

FLIGHT DELAYS AND CANCELLATION

Tableau Story Link:

https://public.tableau.com/app/profile/leslie.redor/viz/BuildaDataDashboardUdacityProjectFlightData_16656820709140/Story1?publish=yes

Dashboard 1 – Which airlines or airport have the worst delays?

https://public.tableau.com/app/profile/leslie.redor/viz/BADA_Dashboard1/Dashboard1?publish=yes

Summary:

The list shows the delays total per airport. Along with this visual, I created a bar chart ranking the airport by most delays to least. The last visual is a bar chart that shows the airline from most delays to least. Information can be filtered by state, airport, and airline. If being filtered by state, then all airports within that state will show data. Chicago O'Hare International is the top airport with the most delays along with Delta Airlines.

Design:

Being that there are so many airports within the United States, I want to be able to filter by state. Not many people are able to state every airport within each state. With that, I created a filter to filter by state. Along that you can filter by airport and airline if need be. I chose a list to be able to see a list of all airports and total delays. A line chart was chosen to be able to see the descending of delays within airline.

Resources:

- <https://evolytics.com/blog/tableau-201-how-to-make-a-dual-axis-combo-chart/>
- <https://www.edureka.co/community/44843/multiple-measures-with-heat-map-and-text>

Dashboard 2 – What causes delays?

https://public.tableau.com/app/profile/leslie.redor/viz/BADA_Dashboard2/Dashboard2?publish=yes

Summary:

With that last dashboard stating what airport has the most delays. I wanted to further understand the reason for these delays. I created visuals to show which state had the most delays. Chicago O'Hare, Hartsfield-Jackson Atlanta, and Dallas Fort Worth airports are the top 3 with the most delays. Departure of delays are the top reasons for delays.

Design:

I chose a map to be able to hover over the dots and show the counts for all reasons of delays. The state with the bigger dots have some of the highest counts of delays. I also chose a stacked bar chart to be able to see all the counts for all the reasons of delays. This dashboard can also be filtered by state. This also makes it useful being that we may not all the airports within a state.

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Resources:

- <https://public.tableau.com/app/profile/mark.soro/viz/BuildDataaDashboardfromBANDUdacityProjectFlightData/Dashboard1-Originairportscancellationreasons>
- <https://www.edureka.co/community/44843/multiple-measures-with-heat-map-and-text>
- <https://www.theinformationlab.co.uk/2020/09/14/how-to-create-an-origin-destination-map-in-tableau/>
- <https://www.youtube.com/watch?v=rIeMukvrNoo>

Dashboard 3 – Which state has the most cancelled flights?

https://public.tableau.com/app/profile/leslie.redor/viz/BADA_Dashboard3/Dashboard3?publish=yes

Summary:

There are two different pie charts showing the count of cancelled flights by reason and the day of the week. I wanted to be able to see what day of the week was the busiest for travel. This peaked my interest in wanting to know what day of the week has the most cancelled flights. Texas, Illinois, and California are the top 3 states with the most cancelled flights. Weather is the top reason for cancelled flights in the United States, with Sunday being the most cancelled flights.

Design:

I decided to show a heat map to visualize the states with the most cancelled flights. Cancelled flights information can be filtered by state and day of the week. I chose to show the airlines with the most cancelled flights within each state.

Resources:

- <https://www.youtube.com/watch?v=tkx45cQ8q6M>
- <https://www.youtube.com/watch?v=uIzFfxVH314>
- <https://kb.tableau.com/articles/issue/creating-a-pie-chart-using-multiple-measures>