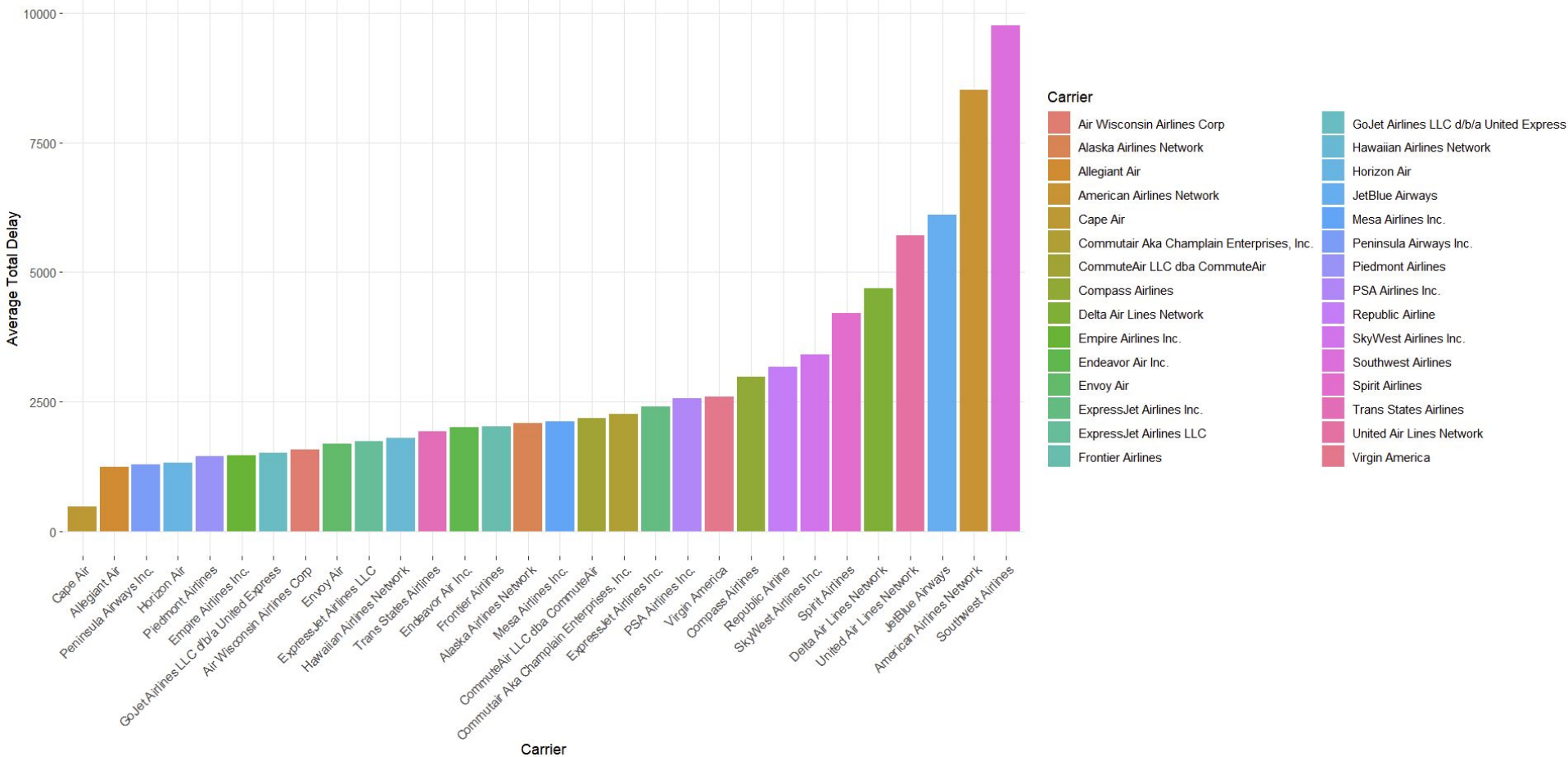
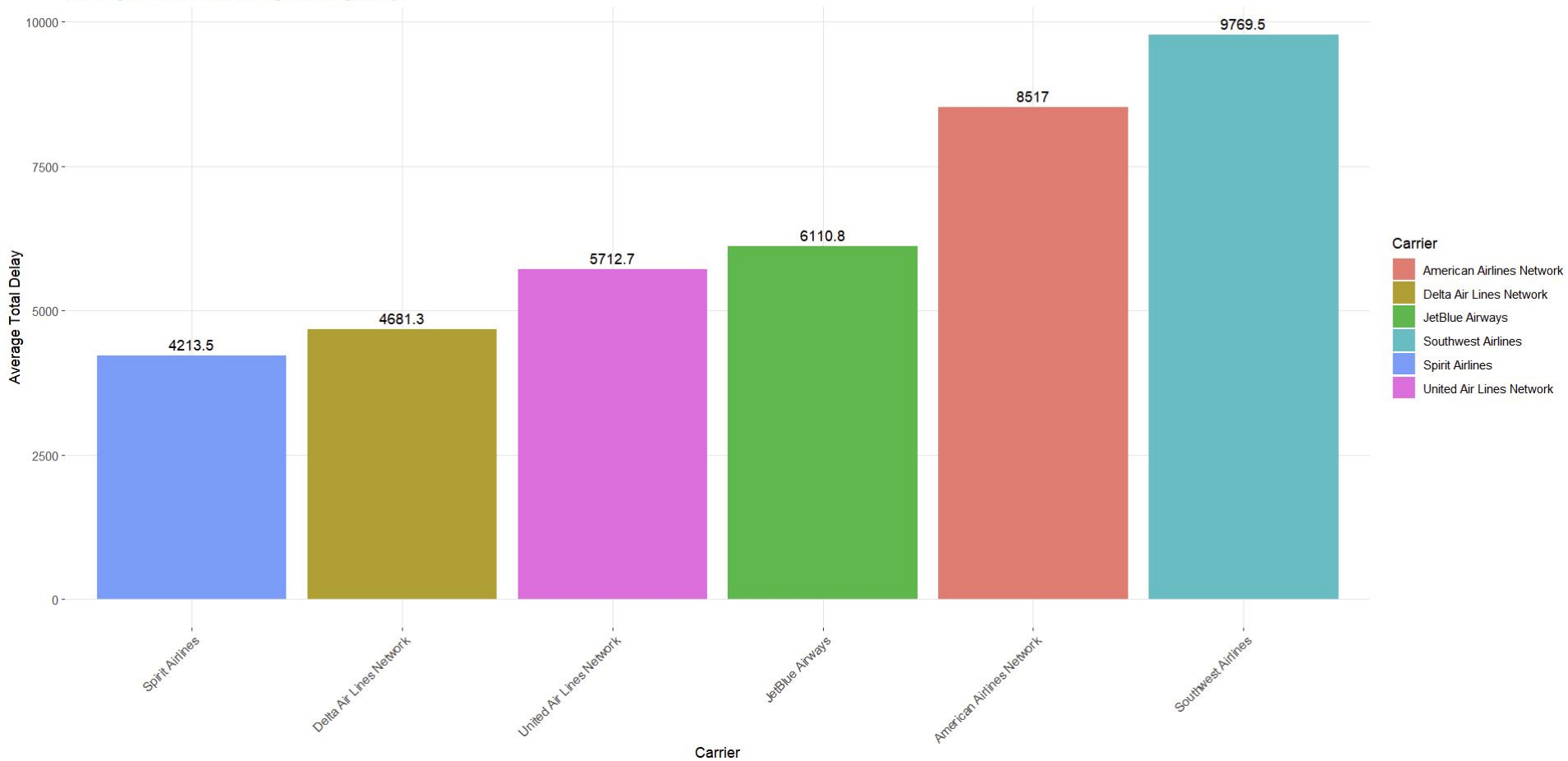
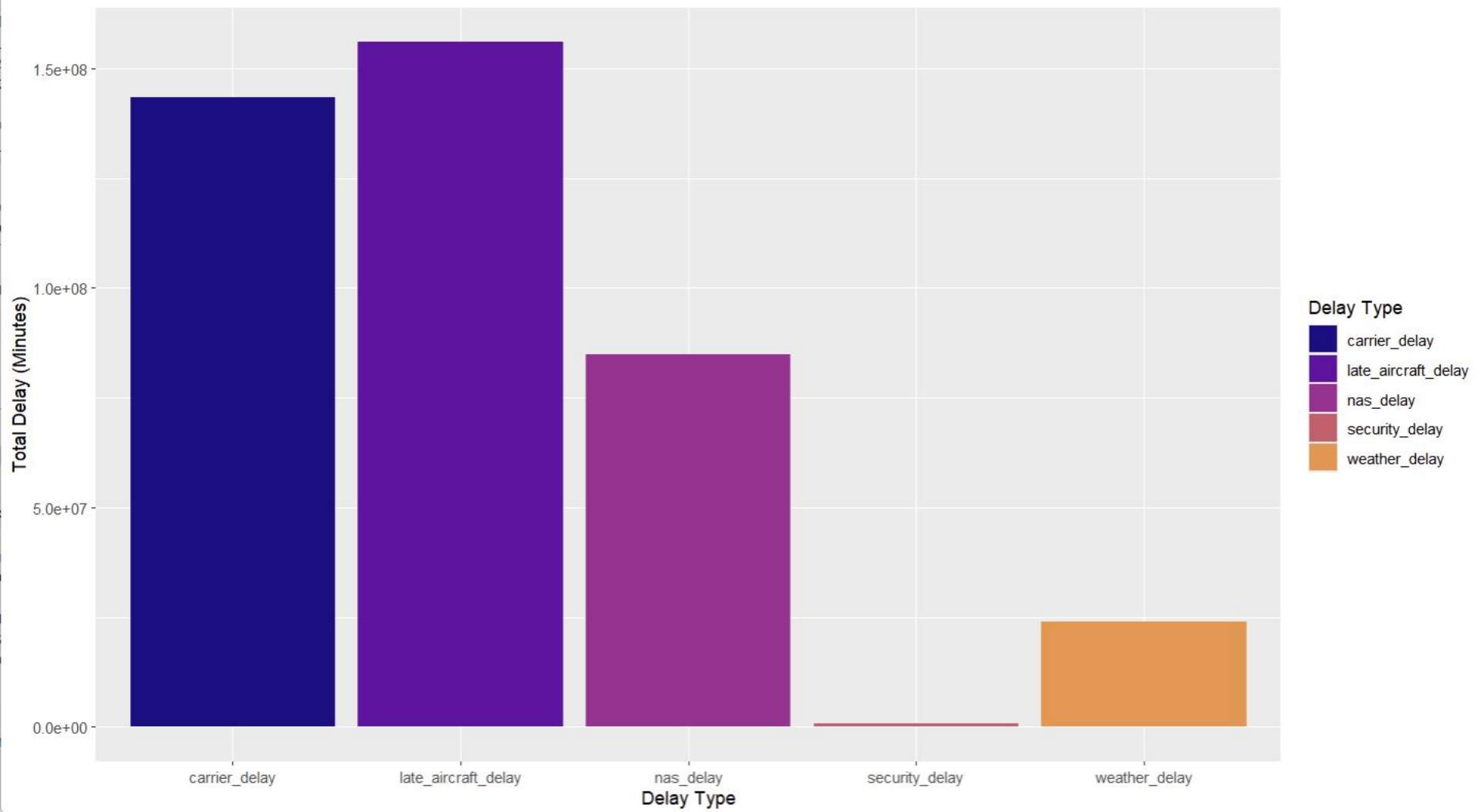


Average Total Delay by Carrier  
Carriers ordered by increasing average total delay

