

United Airlines: Flight Delay Overview (FY 2024–25)

Data Source: BTS.gov | Visualization by Pulkit Garg

766K

Total Flights

13.78

Avg Delay (min)

148K

Delayed Flights

80.65%

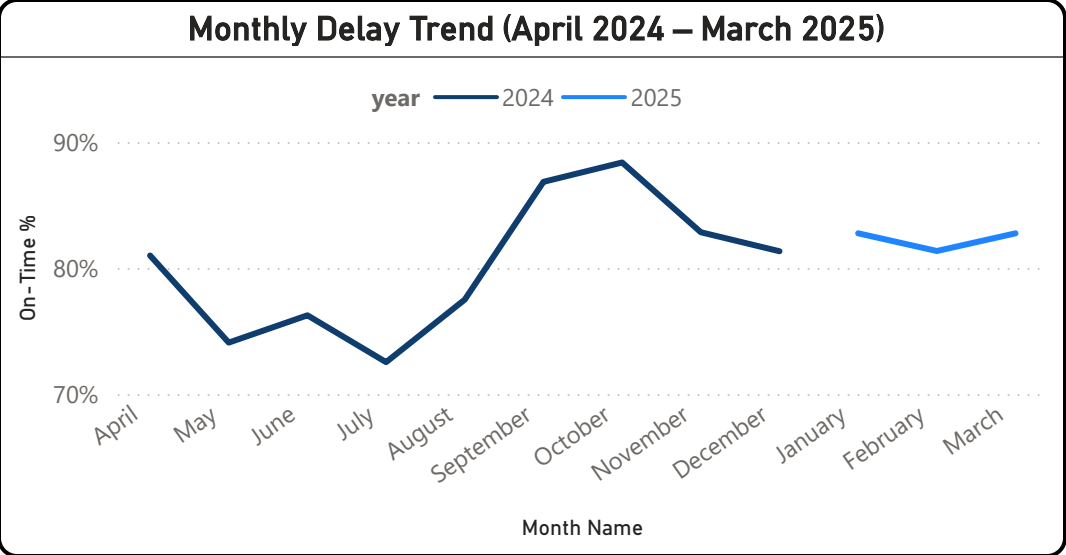
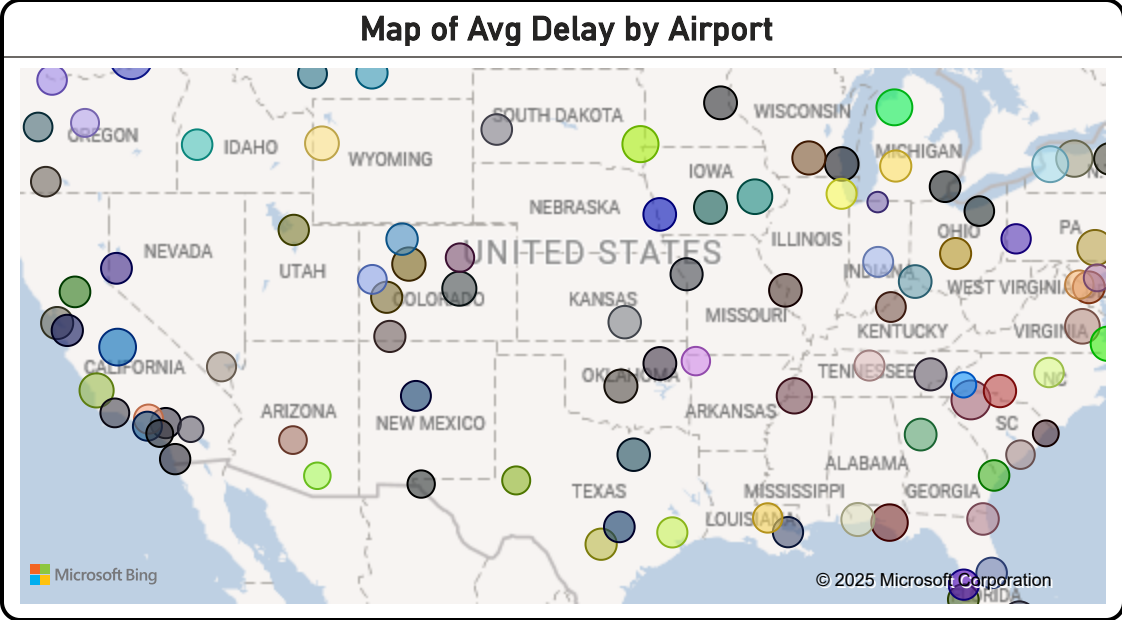
On-Time %

