FAA Wildlife Strikes

Presentation by Christian Cusson

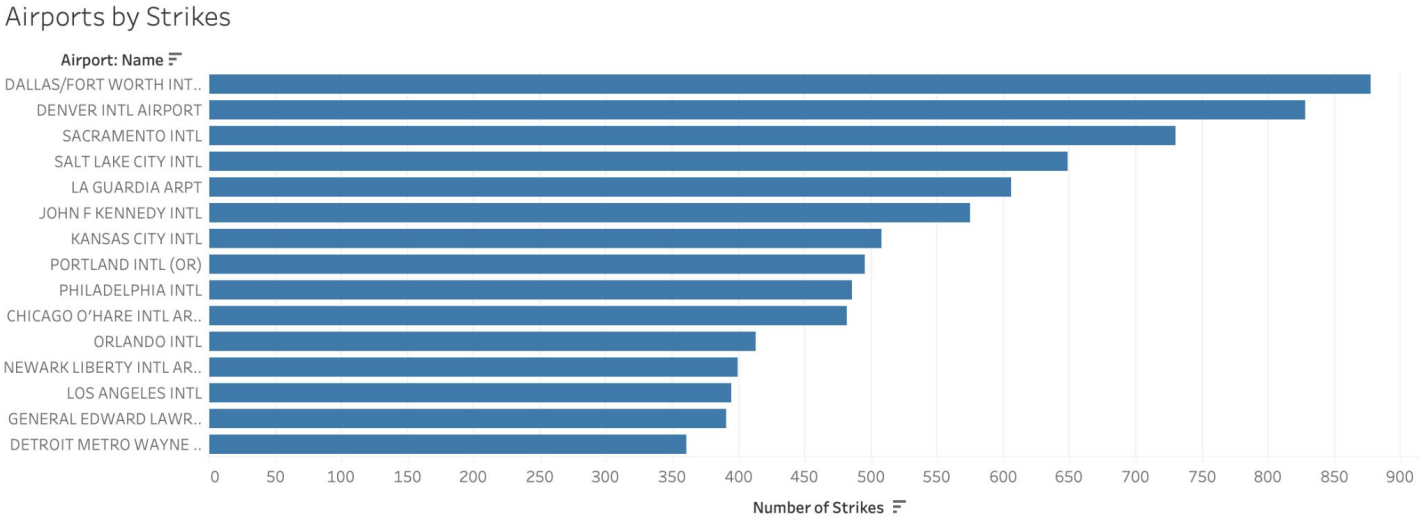
Goal?

For this project, I explored the FAA Wildlife Strikes data from 2000 to 2015. My aim was to use Tableau to uncover trends and patterns in the data. The goal is to understand wildlife strikes in order to understand them and hopefully prevent them in the future to avoid unnecessary wildlife deaths and to save airline costs.

Questions

- ➔ Which US airports have reported the most strikes over the years?
- ➔ At what time of day and phase of flight do strikes occur most often?
- ➔ At what time of year/months do wildlife strikes happen the most?
- ➔ What species or species groups are causing the highest cost to the airlines due to strikes?
- ➔ Over the years, what states have seen the highest cost to airlines due to strikes?

