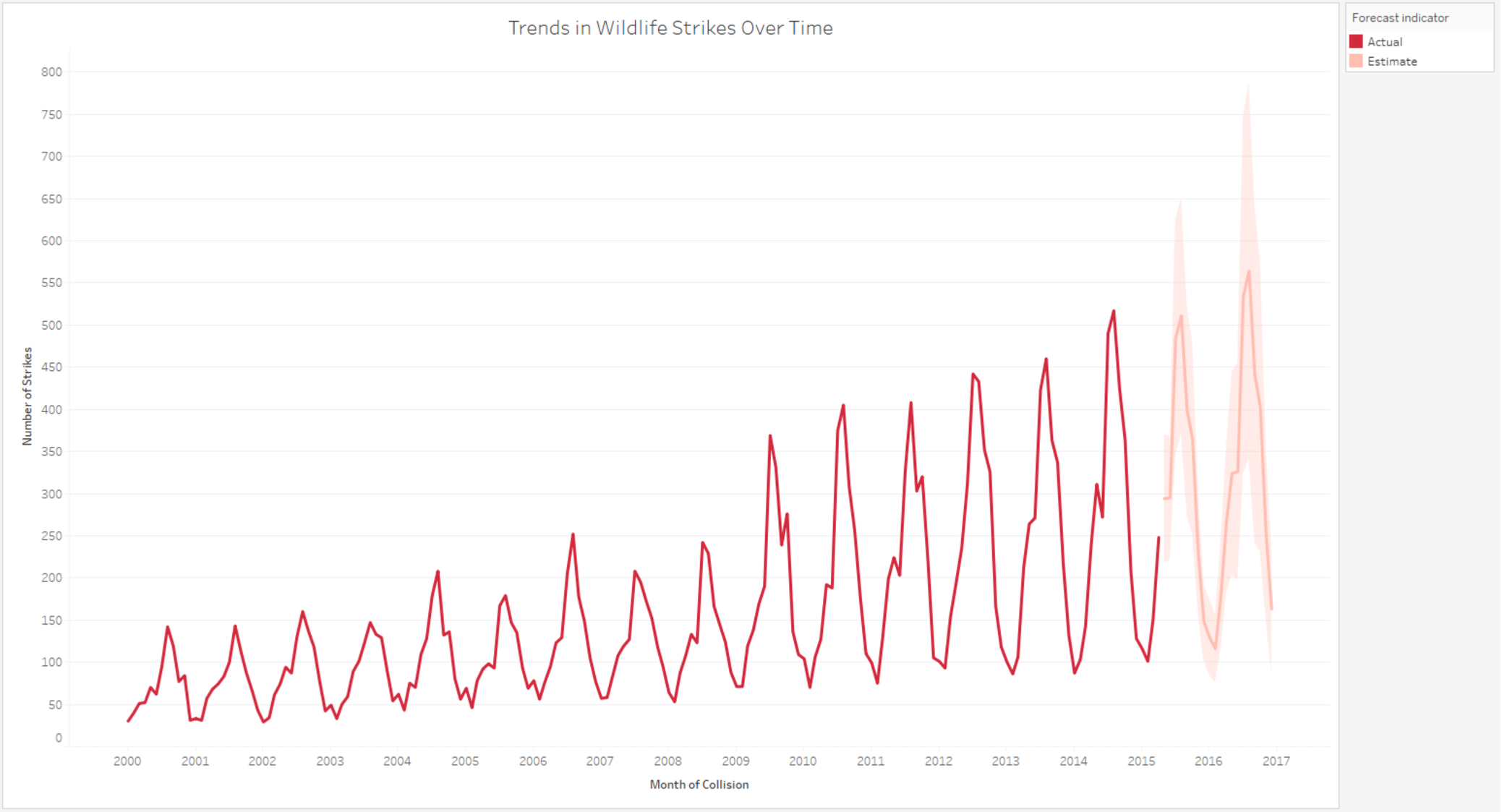
3. To understand when strikes are more likely to occur.