0.28%

Diverted %

1.13%

Cancelled %



Filter by Airport

All

Filter by Month

Select all

April

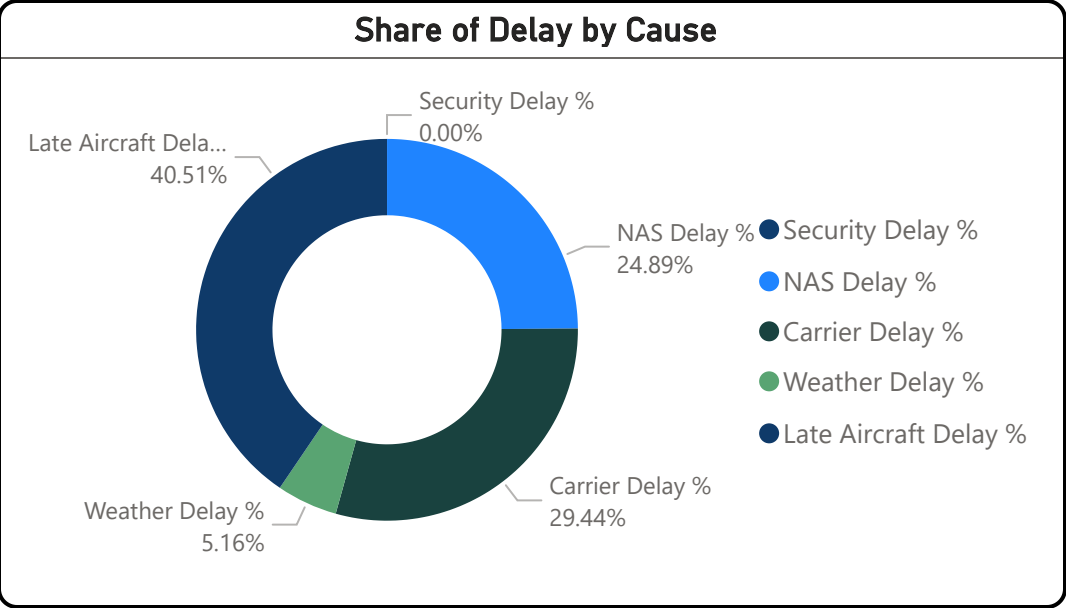
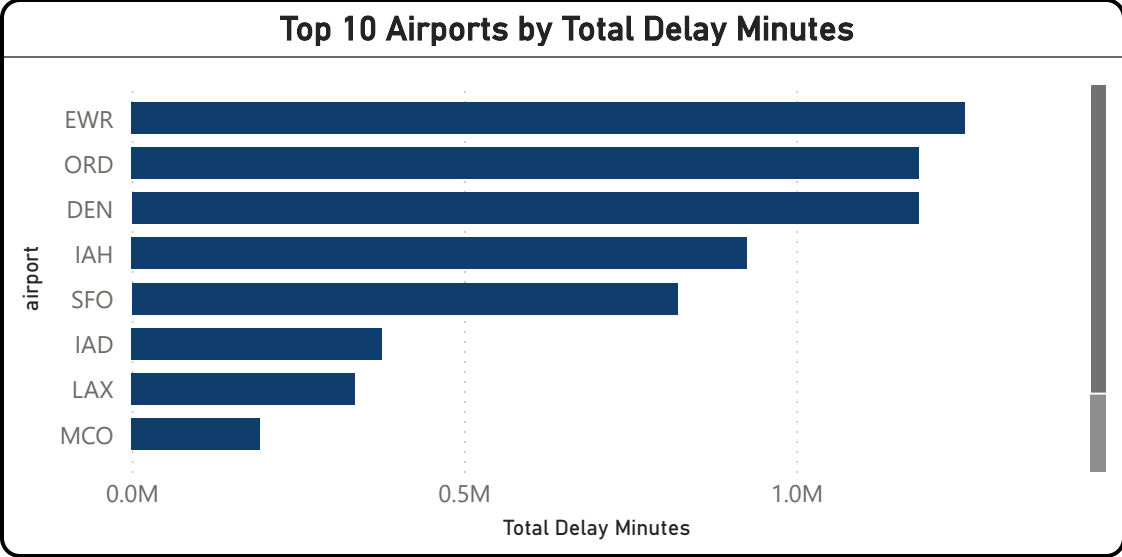
May