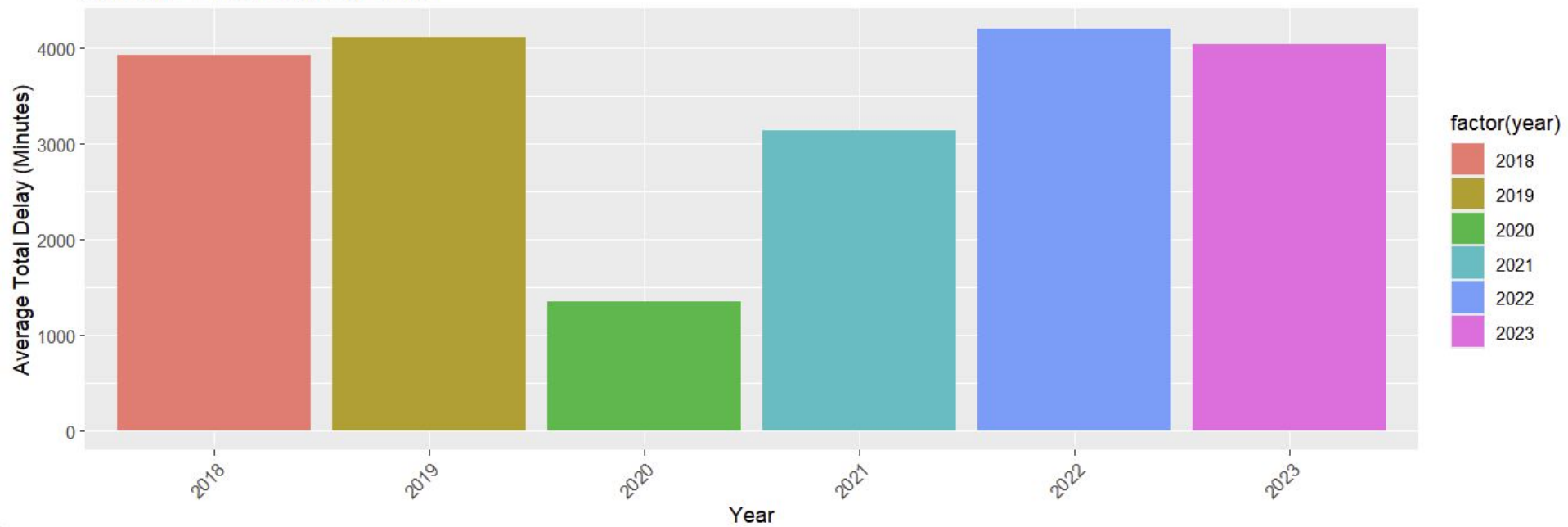


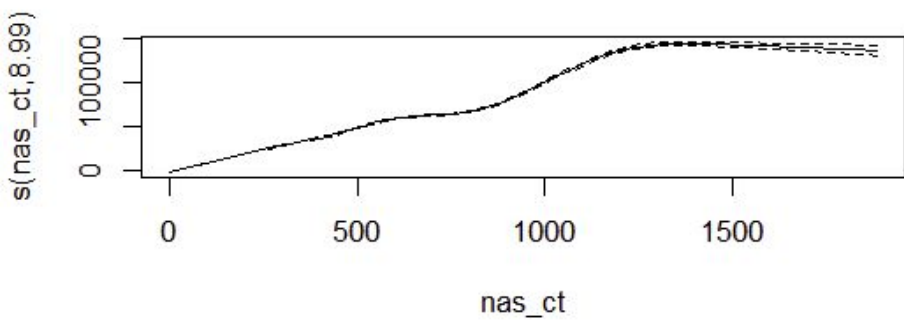
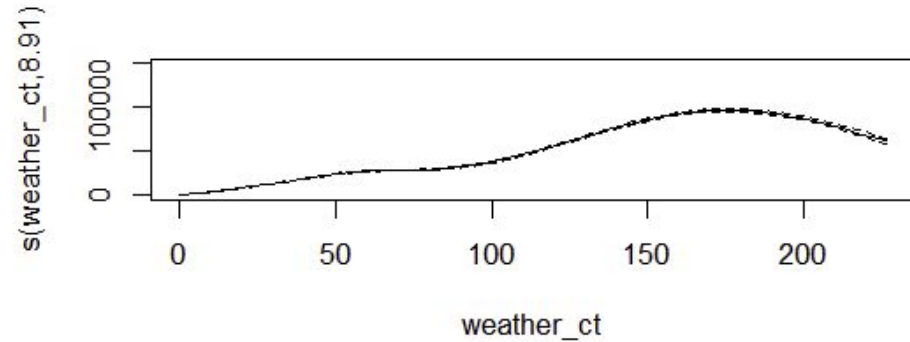
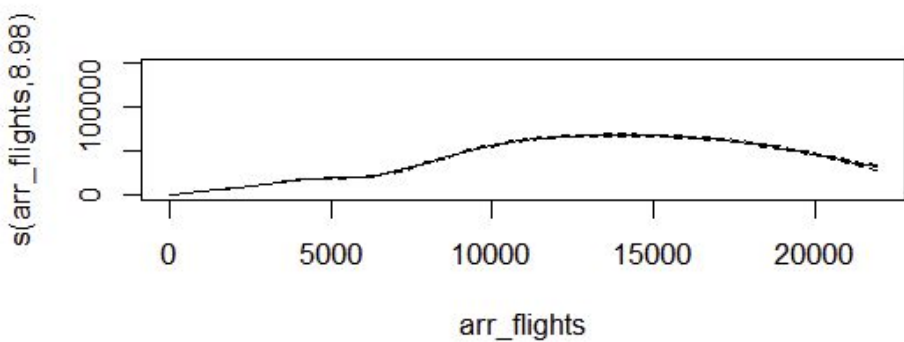
Top 6 Carriers by Average Total Delay  
Focusing on carriers with the largest average delays