4. To explore the relationship between different wildlife categories, strike occurrences, and total costs

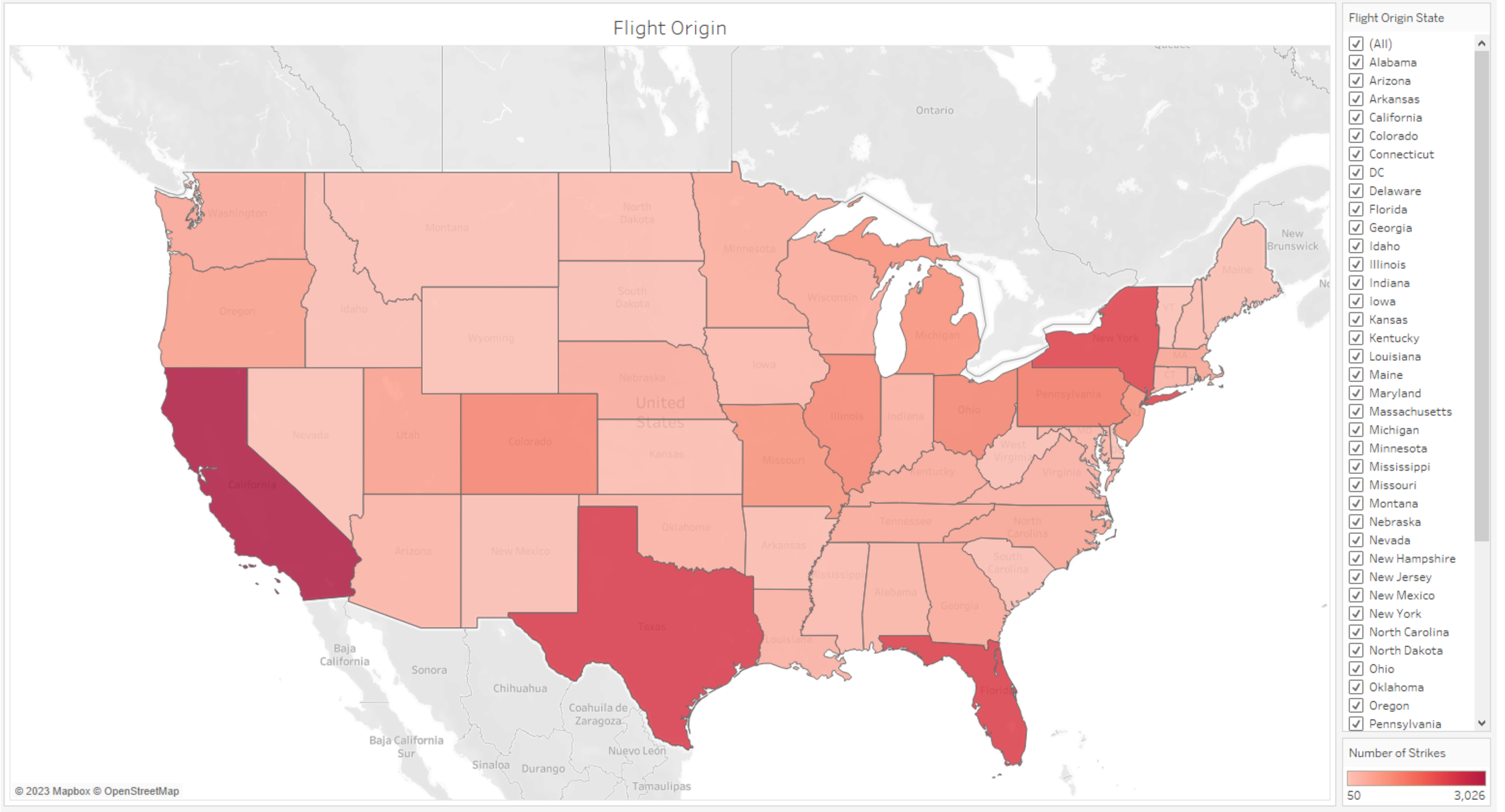
5. To understand the effects of strikes over time.

