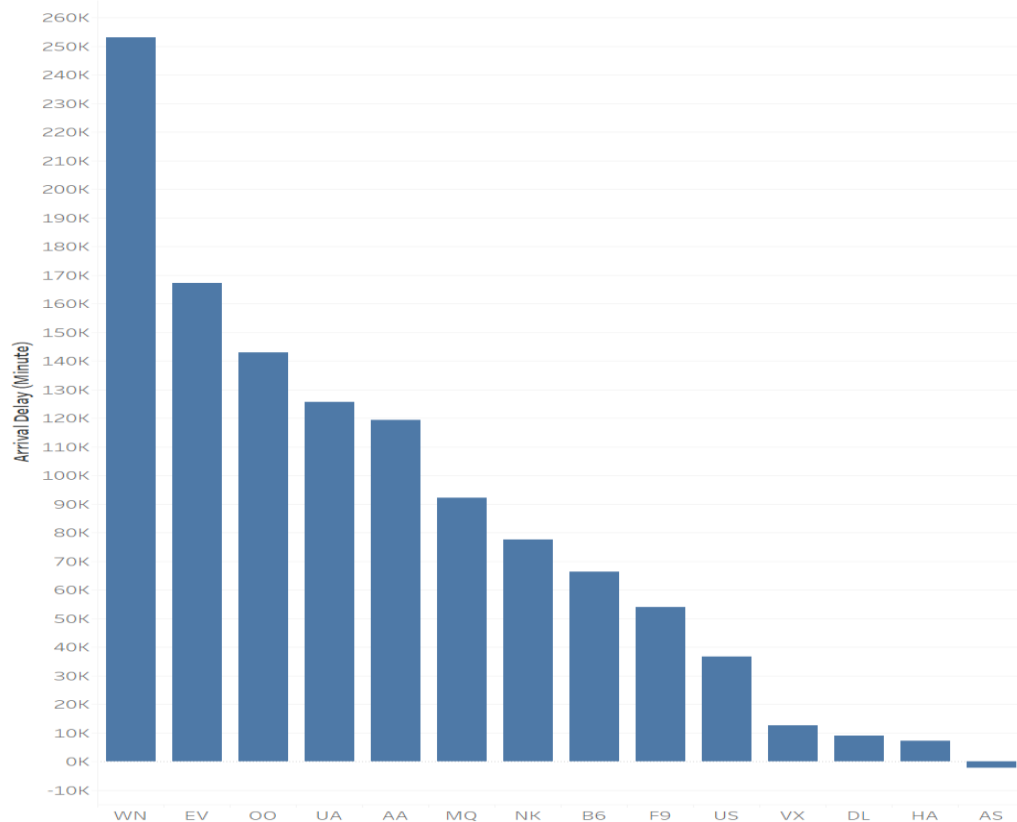


2015 US large domestic Air Carriers Arrival Delay Distribution

Airline Arrival Delays Distribution (2015)



Summary

The bar chart shows the distribution of arrival delays of US domestic flights operated by large air carriers in 2015.

Insight

In 2015, airline WN has the worst arrival delays (289,992 minutes), EV and OO come next (187,908 and 166,148 minutes, respectively). On the other hand, AS, in general, has no delay but early arrivals (4,007 minutes).

Design

Bar charts are for categorical variables.

Link

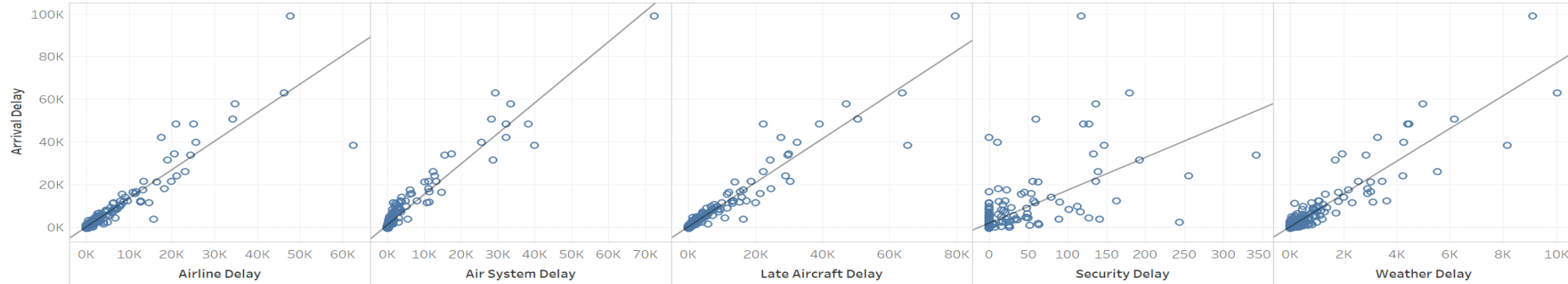
<https://public.tableau.com/profile/chris5448#!/vizhome/AirlineArrivalDelaysDistribution/AirlineArrivalDelaysDistribution2015?publish=yes>

Resources

N/A

2015 US large domestic Air Carriers Arrival Delay and underlying Causes

Airline Arrival Delays Causes (2015)



Summary

The scatter plots show correlations between variable Arrival Delay and Airline Delay, Air System Delay, Late Aircraft Delay, Security Delay and Weather Delay, respectively.

Insight

All P-values shown above (clicking on the trend lines) are less than 0.0001, so all the correlations are statistically significant at the level of 5%. R-Squared values shown in the first, second, third and fifth scatter plots are greater than 0.7, so these correlations are strong. The R-Squared value (0.39) shown in the fourth scatter plot is greater than 0.3 and less than 0.7, so the correlation is moderate. Since the slopes shown in all these scatter plots are positive, so these correlations are positive.

Design

Scatter plots are for plotting correlation between two quantitative variables.

Link

<https://public.tableau.com/profile/chris5448#!/vizhome/AirlineArrivalDelaysDistribution/AirlineArrivalDelaysCauses2015?publish=yes>

Resources

N/A

2015 US Airport Arrival Performance

Summary

The dashboard shows US airports' performance in terms of airline arrival delays in 2015.

Insight

In 2015, Chicago O'Hare International Airport has the worst arrival delay performance (98,900 minutes); Dallas Fort Worth and Los Angeles International Airport rank second (63,052 minutes) and third (57,835 minutes), respectively. On the contrary, Gillette Campbell Country Airport has no delays in general but early arrivals (471 minutes); Evansville Regional Airport and Toledo Express Airport come next with 450 and 436 early arrivals, respectively.

Design

The dashboard consists of a geographical map and a horizontal bar chart. The map is an ideal choice to display distribution of locations, US airports in this context. Arrival delay performance of those airports are distinguished by the intense of color. Since the variable Airport is categorical, the bar chart is used to plot their arrival delays distribution which are ranked in descending order. Variable Airport is added to the Tooltip in the map, Country, State and City are added to the Tooltip in the bar chart, so more detailed information can be displayed. The default performance is for a whole year (2015), but it can be filtered by months.

Link

https://public.tableau.com/profile/chris5448#!/vizhome/project_15920165329030/AirportPerformance2015?publish=yes

Resources

N/A