

CIVIL AVIATION U.S. CONTEXT 2023

DEVELOPMENT 2022 - 2023

Flights nbrs : **+ 8,62 %** ▲
Cancelled : **- 5,76 %** ▲
Delays : **+ 26,00 %** ▼
Deverted : **+ 17,20 %** ▼

6,74M

Flights

15

Airlines

13,48

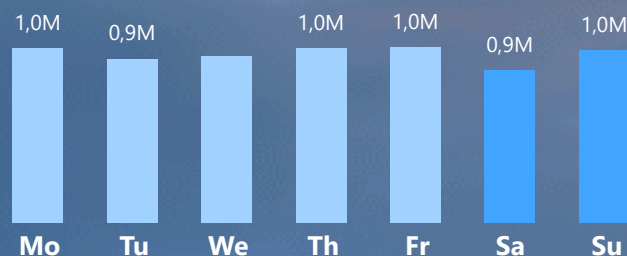
Average aircraft age

350

Airports

Weekly distribution

Number of flights in million



COMPAGNY RANKINGS

by flight numbers

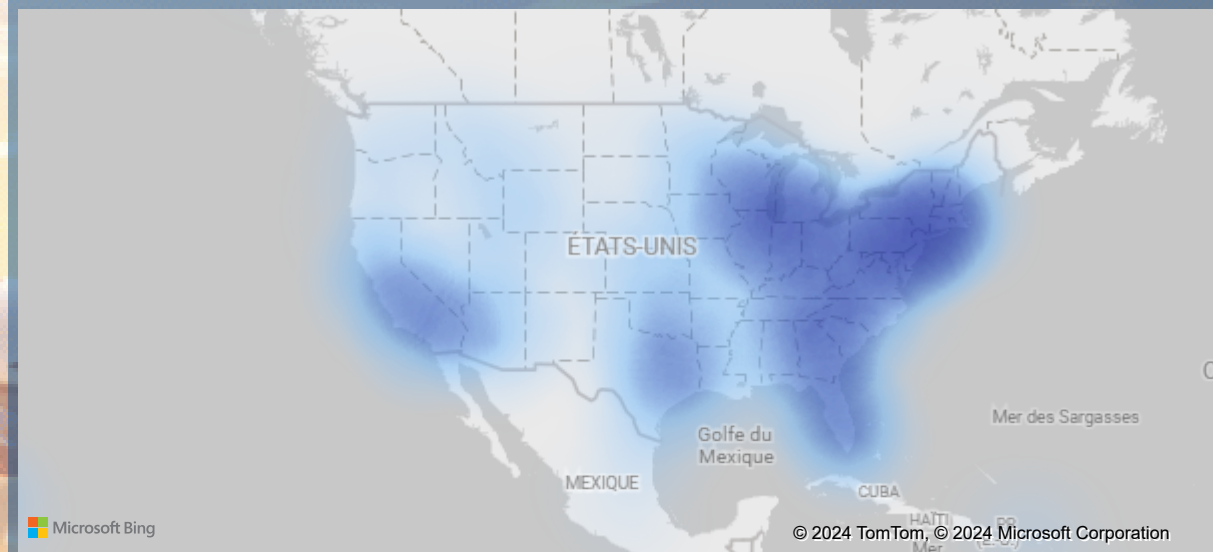


MILES TRAVELLED BY MANUFACTURER



NATIONAL COVERAGE

Density map - Cumulative number of flights



Monthly departures



FOCUS ON DELAYS

Average delay classification by origin (min)