June

July

August

September



# Delay Cause Analysis - United Airlines

Data Source: [BTS.gov](#) | Visualization by Pulkit Garg

## Filter by Month

Select all

April

May

June

July

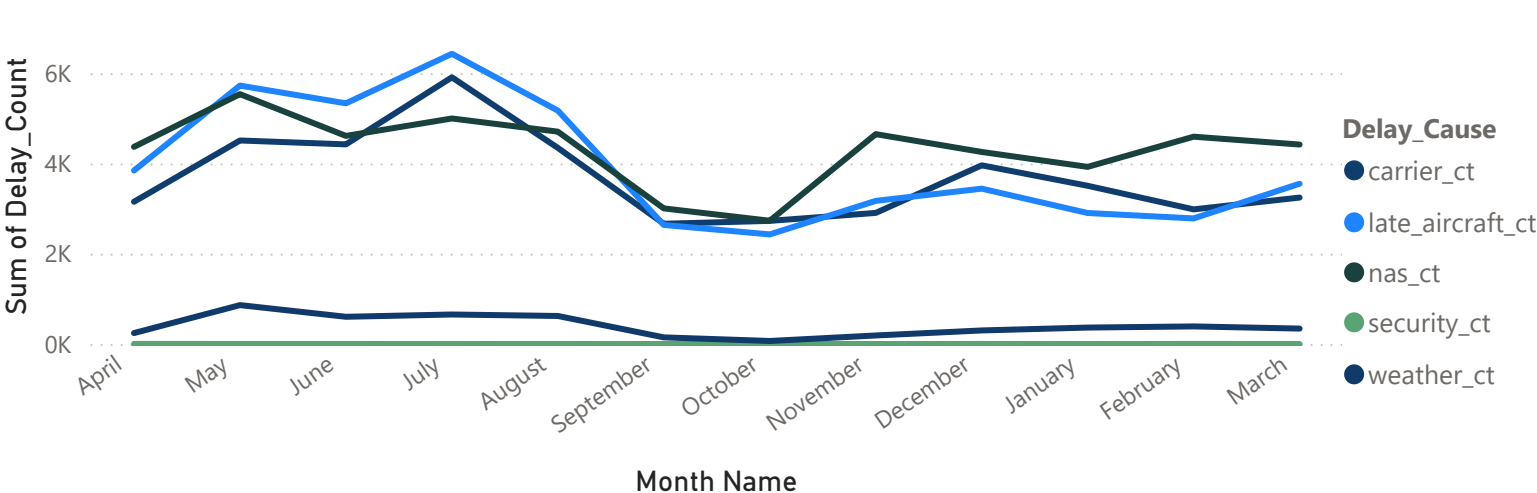
## Filter by Airport

All

## Avg Delay per Incident by Cause

Delay_cause	Avg Delay per Incident
late_aircraft_delay	28.86
carrier_delay	20.97
nas_delay	17.73
weather_delay	3.67
security_delay	0.00
Total	71.24