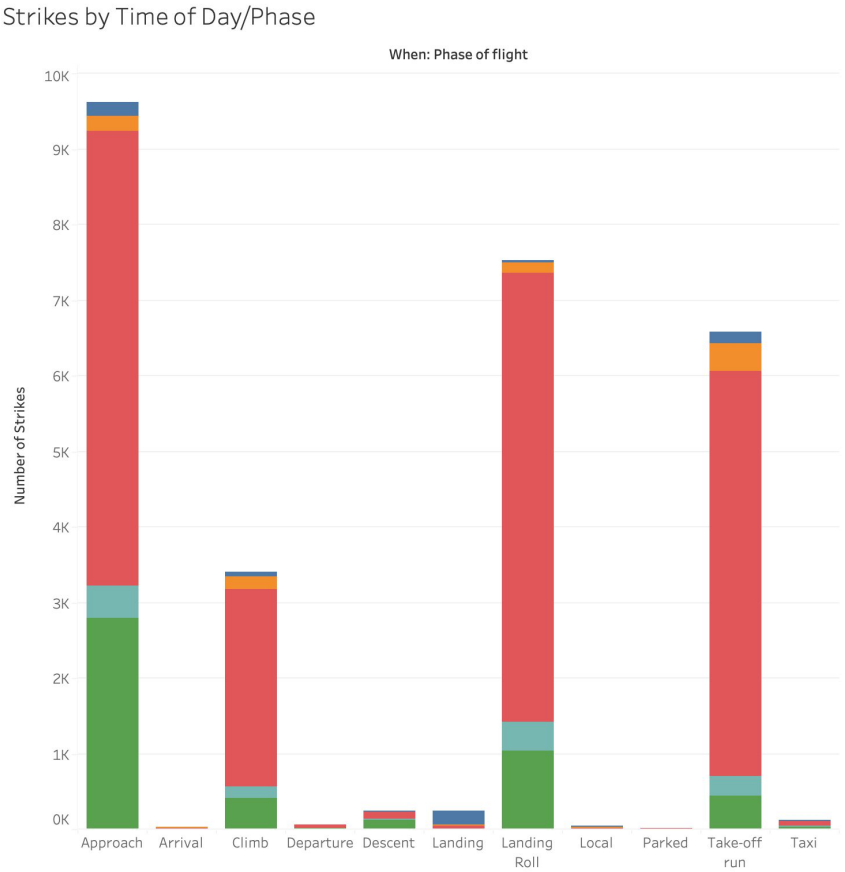
Which US airports have reported the most strikes over the years?



I used a bar chart to show wildlife strikes at US airports. This method is clear and simple, allowing for quick comparisons between airports. Bar charts are great for large datasets and make it easy to spot airports with the most strikes, effectively conveying complex information in an accessible way.

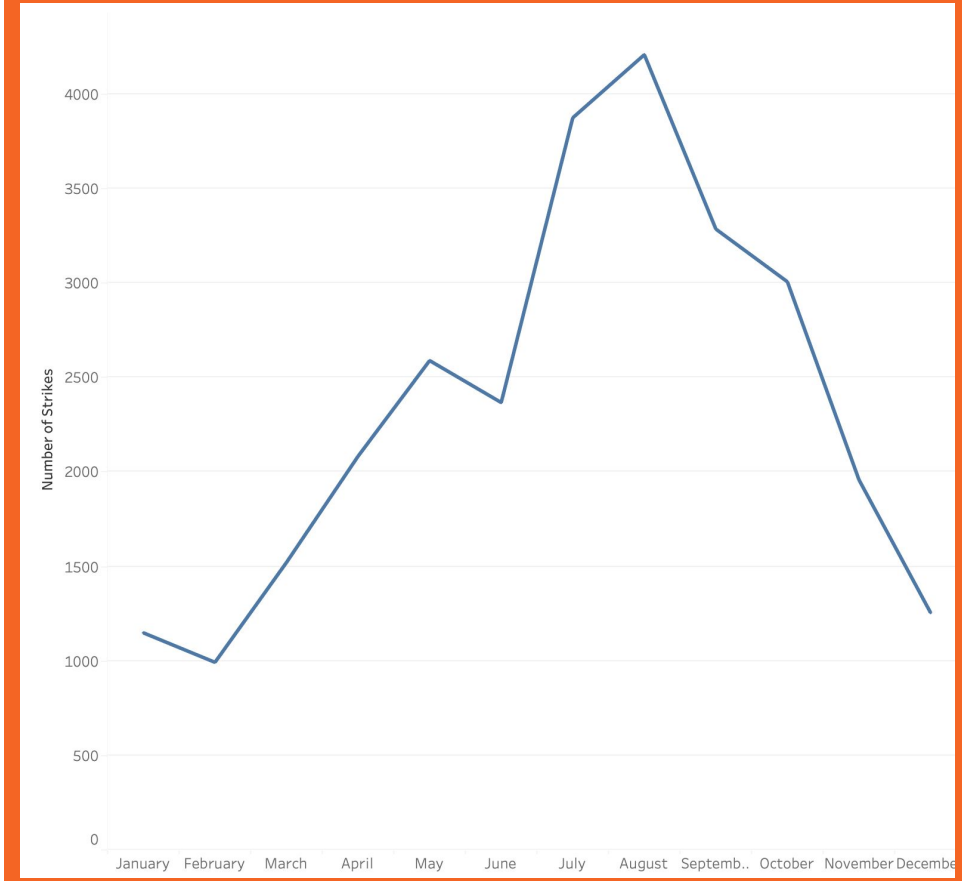
At what time of day and phase of flight do strikes occur most often?

