



AltitudeAviationConsultancy

# US FLIGHT DATA 2023

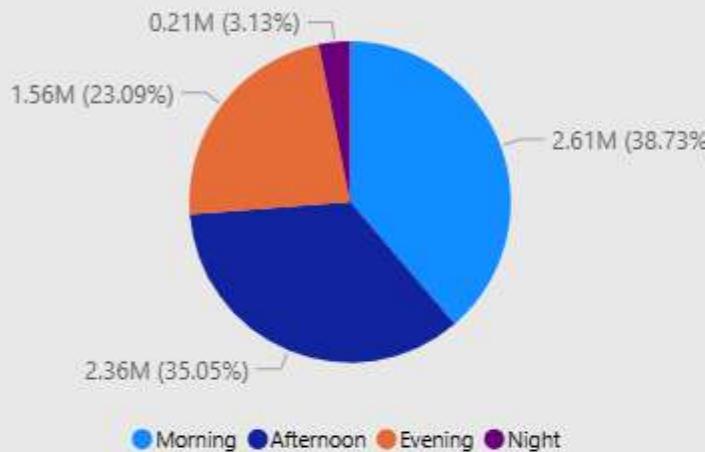
Airline

Alaska Airlines Inc.

Allegiant Air

American Airlines Inc.

## Departure Type by Time



## Flights

6.74M

## Airlines

15

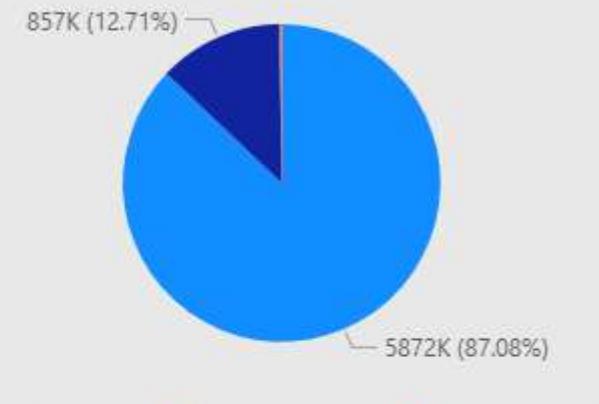
## Avg. Flight Duration (mins)

