

## **2015 Flight Delay and Cancellation Analysis**

The main questions/targets for the analysis are:

- i) Top 5 US Cities and States with the most delayed and cancelled flights.
- ii) Top 5 US Airlines and Airports with the most delayed and cancelled flights.
- iii) Average Arrival Delays by day of week and month
- iv) Cancellation by day of week and month
- v) What are the main reasons for Delays and Cancellations?
- vi) Count of total flights, delayed flights, cancelled flights and diverted flights
- vii) Average arrival delay, Maximum arrival delay

Note: Flights with an arrival delay of more than or equal to 15 minutes are considered arriving late. So, the entire arrival delay analysis is on this basis.



# Delay Flights 2015

6M

Total Flights

1M

Delay Flights

58.91

Average Delay (mins)

1971

Maximum Arrival Del...

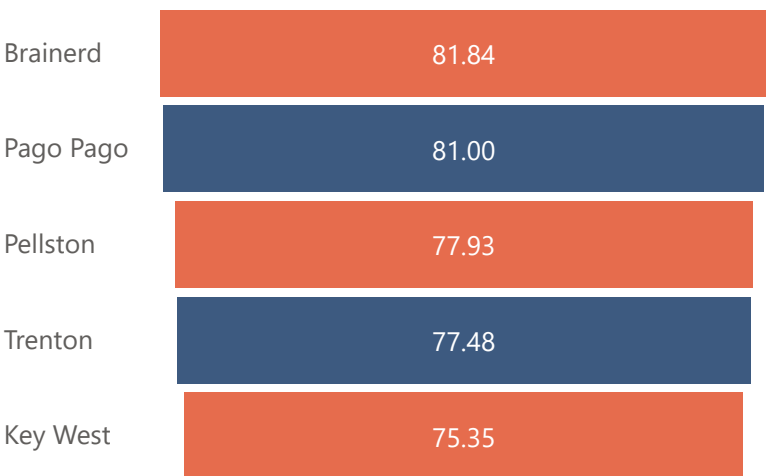
=33Hours

15K

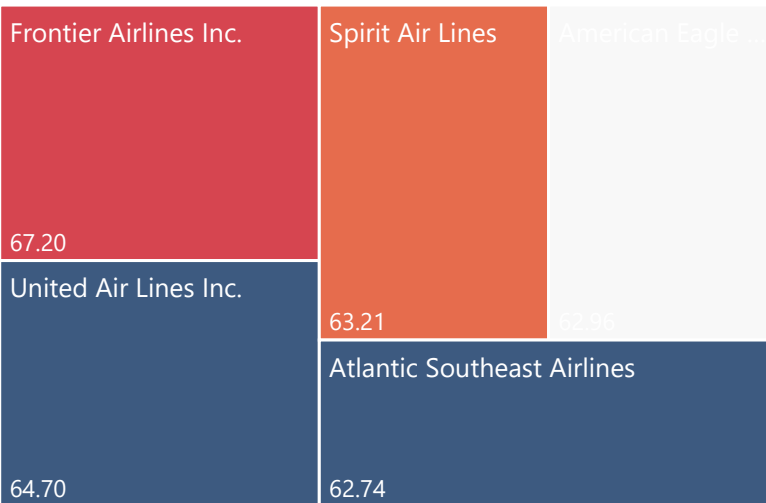
Diverted Flights

Bookmark  
(Mondays)