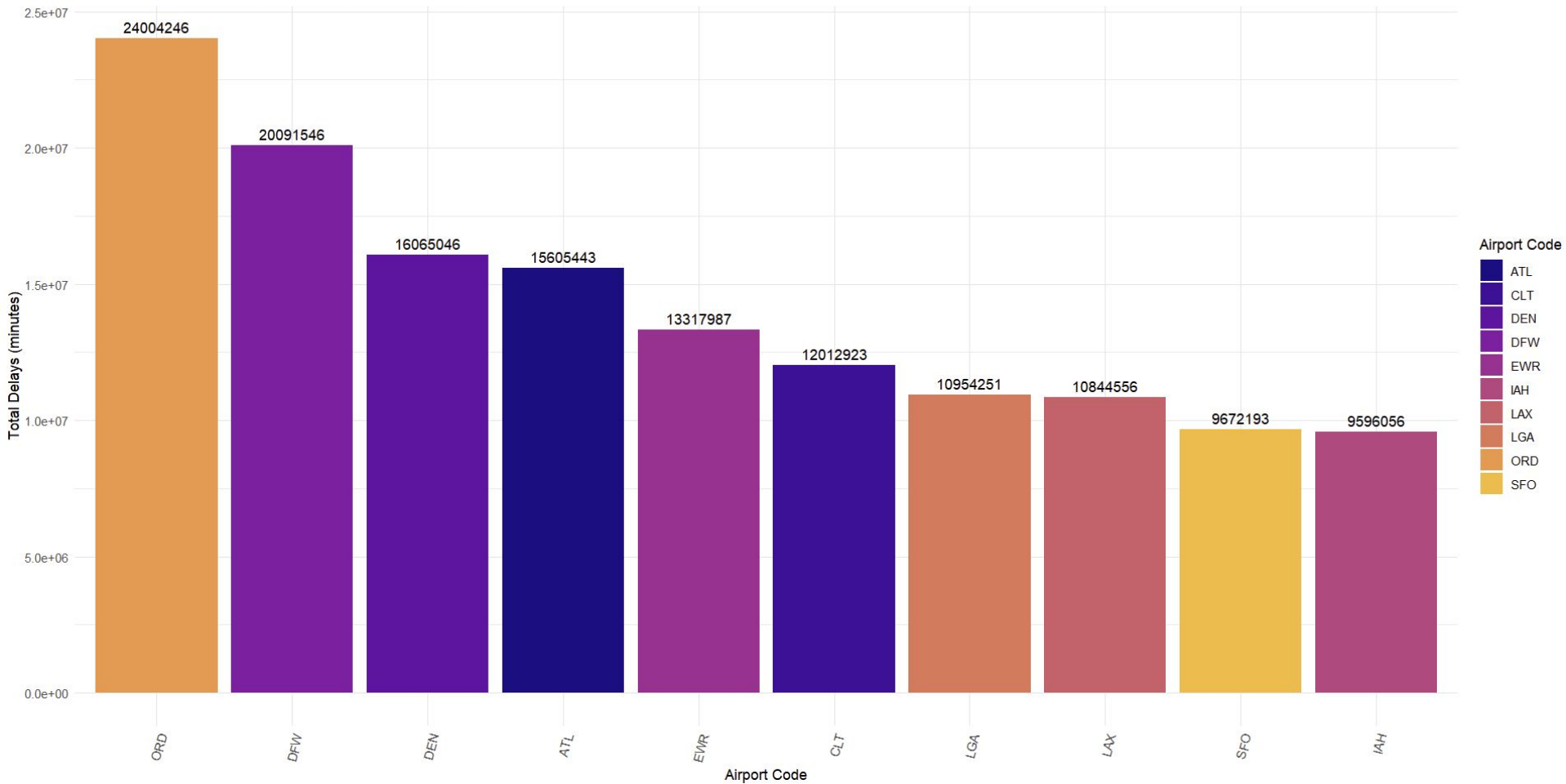


Average Total Delays by Year

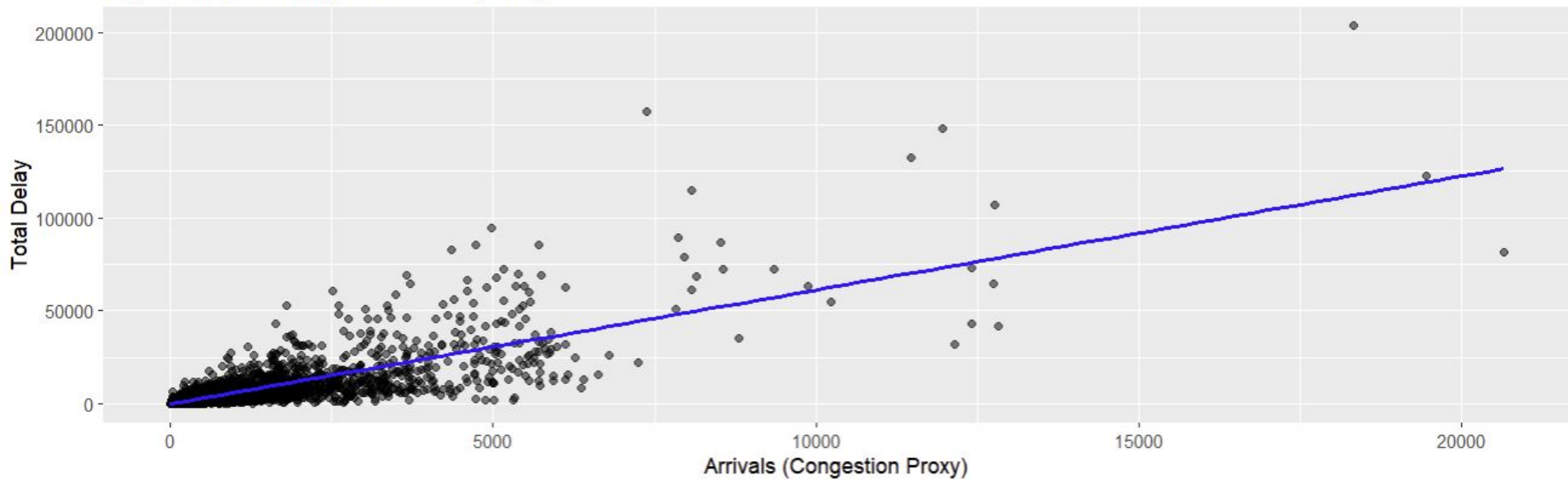




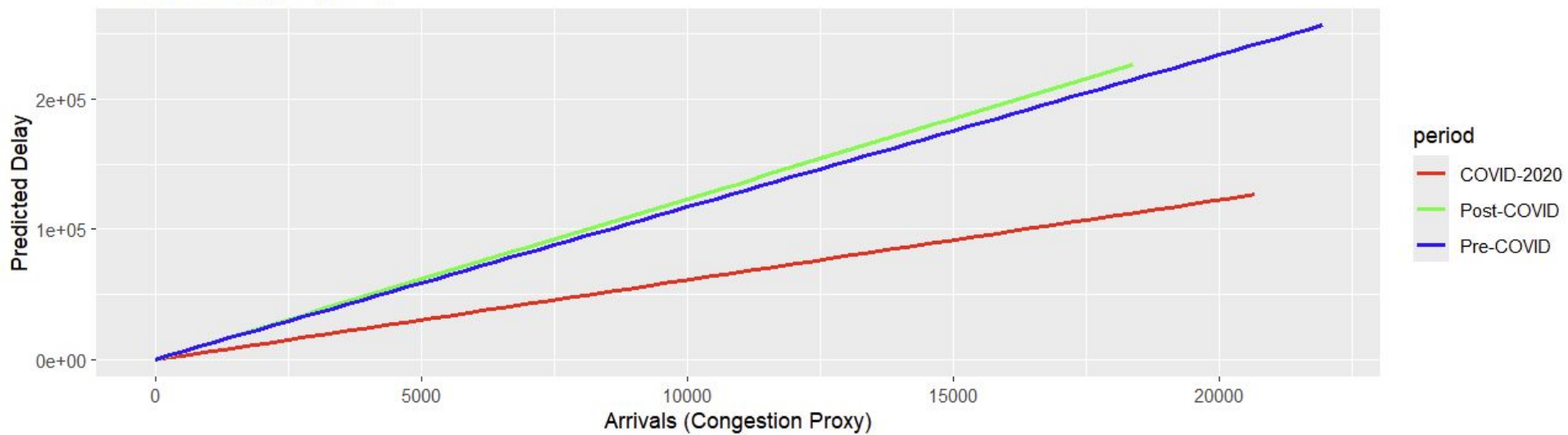
Top 10 Airports by Total Flight Delays (Using Codes)



Flight Delays During COVID-19 (2020)

