

# 2005 USA Flight Analysis Insights

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The analysis of flight activities in the USA during 2005 reveals interesting patterns and insights. Here are the key findings:

- **Total Flights:** In 2005, a total of 5.82 million flights were recorded across the country. July had the highest number of flights, while February had the lowest. This suggests a seasonal variation in flight demand, with peak travel occurring in the summer months and a decrease during the winter.
- **Top Airlines:** Among the 14 airlines analysed, the three airlines with the highest number of flights were South West Airlines, Delta Airlines, and American Airlines Inc. These three airlines accounted for 50% of the total flights in 2005. Their dominance in the market indicates their popularity and extensive network.
- **Flights by Day of Week:** The volume of flights throughout the week was relatively consistent, with Thursday having the highest number of flights. However, Saturdays had significantly fewer flights compared to the other days, indicating lower travel demand on weekends.
- **Delayed Flights:** Approximately 37% of flights experienced delays, with an average delay of 33 minutes per flight. Hawaiian Airlines Inc and Alaska Airlines emerged as the most reliable airlines in terms of departure time, while Spirit Airlines, United Airlines Inc, and Frontier Airlines were the least reliable. June and July had the highest number of delayed flights, while September had the least. This suggests a higher likelihood of delays during the summer months.
- **Canceled Flights:** The top three airlines that experienced the most canceled flights were Southwest Airlines Co., Atlantic Southeast Airlines And American Eagle Airlines Inc, while the least affected were Hawaiian, Virgin America & Frontier Airlines Inc. The period from December to March had the highest number of canceled flights, accounting for 57% of the total cancellations for the year. Weather conditions were cited as the reason for canceling 54% of the flights in 2005, highlighting the impact of adverse weather on flight operations during the winter season.

By analyzing the 2005 USA Flight Analysis, it becomes evident that flight patterns are influenced by seasonality, with summer months witnessing higher travel demand. Understanding the performance of different airlines in terms of delays and cancellations can help passengers make informed decisions. Additionally, this analysis provides valuable insights for airlines to improve their operations, enhance reliability, and minimize disruptions, ultimately leading to a better travel experience for passengers.

# 2005 USA Flight Analysis

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## Total Flights

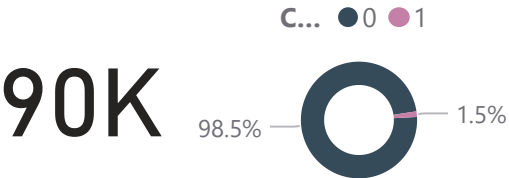
5.82M



## Number of Flights by Airline



## Number and % of Cancelled Flights

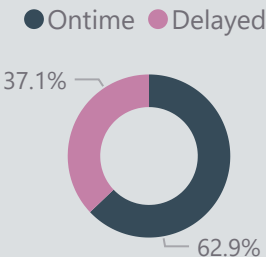


## Delayed Flights



33

Avg. Delay Time



## Most reliable Airlines base on departure time

AIRLINE	AVG DEPARTURE_DELAY
Hawaiian Airlines Inc.	0.49
Alaska Airlines Inc.	1.79
US Airways Inc.	6.14

## Least reliable Airlines base on departure

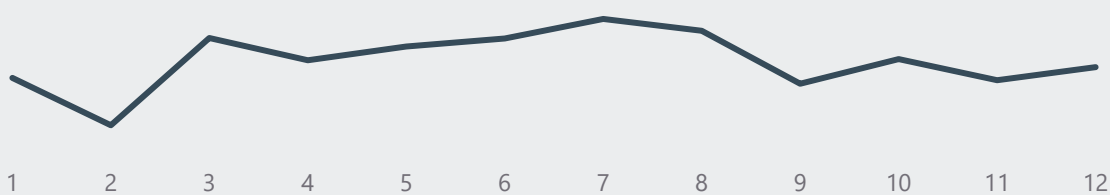
AIRLINE	AVG DEPARTURE_DELAY
Spirit Air Lines	15.94
United Air Lines Inc.	14.44
Frontier Airlines Inc.	13.35

## Flight Volume

### Flight by days of the week



### Flights by Month

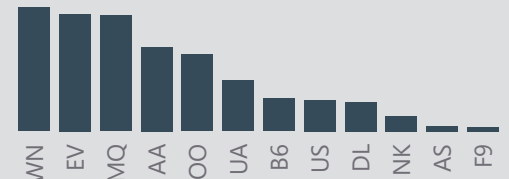


### Delayed Flights by Month

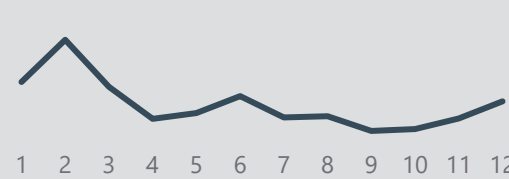


## Cancelled Flights

### Airline



### Months



### Reason