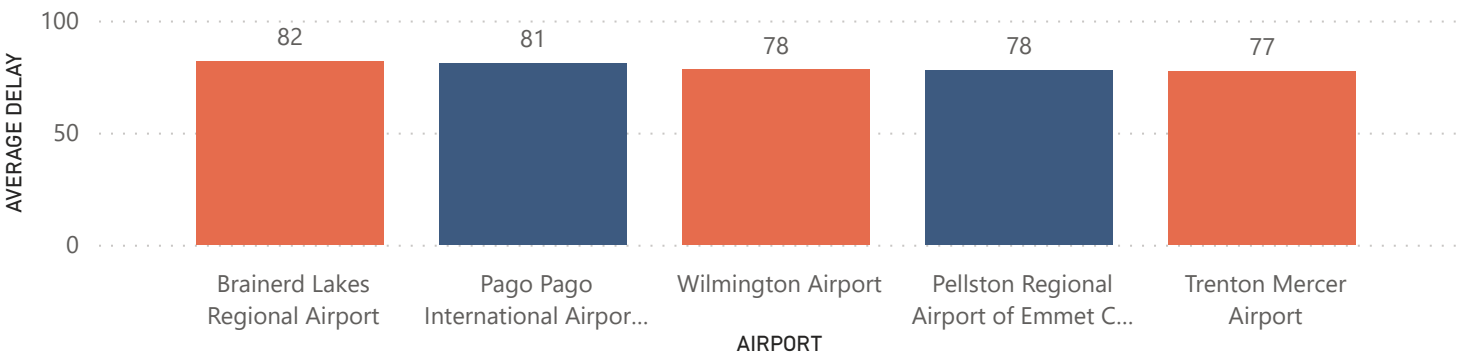
## Average delay (Top 5 Cities)



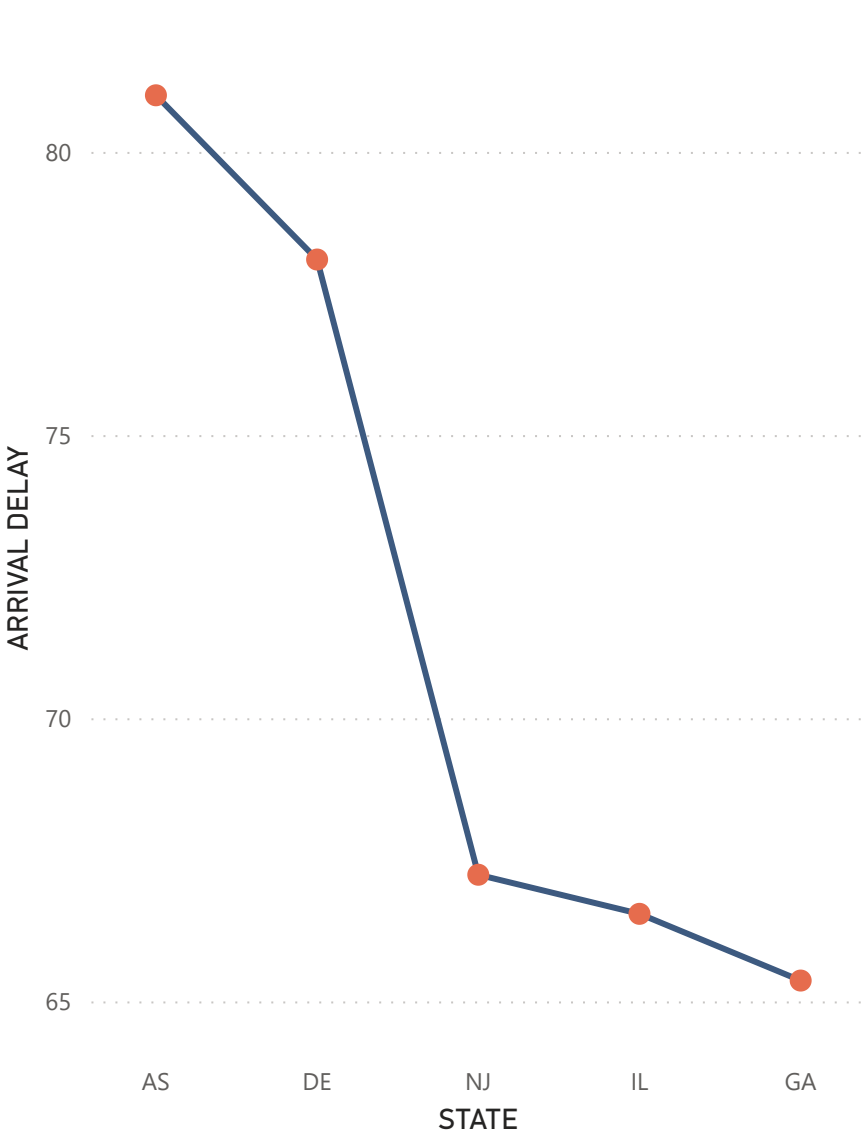
## Average Delay (Top 5 Airlines)