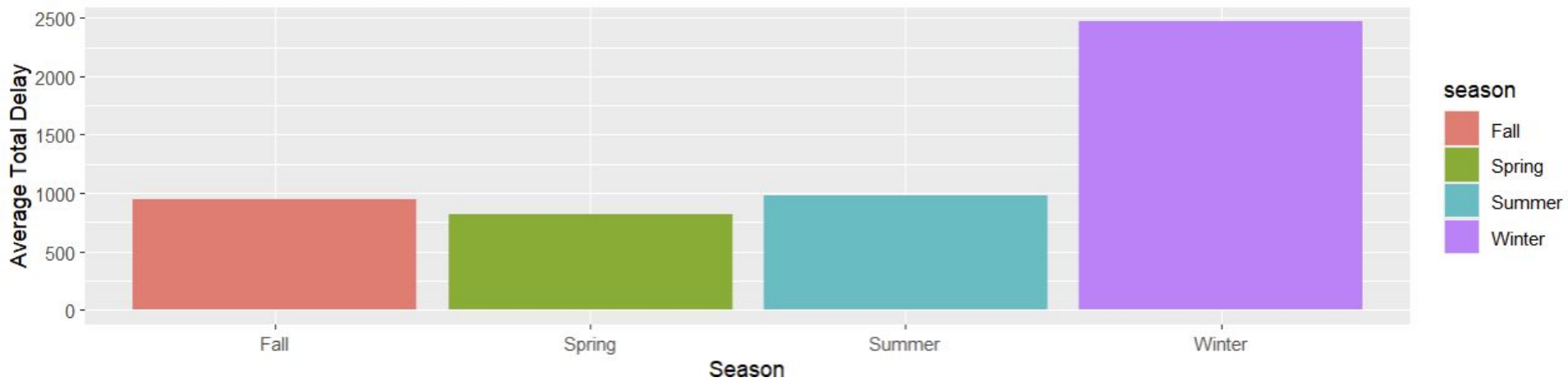


Predicted Delays by Period

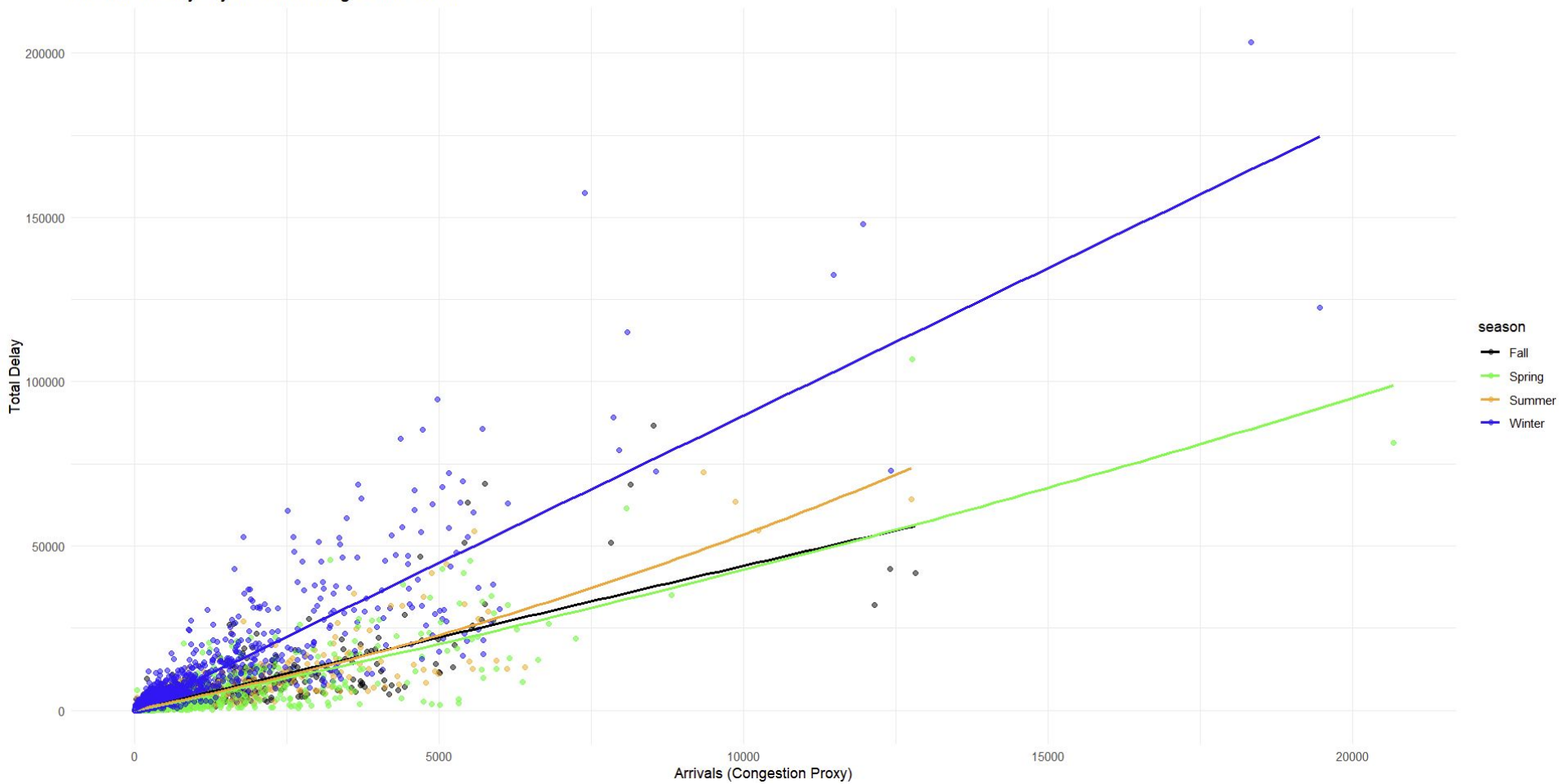




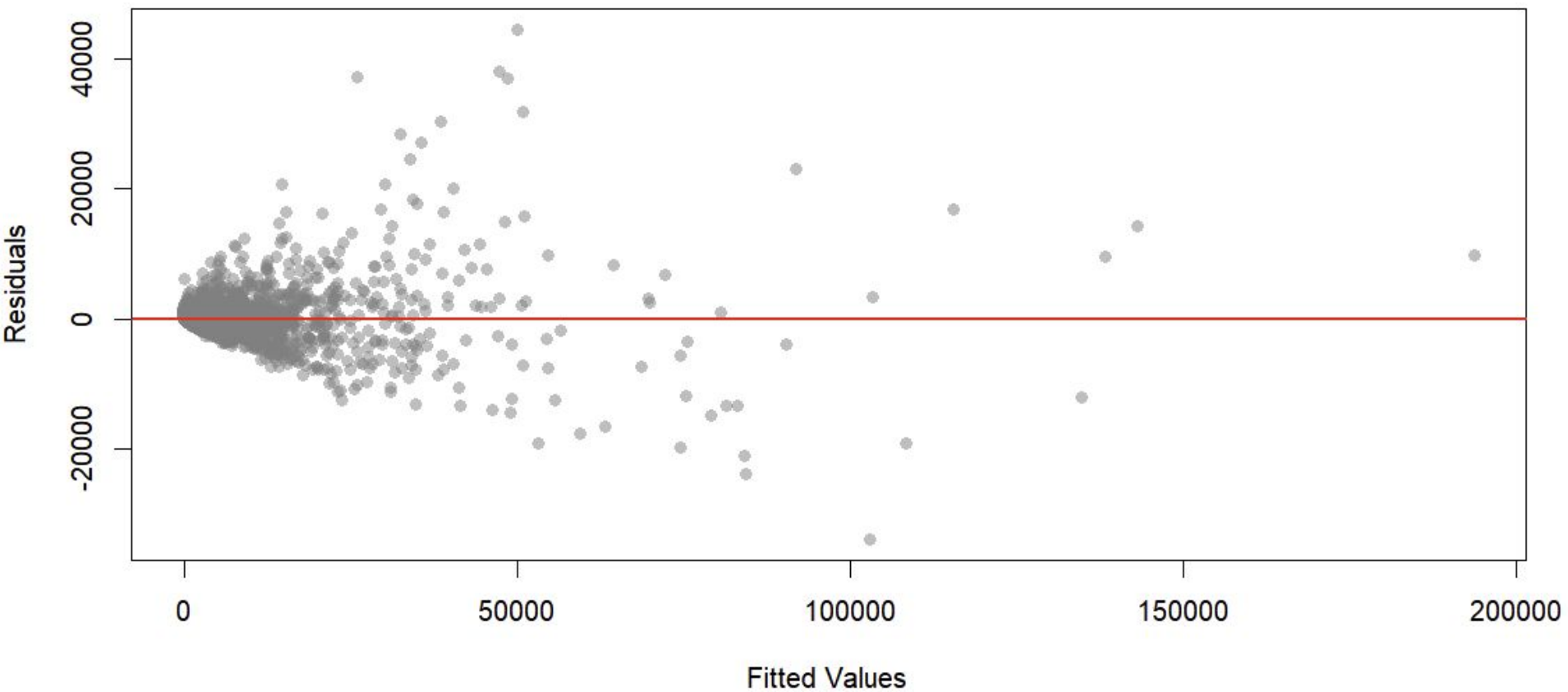
Average Delays by Season in 2020



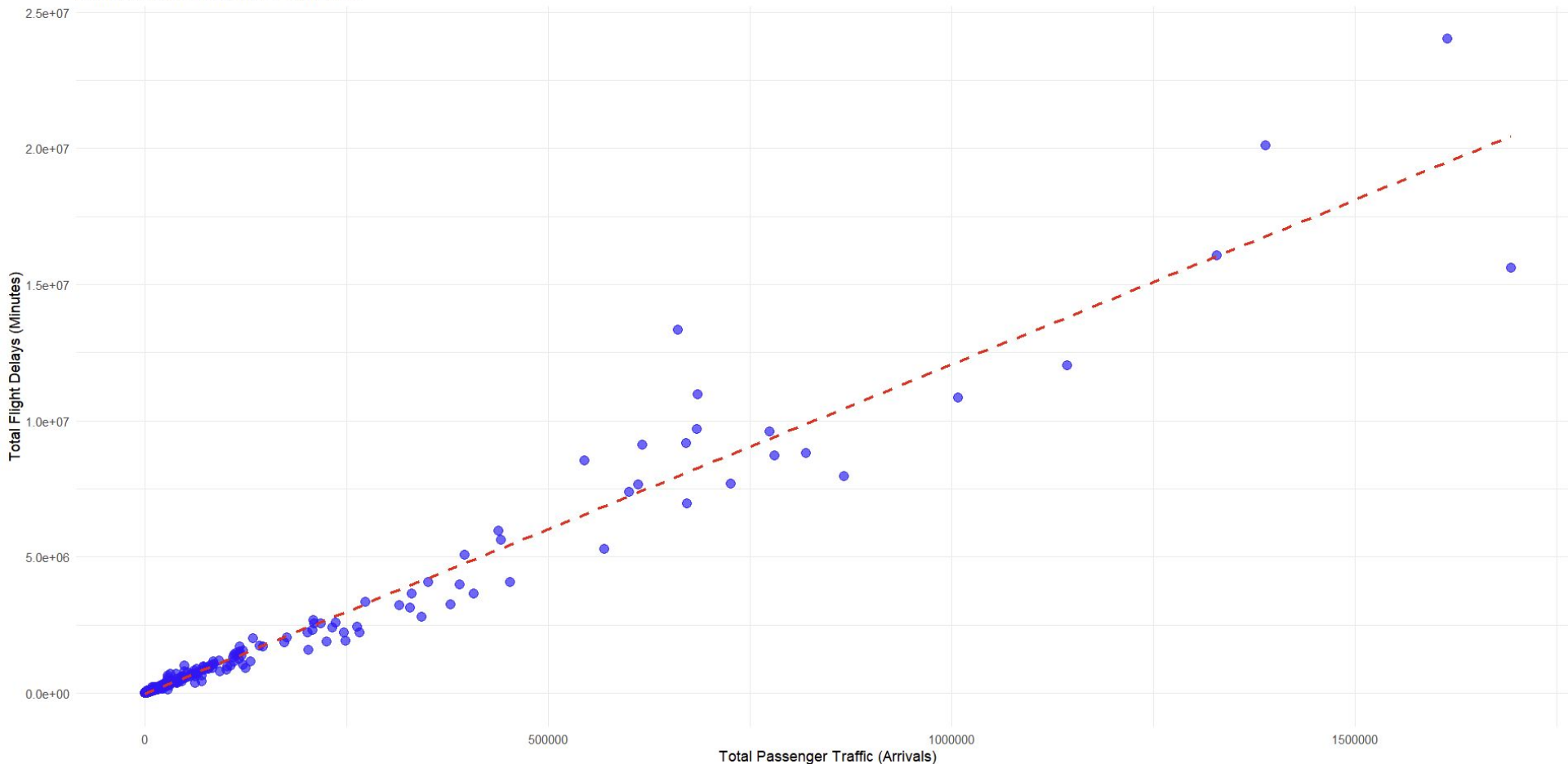
Predicted Delays by Season During COVID-2020



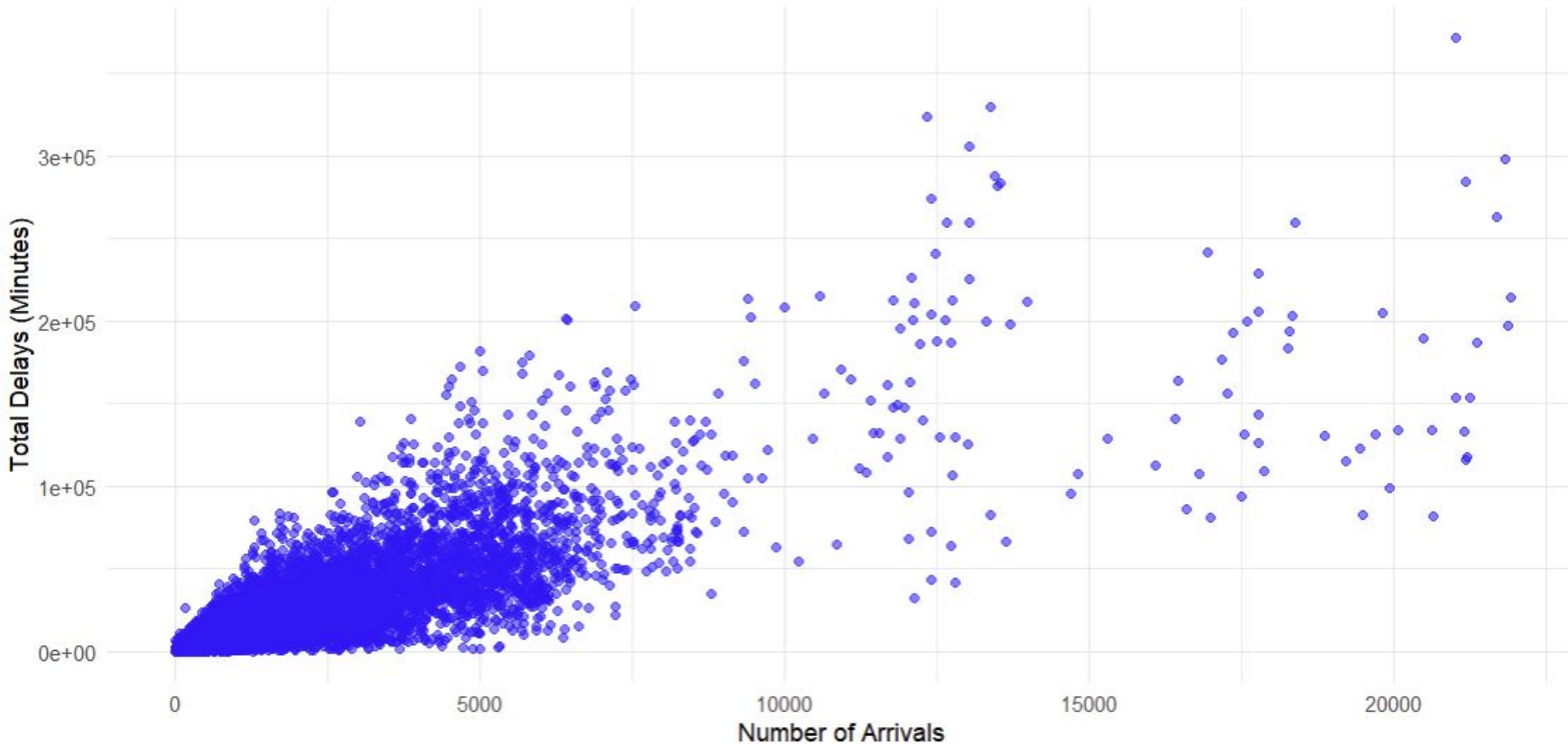
**Residuals vs Fitted (Polynomial Model)**



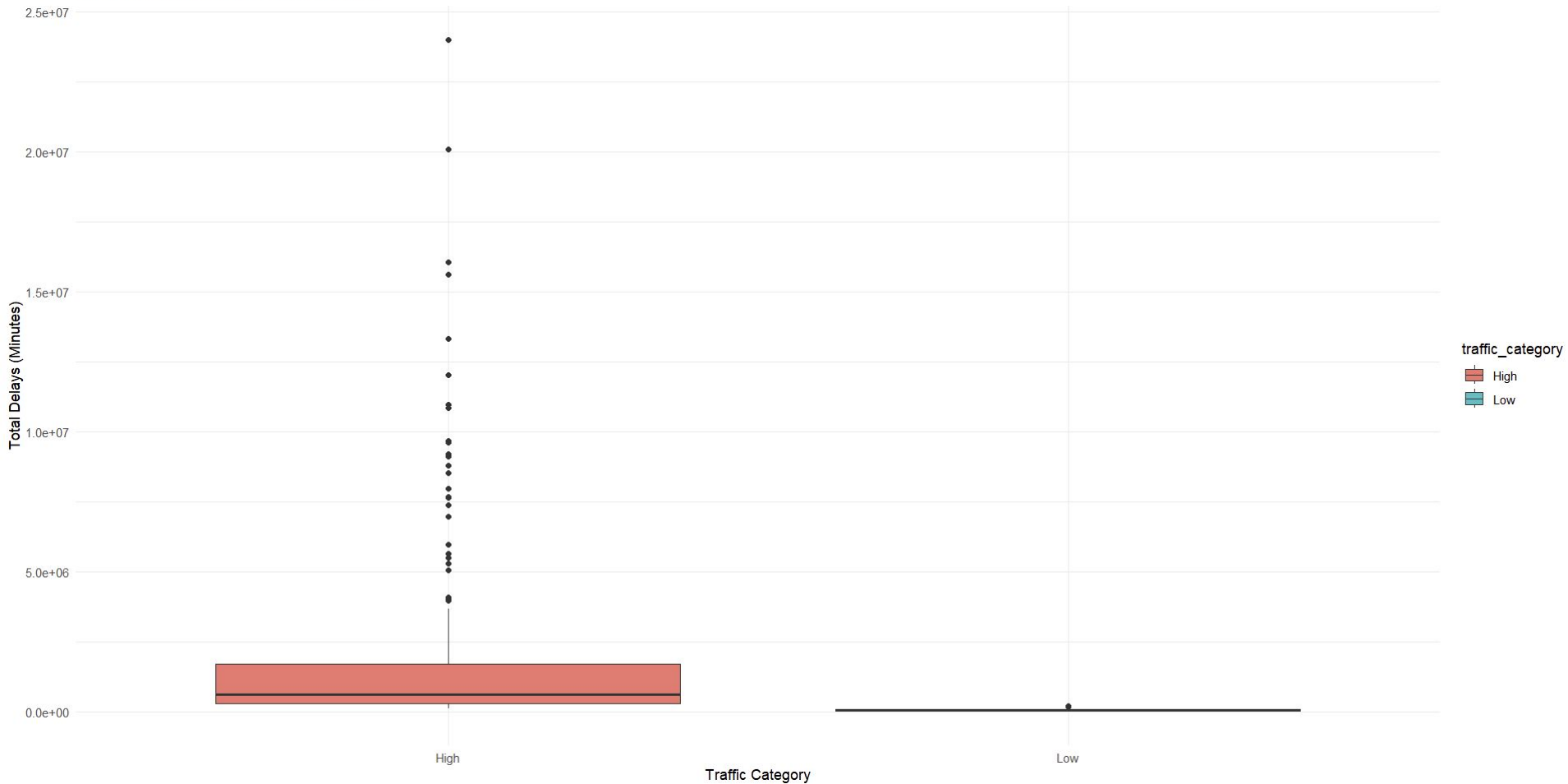
Airport Size (Passenger Traffic) vs Total Flight Delays  
Using Passenger Traffic as a Proxy for Size