Results

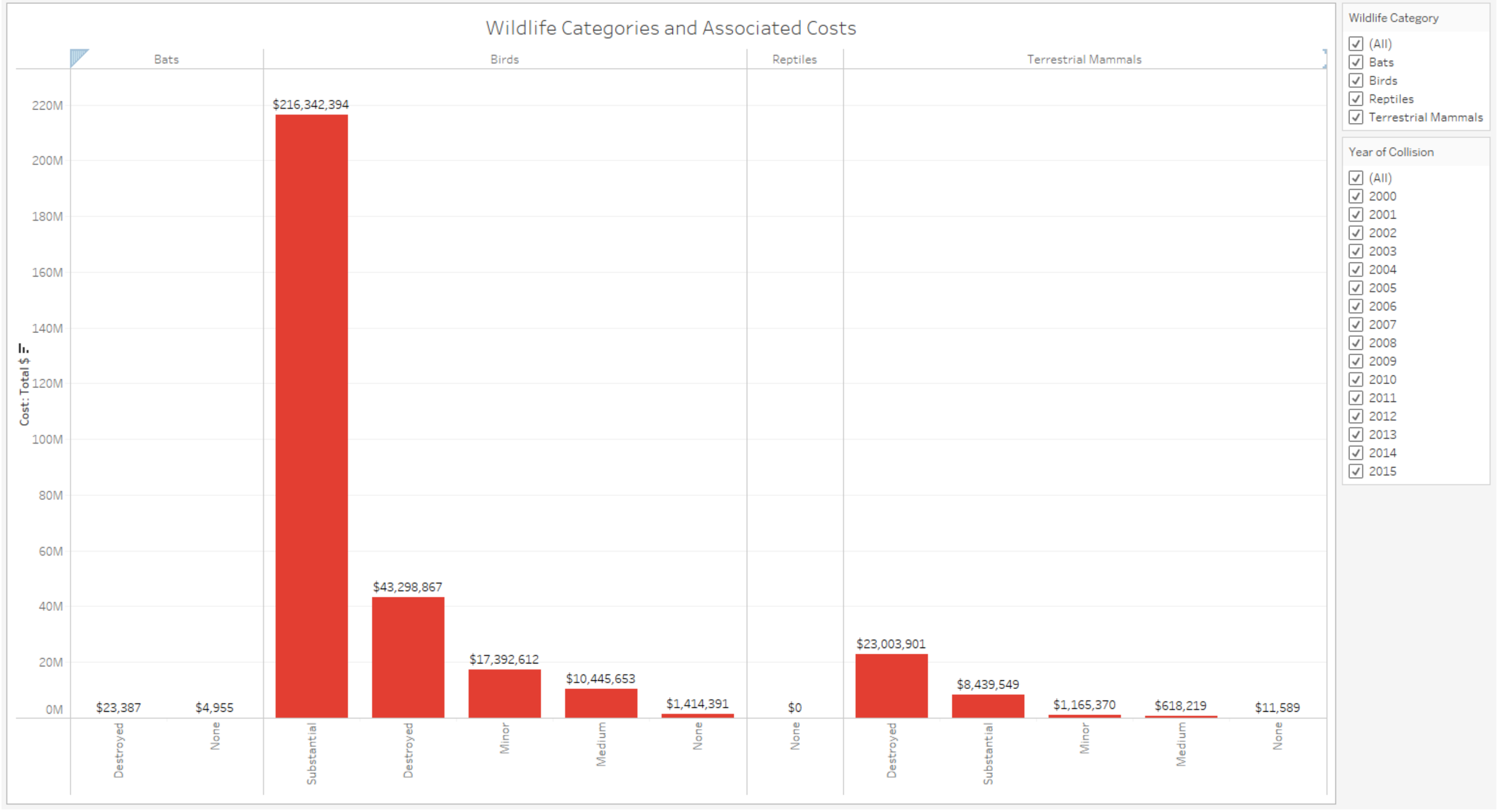
1. To visualize trends in strike frequency over time.