Meteo	Last Aircraft Delay	Career	Nas	Security
64,4	54,3	44,4		22,0

COMPAGNIES

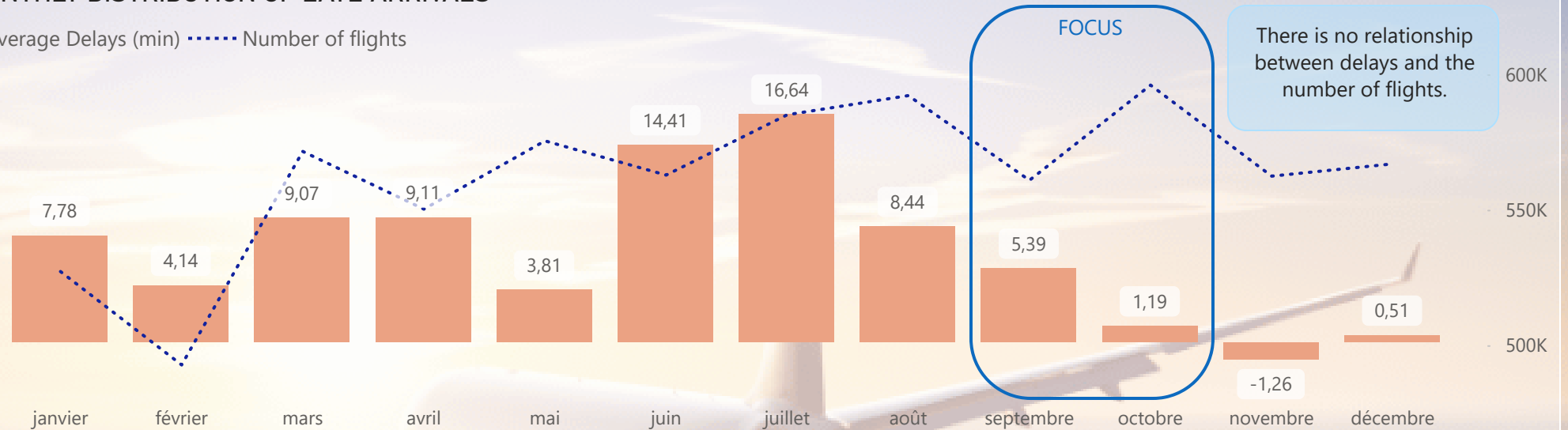
Alaska Airlines Inc.	JetBlue Airways
Allegiant Air	PSA Airlines
American Airlines Inc.	Republic Airways
American Eagle Airli...	Skywest Airlines Inc.
Delta Air Lines Inc.	Southwest Airlines Co.
Endeavor Air	Spirit Air Lines
Frontier Airlines Inc.	United Air Lines Inc.
Hawaiian Airlines Inc.	

6,74M

Number of flights

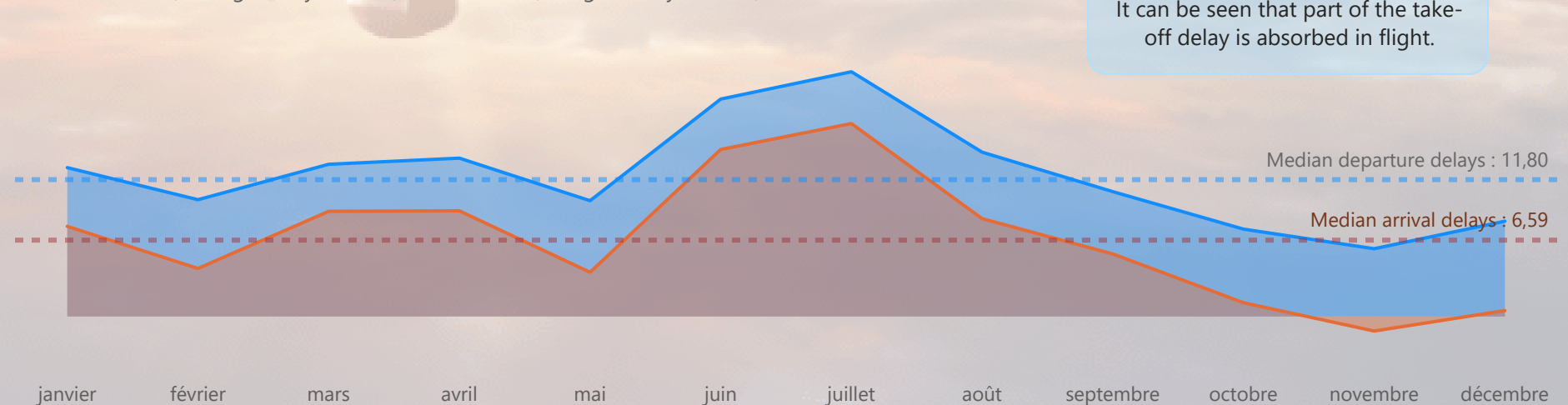
MONTHLY DISTRIBUTION OF LATE ARRIVALS

● Average Delays (min) Number of flights



RELATIONSHIP BETWEEN DEPARTURE AND ARRIVAL DELAYS

● DEPARTURES (Average delays in mm) ● ARRIVALS (Average delays in mm)



