



FAA Wildlife Strikes, 2015

BY Mina Botros

Goals



- *Examine the FAA Wildlife Strikes dataset from 2015 to assess its financial implications.*
 - *Generate informative visualizations using Tableau, highlighting crucial data points.*
 - *Identify any recurring patterns and trends associated with wildlife strikes.*
 - *Develop an interactive dashboard to address inquiries concerning the dataset.*
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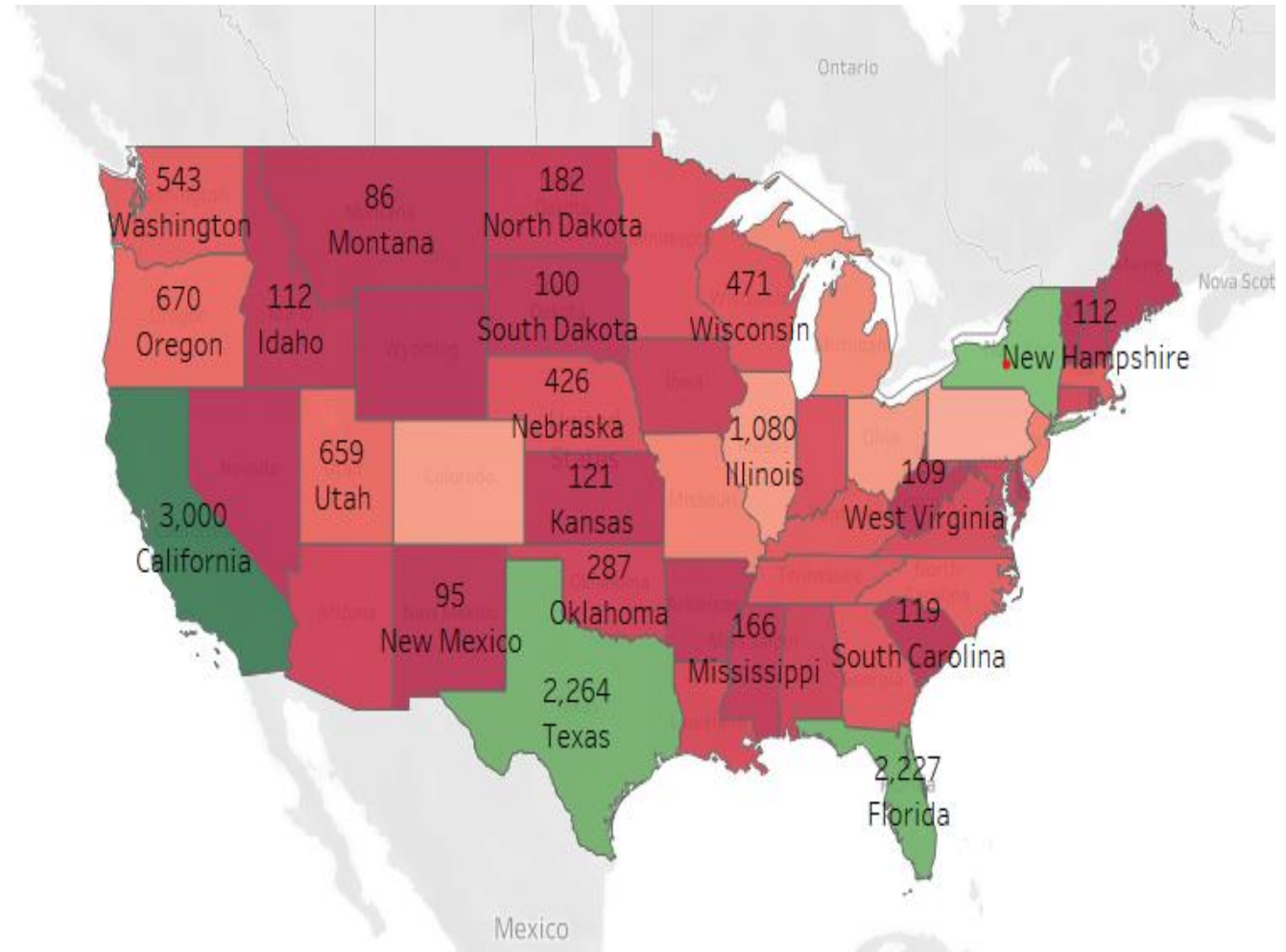
Which are the states with higher incidences?