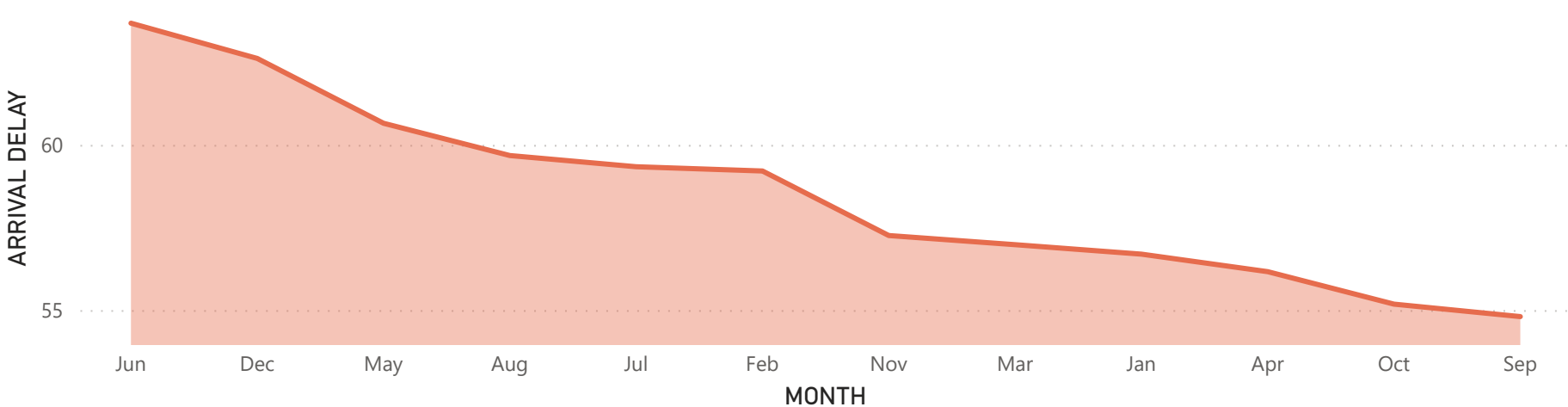
## Average Delay (Top 5 Airports)



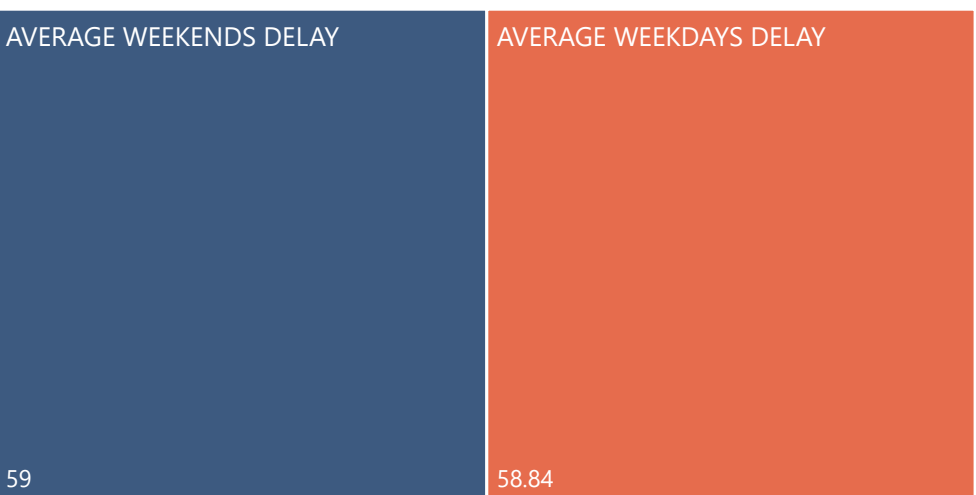
## Average Delay (Top 5 States)



