FLIGHT DELAY ANALYSIS | Carrier delay & NAS delay

Year

All

Departure time

All

Flight length

All

Airline

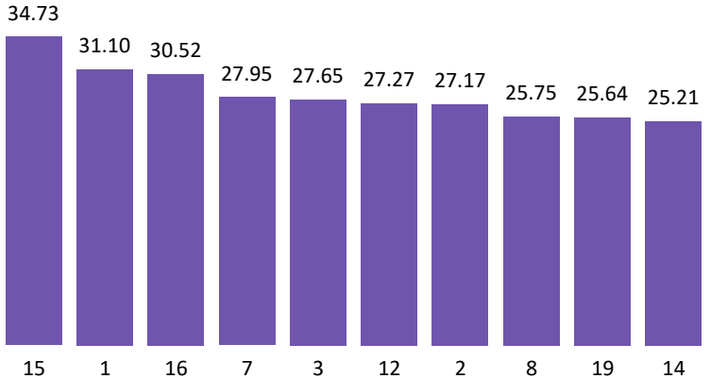
All

Route

All

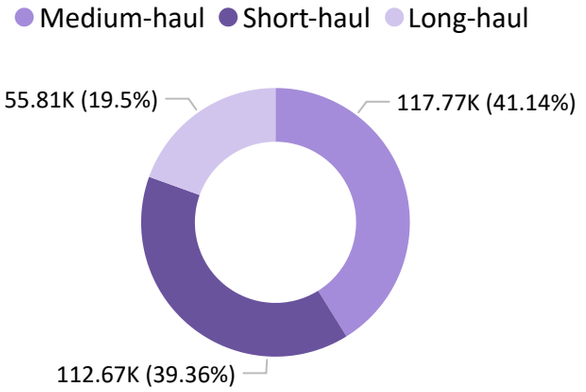
Top 10 aircrafts with highest utilization rates

