



US FLIGHT DATA 2023

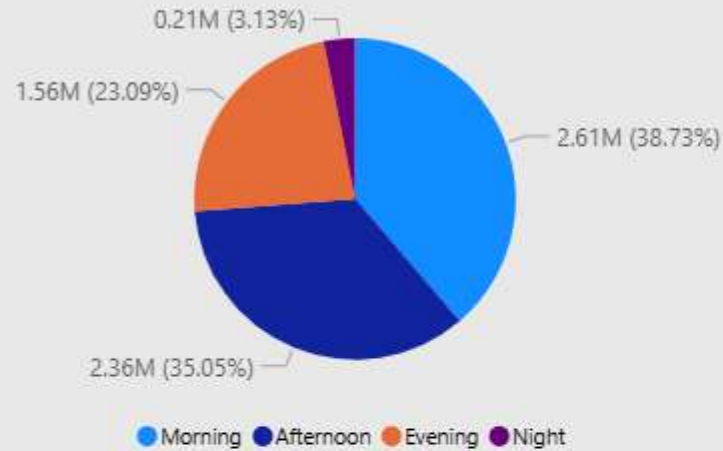
Airline

Alaska Airlines Inc.

Allegiant Air

American Airlines Inc.

Departure Type by Time



Flights

6.74M

Avg. Flight Duration (mins)