California 3.000

- Texas 2.264

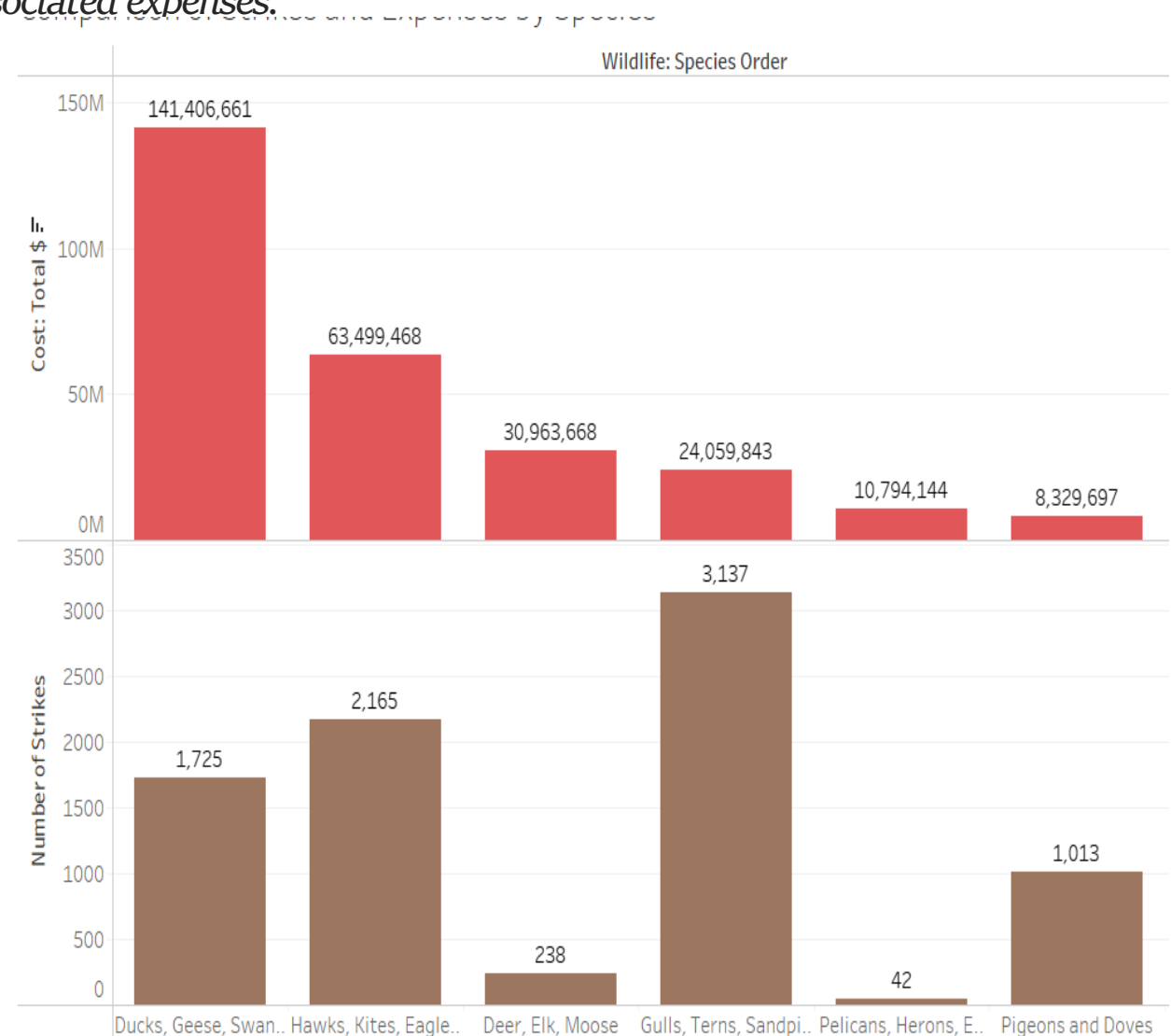
- Florida 2.227

- New York 2.080



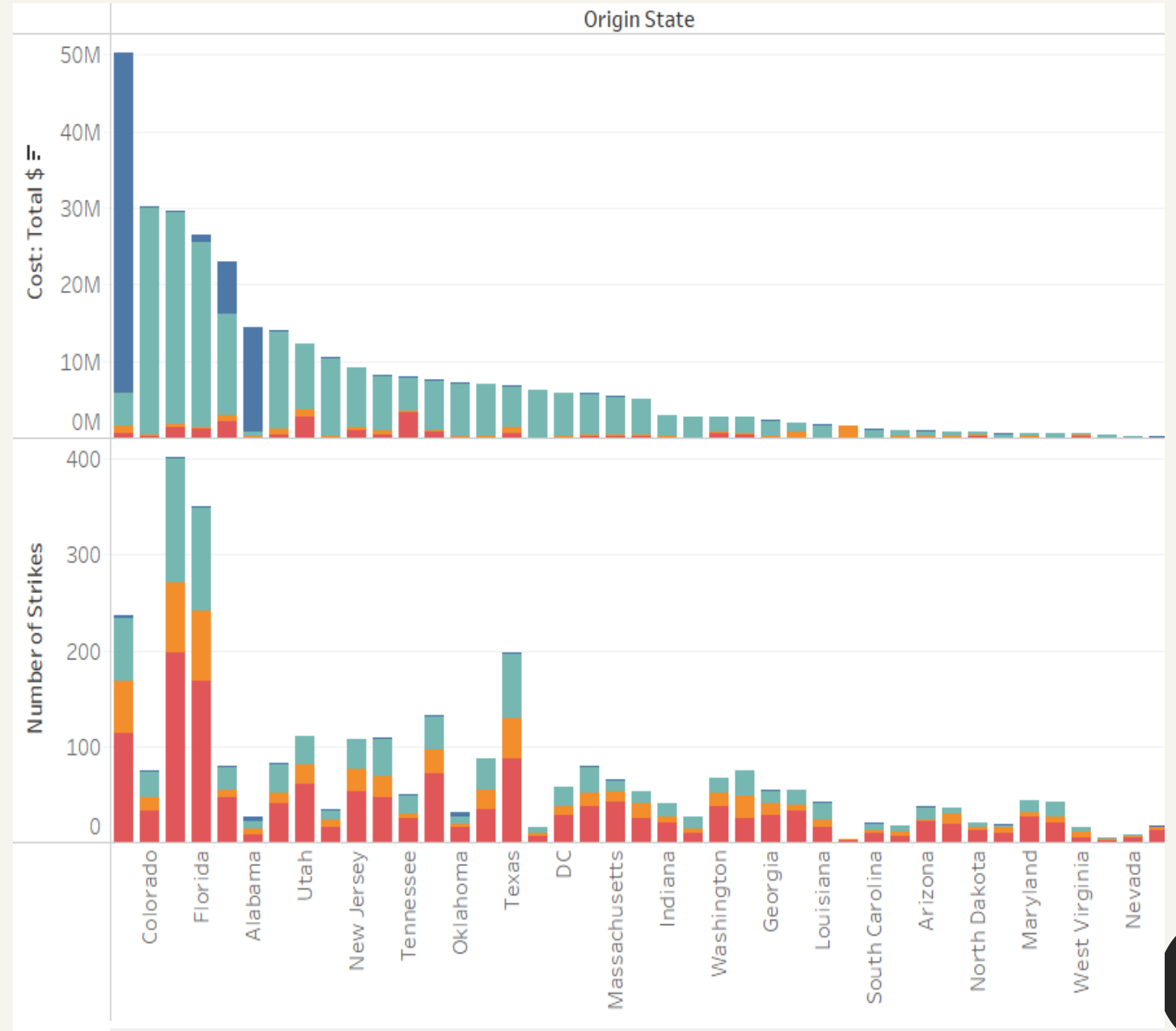
The animal species with the highest impact and associated expenses.

- *The highest costs are associated with incidents involving the Geese, Ducks, and Swans species group.*
- *The Gulls, Terns, and Sandpipers species family experiences the highest number of strikes, yet they rank fourth in terms of associated costs.*



What are the expenses associated with these strikes in each state?

