

Insight 1

[Avg. Departure Delay by State by Day of Week | Tableau Public](#)

From this visualization, we can see the average departure delays per day of week by state. It seems that the highest departure delay average take place on Tuesday in Guam (215.4 minutes).

Adjusting the slider for Avg. Departure Delay, we can reduce the number of states viewed to focus on the larger delays.

When we hover on any Bar or Map State, we can see the Count of Scheduled Departures for that State.

Map chart seemed to be the perfect choice for states as it decodes latitude and longitude combinations allowing the viewer to see patterns on geographic locations (states) that can be challenging to discover in other maps.

Insight 2

[Delay Reason per Month | Tableau Public](#)

It is obvious that 'Late Aircraft Delay' is the highest reason for delaying aircraft - except for SEP in which it is almost the same as 'Airline Delay' - while 'Security Delay' is the lowest.

We can see from the Bar Chart that 'Weather Delay' in FEB (24,204 min) and JUN (21,913 min) reach the highest values that other months. Also, 'Aircraft Delay' reach its maximum value in JUN (161,446 min) and minimum value in SEP (60,124 min)

I decided to color them all in blue because doing more colors with no added value would be distracting the viewer from the important things.

Insight 3

[Cancelled Flights per Airline per Month Dashboard2 | Tableau Public](#)

Looking at this visualization, we can see that February's number of cancellations almost double - and even more - other months. Most of cancellations during that month was due to weather.

By hovering on the graph, we can see that American Eagle Airlines (MQ) recoded highest number of cancellations during February (203) from which (153) of them was due to weather condition.

I used color blind palette tableau so that it would be easily distinguishable to find the cancelation reason.

I used the following resource to find out how to display total of each bar on stacked bar graph:

<https://kb.tableau.com/articles/howto/How-to-Display-Total-of-Each-Bar-on-Stacked-Bar-Graph>