

Introduction	Summary	Wildlife	Where	When	Future
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FAA Wildlife Strikes Database 2000-2015



Voluntary Reporting

- Type of Plane: fixed wing/helicopter, # engines
- Damage: yes/no, amount (category), flight effects, hours, dollars
- Timing: portion of flight, time of day, date
- Location: state, airport, miles from airport, height

+16 Million Flights Annually
45,000 Flights Daily

Up to 5400 flights in the sky
at any one time.

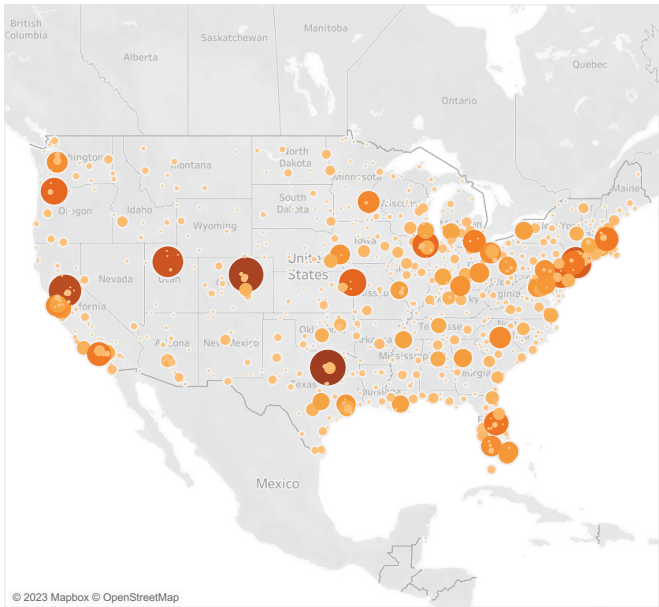
19,633 Airports in the US

0.69 - 1.2 Strikes/100,000

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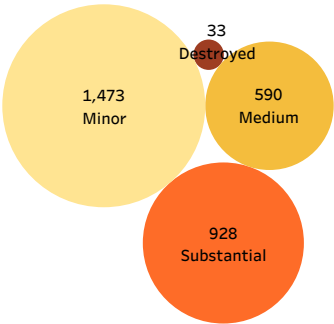
Summary of Strikes 2000-2015

Total Number of Strikes in 2000-2015



28,298 Strike Records
771 Airports
49 States - no Hawaii or Alaska but includes Washington DC
3,111 Damage Records
3,033 Flights Affected

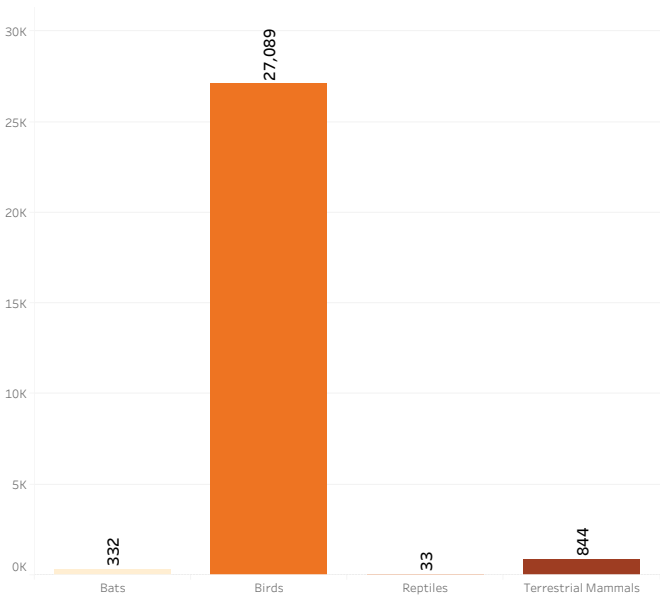
Severity of Collision



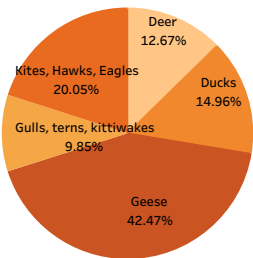
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What Wildlife Contributes to Strikes