140.30

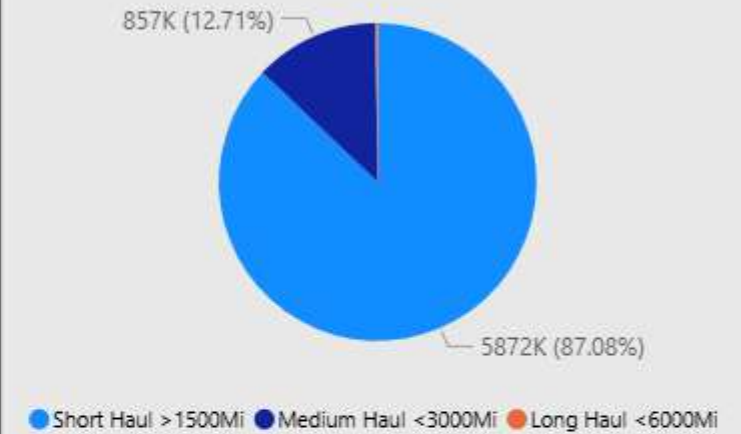
Airlines

15

Number of Airports

364

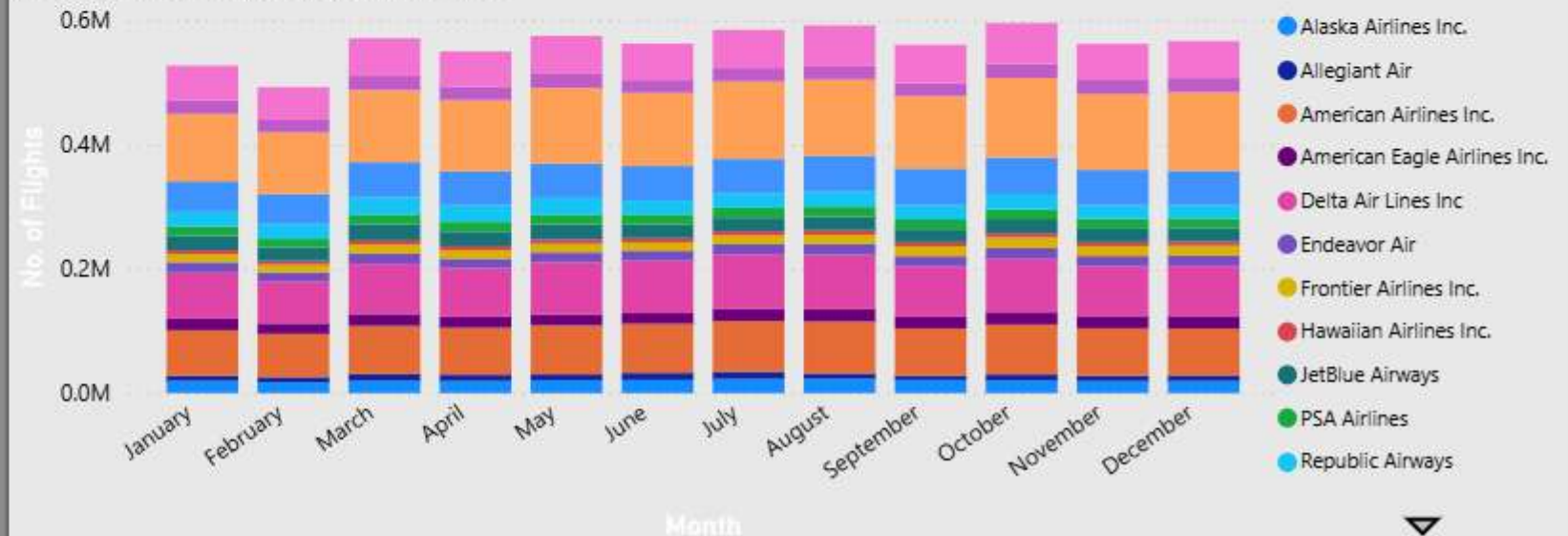
Flight Distance Type



Airline Ranking by Flights



No. of Flights by Month and Airline





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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.

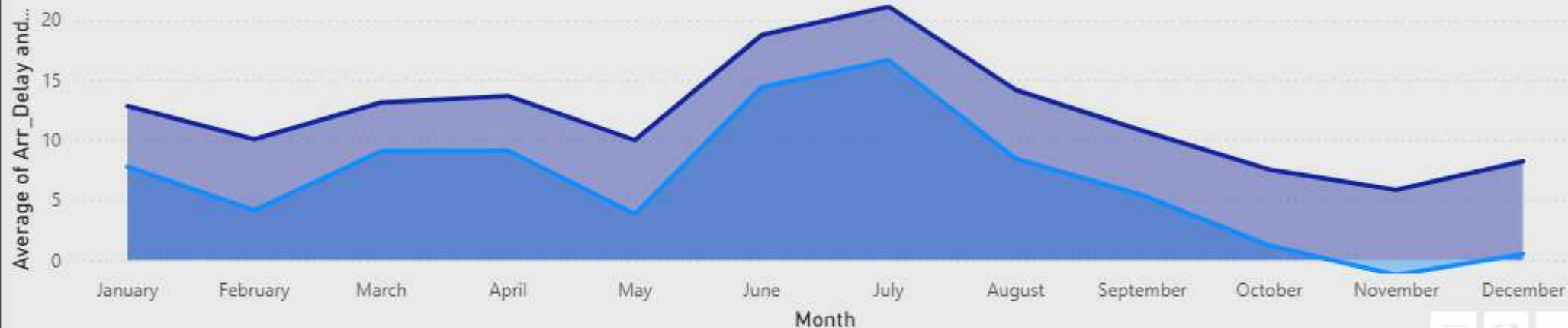
Hawaiian Airlines Inc.

JetBlue Airways

PSA Airlines

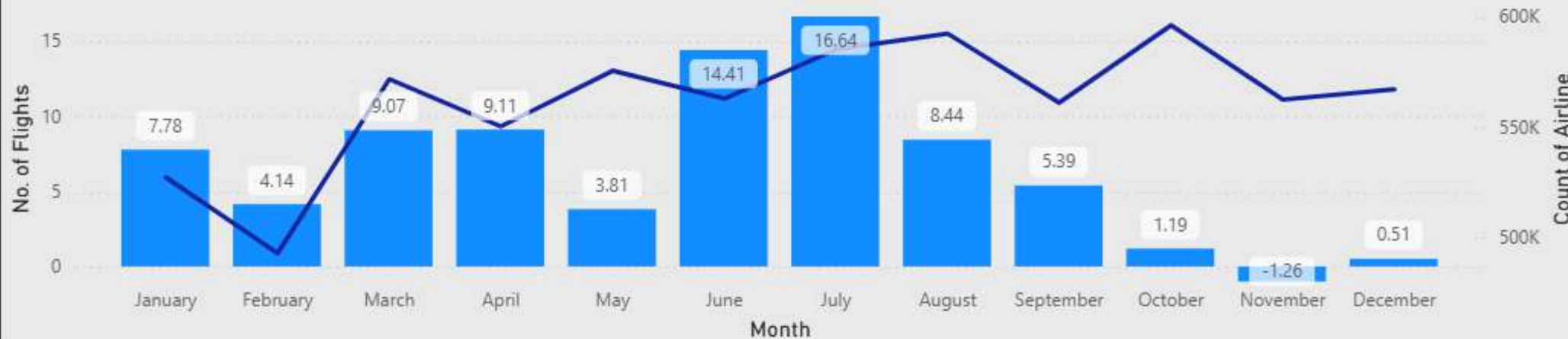
Relation between Departure and Arrival Delays