140.30

## Number of Airports

364

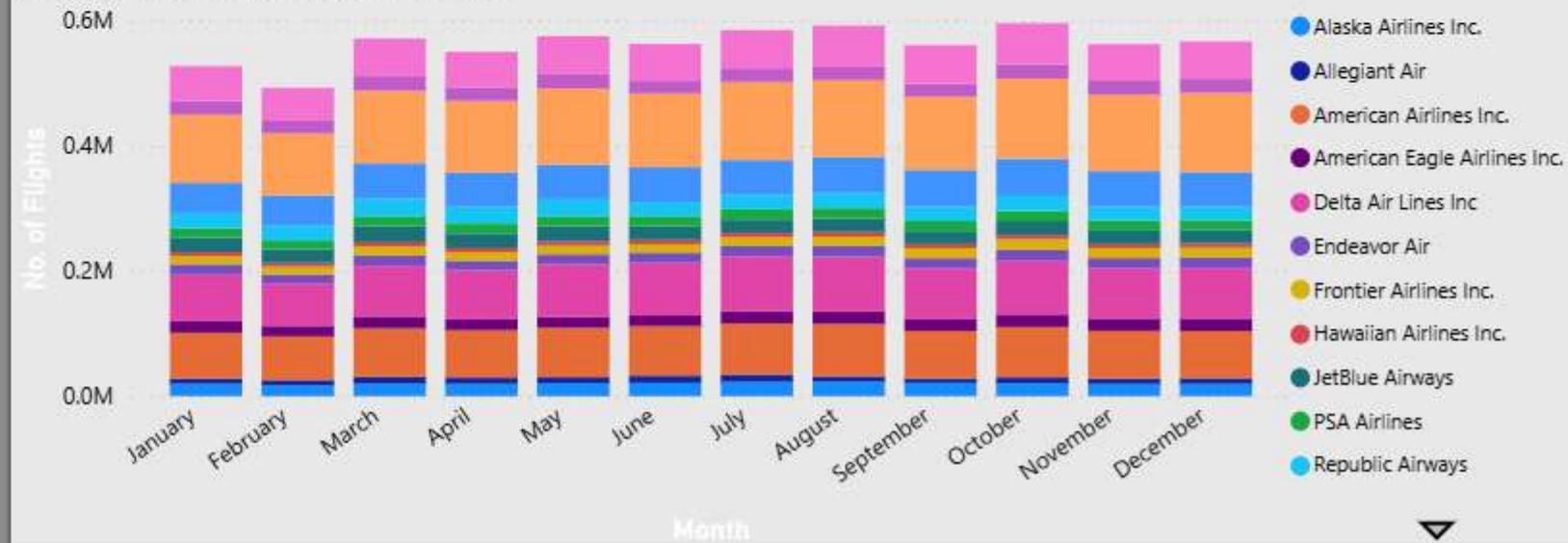
## Flight Distance Type



## Airline Ranking by Flights



## No. of Flights by Month and Airline





AltitudeAviationConsultancy

## FOCUS ON DELAY

Delay by Category in mins.

Carrier Delay

5.17

Last Aircraft...

5.68

NAS Delay

2.57

Security Delay

0.03

Weather Delay

0.74

Airline

Alaska Airlines Inc.

Allegiant Air

American Airlines Inc.

American Eagle Airlin...

Delta Air Lines Inc

Endeavor Air

Frontier Airlines Inc.

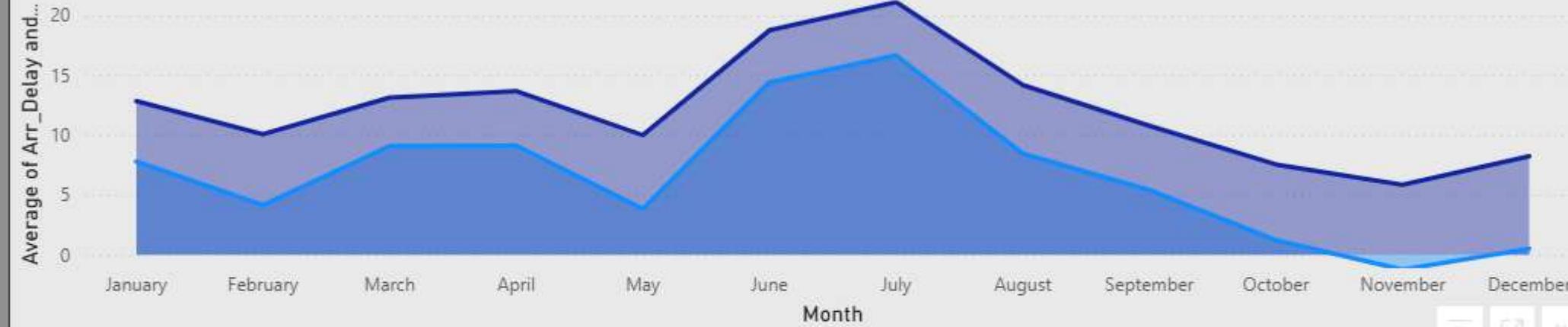
Hawaiian Airlines Inc.

