

TOTAL FLIGHTS

1.94M

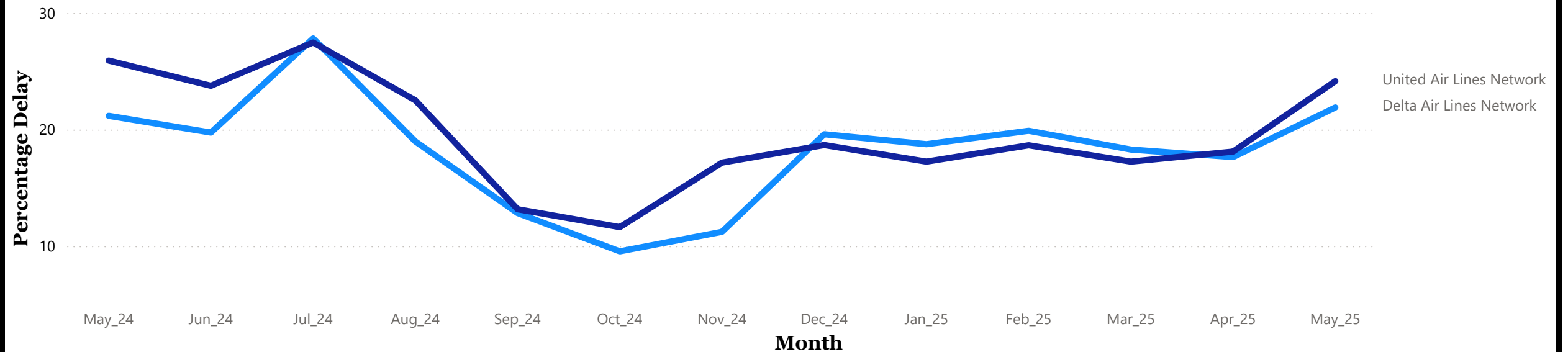
SUM(ARRIVAL DELAYS> 15MINS)

