Impact of Wildlife Strikes

Chris Quan

Goals

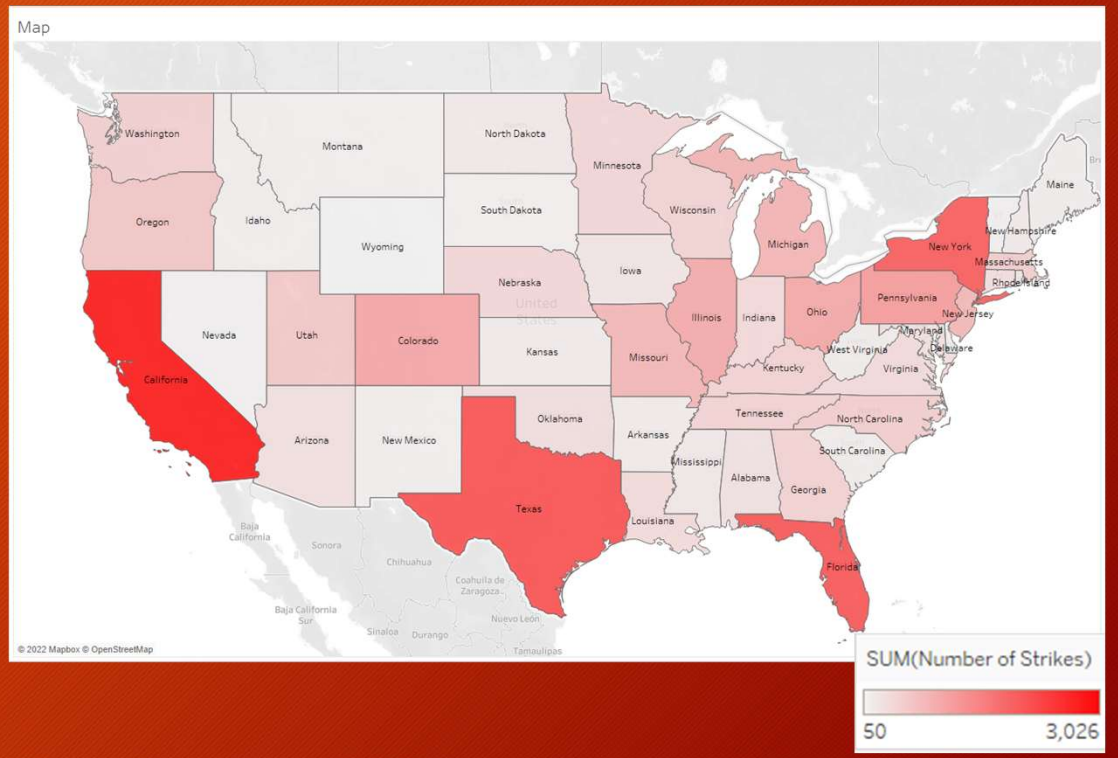
- Analyze the given dataset (FAA Wildlife Strikes, 2015) to see the impact of wildlife Strikes
- Build visualizations of key details
- Find different patterns or trends relating to the impact of bird strikes
- Setup a dashboard to quickly see key data

Data set

- Displays the collision between airplanes and wildlife (mostly birds) in the USA between 2000 and 2015
- Important details include:
  - Day, time and location
  - Effect of damage
  - Cost of damages

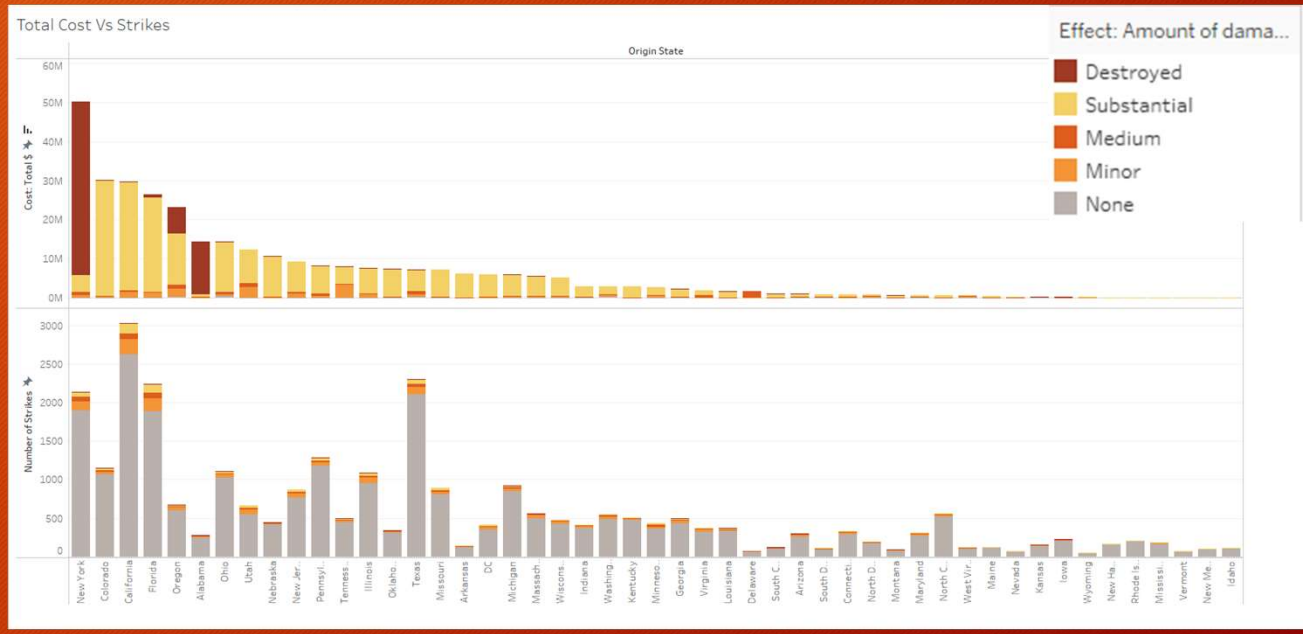
Where do most strikes occur?