I've chosen a multi-colored bar chart to demonstrate the frequency of wildlife strikes by time of day and flight phase. Each bar represents a flight phase, with varying colors for different times. This method provides a clear, quick comparison and highlights high-risk periods, effectively presenting complex data in an engaging and straightforward manner.



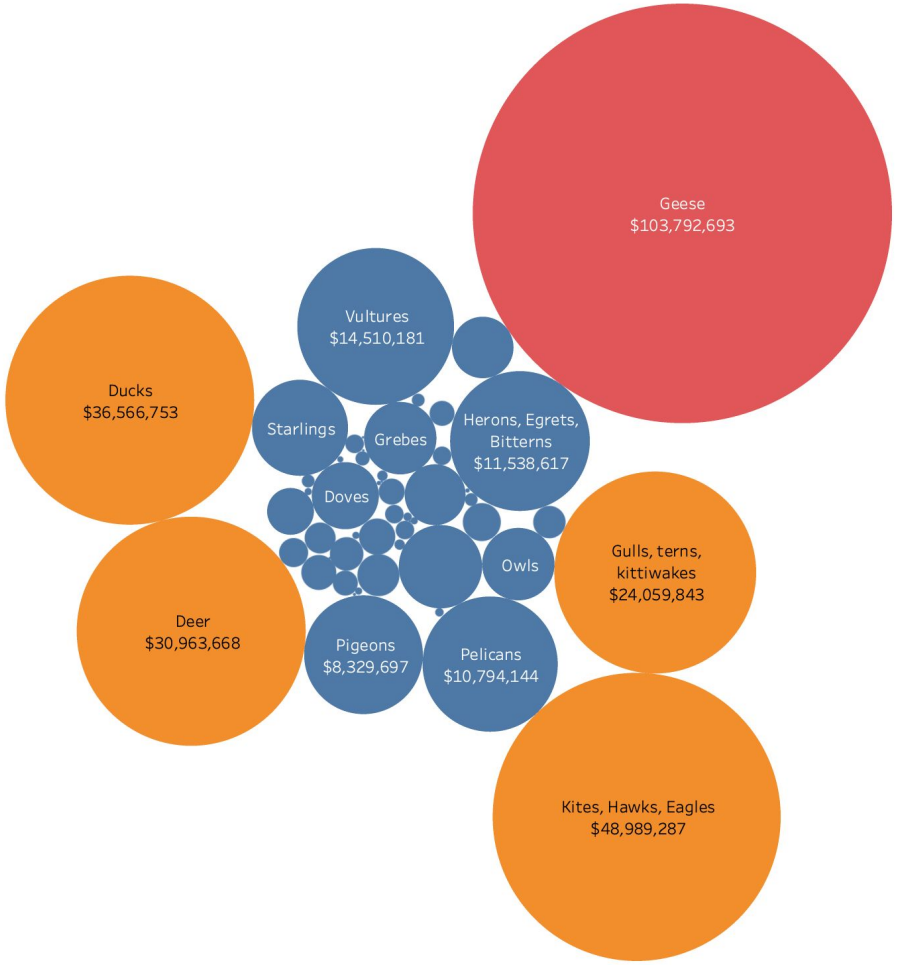
At what time of year/months do wildlife strikes happen the most?

I used a line graph to illustrate the frequency of wildlife strikes throughout the year. This choice effectively highlights trends and peak periods, as line graphs are excellent for showing changes over time. By plotting the number of strikes against each month, the graph clearly demonstrates which months experience the highest occurrences of wildlife strikes. This visual approach makes it easier to identify specific times of the year when strikes are most prevalent, offering valuable insights into seasonal patterns in a clear and concise manner.