Hour per day



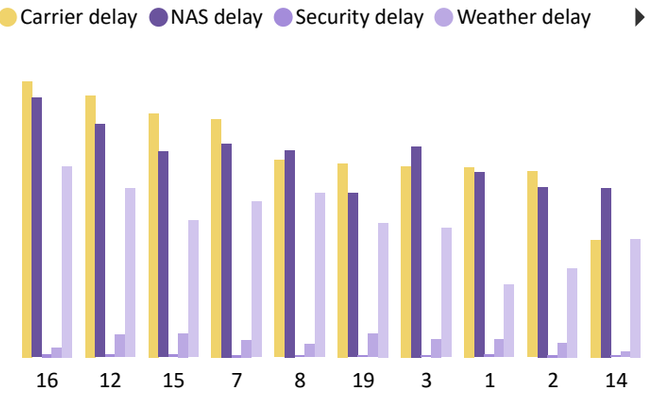
Number of aircrafts by Flight length

Top 10 aircrafts with highest utilization rates

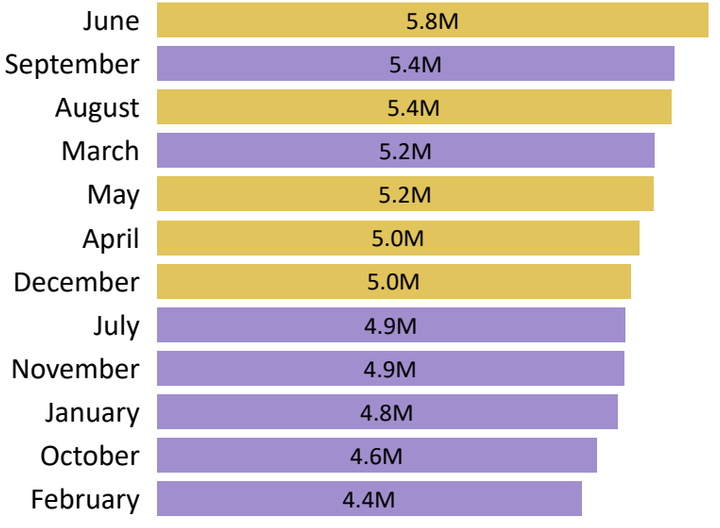


Number of delayed flights by Reason

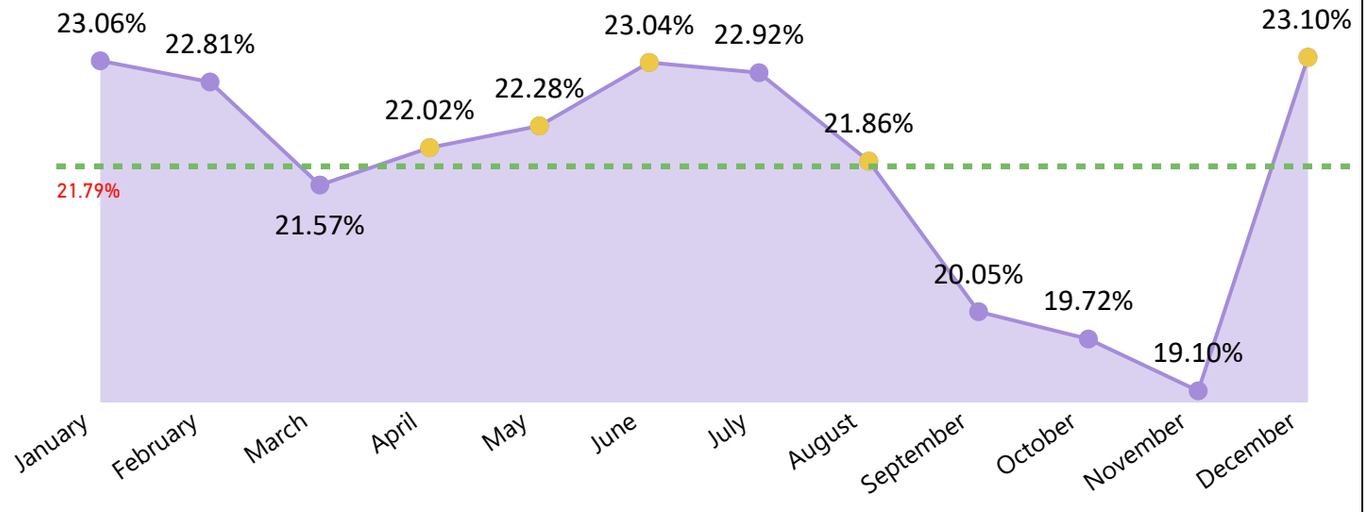
Top 10 aircrafts with highest utilization rates