LOCALIZING DELAYS

ANNUAL
FLIGHTS
6,74M

AVERAGE DEPARTURE
DELAY
12,20 min

AVERAGE ARRIVAL
DELAY
6,63 min

AIRBUS

BOEING

CANADAI
REGIONAL
JET

DIAMOND
AIRCRAFT

EMBRAER

TOP 6 BEST DELAYS

Average delays by airport in minutes

Airport city		Delay avg (min)	Precip avg (mm)	Snow avg (depht)	Winds avg (km/h)
RHI	Rhineland	-15,32	1,90	0,00	10,19
BTM	Butte	-15,00	1,21	0,00	7,76
CDC	Cedar City	-9,10	1,04	0,00	12,58
DHN	Dothan	-9,02	3,53	0,00	10,95
EKO	Elko	-7,95	1,04	0,00	9,06
OTZ	Kotzebue	-7,95	0,95	0,00	16,30

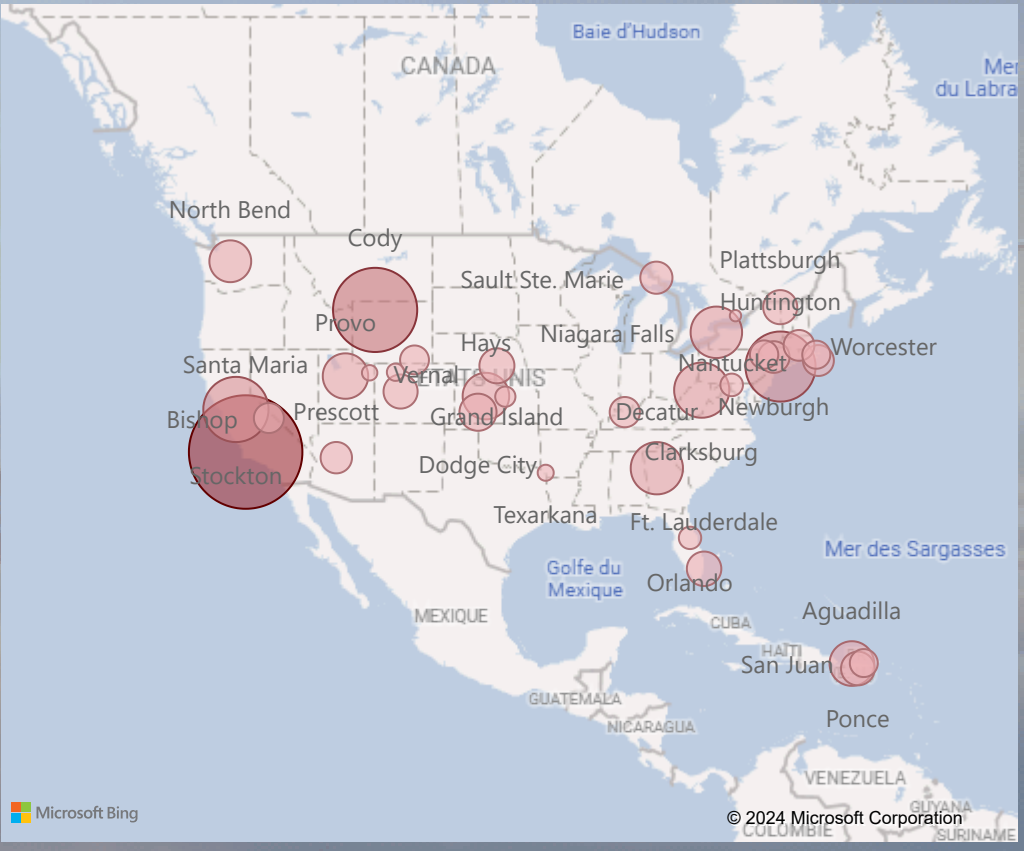
FLOP 6 WORST DELAYS

Average delays by airport in minutes

Aéroport (id)		Retards Moy (min)	Précipitations Moy (mm)	Enneigement Moy (cm)	Vents Moy (km/h)
SMX	Santa Maria	67,13	0,41	0,00	10,24
COD	Cody	41,52	0,95	0,00	12,38
PPG	Pago Pago	36,56	9,38	0,00	17,17
HTS	Huntington	32,25	2,64	0,00	8,07
SCK	Stockton	29,50	1,32	0,00	11,78
USA	Concord-Padgett	28,87	1,70	0,00	12,60

LANDING DELAYS

Average Delays up to 15 minutes



janvier

février

mars

avril

mai

juin

juillet

août

septembre

octobre

Alaska
Airlines Inc.

Allegiant
Air

American
Airlines Inc.

American
Eagle
Airlines Inc.

Delta Air
Lines Inc.

Endeavor
Air

Frontier
Airlines Inc.

Hawaiian
Airlines Inc.