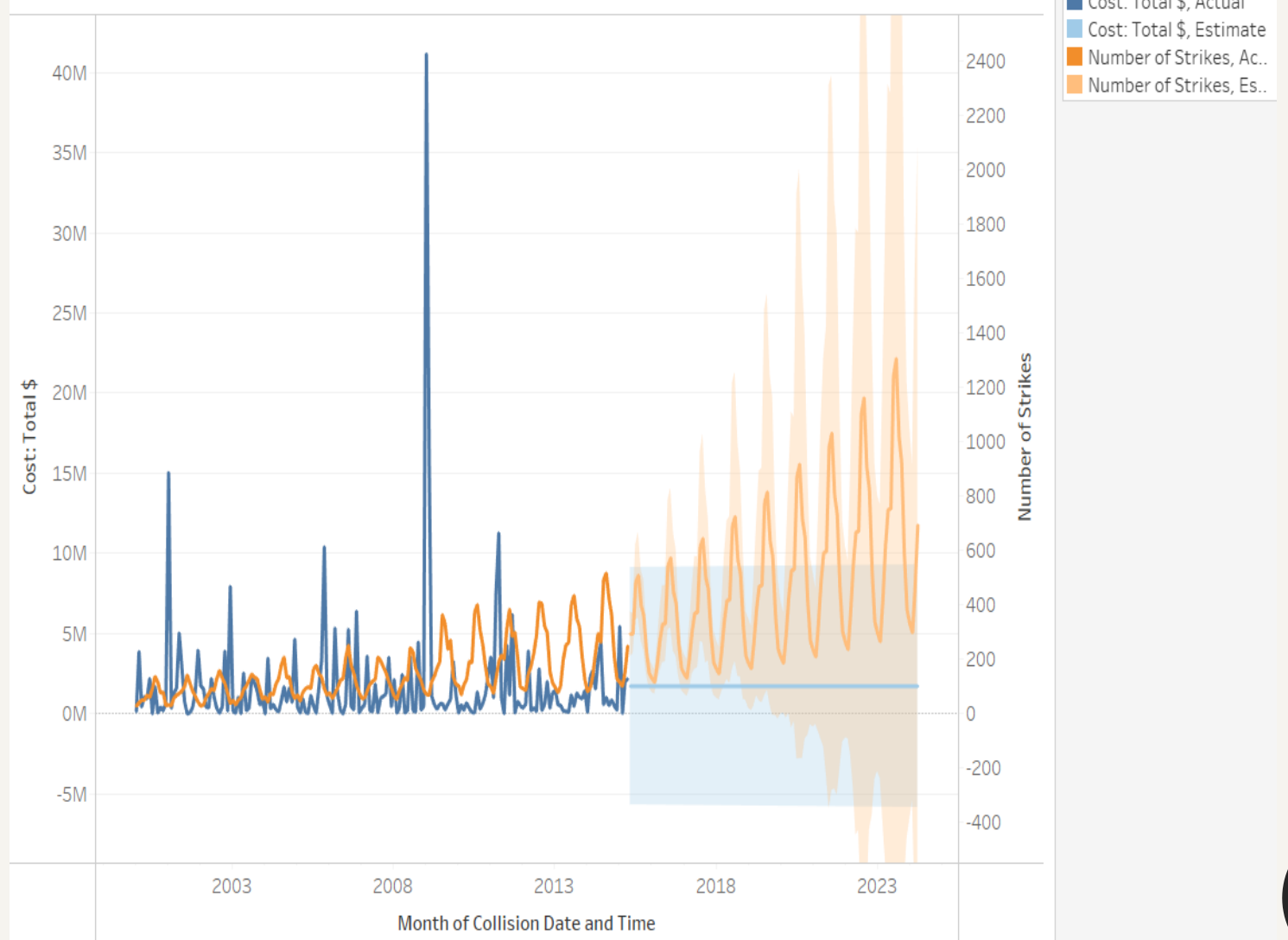
- California has the highest number of incidents, but it ranks third in terms of cost. This discrepancy arises because most cases with substantial costs involve specific types of damage.
- In contrast, New York incurs the highest expenses, primarily due to incidents resulting in aircraft destruction.



What are the expenses associated with collisions over time and in future predictions?