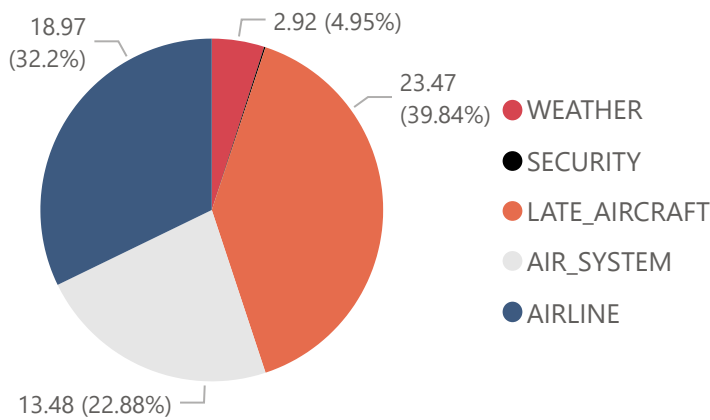
## Average Delay by Month



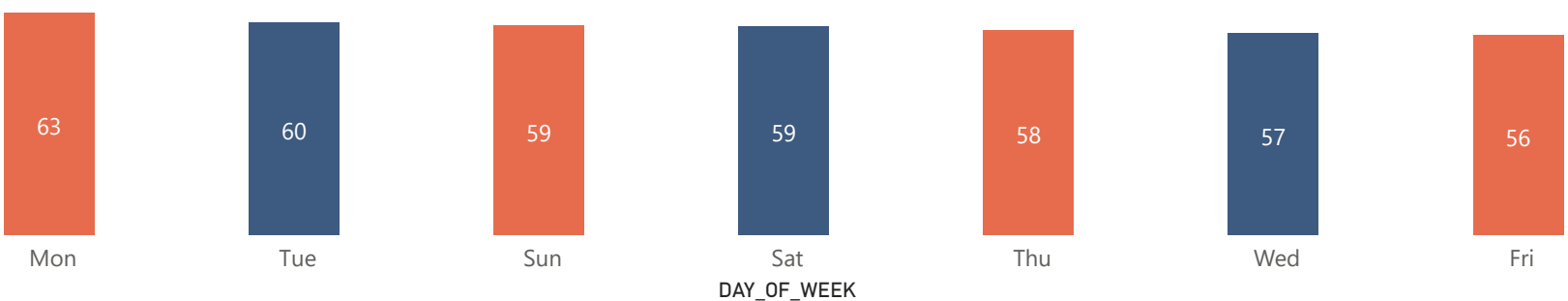
## Average Delay (Weekdays vs Weekends)



## Cause of Delay



## Average Delay (Day of Week)





# Cancelled Flights 2015

6M

Total Flights

Bookmark...

