

## **Dataset: Flights Delays and Cancellations**

### **Insight #1**

[Airline delayed and cancelled flights | Tableau Public](#)

First insight is dashboard about airlines delayed and cancelled flights, we have 4 visuals in this dashboard which shows:

- 1- A horizontal bar chart by how long each airline arrive late on average, and based on the data in 2015 Alaska airlines has the least average with negative value of 0.49 on average, Spirits Airlines have the worst record of the average arriving delays with 15.73.
- 2- Next another horizontal bar chart for the total number of cancelled flights in year 2015 and Hawaiian airlines have the least cancelled flights in this period (8 flights), on the other hand Southwest airlines has the most cancelled flights (818 flights) but also has the most flights in that year with 59,437 flights in total.
- 3- A treemap for the average airline departure delay and it shows that Spirit airlines has the worst record with (17.37) on average and Hawaiian airlines has the best record for departure delay with only (0.17).

### **Insight #2**

[Cancellation reasons | Tableau Public](#)

Packed bubbles graph shows the most frequent reason for flights cancelled in the year 2015, the most common reason for flight cancelled is weather (2397), followed by airline (1260) and least common reason is National Air System (776).

### **Insight #3**

[Cancelled by day and destination airport | Tableau Public](#)

A dashboard shows number of cancelled flights by airport and day of the week to find the best day of the week to travel in the least chances of cancelled flights and best airport to travel to.

- 1- Dual axis line chart shows both of numbers of flights each day of the week and total number of cancelled flights each day of the week and Monday has the most cancelled flights day of the week in comparison to number of flights.
- 2- Circle plot chart shows both of total number of flights in each airport and total number of cancelled flights in each airport, although Hartsfield-Jackson Atlanta International Airport has the most flights in the year 2015 (17,833) it has only cancelled flights for (135) times only, compared to Chicago O'Hare International Airport that the second

most flights (14,789) but have almost 3 times the number of cancelled flights in the year (454 flights).

- 3- Symbol map shows the number of cancelled flights in the United States in the year 2015 in each recorded airport, and a circle size represent the total number of cancelled flights, the more the number of cancelled flights and the bigger the circle.