Insight 1

https://public.tableau.com/app/profile/ganzoury/viz/Cancellations_16527665515410/Sheet1?publish=yes

Cancellations are not proportional with number of flights. For example we see that flight departing from California account for 12.19% of the total number of flights in the dataset, and it has 9.27% of the total number of cancellations. On the other hand, only 7.09% of the flights depart from Illinoi, but 12.11% of the cancellations occur in flights departing from there.

We choses two colors since we're measuring two different percentages and green and yellow seemed appropriate and non-distracting.

Insight 2

https://public.tableau.com/app/profile/ganzoury/viz/CancellationsPerAirline_16521413491390/Sheet2?publish=yes

According to the metadata, there are 4 likely reasons for cancellation:

      A - Airline/Carrier

      B - Weather

      C - National Air System

      D - Security

California has the most number of flights cancelled due to Airline related reasons (212) closely followed by Texas (194).

Texas had the most number of flights cancelled due to weather (415)

Illinoi had the most number of cancellations due to National Air System related issues (118)

No flights were cancelled for security reasons

A world map was chosen as an intuitive tool to display state related statistics.

Insight 3

https://public.tableau.com/app/profile/ganzoury/viz/Dashboard_16526692480630/Dashboard1?publish=yes

Where delays and cancellations are concerned, Delta Air Lines seems to be performing the best with low average delay time (18.29 minutes) and low number of cancellations (194) despite it having a total of (41,516 flights).

On the other hand, American Eagle Airlines seems to be performing the worst having an average delay time of (24.67 minutes) and (723 cancellations) despite its comparatively smaller number of flights (12,149 flights)

We chose to represent many measurements together in one chart, for that purpose a bubble plot was chosen.