## Monthly Delay Count by Cause



## Month Name

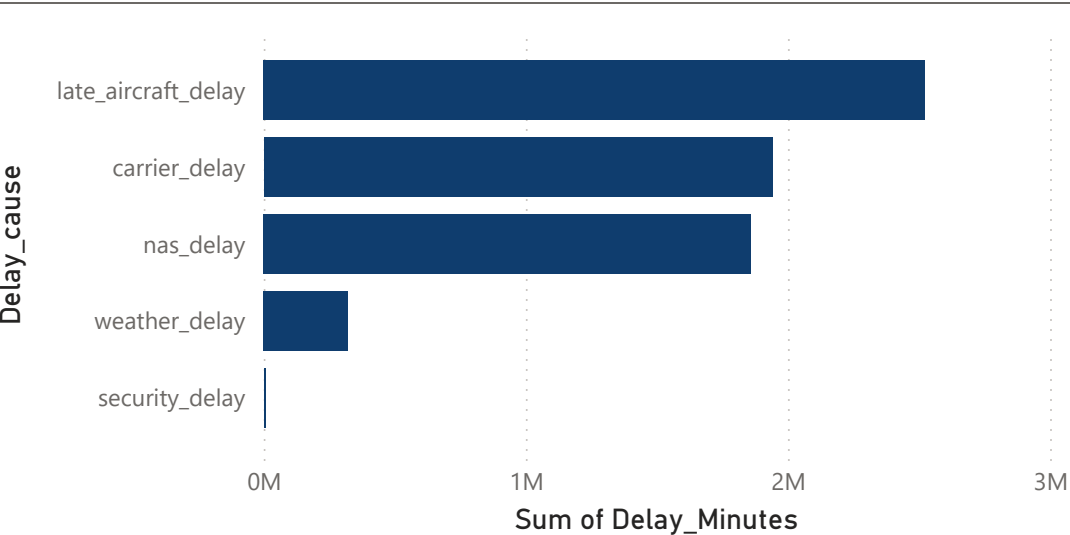
Select all

April

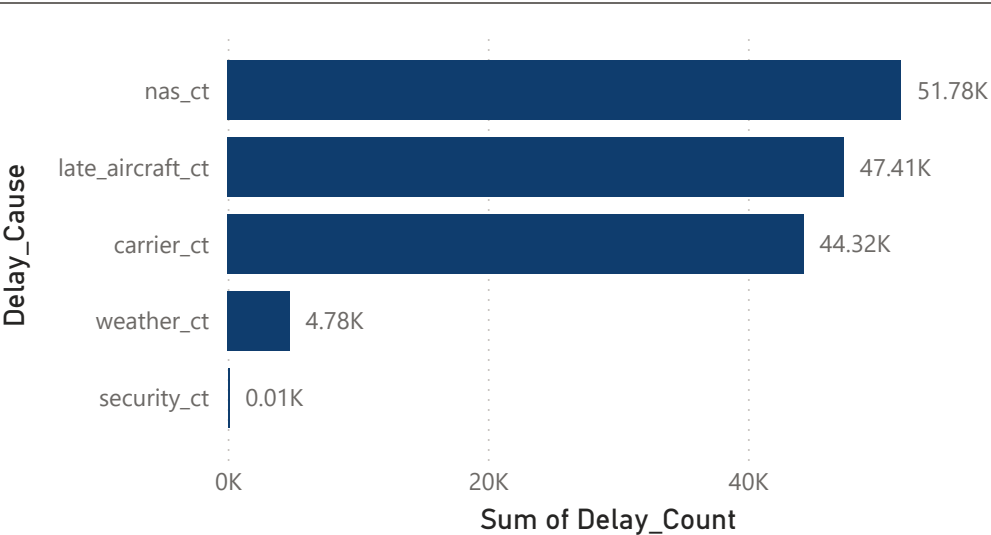
May

June

## Total Delay Minutes by Cause



## Total Delay Count by Cause



## Avg Delay/ Incident

71.24