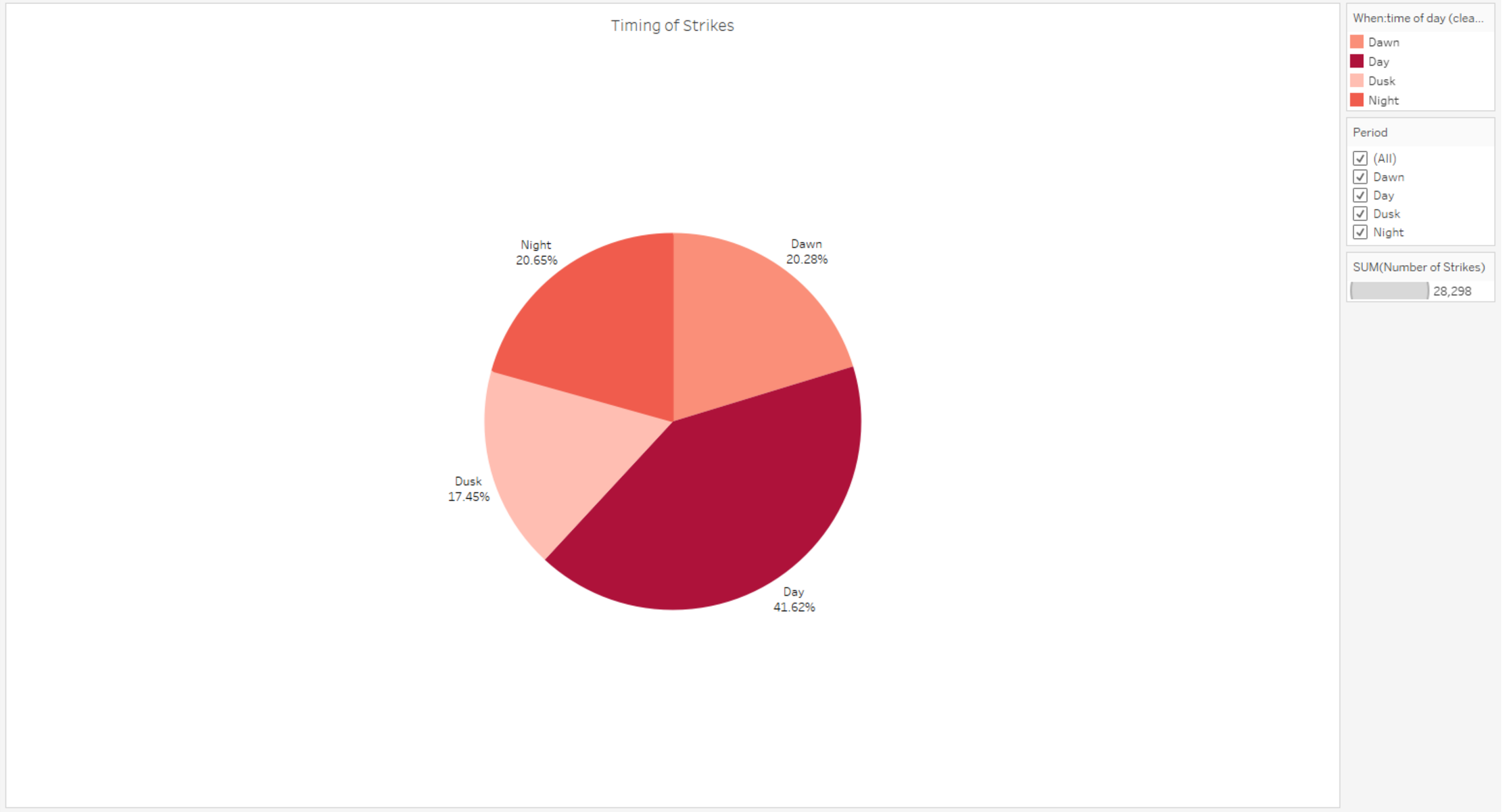
2. To display the spatial distribution of wildlife strikes.