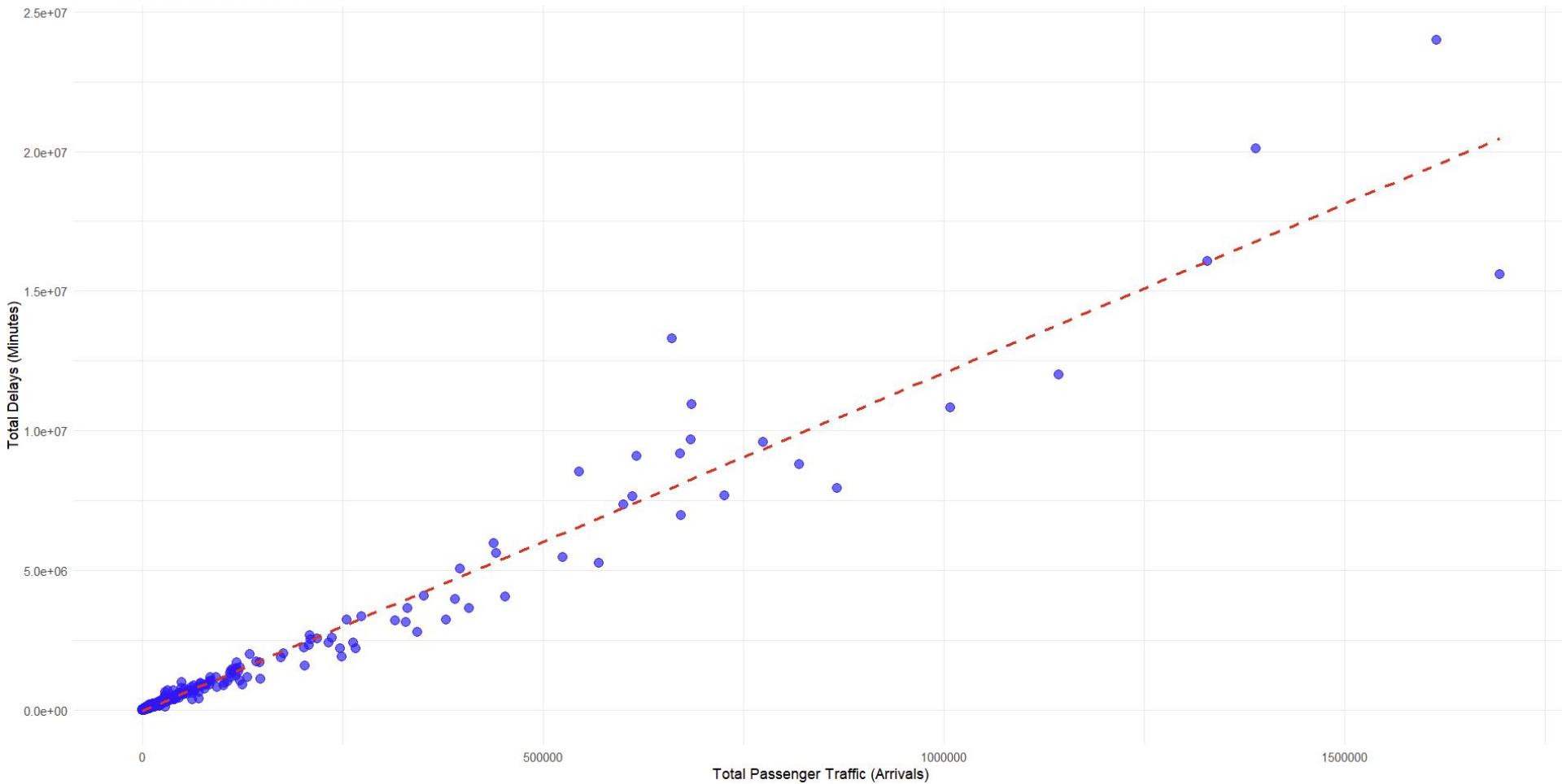
Delays vs. Arrivals (Density Plot)