JetBlue Airways

PSA Airlines

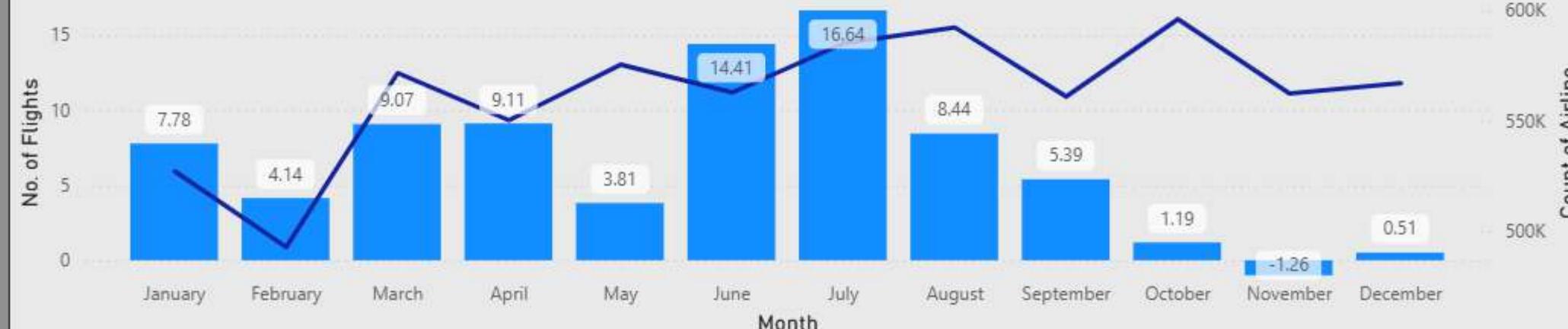
### Relation between Departure and Arrival Delays

● Average of Arr\_Delay ● Average of Dep\_Delay



### Monthly distribution of Late Arrivals

● Average of Arr\_Delay ● Count of Airline





## LOCALIZING DELAYS

6.74M

Total Flights

12.20

Avg. Departure Delay

6.63

Avg. Arrival Delay

## Airline

Alaska Airlines Inc.

Allegiant Air

American Airlines Inc.

American Eagle Airli...

Delta Air Lines Inc

Endeavor Air

Frontier Airlines Inc.

Hawaiian Airlines Inc.

JetBlue Airways

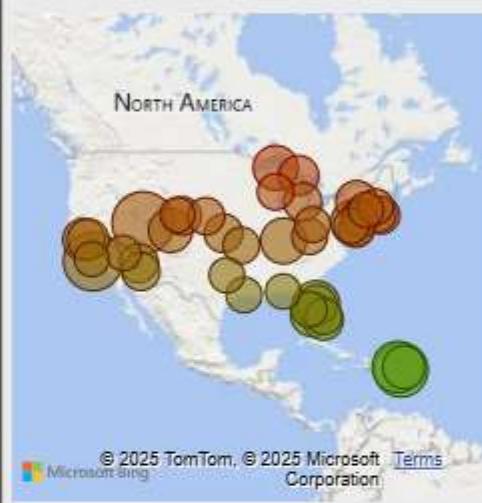
PSA Airlines

Republic Airways

## Airports by on time/delayed Departure

AIRPORT	City	Avg. Departure Delay (min)	Avg. Rain (mm)	Avg. Wind Speed (km/h)
Aberdeen Regional Airport	Aberdeen	-4.52	1,015.89	15.66
Abilene Regional Airport	Abilene	2.22	1,014.61	16.45
Abraham Lincoln Capital Airport	Springfield	2.40	1,016.21	13.87
Adak Airport	Adak	-6.05	1,008.73	22.95
Akron-Canton Regional Airport	Akron	6.28	1,016.42	13.78
Albany International Airport	Albany	7.33	1,015.74	11.12
Albert J. Ellis Airport	Jacksonville	0.74	1,017.32	9.15
Albuquerque International Sunport	Albuquerque	5.94	1,014.55	13.52
Alexandria International Airport	Alexandria	2.11	1,016.25	6.61
Alpena County Regional Airport	Alpena	5.96	1,015.71	10.78