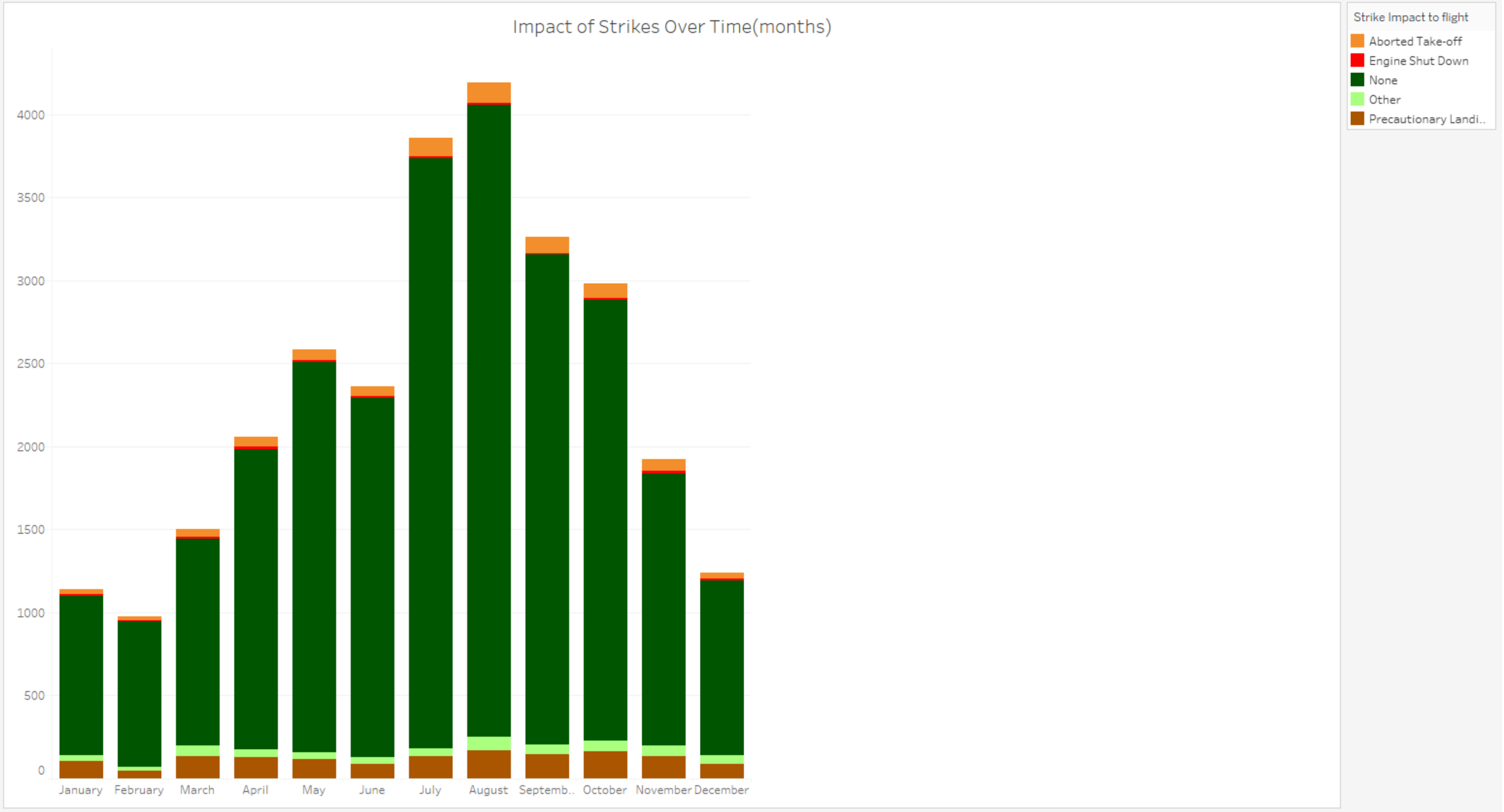
3. To explore the relationship between different wildlife categories, strike occurrences, and associated costs.



