

Project Insights & Recommendations

Link to story:

<https://public.tableau.com/app/profile/omer.rosenfarb/viz/2015FlightDelaysandCancellationsfinalversion/2015USFlightsDataset>

Link: [Departure Delay by airline](#)

Summary: Top Airline with the biggest Delays in minutes. The most delayed airline is Southwest Airlines Co.

Design: Horizontal bar. I created a dynamic filter “Top N” for filtering the number of Airline displayed. There is another filter for the range of the delay in minutes. In the Tooltip, you can see a pie chart with the distribution of delay reasons in %.

Resource: flight-delays.zip

Link: [Departure Delay by Airport](#)

Summary: Distribution of Airport delays by color. “Top N” is relevant for here as well. There are the most delays at Chicago O'Hare International Airport.

Design: Treemaps. Bold red represents big delay while yellow the opposite.

Resource: flight-delays.zip

Link: [Departure Delay by state](#)

Summary: Distribution by size & color.

The filter “Day of the Week” allow to see the changes in motion.

Delays are highest on Sundays, with Texas being the busiest state.

Design: Map. Big circle & Red color means big delays. Small circle & Yellow color means small delays.

Resource: flight-delays.zip

Link: [Number of cancelled flights per Airline](#)

Summary: Southwest Airlines Co also has the most cancelled flights with more than 800 in a year.

Design: Bar Chart. We can see in colors the different reason for the Cancellation

Resource: flight-delays.zip

Link: [Number of cancelled flights per Month](#)

Summary: February is the month with the most cancellations.

Design: Bar Chart. We can see in colors the different reason for the Cancellation

Resource: flight-delays.zip

Link: [Number of departure delayed flights per minutes](#)

Summary: More than 50% of the delayed wear up to 15 minutes only.

Design: Histogram. Bins are separated by 15 minutes each.

Resource: flight-delays.zip

Recommendations

1. For the top 10 airlines, late aircraft delays are the main cause of delays, so reducing this cause will reduce delays overall.
2. Due to weather conditions, the most cancellations occur during the winter months (January-March), Delays can be anticipated in advance.
3. More than 50% of the delay flights wear less the 15 minutes delays, These are relatively minor delays.