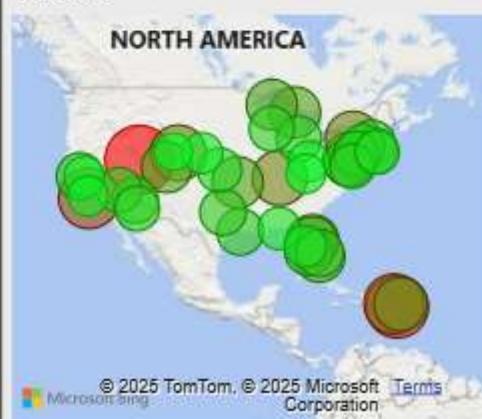
## Avg. Arrival Delay more than 10 min



## Airport by on Time/ delayed Arrival

AIRPORT	City	Avg. Arrival Delay (min)	Avg. Rain (mm)	Avg. Wind Speed (km/h)
Westerly State Airport	West Yellowstone	-5.38	1,021.65	9.35
Gunnison-Crested Butte Regional Airport	Gunnison	6.55	1,021.10	7.66
Mammoth Yosemite Airport	Mammoth Lakes		1,020.63	9.53
Jackson Hole Airport	Jackson	6.61	1,020.50	10.85
Yampa Valley Airport (Yampa Valley Regional)	Hayden	7.43	1,018.66	12.03
Friedman Memorial Airport	Hailey	-1.09	1,018.61	11.65

## Avg. Departure Delay more than 10 min



## Manufacturer

AIRBUS

BOEING

CANADAIR ...

DIAMOND ...