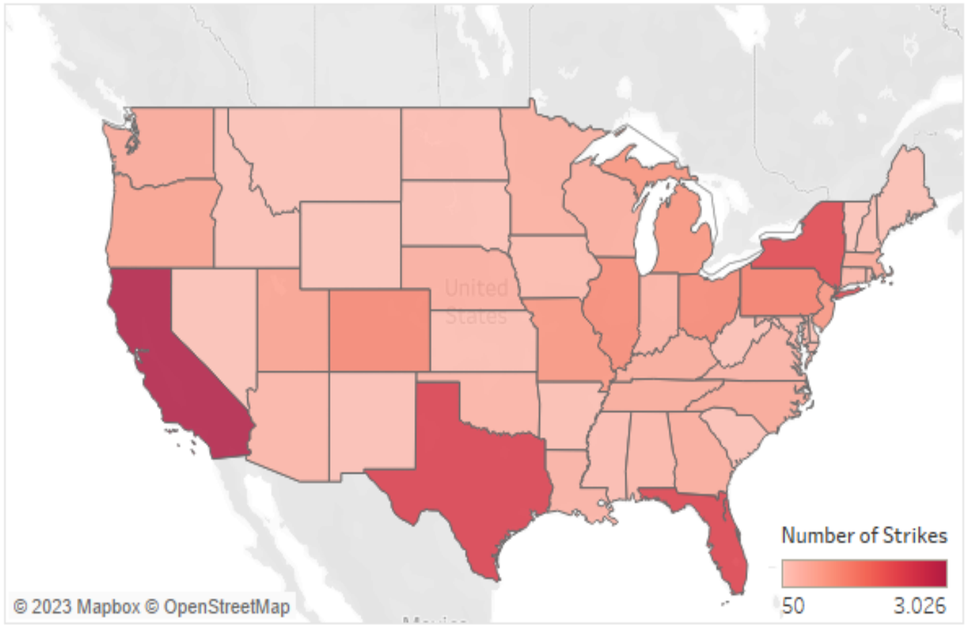
4. To provide a clear overview of strike times during the day.