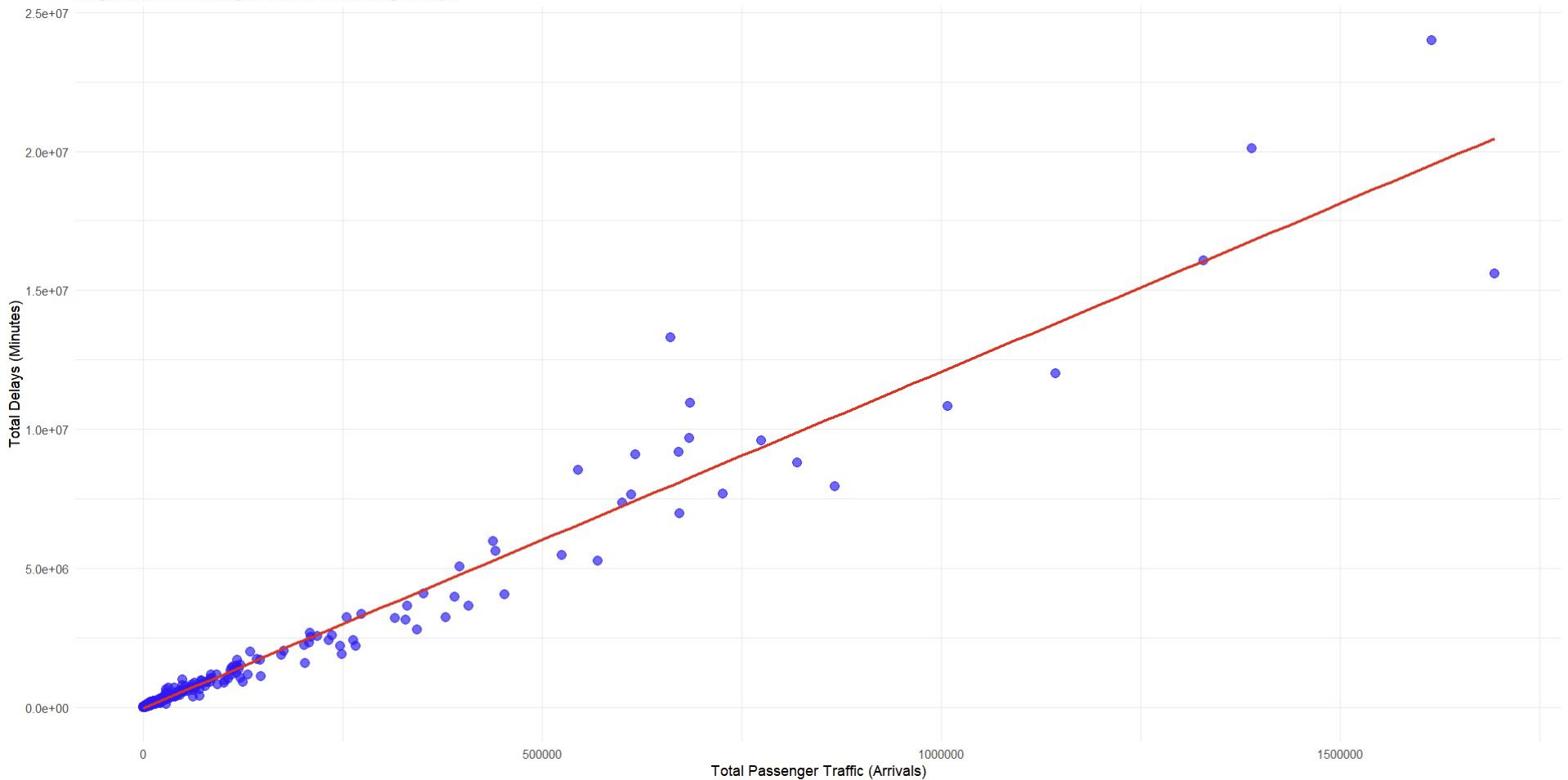
Delays by Passenger Traffic Category



Passenger Traffic vs Total Delays

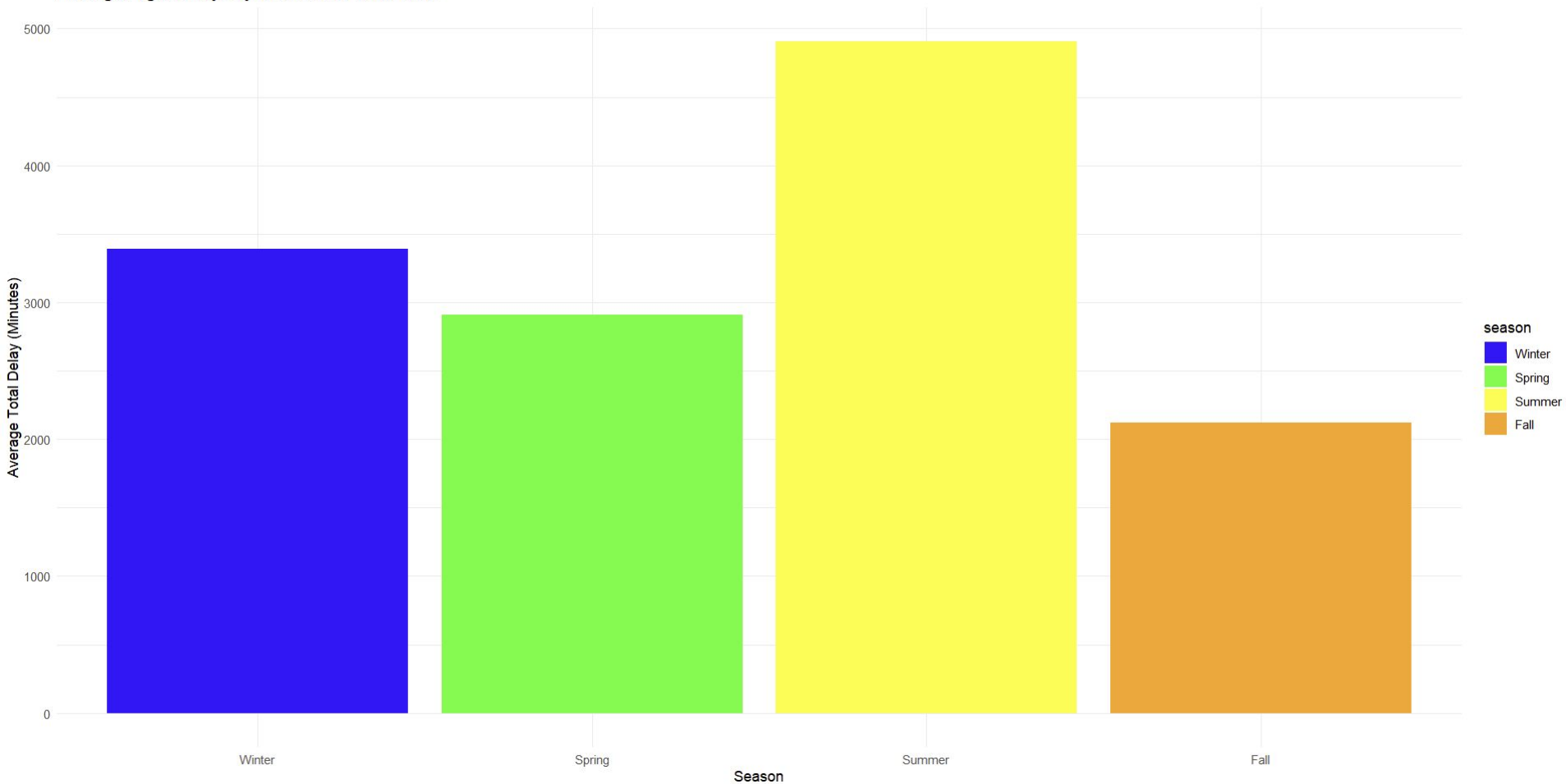


Regression: Passenger Traffic Predicting Delays

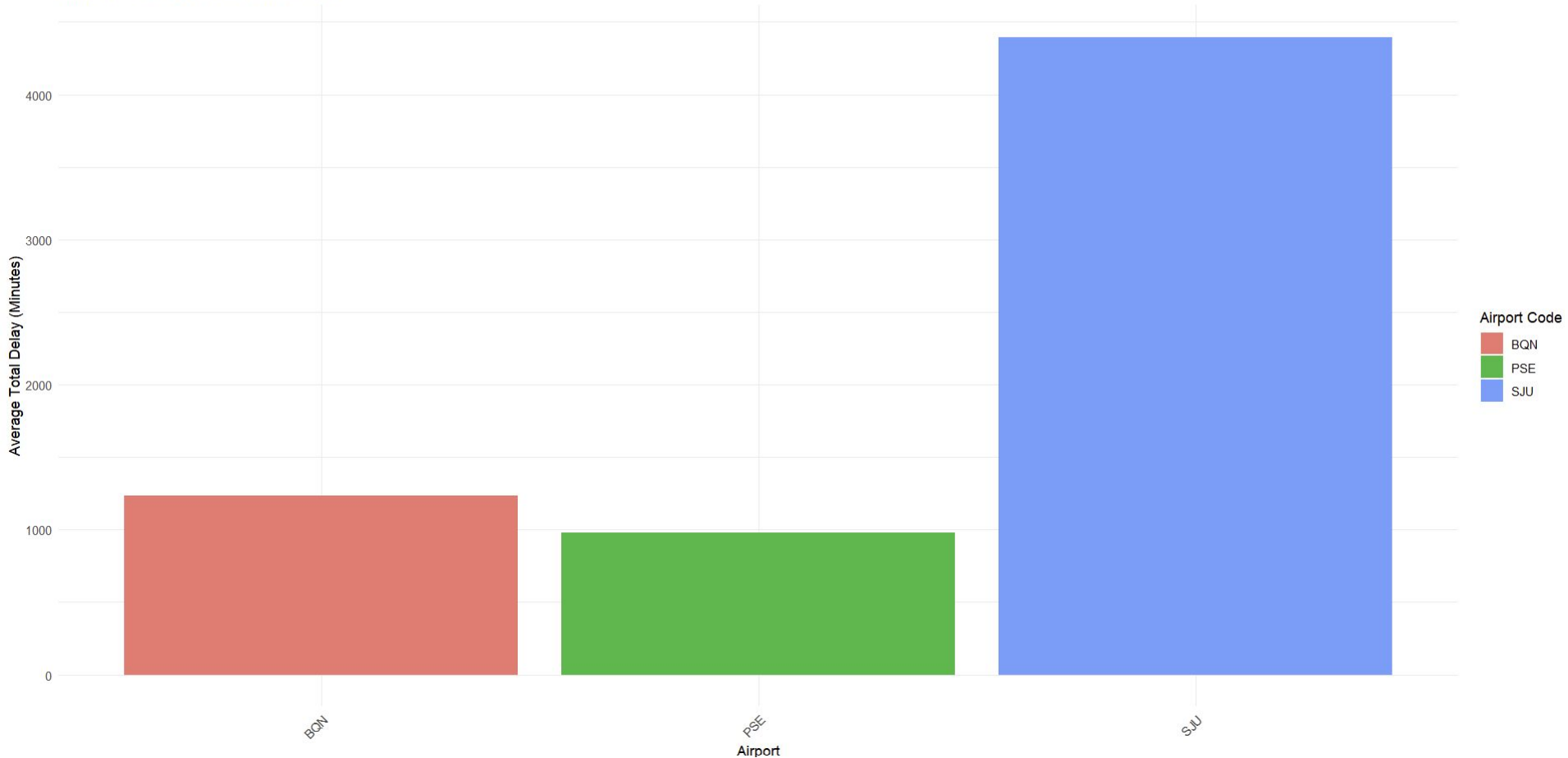




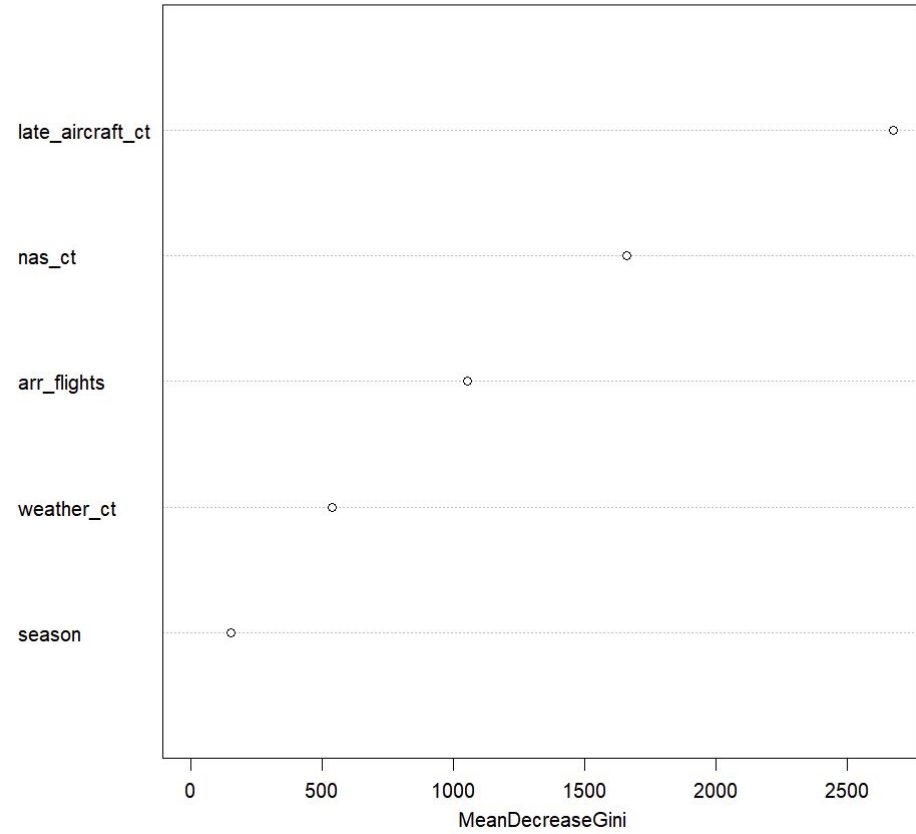
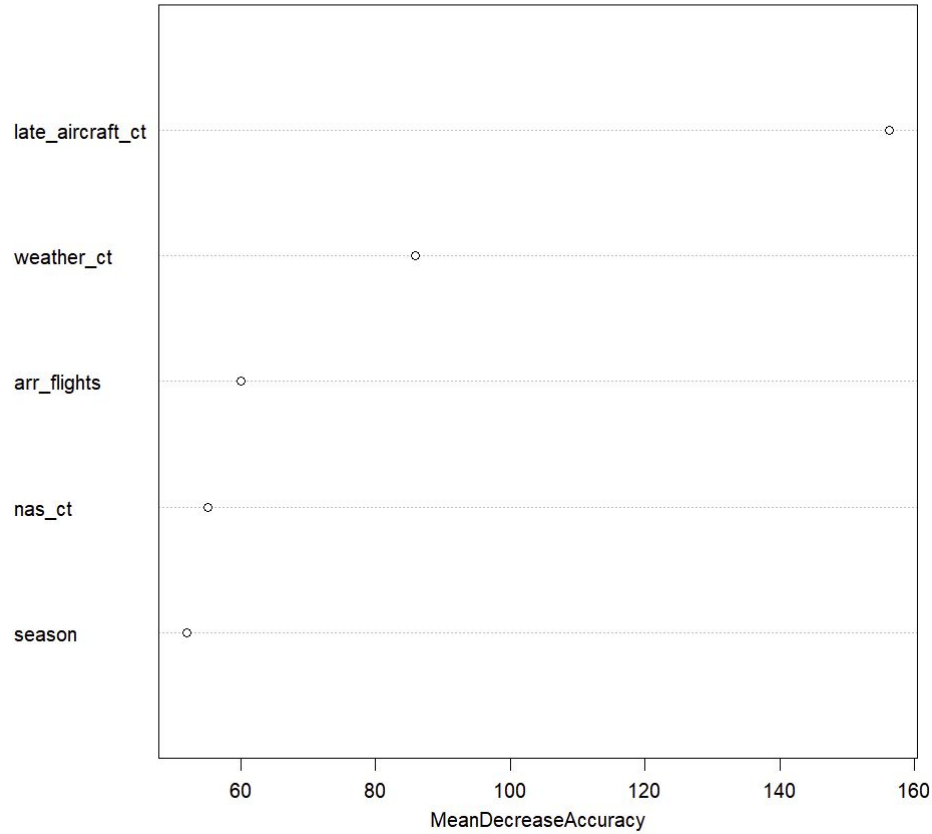
Average Flight Delays by Season in Puerto Rico



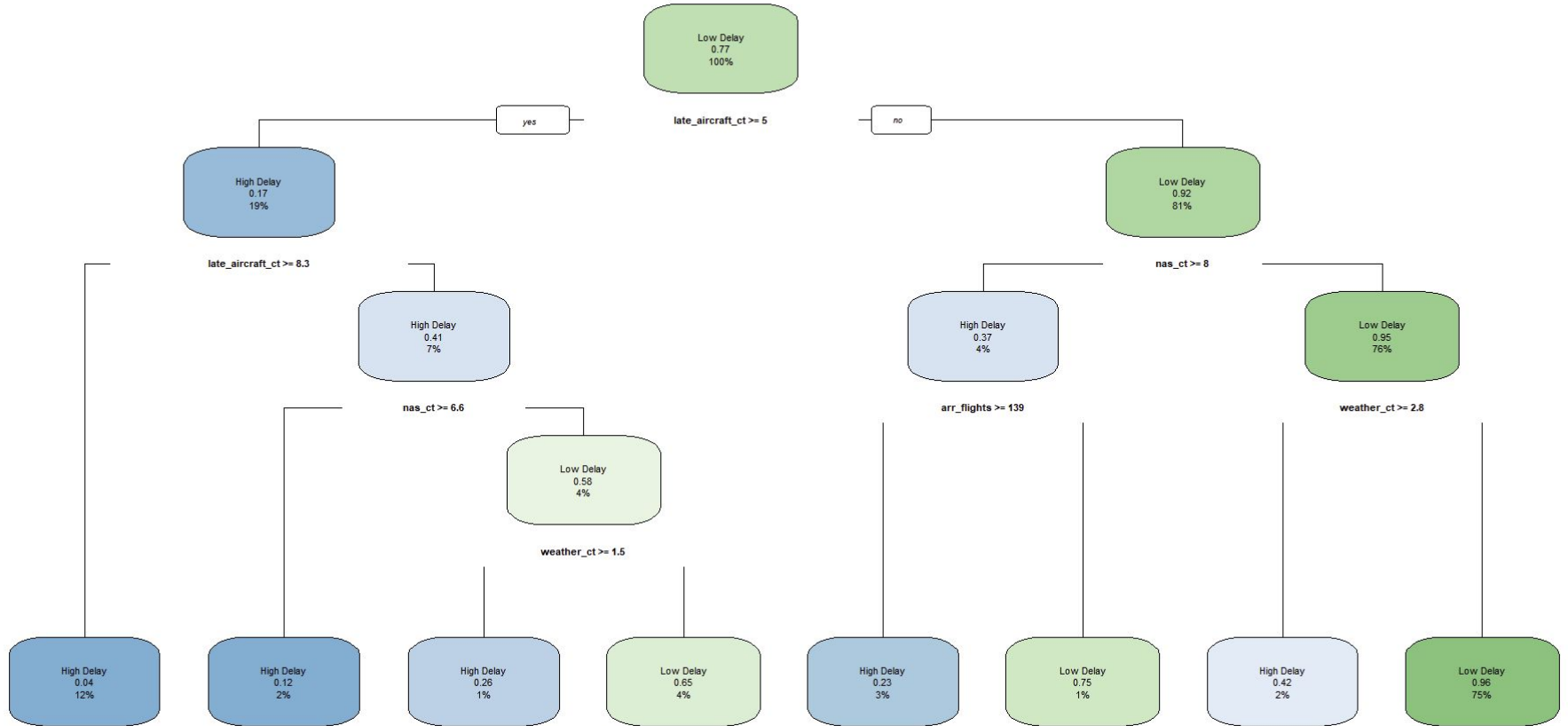
Average Delays for Puerto Rico Airports  
Analysis of Delays for SJU, BQN, and PSE