90K

Cancelled Flights

## AIRLINE

☐ AA

☐ AS

☐ B6

☐ DL

☐ EV

☐ F9

☐ HA

☐ MQ

☐ NK

☐ OO

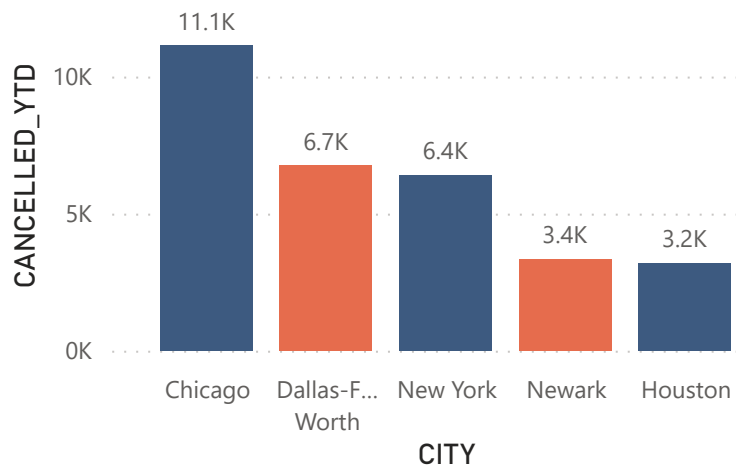
☐ UA

☐ US

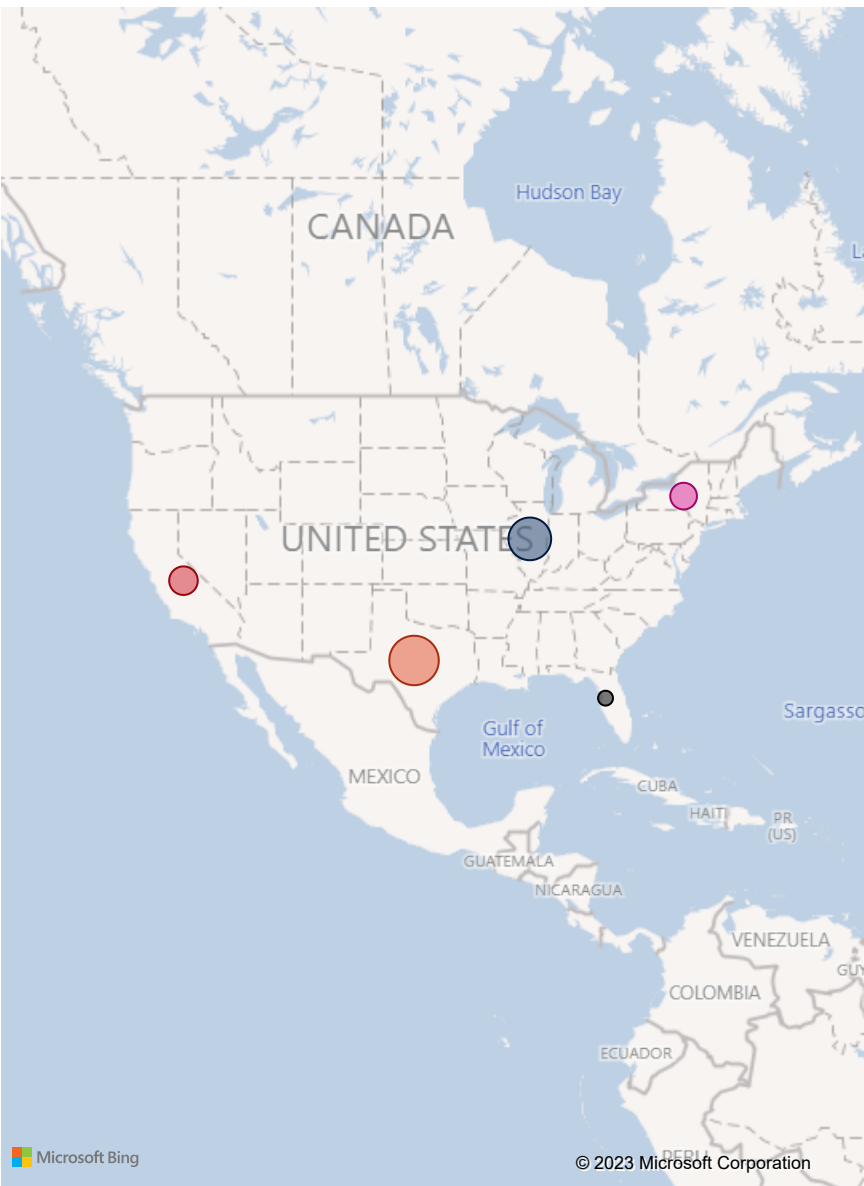
☐ VX

☐ WN