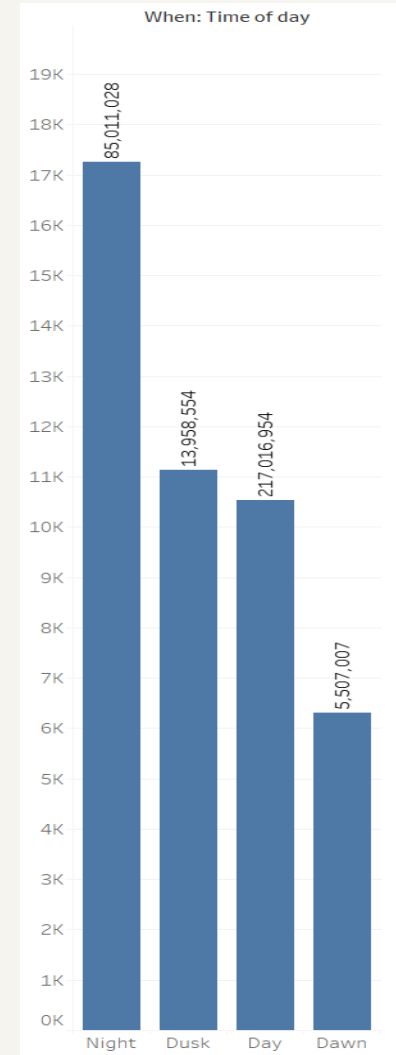
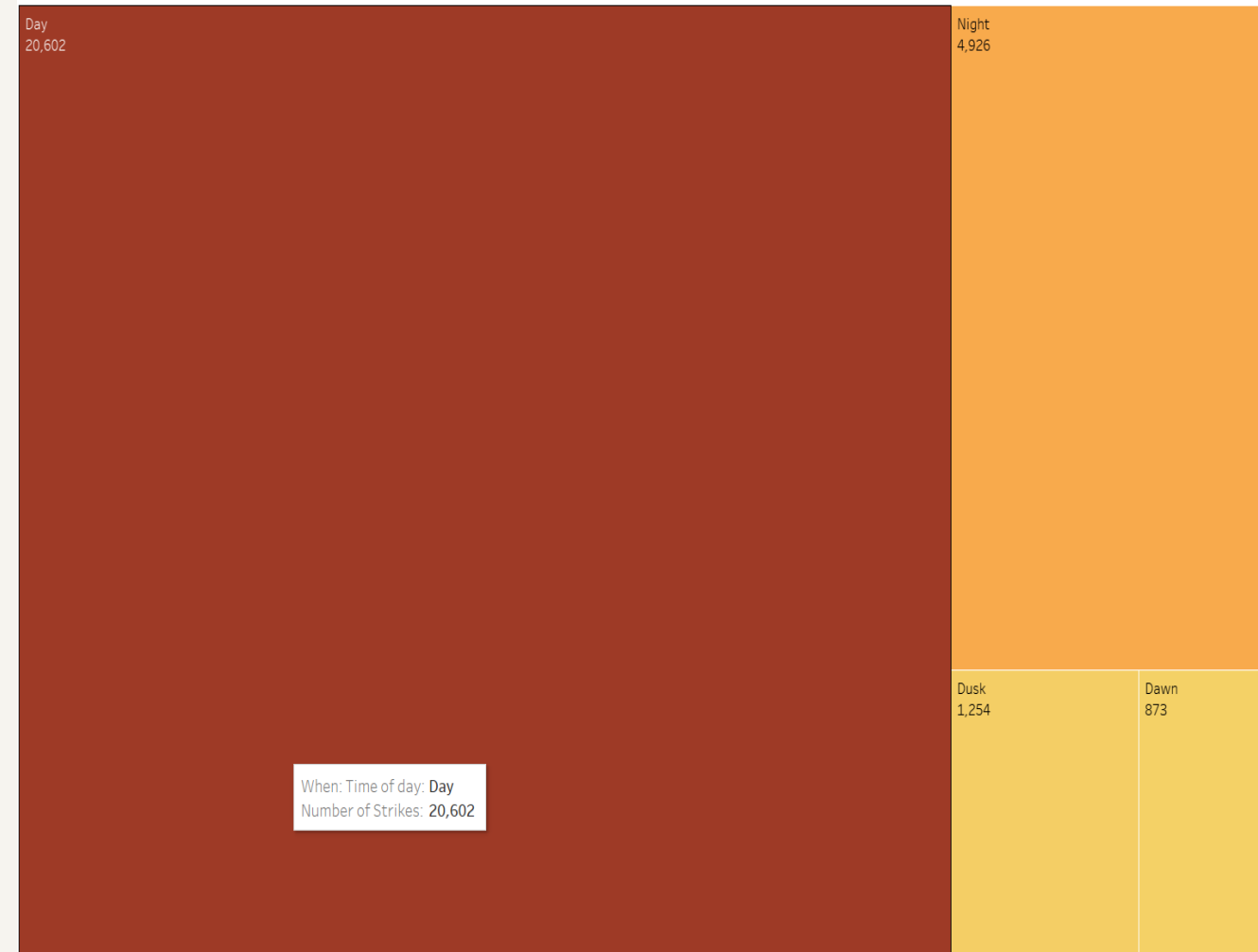
- There was an extraordinary value in 2001, with more than 15 m. and 2009 with value more than 41 m .
- Most incidents occur around summer in August .
- The projection for the next 9 years is like the actual values.