Number of flights by Month



% NAS delay by Month



FLIGHT DELAY ANALYSIS | Late aircraft delay & Weather delay

Year
All

Departure time
All

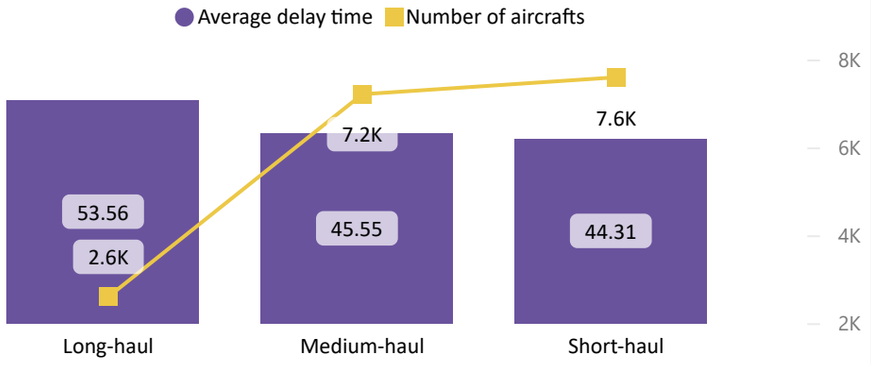
Flight length
All

Airline
All

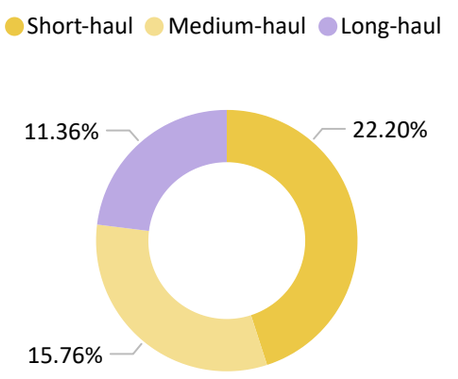
Route
All

Relationship between Average delay time per flight & Number of aircrafts

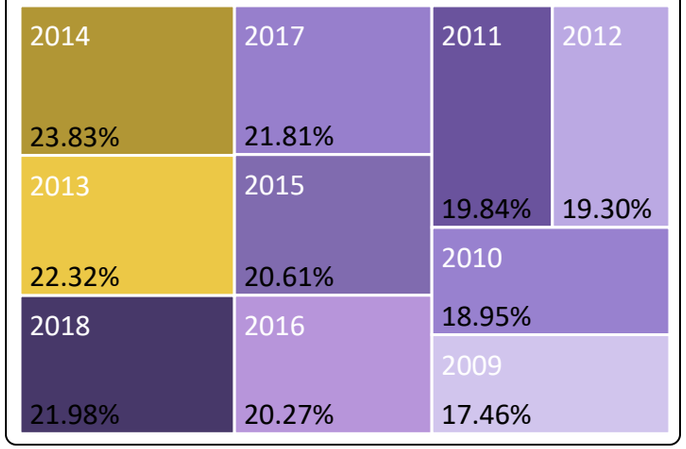
Late aircraft delay



% Late aircraft delay by Flight length

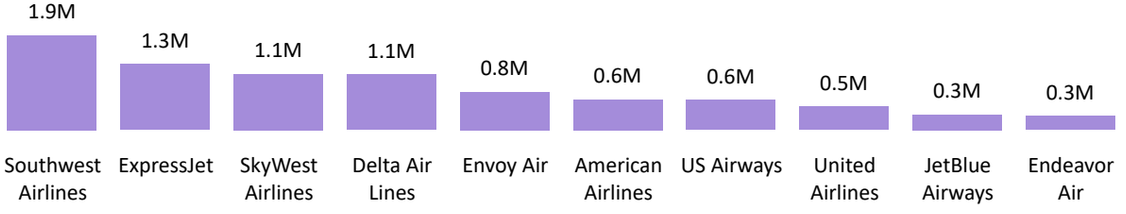


% Late aircraft delay by Year



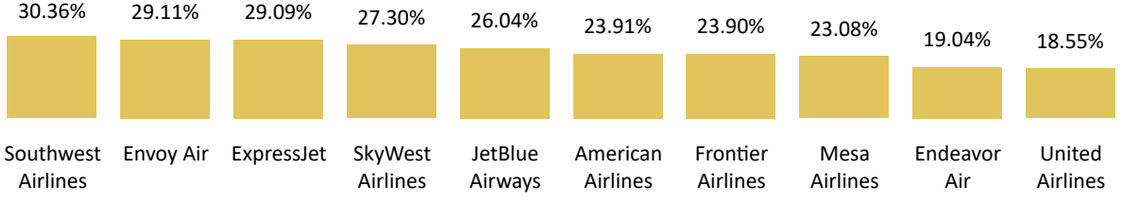
Top 10 airlines with highest number of flights

Short-haul flights in 2013 & 2014



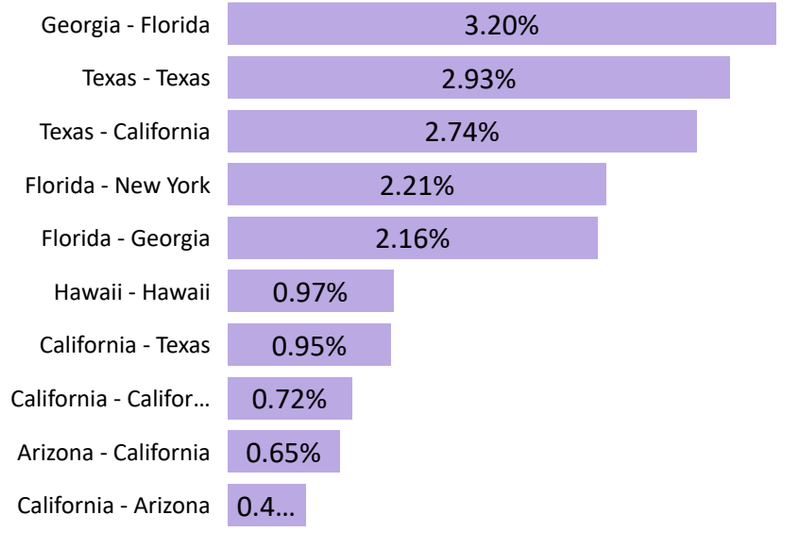
Top 10 airlines with highest % late aircraft delay

Short-haul flights in 2013 & 2014



% Weather delay by Flight route

10 routes with highest number of flights



FLIGHT DELAY ANALYSIS | Recommendations to minimize flight delay

Carrier delay	Invest in newer, more advanced aircrafts which require less maintenance compared to older ones.
NAS delay	Encourage customers to choose flights during off-peak times by offering them lower flight fares, which helps manage demand for the busy routes.
Late aircraft delay	Adjust the turnaround time among the short-haul flights and/ or investing in more aircrafts to lower the chance of delays.
Weather delay	Use more advanced weather forecasting technology to better predict the possible delays in the states with severe weather.