● Average of Arr_Delay ● Average of Dep_Delay



Monthly distribution of Late Arrivals

● Average of Arr_Delay ● Count of Airline





Altitude Aviation Consultancy

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

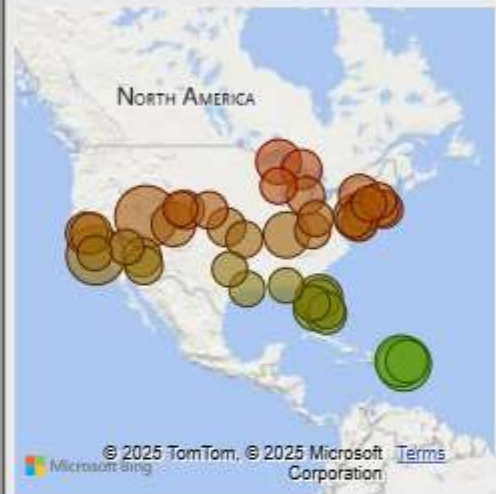
Airports by on time/delayed Departure

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

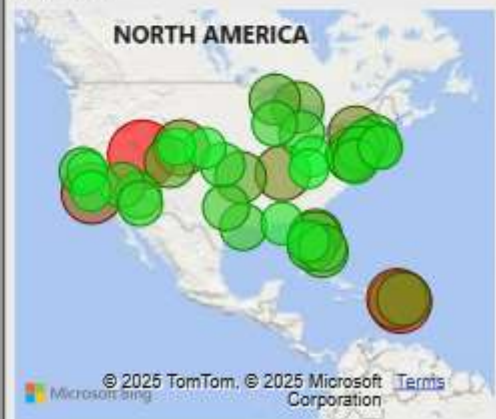
Airport by on Time/ delayed Arrival

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. Arrival Delay more than 10 min



Avg. Departure Delay more than 10 min



Manufacturer

AIRBUS

BOEING

CANADAIR ...

DIAMOND ...