Collisions vs Cost by Date (with Forecast)



Incident frequency varies at different times of the day.

Frequency of Strikes by Time of Day



- Most incidents happened during the day.
- The most expensive on average occurred during the nighttime.

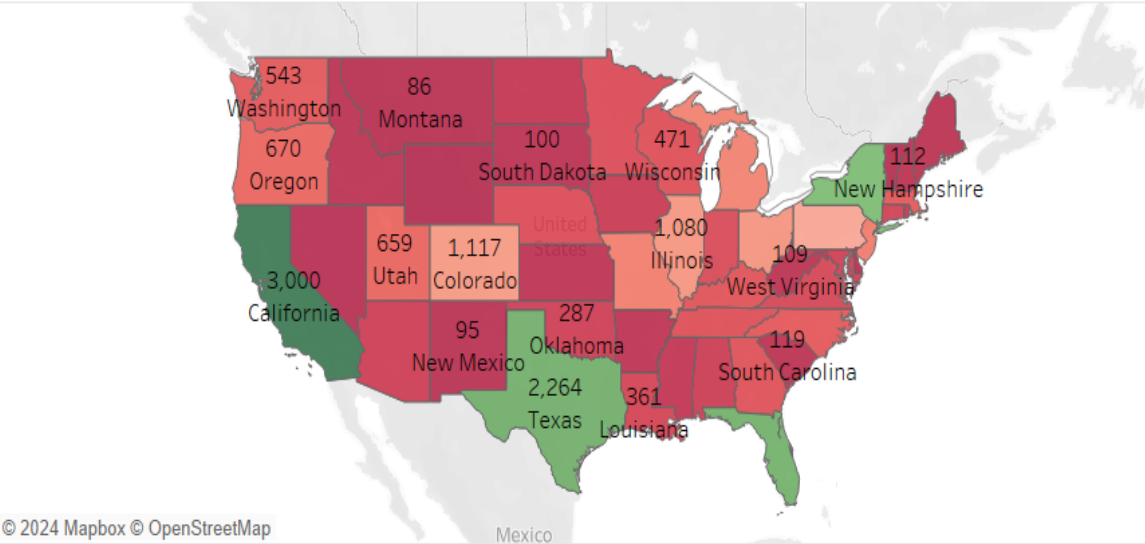
What the Strikes Effect on Flights

Effect: Impact to flight ✈

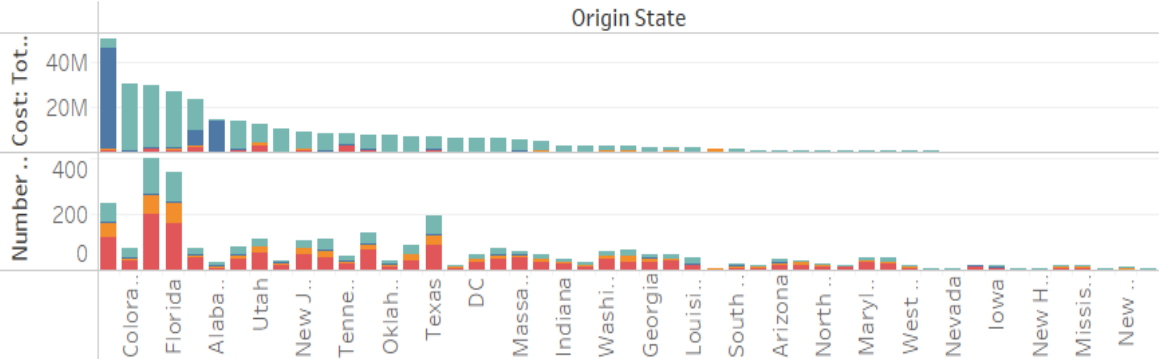
None	25,051
Precautionary Landing	1,457
Aborted Take-off	800
Other	628
Engine Shut Down	148

Dashboard

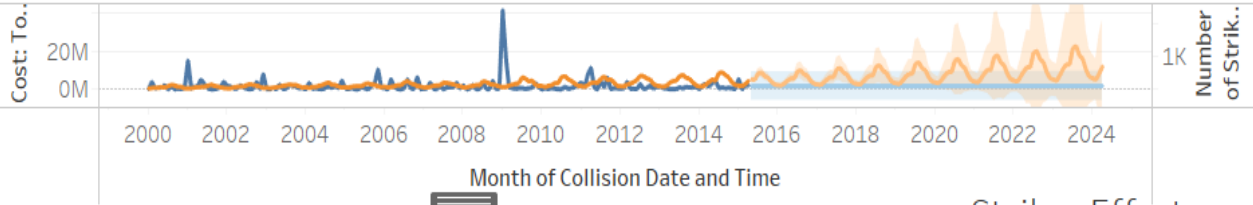
Number of Strikes by State



Comparison of Strikes and Expenses by State



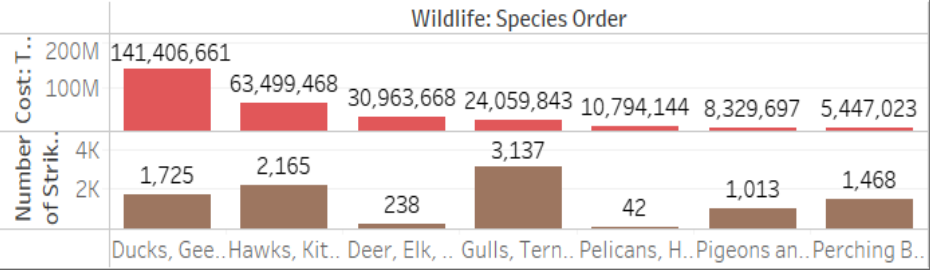
Collisions vs Cost by Date (with Forecast)



Frequency of Strikes by Time of Day