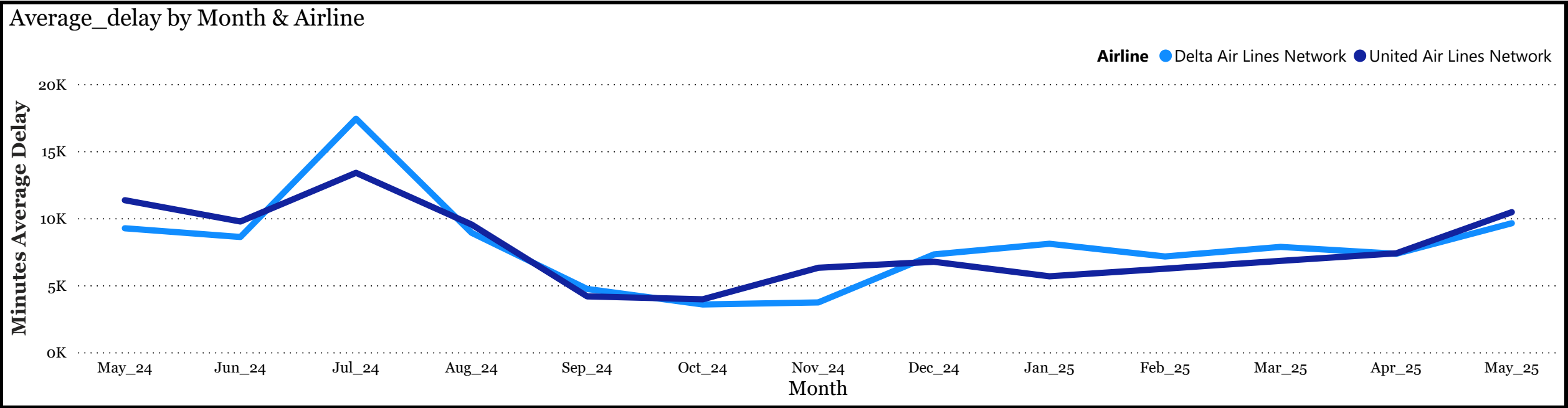
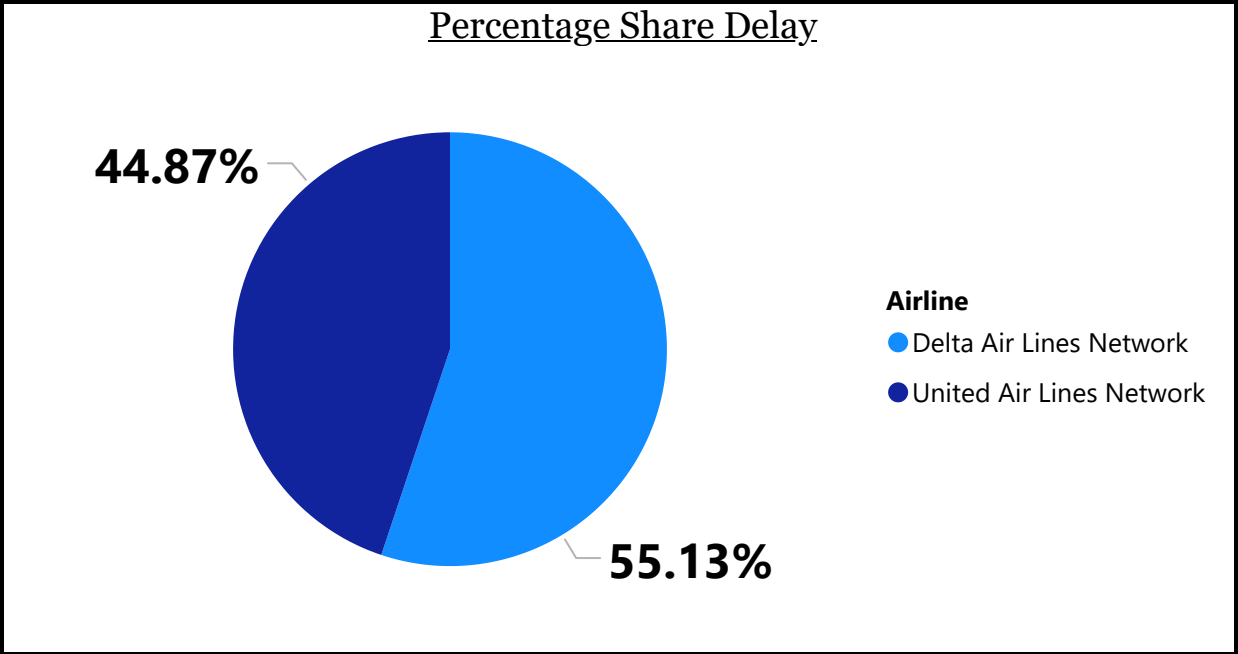
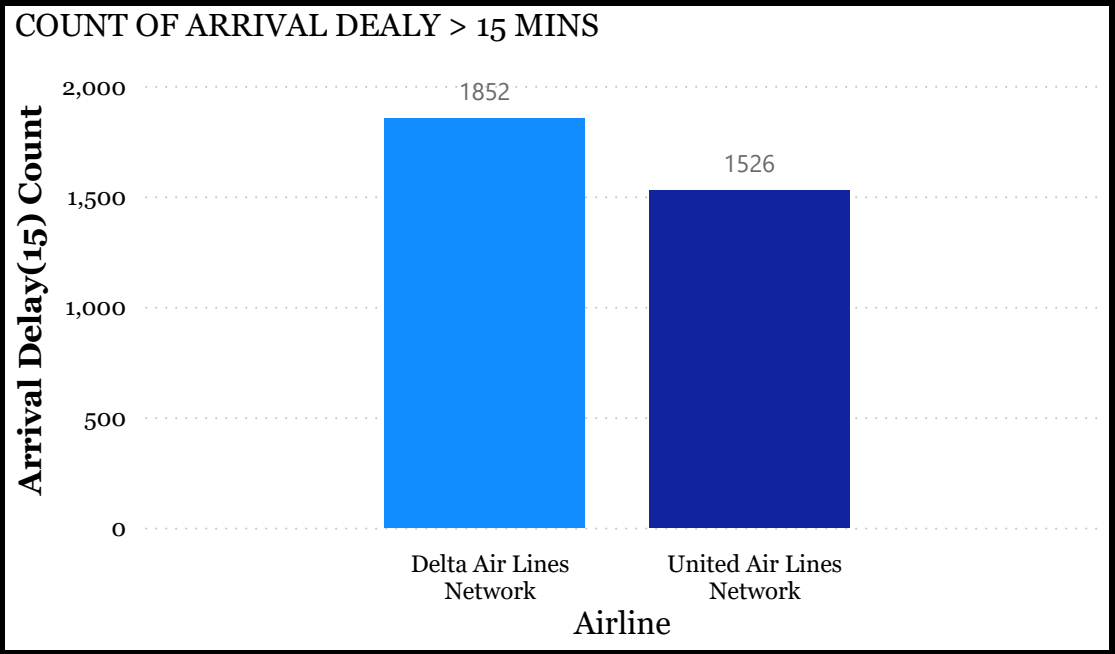
367K