JetBlue
Airways

PSA
Airlines

Republic
Airways

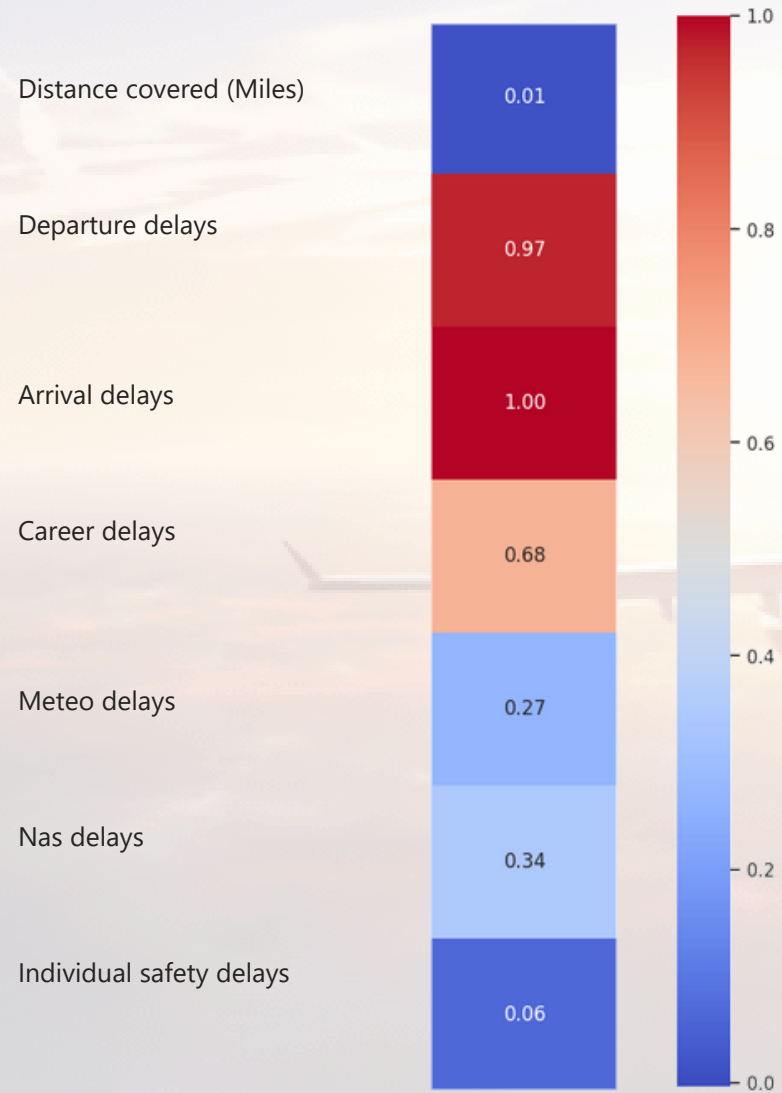
Skywest
Airlines Inc.

Southwest
Airlines Co.