## Total Delay Count

148.29K

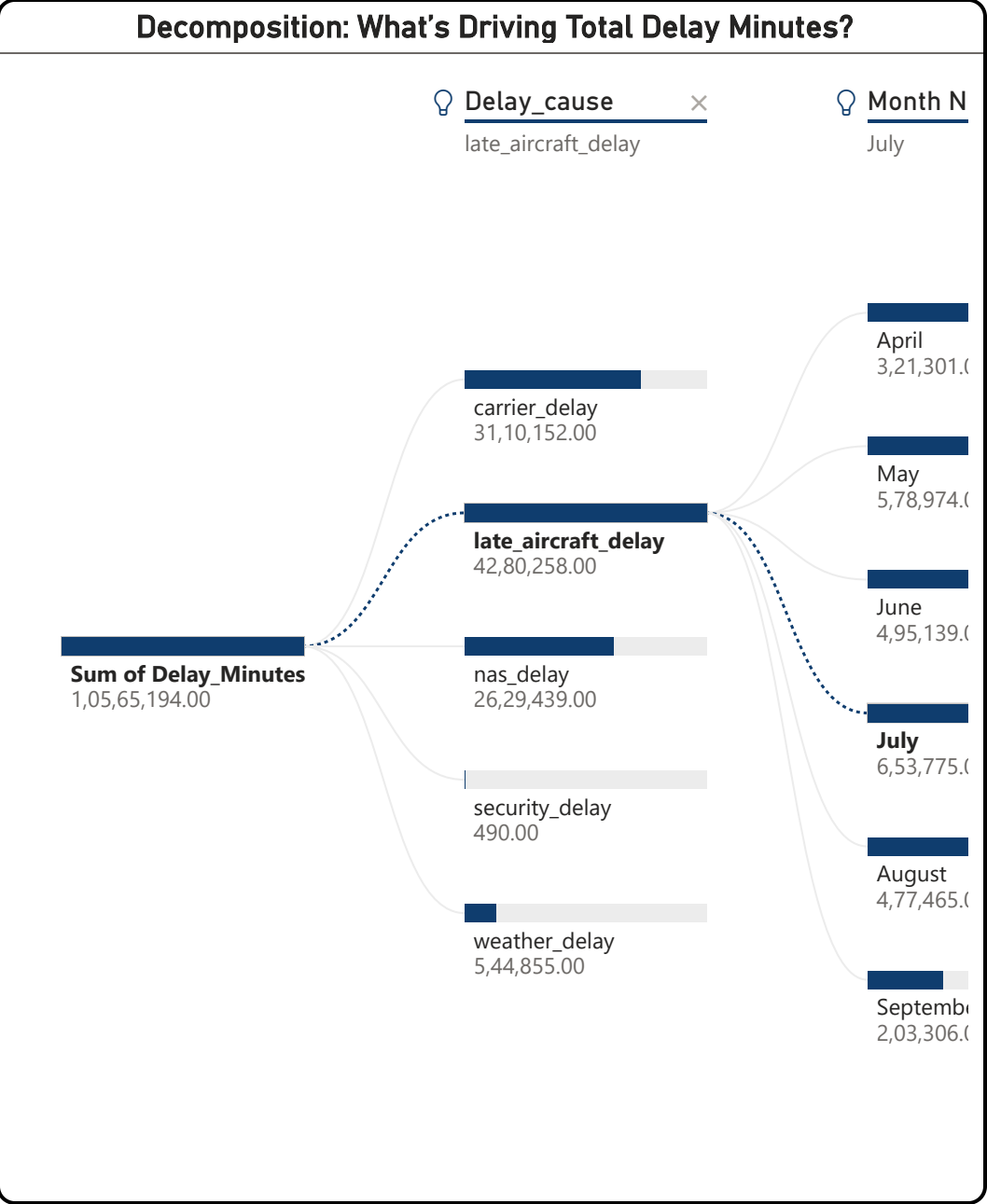
## Total Airports

126

## Total Flights

766K

Decomposition: What's Driving Total Delay Minutes?



Key influencers    Top segments



What influences Delay\_Minutes to  ?

When...