AVERAGE DELAY MINUTES

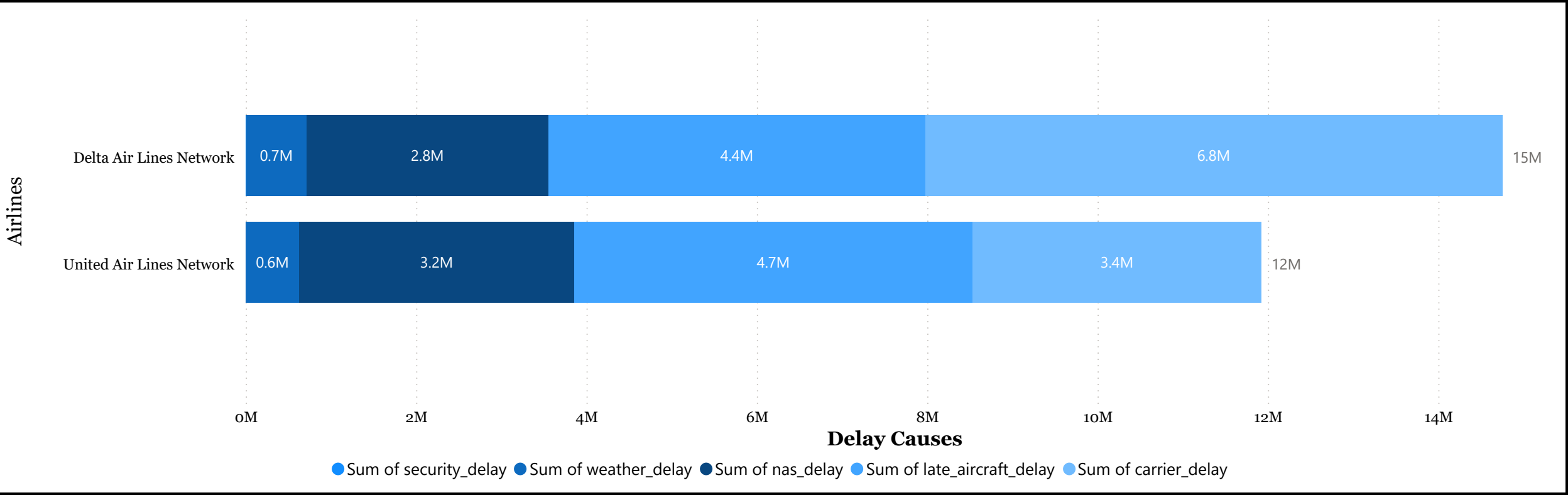
7897

Delay Percentage by Month and Airline





year	month	Sum of late_aircraft_delay	Sum of nas_delay	Sum of security_delay	Sum of weather_delay	Sum of carrier_delay
2024	5	1038712	588508	1186	159005	852451
2024	6	865714	515800	623	124114	871717
2024	7	1377106	634350	996	141882	1862027
2024	8	850289	536957	618	134772	885359
2024	9	393250	219637	628	52715	509158
2024	10	312358	169403	446	19198	467140
2024	11	399263	356884	409	39651	461288
2024	12	622227	207112	007	02255	745085
Total		9095536	6074910	9458	1329243	10166707



Summary

From May 2024 to May 2025, 1.94 million flights were operated, of which 367,000 experienced delays of more than 15 minutes. Delay percentages varied throughout the year, with July 2024 and January 2025 emerging as the peak months for disruptions. Delta Air Lines accounted for 55% of all delays (1,852 flights), while United Air Lines made up 45% (1,526 flights), both showing similar seasonal delay patterns. The majority of delays were caused by carrier-related issues and late aircraft, indicating that operational improvements could significantly reduce overall delays. Weather-related delays, while smaller in volume, spiked in December 2024 due to winter conditions. These findings highlight the importance of addressing airline-controlled delays and strengthening seasonal preparedness to enhance overall punctuality.

Page 1 – Overview

1. This page provides a high-level summary of the flight delay data over the analysis period. It includes:
2. **Cards** displaying:
 - a. **Total Flights:** The total number of flights operated.
 - b. **Total Delays:** The number of flights delayed by 15 minutes or more.
 - c. **Average Delay Minutes:** The average arrival delay time in minutes.
3. **Line Chart** showing the **Delay Percentage** trend over time (monthly), highlighting how the proportion of delayed flights changes across the year

Ctrl + Click to
Navigate to
Overview Page

Page 2 – Airline Comparison

This page compares the performance of the two major airlines, Delta and United, in terms of flight delays:

- **Clustered Column Chart** illustrating the total count of delayed flights for each airline.
- **Line Chart** showing the average arrival delay minutes per month for each airline, allowing trend comparison over time.
- **Pie Chart** representing each airline's percentage contribution to the total number of delayed flights.

Ctrl + Click to
Navigate to Airline
Comparison Page

Page 3 – Delay Causes

This page dives deeper into the root causes of delays by airline and month:

- **Stacked Bar Chart** breaking down the different delay causes (carrier, weather, NAS, security, late aircraft) for each airline.
- **Table** providing a monthly breakdown of delay causes, enabling detailed analysis of how each cause contributes over time.

Ctrl + Click to
Navigate to Delay
Page