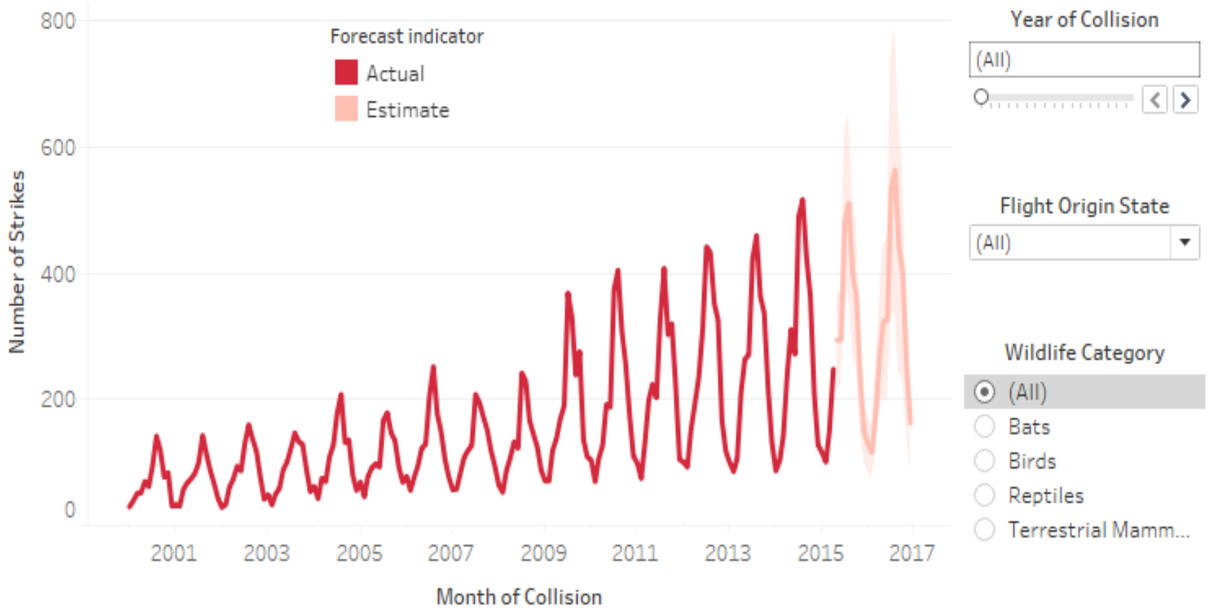


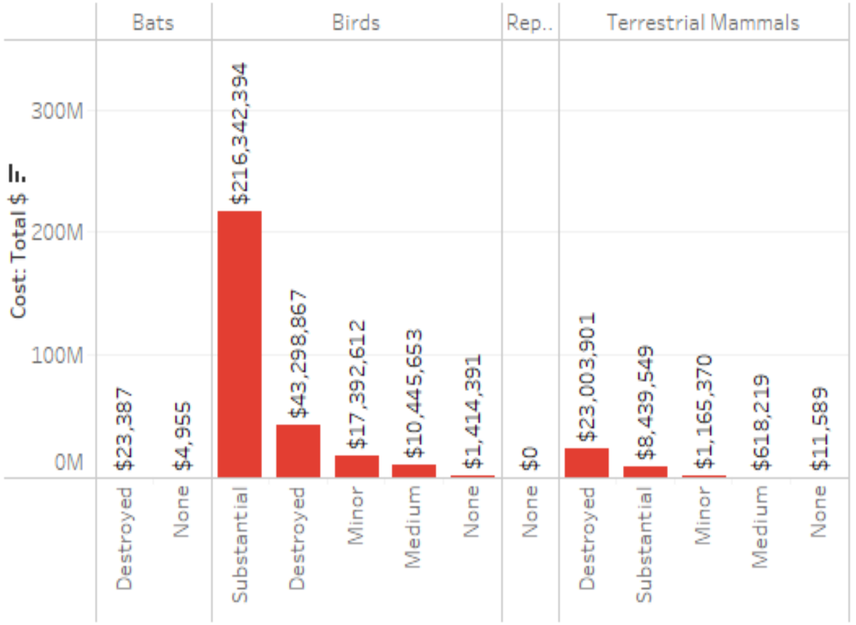
5. To analyze the impact categories of strikes over discrete months.

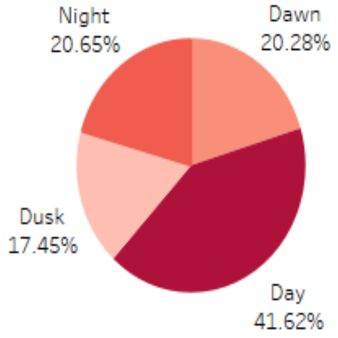


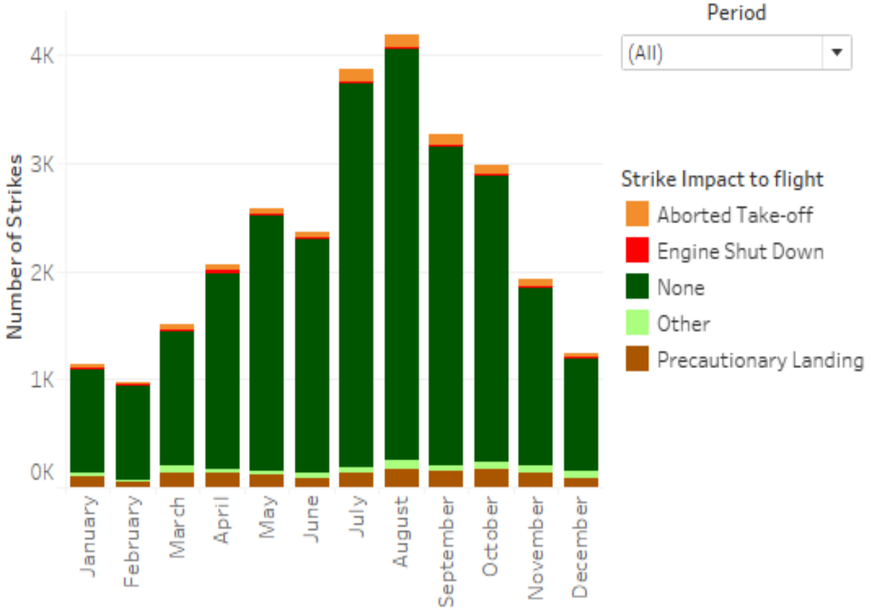
FAA Wildlife Strikes Insights Dashboard.











> ***The biggest challenge*** *was transforming the dataset to effectively communicate insights. Also, ensuring user-friendliness and interactivity in the dashboard was challenging*

If More Time

1

Refine and expand the analysis.

2

Explore machine learning models for predictive analytics,

3

Perform in-depth cost-benefit analysis

4

investigate the impact of mitigation measures.

Thanks!