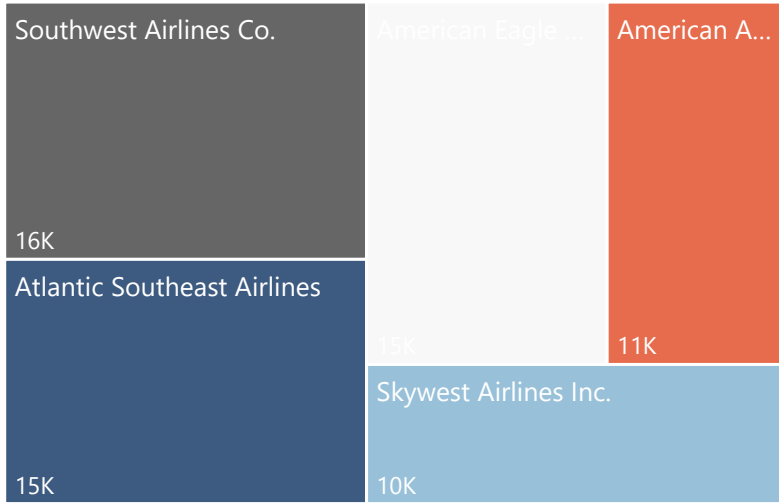
## Cancellation (Top 5 Cities)



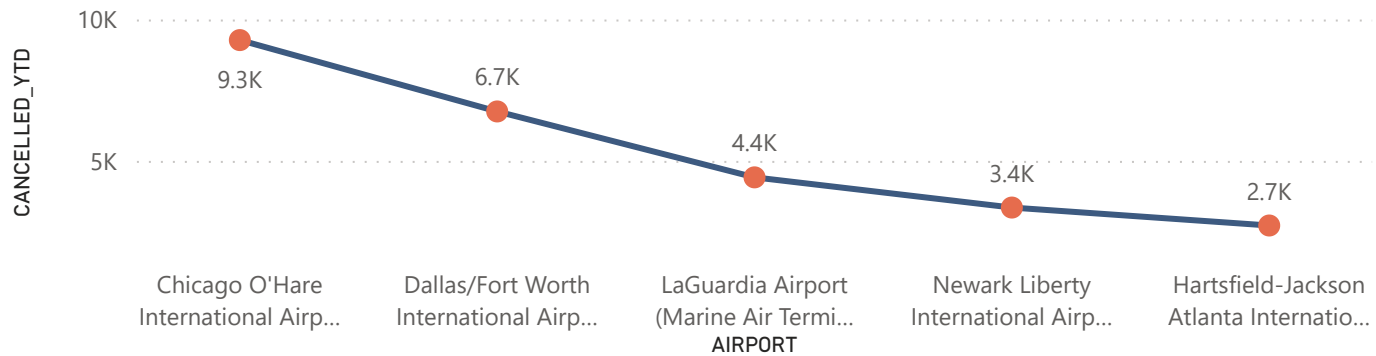
## Cancellation (Top 5 States)



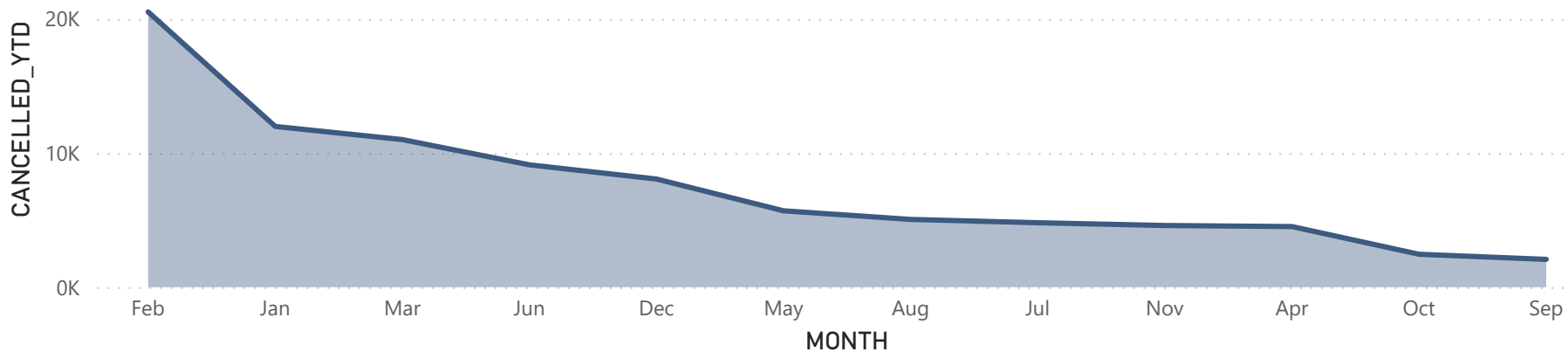
## Cancellation (Top 5 Airlines)



