

# Project 4 - Flight Delays and Cancellations

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### **Insight 1:**

The map illustrates the number of flight cancellations in the state of the USA. Filters are also added to enhance the ease of seeing in which range does the number of cancelled flights stand and due to what reasons, they were cancelled. Looking at the map the highest number of cancellations occurred in California (33,331) and Texas (32,612). These two states alone account for 23.98 % of all cancelled flights. It can also be seen that West Virginia had the least amount of cancellation of only 103.

### **Link:**

[https://public.tableau.com/profile/shivam.saini7860#!/vizhome/FlightCancellationPerState\\_15874080406640/numberofflightcancellation](https://public.tableau.com/profile/shivam.saini7860#!/vizhome/FlightCancellationPerState_15874080406640/numberofflightcancellation)

### **Insight 2:**

This dashboard shows us the most affected states and flights due to cancellation by different months. Looking at the dashboard we can see that the month of August had the highest number of cancellations in the state of California (3,308), it can also be seen from the bar graph that during the month of August the most cancelled flight was Southwest airlines. We can see that most Southwest airlines were cancelled because of Airline/Carrier which accounts for around 16.42% of the cancelled Southwest airlines. In the same month Virgin America was the least cancelled airline. It can also be seen from the dashboard that in the month of October there were no cancellations of flights. Therefore, it can be concluded that the month of October is the best choice to travel in flights.

### **Link:**

<https://public.tableau.com/profile/shivam.saini7860#!/vizhome/Mostaffectedstatesandflightsbymonth/Mostaffectedstatesandflightsbymonth>

### **Insight 3:**

Here a scatter plot is used to show the percentage of weather and security delay for all airlines. From the graph American airlines had the most amount of delay due to security. They had the most delays due to security around 24.03%, this could be due to the lack of proper management regarding security. It can also be seen that delta airlines were the one with the highest number of delays due to weather which was around 19.62%. It can also be seen that frontier airlines had the least number of delays due to weather and security. They had 0% delay due to security as compared to American airlines which shows that frontier airlines had far better management regarding security

### **Link:**

<https://public.tableau.com/profile/shivam.saini7860#!/vizhome/Weatherscuritydelayperairline/Weathersecuritydelayperairline>