

# Telling Stories with Data

## Flight Delays and Cancellations

### Summary:

#### Insight 1

[https://public.tableau.com/app/profile/osato.precious.gift/viz/flightcancellationstate\\_16536864366830/State?publish=yes](https://public.tableau.com/app/profile/osato.precious.gift/viz/flightcancellationstate_16536864366830/State?publish=yes)

This visualization shows states with the total number of canceled flights. We can see from the map that Texas (668) has the highest number of canceled flights followed by Illinois (563) and California (408) Montana and West Virginia had the lowest number (3) of canceled flights.

#### Insight 2

<https://public.tableau.com/app/profile/osato.precious.gift/viz/flightcancellationreason/cancellationreason?publish=yes>

We can see from the chart that 'Weather' was the top reason for flight cancellation followed by 'Airline/Carrier' then 'National Air System'. A total of 4433 flights were canceled. When we hover over the chart, we can see the number of times a flight was canceled and the particular reason for cancellation.

#### Insight 3

<https://public.tableau.com/app/profile/osato.precious.gift/viz/flightcancellationbyAirlines/Airlines?publish=yes>

This chart gives us insight about airlines with the number of flights canceled and the reason for cancellation was added as a mark to show the major reason why a flight was canceled for a particular airline. From the chart, it is seen that Southwest Airlines had the highest number of canceled flights and the major reasons were weather and airline respectively. Hawaiian Airlines Inc. had the fewest number of cancellations due to Airline/Carrier only.

#### Insight 4

<https://public.tableau.com/app/profile/osato.precious.gift/viz/flightcancellationbymonth/Sheet3?publish=yes>

This chart shows flight cancellations and reasons by month. From the chart visualization, we can see that the most cancellations happened in February with a total of 1058 and weather is mostly the reason for cancellation. On the other hand, September had the lowest cancellations and Airline was the biggest reason.

## Dashboard

[https://public.tableau.com/app/profile/osato.precious.gift/viz/FlightDashboard\\_16536879741080/Dashboard1?publish=yes](https://public.tableau.com/app/profile/osato.precious.gift/viz/FlightDashboard_16536879741080/Dashboard1?publish=yes)

This dashboard shows the States with flight cancellations, reason for cancellation, airline with the most cancellation and the month with most cancellation. Day of the week and cancellation reason were added as filters to get more analysis.

## Story

<https://public.tableau.com/app/profile/osato.precious.gift/viz/FCstory/Story1?publish=yes>

## Design:

- Map was used to show States with canceled flight
- Bar was used for the airline visualization
- Dual combination was used for the month visualization
- Pie chart was used to show dimension with limited number of categories (different cancellation reason)
- I used consistent color all through to make the visualization more engaging.

## Resources:

Project Walkthrough:

<https://www.youtube.com/watch?v=9xqHA732LMA&feature=youtu.be>