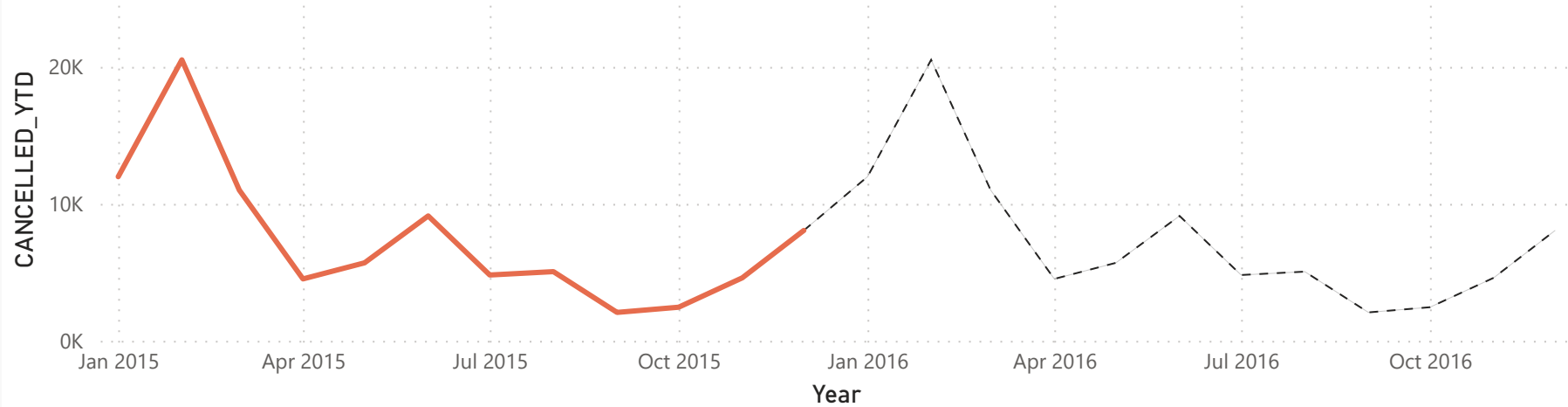
## Cancellation (Top 5 Airports)



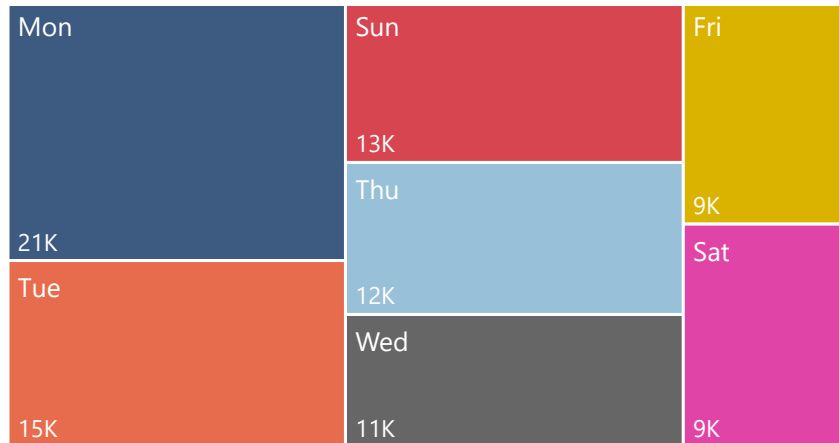
## Cancellation by Month



## Cancellation Forecasting for the year 2016



## Cancellation by Day of Week



## Cancellation Reason