EMBRAER



AltitudeAviationConsultancy

# DELAY ABSORPTION

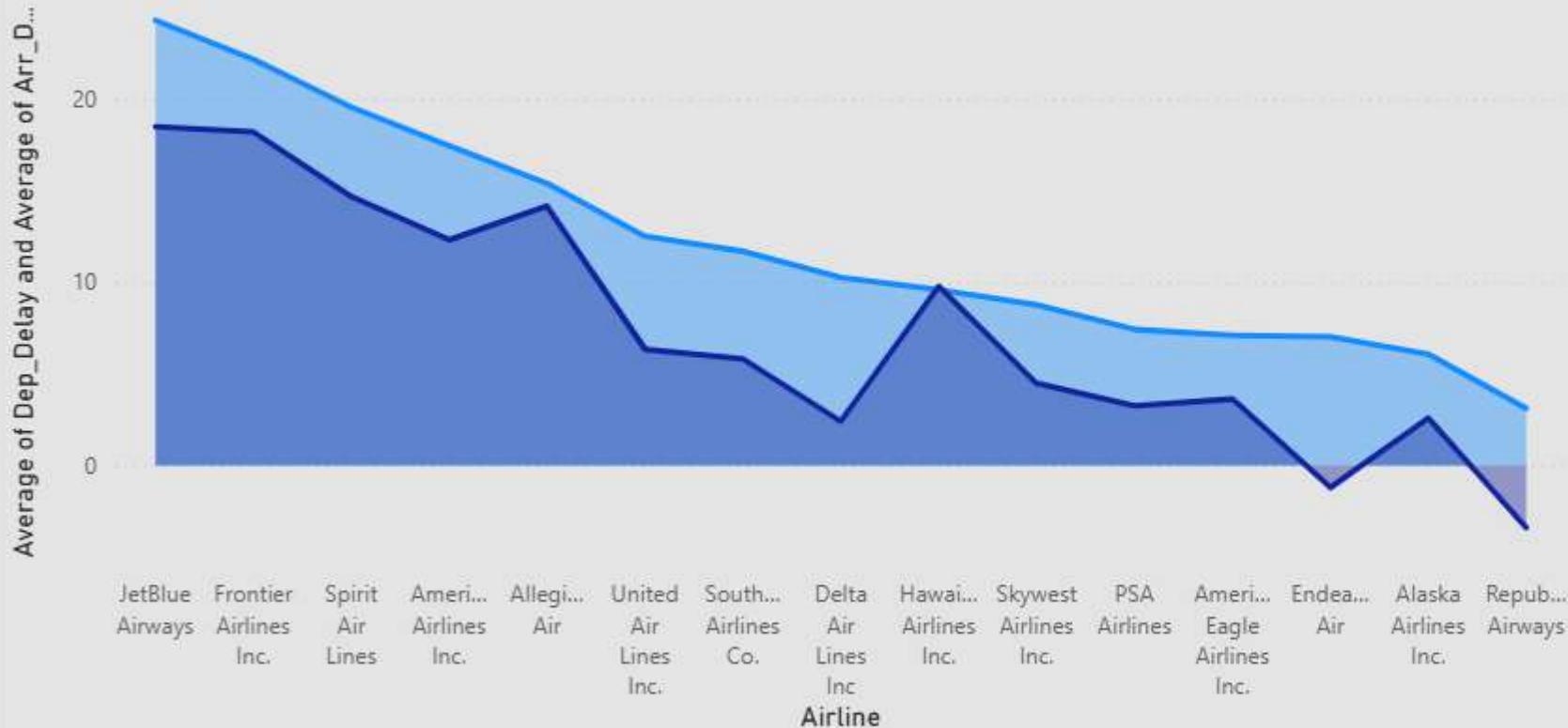
Distance\_type

Long Haul &lt;6000Mi

Medium Haul &lt;3000Mi

Short Haul &gt;1500Mi

Average of Dep\_Delay and Average of Arr\_Delay by Airline

Average of Dep\_Delay Average of Arr\_Delay


Airline	Avg. Delay Absorbed	Total Flights
Endeavor Air	-8.22	0.20M
Delta Air Lines Inc	-7.83	0.97M
Republic Airways	-6.49	0.29M
United Air Lines Inc.	-6.17	0.72M
Southwest Airlines Co.	-5.88	1.42M
JetBlue Airways	-5.80	0.27M
American Airlines Inc.	-5.13	0.93M
Spirit Air Lines	-4.88	0.26M
Skywest Airlines Inc.	-4.30	0.66M
PSA Airlines	-4.17	0.19M
Frontier Airlines Inc.	-3.97	0.17M
Alaska Airlines Inc.	-3.49	0.24M
American Eagle Airlines Inc.	-3.48	0.22M
Allegiant Air	-1.25	0.11M
Hawaiian Airlines Inc.	0.18	0.08M

Month

January

February

March

April

May

June

July

August

Septemb...

October

November

December



# ROUTE BASED ANALYSIS

Date

1/1/2023

12/31/2023

## Airline

Alaska Airlines Inc.

Allegiant Air

American Airlines Inc.

American Eagle Airli...

Delta Air Lines Inc

Endeavor Air

Frontier Airlines Inc.

Hawaiian Airlines Inc.