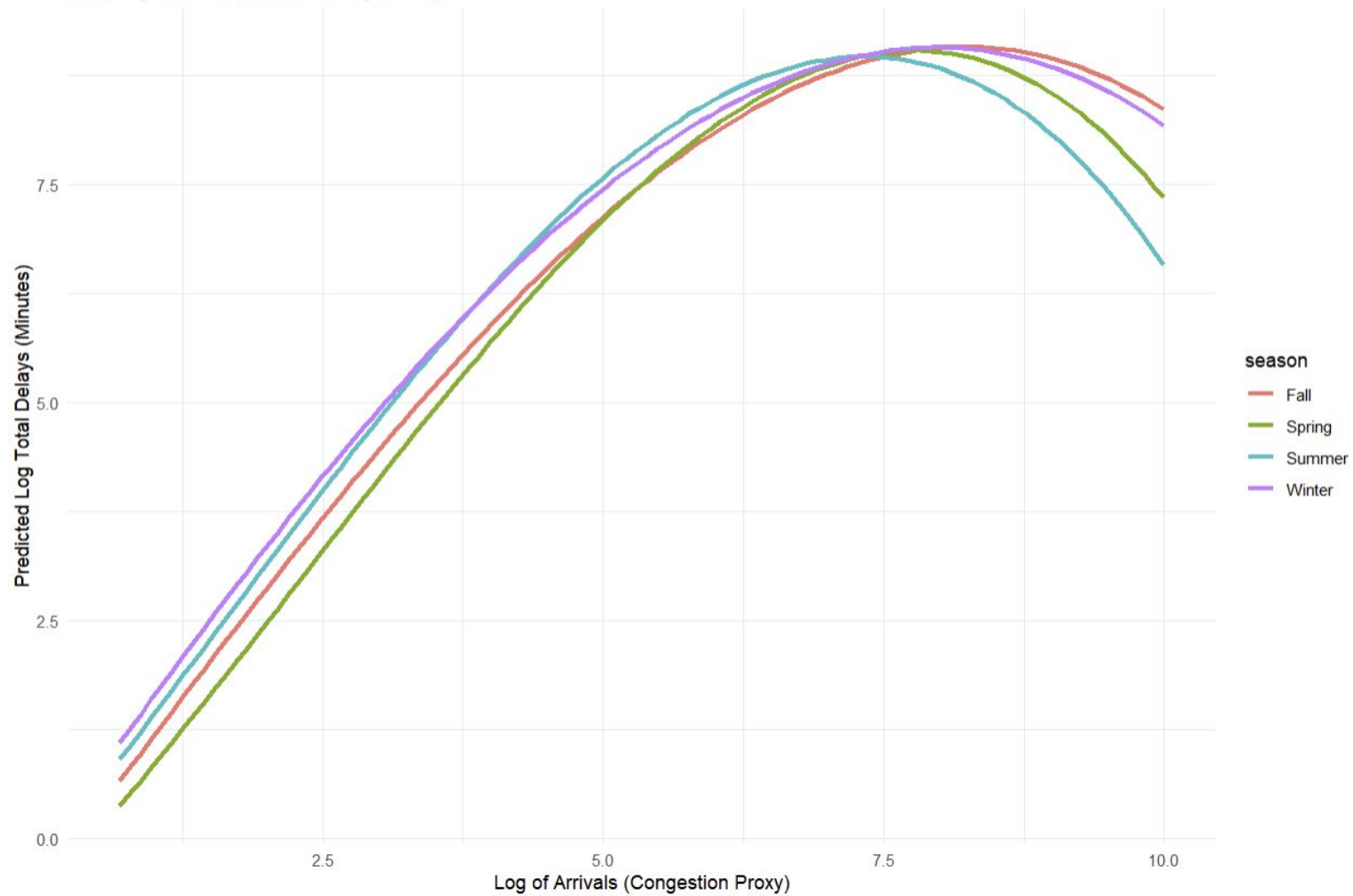
Variable Importance - Random Forest

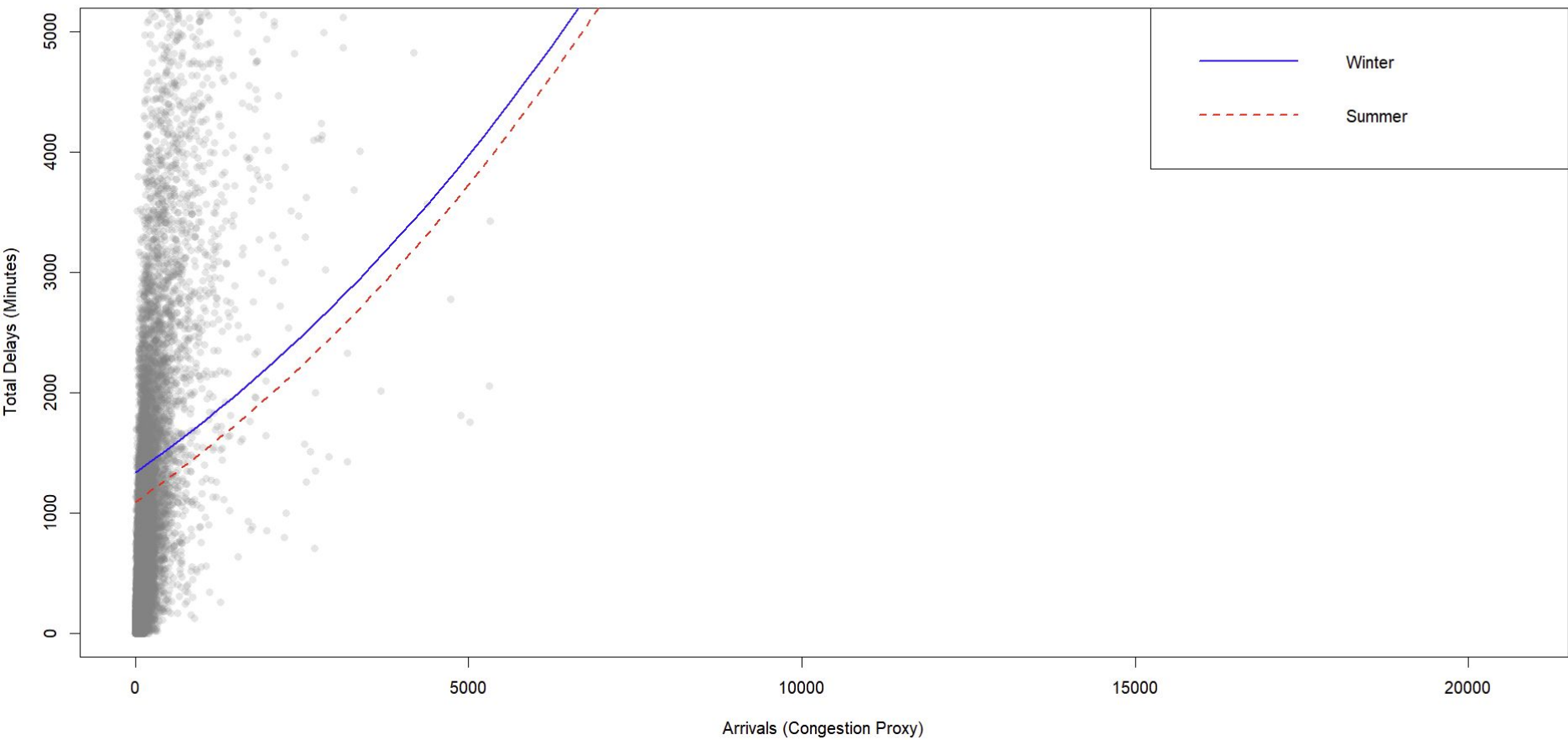


Decision Tree for Flight Delays

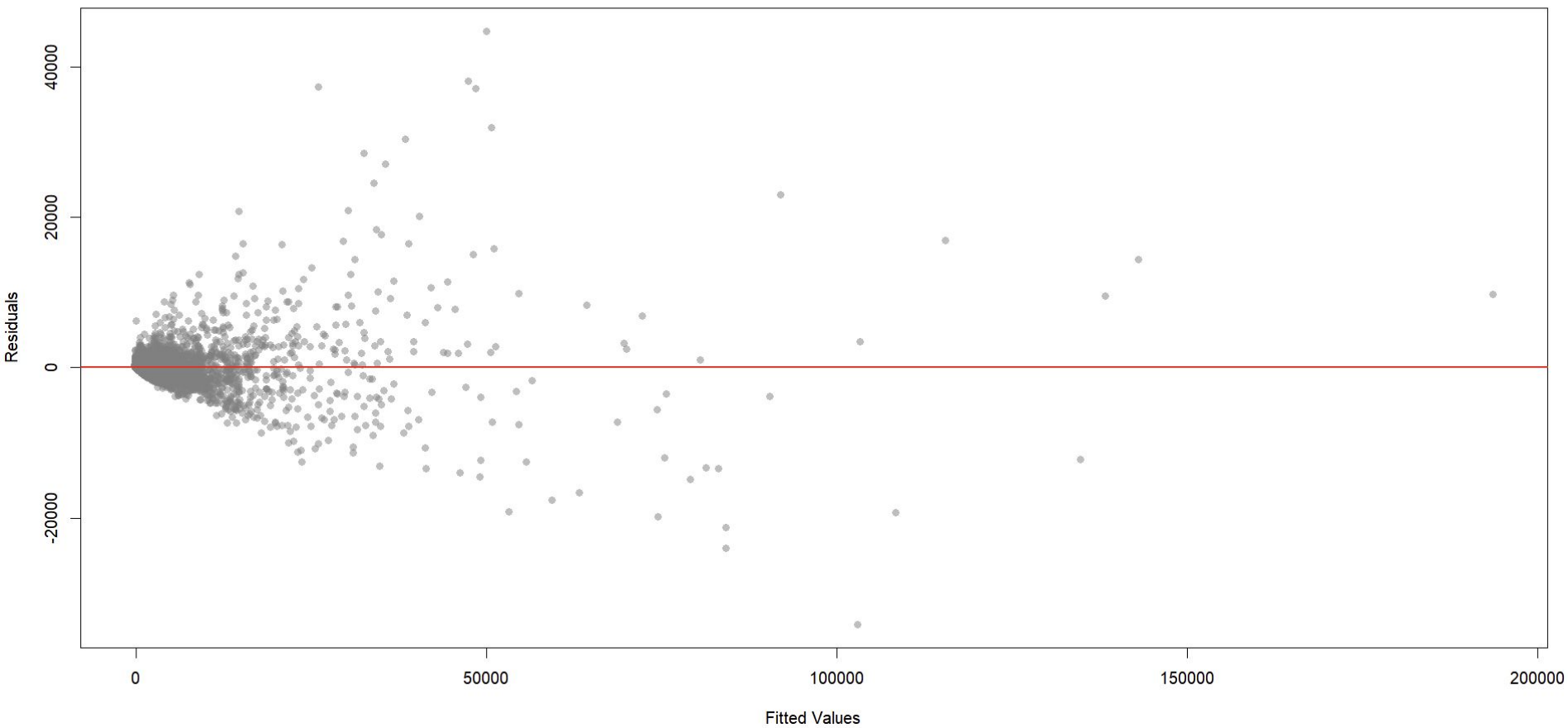


Interaction Effects: Congestion and Seasonality  
Analyzing Seasonal Impacts on Flight Delays