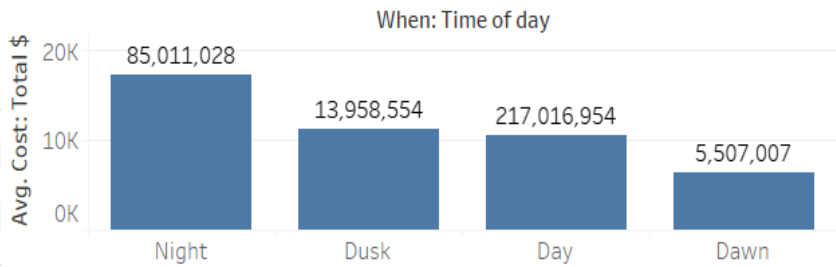
Comparison of Strikes and Expenses by Species



Strikes Effect on Flights

Effect: Impact to flight	
None	25,051
Precautionary Landing	1,457
Aborted Take-off	800
Other	628
Engine Shut Down	148

Time of Day vs Avg Cost by Strike



An aerial photograph of a long, multi-lane highway bridge spanning a body of green water. The bridge has several lanes in each direction, with white lane markings. Several vehicles, including trucks and cars, are visible traveling across the bridge. The water is a vibrant green color with visible ripples. The text "Thank you" is written in a white, italicized serif font on the left side of the image, with a horizontal line underneath it.

Thank you
