

## INSIGHT 1:

What are the states with the highest cancelled trips?

- **Links:**

([https://public.tableau.com/app/profile/kerlos.talaat/viz/Flightdelaysproject\\_16605990800580/Dashboard1](https://public.tableau.com/app/profile/kerlos.talaat/viz/Flightdelaysproject_16605990800580/Dashboard1))

- **Summary:** Through Dashboard, we try to Identify state with highest cancellation trips number and the reason of cancellation trips.

- **Conclusion:** -states with the highest cancelled trips are: Texas & Illinois, while state with the lowest cancellation trips number is: Delaware.

-The cancelling reason for the most trips is: - Weather

-February is the month with the highest cancellation number.

- **Design:** - in the Dashboard there are three visualizations:

- 1st one on the left pie chart explains how many trips have been cancelled and what is the cancellation reason Pie charts are probably better than any other visual for expressing a part-to-whole relationship; I could compare flight cancellations by reason for cancellation.

- 2nd one on the top right is a map of the states and what are the number of the cancelled trips to know which states have the most cancellation and a filter of months of the year. creating a map allow me to identify which state has the highest cancellation number.

- 3rd one on the bottom right is a line chart explains the cancelled trips in each state in different months (filter). Line charts are best used when displaying trends over time as we did here.

- **Resources:** N/A

## INSIGHT 2:

Which airlines has the highest cancelled trips?

- **Links:**

(<https://public.tableau.com/app/profile/kerlos.talaat/viz/Flightdelaysprojectsheet4/Sheet4?publish=yes>)

- **Summary:** Through worksheet we try to know which airline has the largest number of cancelled trips.

- **Conclusion:**

-Southwest Airlines Co. has the highest cancellation number while Hawaiian Airline Inc. has the lowest cancellation number

- **Design:**

- - the 4th worksheet is a bar chart as it's easy explains the cancelled trips numbers for each Airline. creating a bar chart for this visual allowed me to compare between a categorical variable and a numerical variable; I could compare flight cancellations by Airlines.
- **Resources:** N/A

## INSIGHT 3:

What is the average delay time for each Airline?

- **Links:**

(<https://public.tableau.com/app/profile/kerlos.talaat/viz/Flightdelaysprojectsheet5/Sheet5?publish=yes>)

- **Summary:** Through worksheet we try to know which Airline has the highest average delay time.

- **Conclusion:** -Spirit Air Lines has the highest Average delay time, while Alaska Airlines Inc. has an Average delay time with negative which means it arrives before its schedule time.

- **Design:**

- - the 5th sheet is a bar chart explains the worst Airline according to the average delay time using a filter (Day of Week). creating a bar chart for this visual allowed me to compare between a categorical variable and a numerical variable; I could compare Average delay time by Airlines.
- **Resources:** N/A

#### INSIGHT 4:

Which Airport has the highest Average Departure delay?

- **Links:**

([https://public.tableau.com/app/profile/kerlos.talaat/viz/Flightdelaysproject\\_16605990800580/Sheet6?publish=yes](https://public.tableau.com/app/profile/kerlos.talaat/viz/Flightdelaysproject_16605990800580/Sheet6?publish=yes))

- **Summary:** We use a Bar chart in this worksheet to know which Airport has the highest Average Departure delay.
- **Conclusion:** -Guam International Airport has the highest Average Departure delay time, while Valdez Airport has an Average Departure delay time with negative which means it leaves before its schedule time.
- **Design:**
  - the 6th sheet is a Bar chart explains which Airport has the highest average departure delay. creating a bar chart for this visual allowed me to compare between a categorical variable and a numerical variable; I could compare Average Departure delay time by Airports.
- **Resources:** N/A