

# The Flight Delays Caused by Airline Delays in 2015

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## Insight 1: Airline Delays per State

From this map we can see that the most airline delays in 2015 are happened in Texas (116,528) and California (110,011). On the other hand, West Virginia has the lost airline delays (26).

The majority of airline delays in Texas are conducted by American Airlines, American Eagle Airlines, Atlantic Southeast Airlines, and Southwest Airlines.

### Design:

For this insight, the most appropriate visualization is by using map to navigate the state to check the total number of airlines delays. Besides, this map is allowing the user to navigate each airline company contribution to the airline delays at each state.

### Worksheet Link:

<https://public.tableau.com/profile/abrar.alqahtani#!/vizhome/FlightDelays-Project6-AbrarAlQahtani/AirlineDelaysperState>

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## Insight 2: Airline Delays at Each Airport

Most of the airline delays are happened in 2015 at Chicago O'Hare (3060) & Hartsfield – Jackson Atlanta (2,708) international airports. In contrast, Lowest number of airline delays was one in some airports such as Bellingham International Airport and Bemidji Regional Airports.

American Eagle Airlines conducted most of its airline delays in Chicago O'Hare (663) & Dallas/Fort Worth (561) international airports. On the other hand, Toledo Express Airport, Salt Lake City International Airport, Montrose Regional Airport, George Bush International Airport, and East Texas Regional Airport had only one airline delay of American Eagle Airlines for each airport during the whole of 2015.

### Design:

Bar chart are used to show the number of airline delays at each airport. Using this chart, we can clearly see in which airport the most and the least number of airline delays during 2015. In addition, it helps to check at which airport the airline companies most and least contribution to the airline delays in 2015.

### Worksheet Link:

<https://public.tableau.com/profile/abrar.alqahtani#!/vizhome/FlightDelays-Project6-AbrarAlQahtani/AirlineDelaysatEachAirport>

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### Insight 3: Airline Delays Dashboard

From this dashboard we can see that the airline delays have the significant contribution to the flight delays at each state throughout 2015.

As mentioned in insight 1, most airline delays are happened in Texas and California while lowest airline delays were in West Virginia in 2015.

Through this timeline we can see that June has the highest number of airline delays during 2015 with total 119,651 delays. In contrast, September has the lowest number of airline delays during 2015 with total 60,477 delays.

During 2015, American Eagle Airlines had their highest number of airline delays at January by 6,796 delays. This number was decreased to become 2,643 delays at December of same year where most of their airline's delays are in Texas and Illinois states.

### Design:

Through this dashboard, we can simultaneously check where and when the airline delays are happened and by which airline company.

The Map are used to navigate the states to check the total number of airlines delays of airline companies.

Besides, timeline was expressed using Line chart to clearly show the progress of airline delays throughout 2015 in a monthly and daily basis. In addition, it allows to check the progress of each airline company contribution to the airline delays throughout the year in a monthly and daily basis.

### Dashboard Link:

<https://public.tableau.com/profile/abrar.alqahtani#!/vizhome/FlightDelays-Project6-AbrarAlQahtani/AirlineDelays?publish=yes>

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### Resources:

N/A

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