EMBRAER



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DELAY ABSORPTION

Distance_type

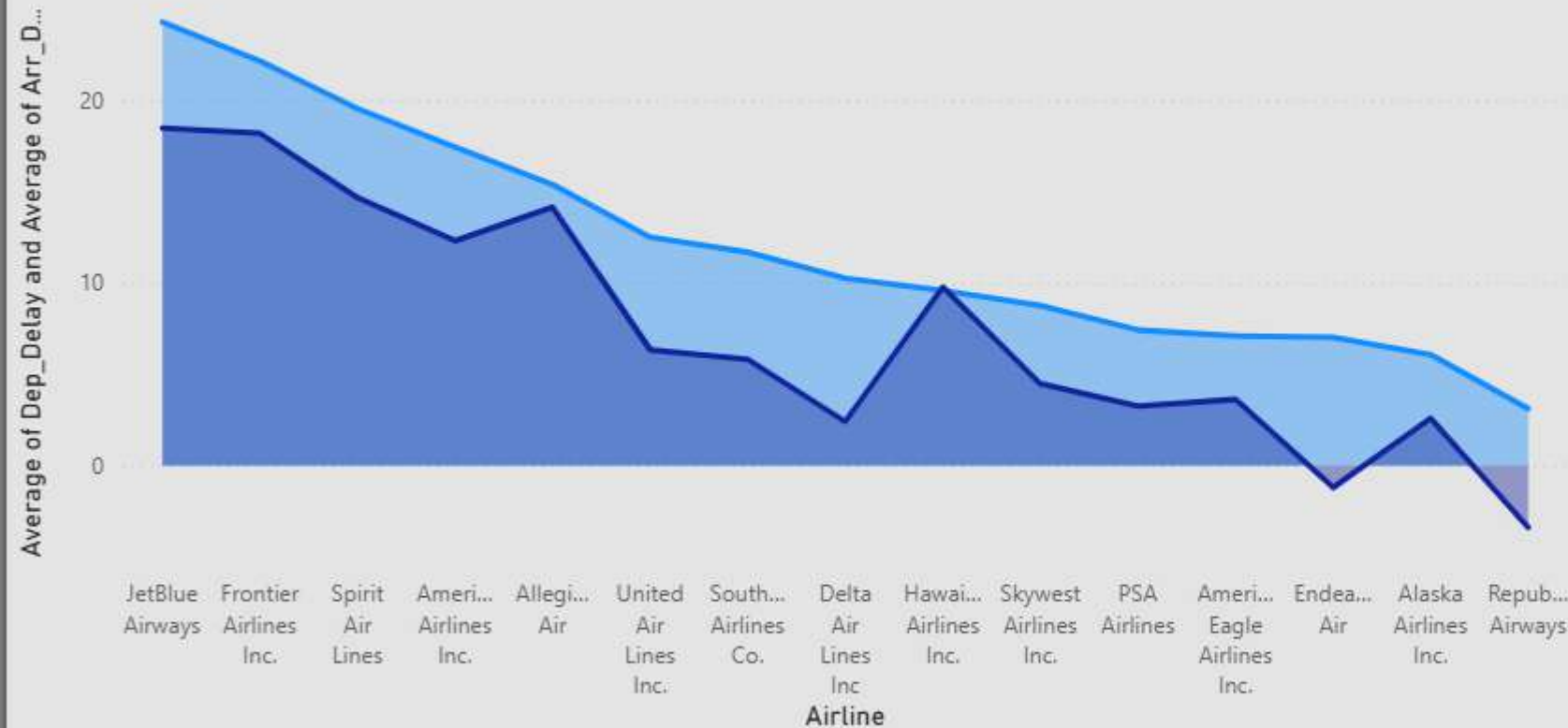
Long Haul <6000Mi

Medium Haul <3000Mi

Short Haul >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

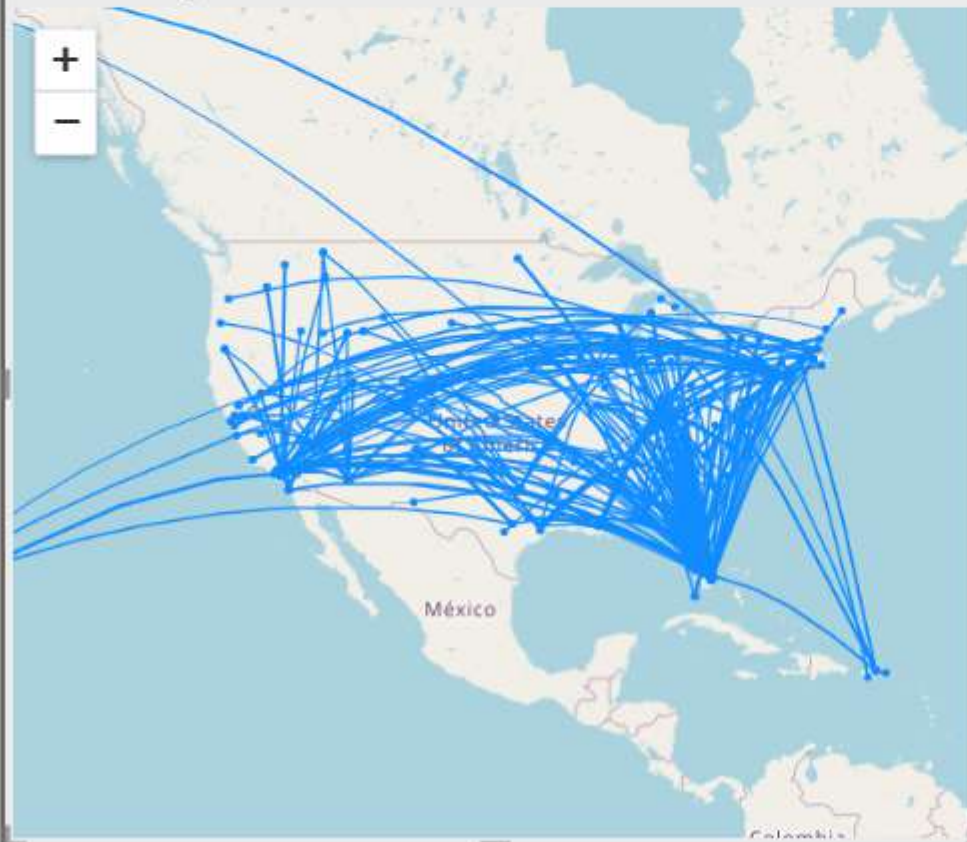
Distance_type

Long Haul <6000Mi

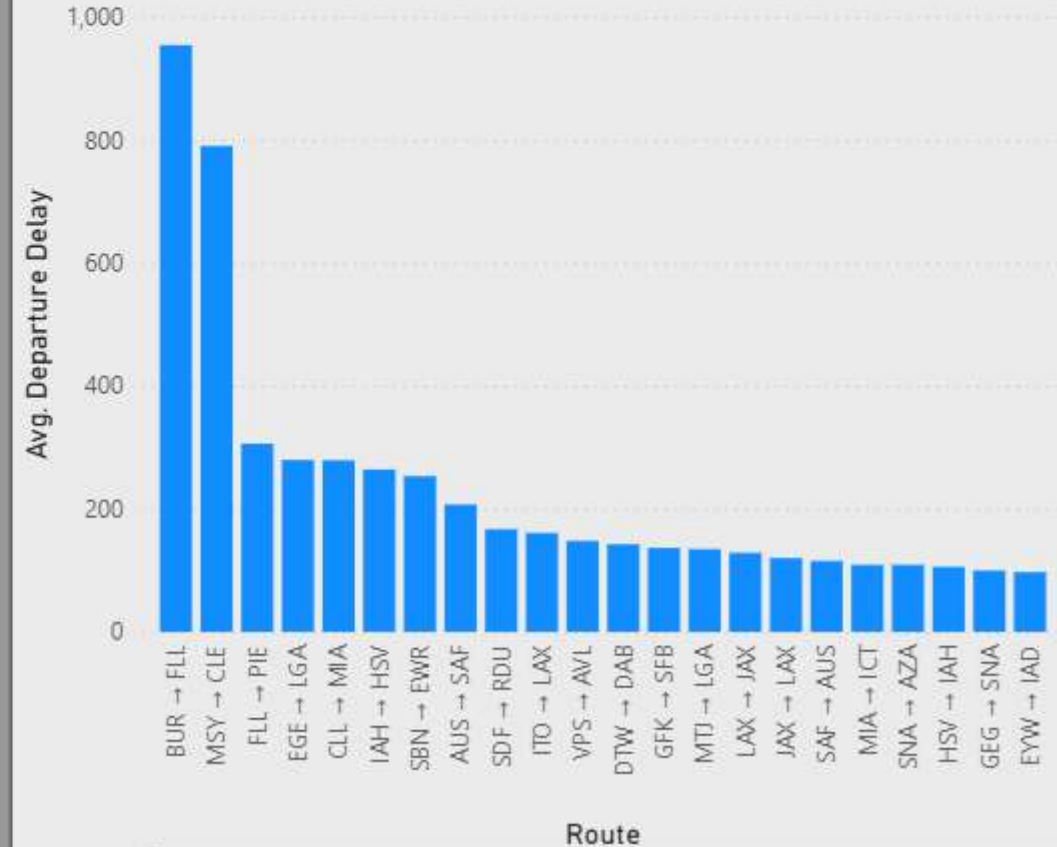
Medium Haul <3000...

Short Haul >1500Mi

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



Avg. Departure Delay by Route





DELAY CORRELATION

Airline

Alaska Airlines Inc.

Allegiant Air

American Airlines Inc.

American Eagle Airli...

Correlation of Arrival delay with different types of Delays

Factor ▼	Correlation with Arrival
Nas delays	0.33
Meteo delays	0.27
Individual safety delays	0.03
Departure delays	0.97
Career delays	0.70
Arrival delays	1.00

Correlation between Departure and Arrival Delay

