

## [Tableau Story Link](#)

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Millions of people decided to travel to their homes through airplanes but not all could make it as several flights got canceled Why is this happening?

I collected some visualizations in story that consist of workbooks ,dashboard and story I tried to answer the some questions for

### [1-Which Airlines has the most cancellations?](#)

Meanwhile ,Use bar chart for comparison As we Showing highest five Airlines makes the most flight cancellations and worst performance founded

in the United State 2015 ,while

first Southwest Airlines co canceled 818 Flights in 2015

Followed Atlantic southeast Airlines canceled 800 Flights in 2015

Third American Eagle Airlines inc. Canceled 723 Flights in 2015

If you've recently experienced a flight cancellation, you might be eligible you can find some of the best LOWEST flight cancellation like Hawaii Airlines inc in 2015

## 2-Why are Airlines canceled many flights?

In pie chart has been showing Accumulate composition the main reasons for flight cancellations between Airlines contend and showing the most Airlines canceled flights in 2015 because The reasons for cancellation are many, including

first the sever weather

who canceled total 2,397 Flights, rate 54.07% of Total cancellation followed

Followed Airline canceled 1,260 flights, rate 28.42% of Total cancellation

and National Air System canceled 776 flights rate 17.51% of Total cancellation

## 3-Which airlines have most cancellations 2015 because the sever whether?

In composition Action filters between pie chart and bar chart have been showing many flights being cancelled because due to extreme weather

we found The extent of the impact of bad weather on some airlines in increasing the rate of flight cancellations. We find that the highest cancellation rate was in

American Eagle Airlines inc had canceled Around 488 flights,  
followed by Southwest Airlines Co.had Canceled Around 446 flights ,  
American Airlines inc had canceled Around 329 flights,

#### 4-Which Month Grabs the most Flight Cancellations?

Area charts Showing for trend accumulative Value changes below the line fill up cancellation reasons out of all cancellations throughout the year found out weather is affected by seasonality it starts rising from January until march , and when we make composition Action filters with bar chart

American Eagle Airlines had largest month that happened to cancel in February Around 153 flights

Followed Southwest Airlines Co had cancel in February Around 147 flights

American Airlines inc had cancel in February Around 112 flights

National Air System had increase in February , June and August , Airline cancellations percentage had increase in June , July and August

Showing Hawaiian Airlines inc is best and lowest Cancellation how record 8 flight canceled in 2015 and showing that August and September is Best times to fly in the U.S And sever Weather one of main reasons for flight cancellation but happens only in seasonality

## 5-Why Do Flights Get Delayed So Often?

A Scatter plot it is appropriate to determine the delay time windows showing the relationship between two different variables where one correlates to another based on flight arrival delay and flight departure delay found strong positive correlation coefficient equal 0.945 that meaning the most delayed flights have been delayed in departure That mean departure delays cause flights delays in most of Airports in USA 2015

P-value: < 0.0001

Equation:  $\ln(\text{ARRIVAL\_DELAY}) = 0.792665 * \ln(\text{DEPARTURE\_DELAY}) + 0.584378$

### Coefficients

Term	Value	StdErr	t-value	p-value
$\ln(\text{DEPARTURE\_DELAY})$	0.792665	0.0023869	332.095	< 0.0001
intercept	0.584378	0.0079916	73.1242	< 0.0001

## 6-Which Airlines has the most FLIGHT DELAYS in USA 2015?

In bar chart showing the Top -Five USA Airports with the worst flights delays based on departure delay minutes ,

Chicago O' Hare international Airport Who  
delayed flights: 200,115 Departures rate 27.15%

Hartsfield- jackson Atlanta international Airport who  
delayed flights: 167,006 Departures rate 22.66%

Dallas / Fort Worth international Airport  
delayed flights: 145,239 Departures rate 19.71%

Denver international Airport  
delayed flights: 117,745 Departures rate 15.98%

Los Angeles international Airport  
delayed flights: 106,948 Departures rate 14.51%

## 7- Which State has the most FLIGHT DELAYS in USA 2015?

in map showing the Top USA States with the worst flights delays based on departure delay minutes and make composition Action filters with bar chart for showing worst Airport located in that state how record the highest delayed

California (CA) state who delayed Flight 13.04% Departure and worst Airport located in that state Los Angles International Airport who delayed Flight 26,162 departure

Texas (TX) state who delayed Flight 11.71% Departure and worst Airport located in that state Dallas / Fort worth international Airport who delayed Flight 19,649 departure

Florida (FL) state who delayed Flight 8.57%Departure and worst Airport located in that state Hartsfield jackson atlanta international Airport who delayed Flight 41.48 departure

Illinois (IL) state who delayed Flight 7.90%Departure and worst Airport located in that state Hartsfield jackson atlanta international Airport who delayed Flight 10,011 departure

New York (NY) state who delayed Flight 6.40%Departure and worst Airport located in that state Chicago O hare international Airport who delayed Flight 16,032 departure

This report is supported by graphs that show the worst airline companies in the high rate of flight cancellations, as well as the worst airports in the high percentage of delays. It also includes the worst months in the high percentage of cancellations and delays, as well as what are the most important reasons for disrupting flights

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Resources N/A