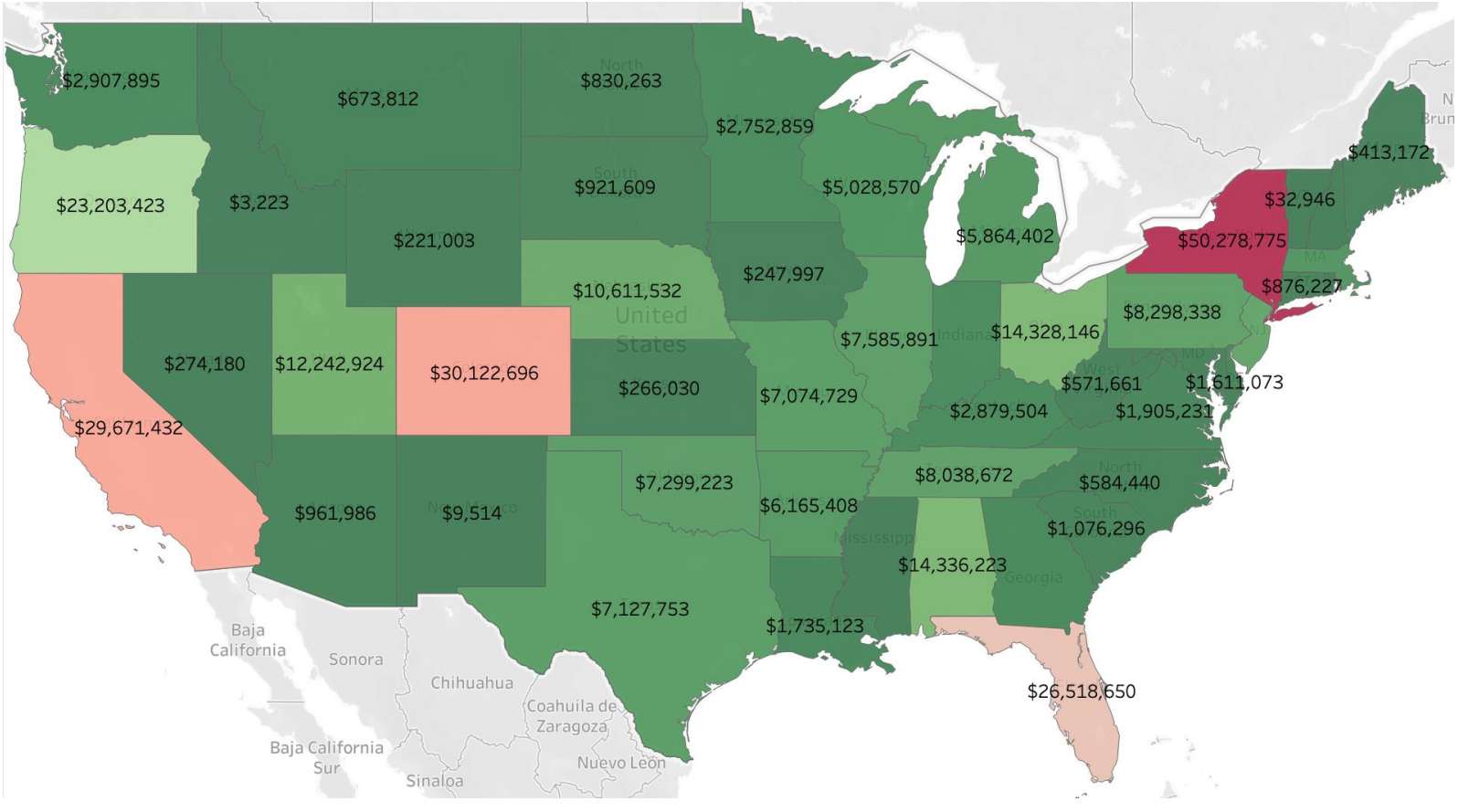


What species or species groups are causing the highest cost to the airlines due to strikes?

I used a bubble graph with clusters to identify which species or groups cause the most cost to airlines from strikes. The size of each bubble indicates cost, while its position shows strike frequency. This method clearly highlights species with higher financial impacts, effectively presenting complex data in a visually engaging way.



Over the years, what states have seen the highest cost to airlines due to strikes?



If I had more time?

- ➔ I could try to develop predictive models to forecast wildlife strikes.
- ➔ I could explore the dataset further and do some research online to understand wildlife strike mitigation efforts.

Thank you!