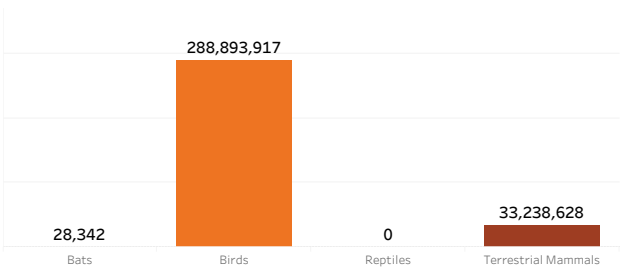
Strikes by Wildlife Type



Percent of Total Cost by Species Category



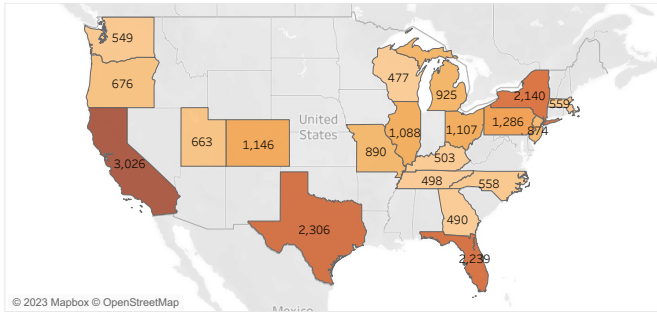
Cost in Dollars by Wildlife Type



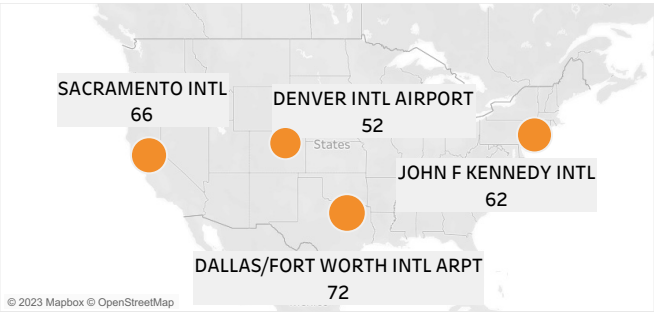
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Where are Strikes Occurring?

Strikes in the top 20 States



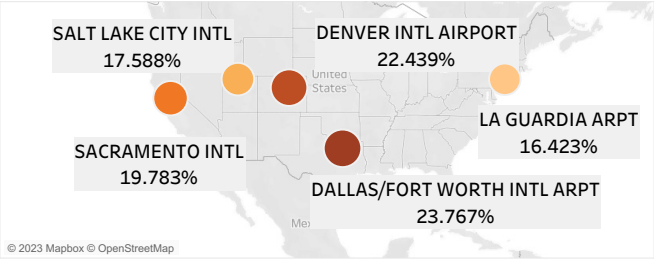
Flight was Affected by Collision by Airport



Cluster Analysis revealed 2 clusters using ANOVA:
Cluster 1 = California,Texas,Florida, New York
Cluster 2 = All other states

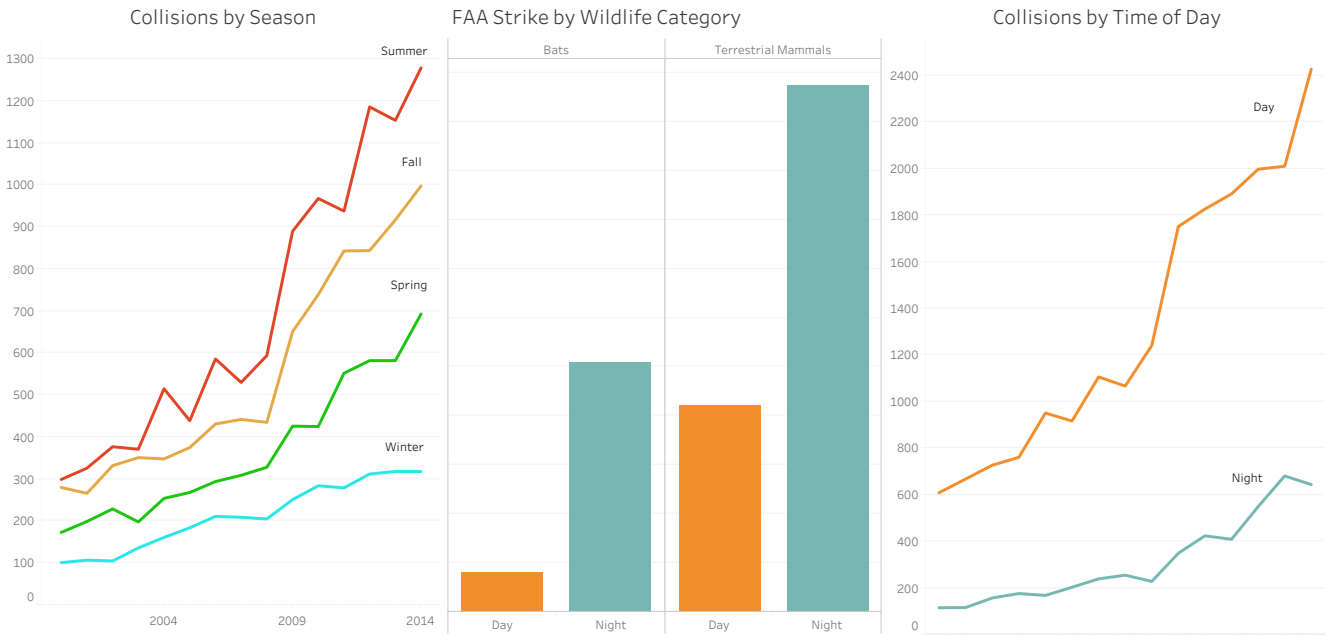
p < 0.01

Total Number of Strikes by Airport in 2000-2015



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When are Strikes Occurring?



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The Future of Wildlife Strikes involving Aircraft

- Wildlife strikes can be prevented by:
- Checking runways before flights depart/land
 - Illuminating exterior lights of aircraft
 - Fencing
 - Vegetation control
 - Bird-scaring devices
 - Removing/scanning for carcasses
 - Remove standing water