...the average of Delay\_Minutes increases by

airport\_name is Newark, NJ:  
Newark Liberty International

19.56K

airport\_name is Chicago, IL:  
Chicago O'Hare International

18.39K

airport\_name is Denver, CO:  
Denver International

18.38K

airport\_name is Houston, TX:  
George Bush Intercontinental/Houston

14.04K

airport\_name is San Francisco, CA:  
San Francisco International

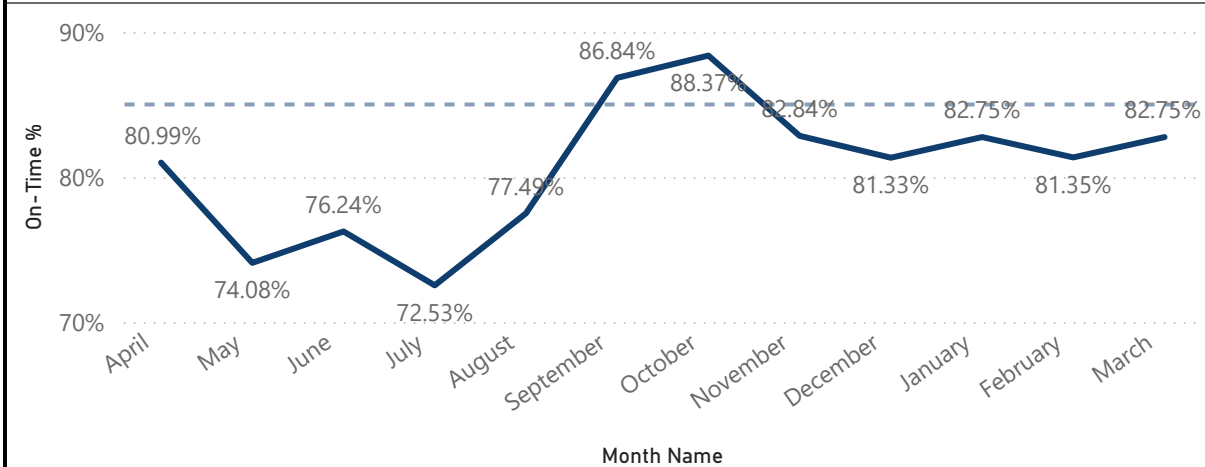
12.28K

Delay\_cause is late\_aircraft\_delay

1.94K

# Strategic Insights & Action Plan (United Airlines)

Monthly On-Time Performance vs Target



## Key Findings Summary

**Late-arriving aircraft** is the **top contributor to delay time** – accounting for **40.5% of total delay minutes**.

▸ Indicates systemic ripple effects due to upstream delays.

**NAS delays** are the **most frequent cause**, representing **34.9% of all delay incidents**.

▸ Caused by air traffic congestion and FAA routing.

**Carrier-related delays** account for nearly **29% of delay time and incidents**, showing opportunities for internal operational improvements.

**On-time performance dipped to ~73%** during **June to August**, highlighting seasonal operational stress.

**Three airports – EWR, ORD, and DEN** – consistently had the **highest cumulative delay minutes**, making them priority focus zones.

Month Name

Select all

April

May

June

July

August

## Breakdown of Flight Delay Causes – Share by Time and Frequency

Cause of Delay	% of Delay Count	% of Delay Minutes
Security Procedures	0.01%	0.00%
Weather Conditions	3.22%	5.16%
NAS System Delays	34.92%	24.89%
Carrier-related Issues	29.88%	29.44%
Late-arriving Aircraft	31.97%	40.51%
Total	100.00%	100.00%

## Filter by Airport

All

## Avg Delay/ Incident

71.24

## Total No. of Delays

148.29K

## Strategic Recommendations

**Improve Aircraft Turnaround Efficiency:** Streamline crew scheduling and gate operations to reduce delays from late-arriving flights.

**Engage with FAA for NAS Bottlenecks:** Collaborate with ATC to address congestion at delay-prone airports and explore alternate routing.

**Optimize Carrier Operations:** Deploy operational audits at top delay airports to address staffing, maintenance, and equipment lag.

**Deploy Summer Surge Plans:** Strengthen June–August readiness with staffing buffers, flexible scheduling, and backup resources.

**Target EWR, ORD, and DEN with Airport-Specific Action Plans:** These hubs drive a disproportionate share of delays — tailored interventions are needed.