

# Flight Delays and Cancellations Project

## Insight 1

### Which states have most cancelled flights?

Link:

<https://public.tableau.com/app/profile/mohamed.abdelnaser.elsayed.mortada/viz/Whichstateshavemostcancelledflights/Dashboardofcancelledflights?publish=yes>

#### Description:

That Dashboard includes a map, bar chart of cancelled flights and pie chart of reasons of cancelled flights. Which we can see where the most cancellations occur. We found the most cancellation happened in Texas with 668 flights and Illinois with 563 flights.

Also, we can see the fewest cancellations occurred in Montana with just 3 flights.

The most reason of cancelled flights was because the weather.

#### Design:

In this dashboard, we used the map to illustrate the summation of cancelled flights in all states.

Also, we used a bar chart with blue color sorted top 10 descending by summation of cancelled flights with states. We added a month filter in this dashboard which we can see the summation of cancelled flights in any month separately and the reasons of cancellation.

## Insight 2

### What causes delays?

Link:

[https://public.tableau.com/app/profile/mohamed.abdelnaser.elsayed.mortada/viz/Whatcausesdelays\\_16572237867510/DelayReasons](https://public.tableau.com/app/profile/mohamed.abdelnaser.elsayed.mortada/viz/Whatcausesdelays_16572237867510/DelayReasons)

#### Description:

This sheet includes a separate area chart for reasons of flights delayed by months. The first area charts illustrate summation with four delay reasons (weather, airline, air system, security)

And it was followed by 4 charts for every reason separately. We found the most delay occurs in June month and the least occurs in September. The most reason for delays occurred because of Airline and the security caused the most minor delays.

#### Design:

In this sheet, we used area charts with different colors and filtered by Airline and Airports. We can determine the reason of delay for any airport or airline in any month.

### **Insight 3**

**What are the most airports have delays and what are the reasons?**

Link:

<https://public.tableau.com/app/profile/mohamed.abdelnaser.elsayed.mortada/viz/Whatarethemostairportsavedelaysandwhatarethereasons/SumDepartureandArrivaldelay>

Description:

This story has 3 sheets. The first on showing sumation departure delay for each airport with all airlines and second showing sumation arrival delay for each airport with all airlines. From those sheets we found Chicago O'Hare International Airport has the most summation delay for departure and arrival. That's lead to the last sheet which we need to know what is the most reason for these delays. We found Air system is most reason for this delay.

Design:

We used in this stage a story to illustrate the sheets. First and second one was by a line chart for each airport and airline. We used a filter for summation of delays to determine specified period of delays. In the last sheet of story, we used a bar chart to illustrate the reasons of delay in any airport and we focused on Chicago O'Hare International Airport which have the most delays.

Resources:

<https://www.youtube.com/watch?v=9xqHA732LMA>

<https://public.tableau.com/app/profile/mohamed.abdelnaser.elsayed.mortada/viz/Whichstateshavemostcancelledflights/Dashboardofcancelledflights>