

Flight Delays & Cancelations

Visualization 1:

Flight Cancelation over USA per day of the week

Tableau link:

https://public.tableau.com/app/profile/mohamed1902/viz/FlightsCancellationDashboard_16631860349350/FlightsCancellationOverUSA?publish=yes

Summary & Design:

In this dashboard, I used two visualizations, A map that shows the distribution of the canceled flights over the United States daily. And a bar chart showing the same insights of the map but with a better view for the audience to understand the change that occurs daily for each state. So we can see that Texas by far has the most cancellations on most of the days but only on Sunday Illinois overtake it.

As for the design, there was no need for the use of multiple colors for the bar chart and the map, as it appears I used only one color and it becomes lighter or darker as the number of canceled flights changes.

Resources:

NA

Visualization 2:

Flight Cancellation Causes & Which one causes more cancellation?

Tableau link:

<https://public.tableau.com/app/profile/mohamed1902/viz/CancellationCauses1/CancellationCauses?publish=yes>

https://public.tableau.com/app/profile/mohamed1902/viz/CancellationCauses_16631900389580/CancellationCauses?publish=yes

Summary & Design:

In this visualization, I used a pie chart to show all causes of the cancellations and it appears that Weather causes the most cancellations (47,874), and the lowest cancellations occur due to Security (22).

As for the design, I used several colors to differentiate between the causes of the cancellations, and I carefully used color blind-friendly palettes in all my visualizations as well as this one.

One more thing, I used the link in the resources to make aliases for the cancellation causes because it was presented in letters.

Resources:

<https://www.kaggle.com/usdot/flight-delays/data>

Visualization 3:

Airlines with the most canceled flights & it's causes

Tableau link:

<https://public.tableau.com/app/profile/mohamed1902/viz/Airlineswithmostcancelledflights/Airlineswithmostcancelledflights?publish=yes>

Summary & Design:

In this dashboard, I used two bar charts, one to show the canceled flights in each airline, and it shows the airline with the highest number of cancellations is South West Airlines Co, With almost 16,000 canceled flights.

The second bar chart shows how each airline is affected by the four cancellation reasons, and it appears, as it was presented in the previous visual, that most of the canceled flights are caused by Weather, but there are a few airlines such as Atlantic Southeast Airlines where National Air System causes the highest cancellations.

Resources:

NA