- Most strikes happen in California, Texas
- Florida, Texas, California and New York are amongst the highest states for strikes



Total cost of these strikes

- A state that has more strikes doesn't necessarily mean they incurred more cost
- Notably New York has suffered a lot more losses than another state with more destroyed aircrafts

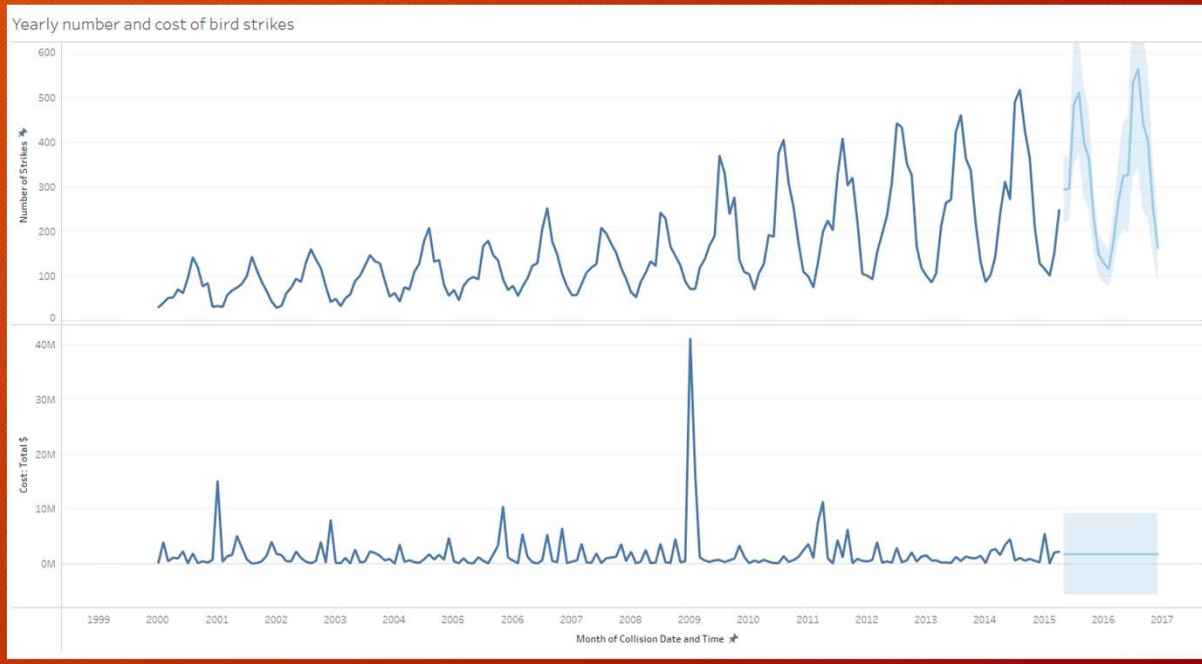


Time of Strikes

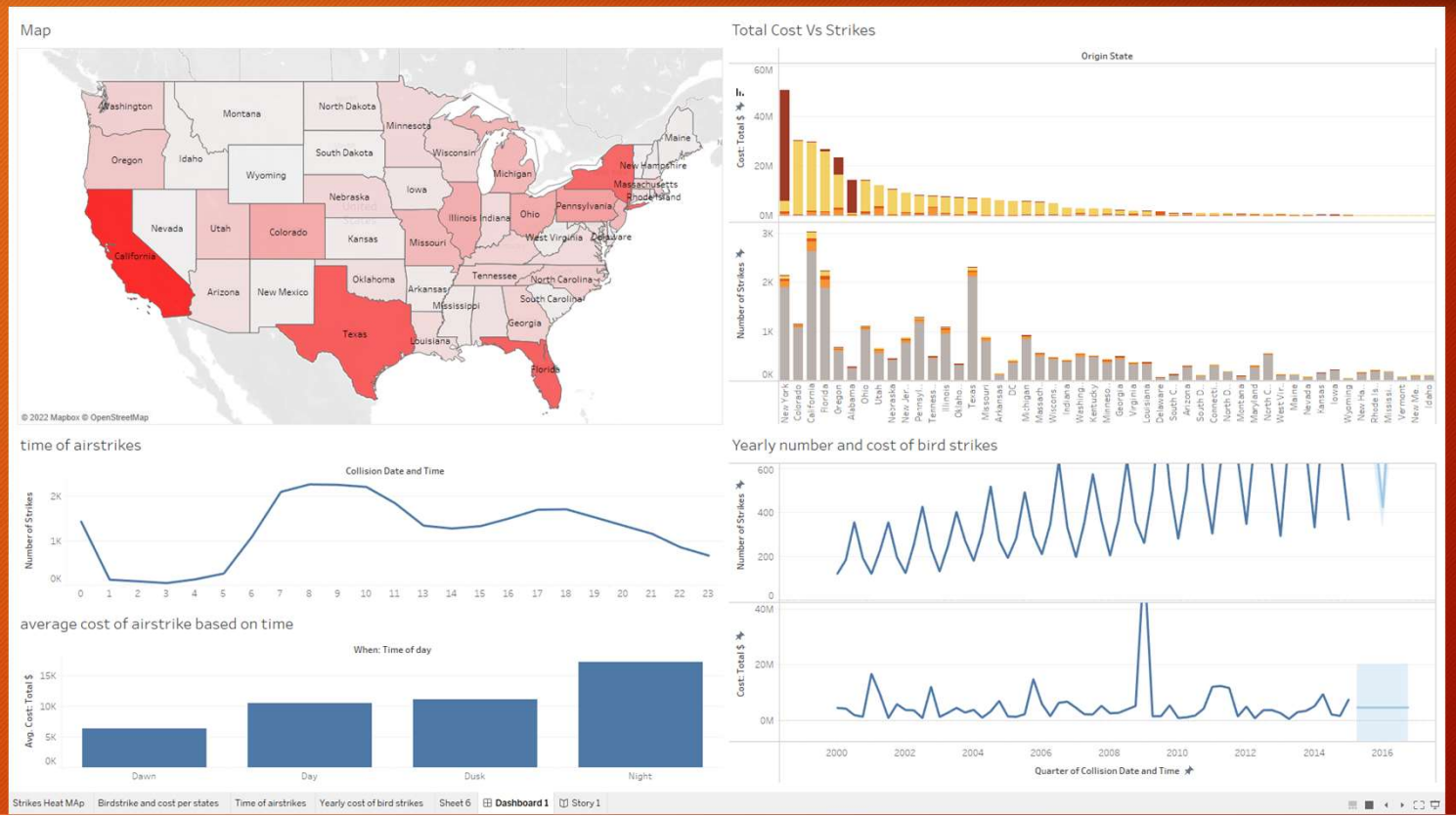
- Most strikes happen earlier into the day and afternoon with a dip at night
- On average strikes at night are more costly than those that happen during the day

Yearly number and cost of strikes

- Strikes always happen year long but always peak in august
- Despite the increasing amount of yearly bird strikes, we can see that cost is still kept a minimum



Dashboard


Map
Washington
Montana
North Dakota
Minnesota
Maine
Oregon
Idaho
South Dakota
Wisconsin
Michigan
New Hampshire
Massachusetts
Rhode Island
Wyoming
Nebraska
Iowa
Illinois
Indiana
Ohio
Pennsylvania
Nevada
Utah
Colorado
Kansas
Missouri
West Virginia
Delaware
California
Oklahoma
Tennessee
North Carolina
Arizona
New Mexico
Arkansas
Mississippi
South Carolina
Georgia
Texas
Louisiana
Florida
© 2022 Mapbox © OpenStreetMap
Total Cost Vs Strikes
Origin State
Cost: Total $
Number of Strikes
time of airstrikes
Collision Date and Time
Number of Strikes
average cost of airstrike based on time
When: Time of day
Avg. Cost: Total $
Dawn
Day
Dusk
Night
Yearly number and cost of bird strikes
Number of Strikes
Cost: Total $
Quarter of Collision Date and Time
Strikes Heat MAp
Birdstrike and cost per states
Time of airstrikes
Yearly cost of bird strikes
Sheet 6
Dashboard 1
Story 1