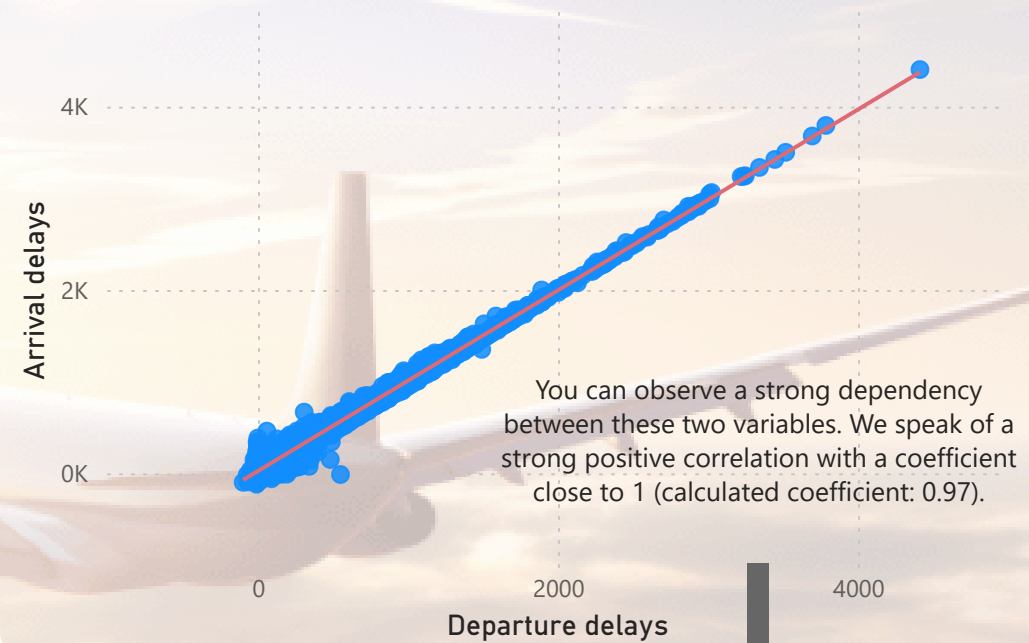
STATISTICAL ANALYSIS OF DELAY MARKERS

INFLUENCE OF VARIOUS DELAYS



CORRELATION ANALYSIS

Between delayed take-off and delayed arrival



IMPACT ON RUNWAY DELAYS

Correlation between takeoff delay and runway delay

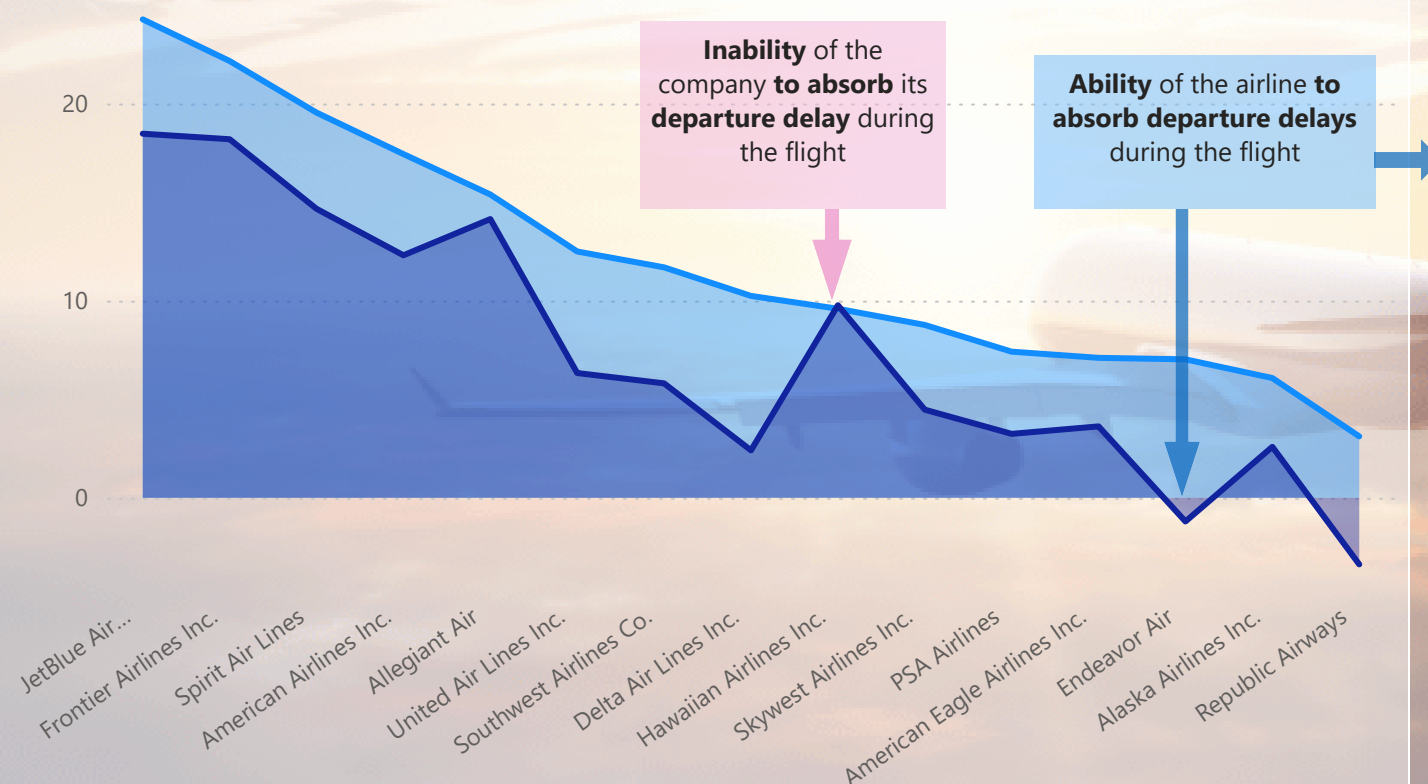


ABSORPTION OF IN-FLIGHT DELAYS

AVERAGE DELAY ABSORBED IN FLIGHT

Average delay per company (min)

● Departure delays ● Arrival delays



RANKING PAR COMPAGNIE

Airlines	Average delay absorbed in flight	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