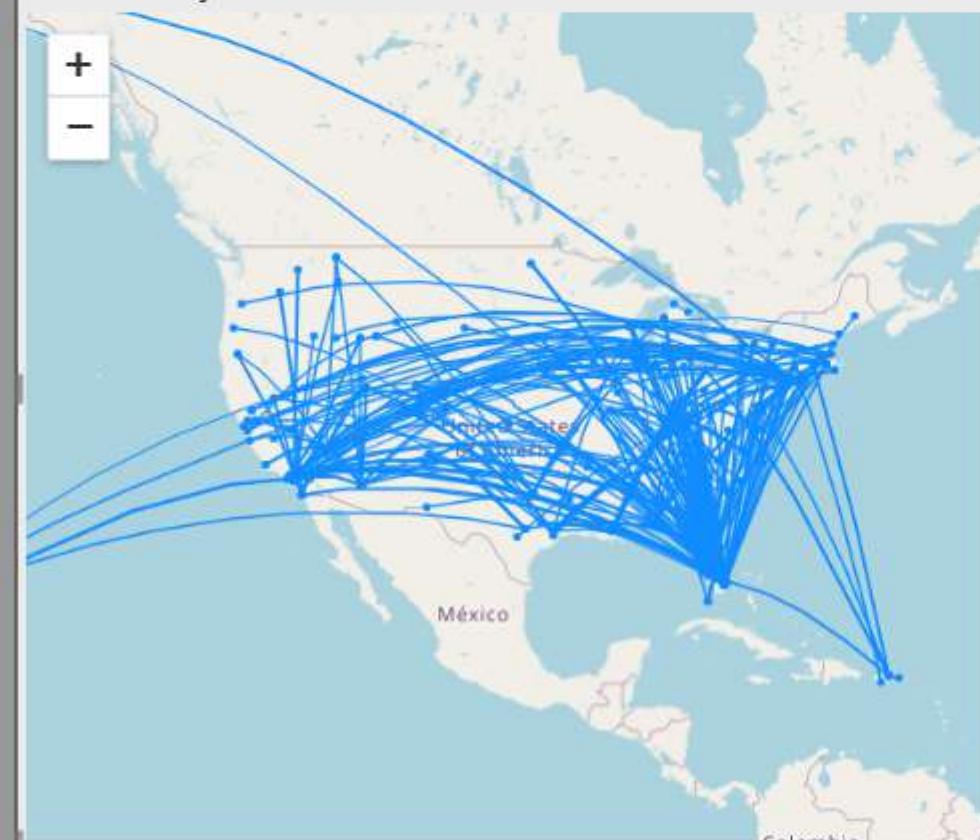
JetBlue Airways

PSA Airlines

Republic Airways

ABE → ATL

Departure and arrival Routes with more than 30 minutes of arrival delay



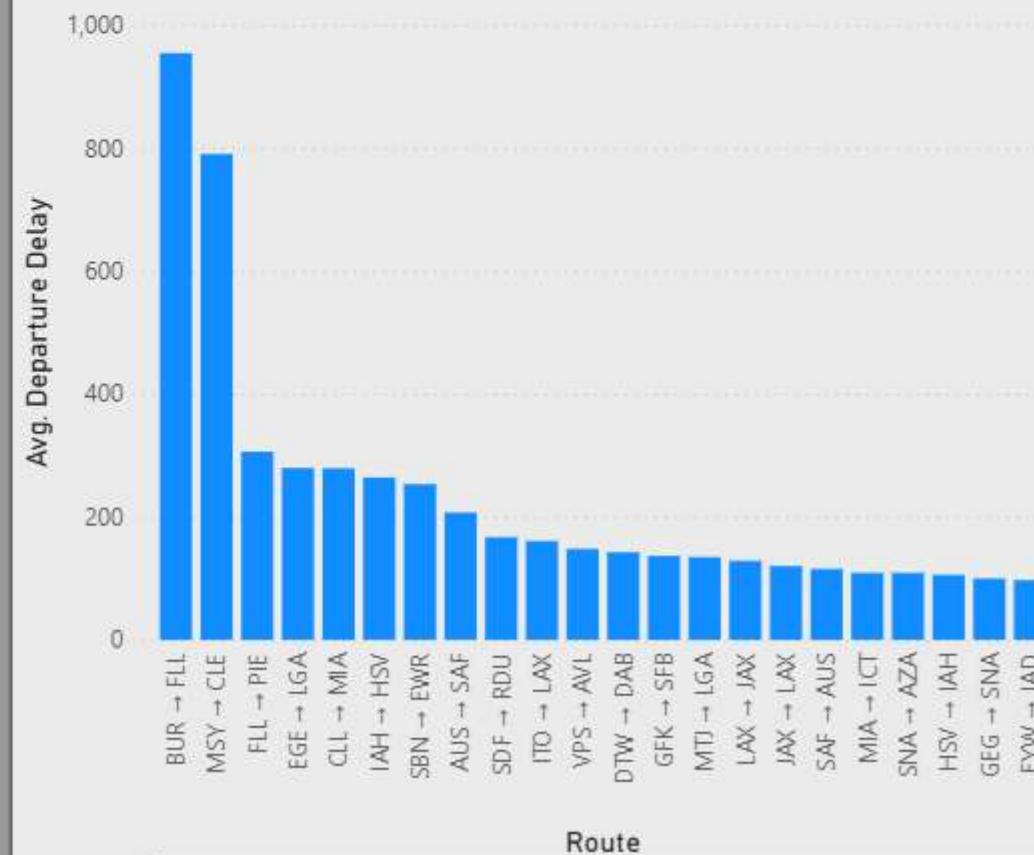
## Distance\_type

Long Haul &lt; 6000Mi

Medium Haul &lt; 3000...

Short Haul &gt; 1500Mi

## Avg. Departure Delay by Route





# DELAY CORRELATION

Airline

Alaska Airlines Inc.

Allegiant Air

American Airlines Inc.

American Eagle Airl...

Correlation of Arrival delay with different types of Delays



Correlation between Departure and Arrival Delay