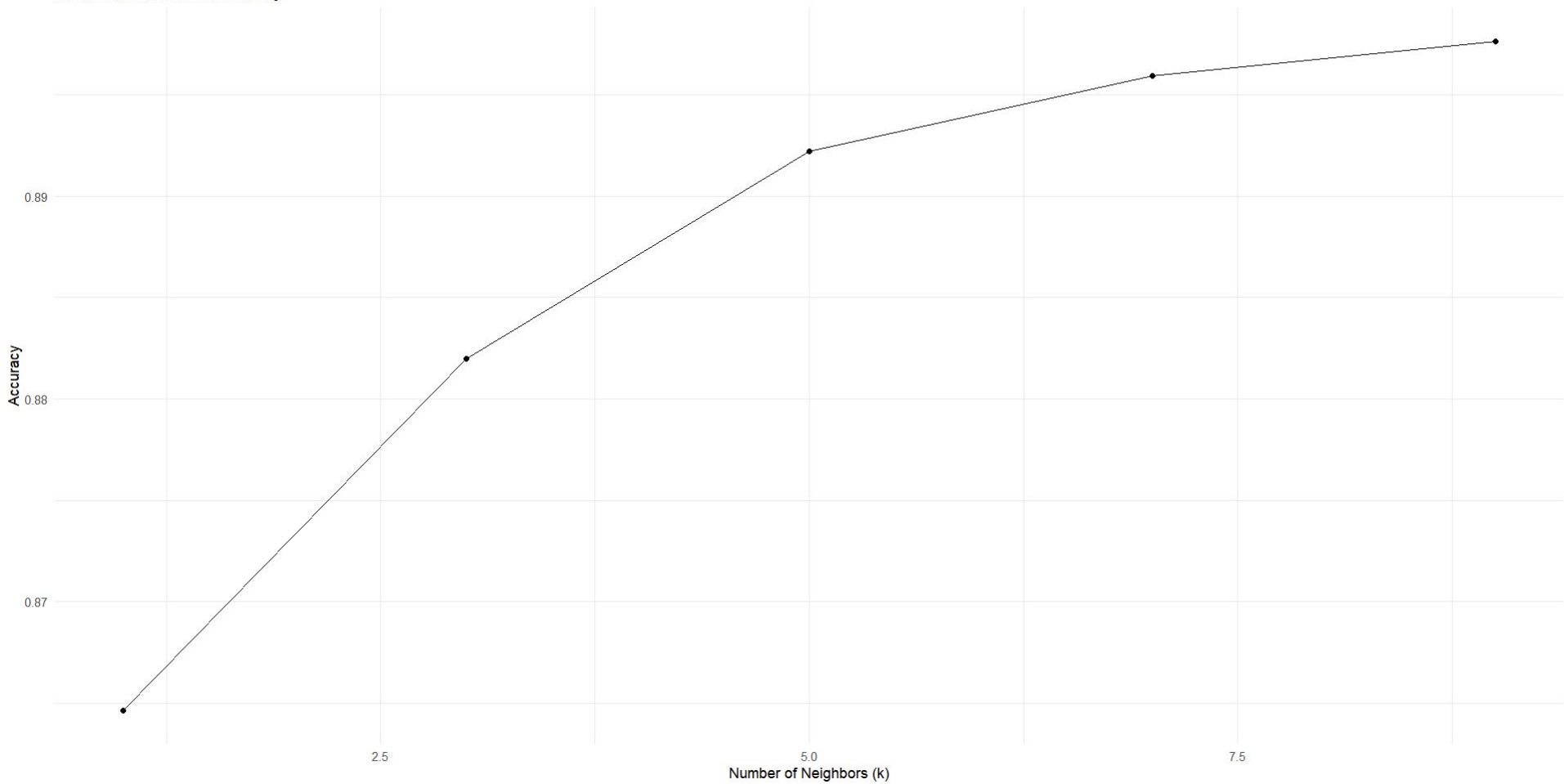




Residuals vs Fitted (Polynomial Model)

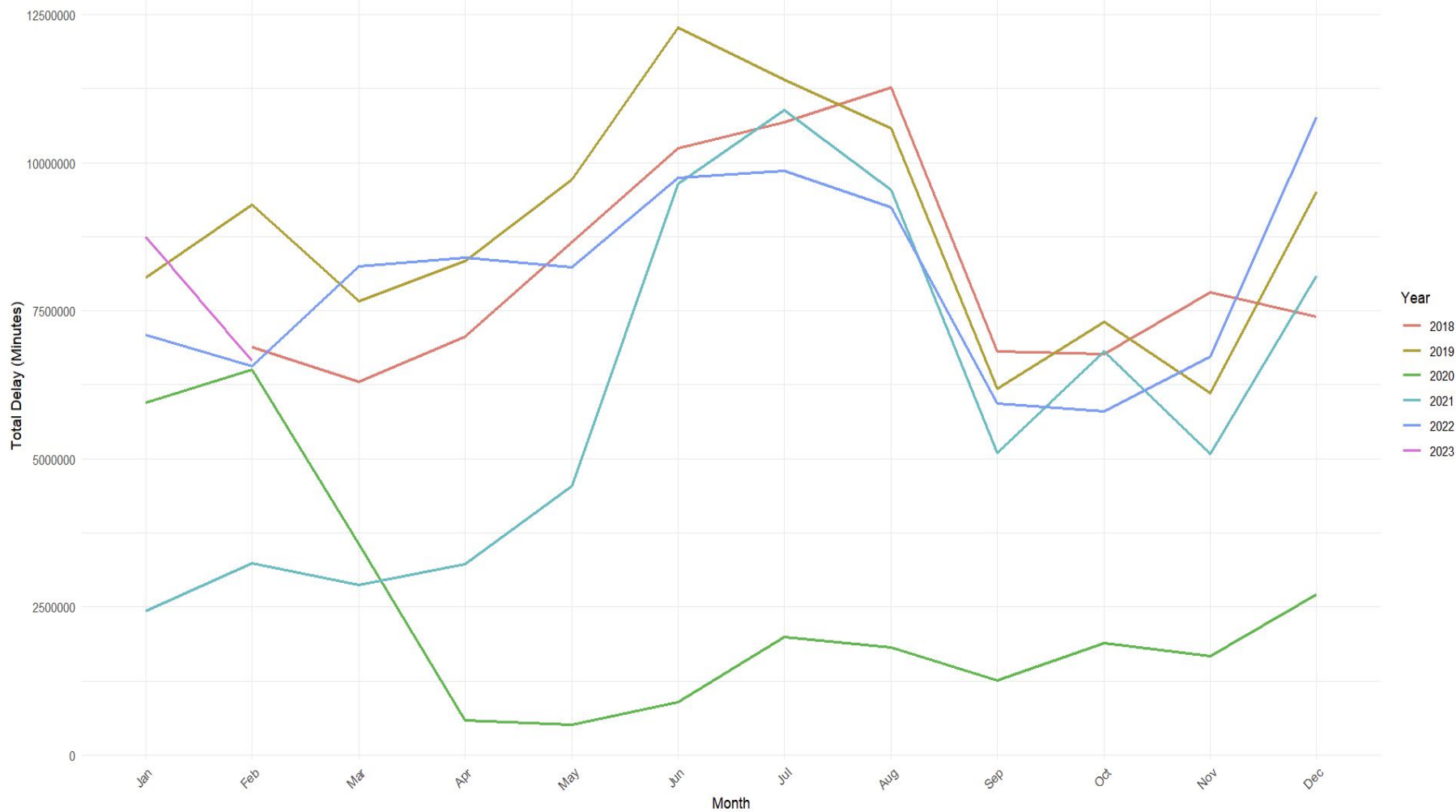


k-NN Classification Accuracy



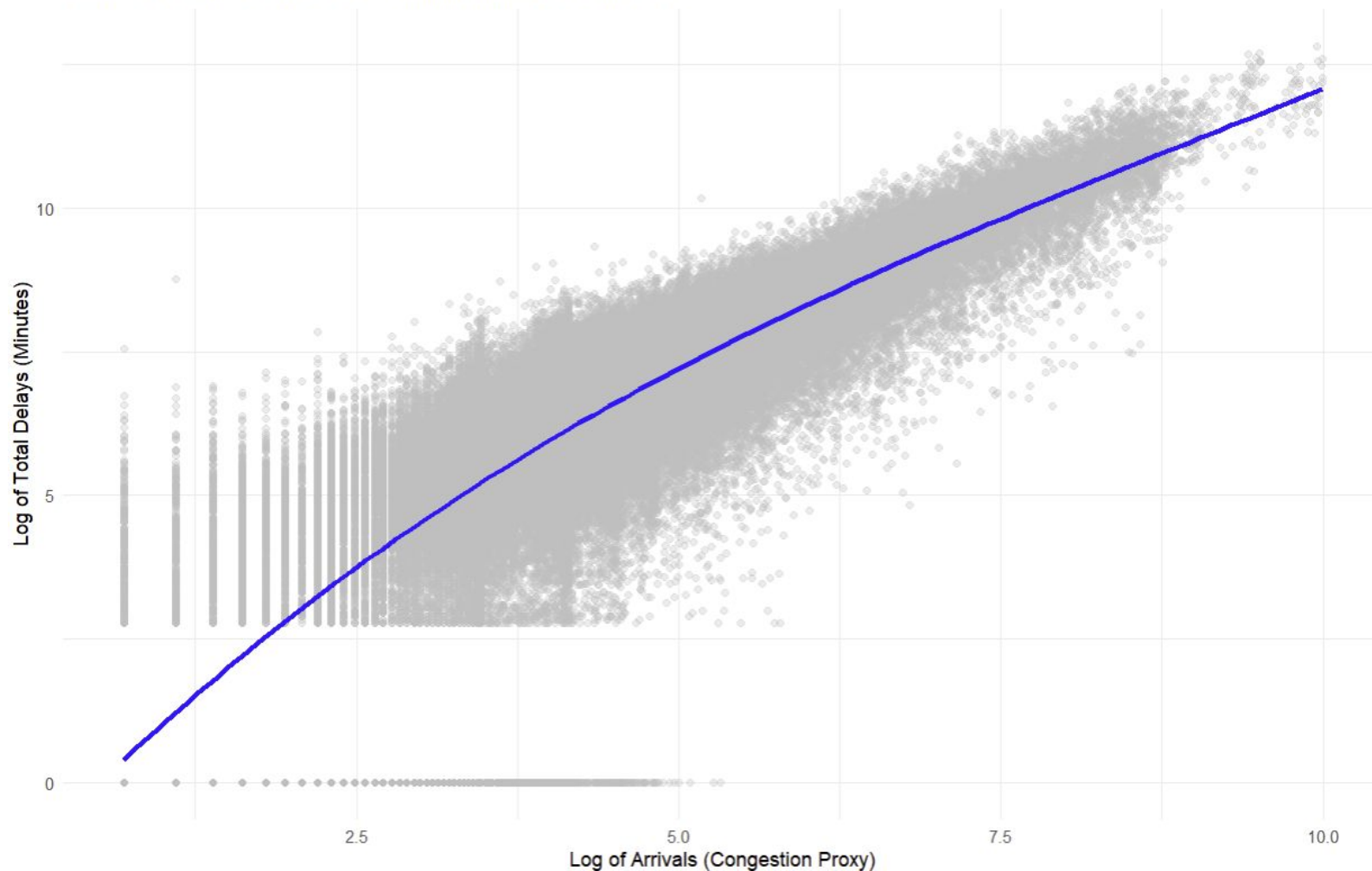


Total Flight Delays by Month (2018-2023)

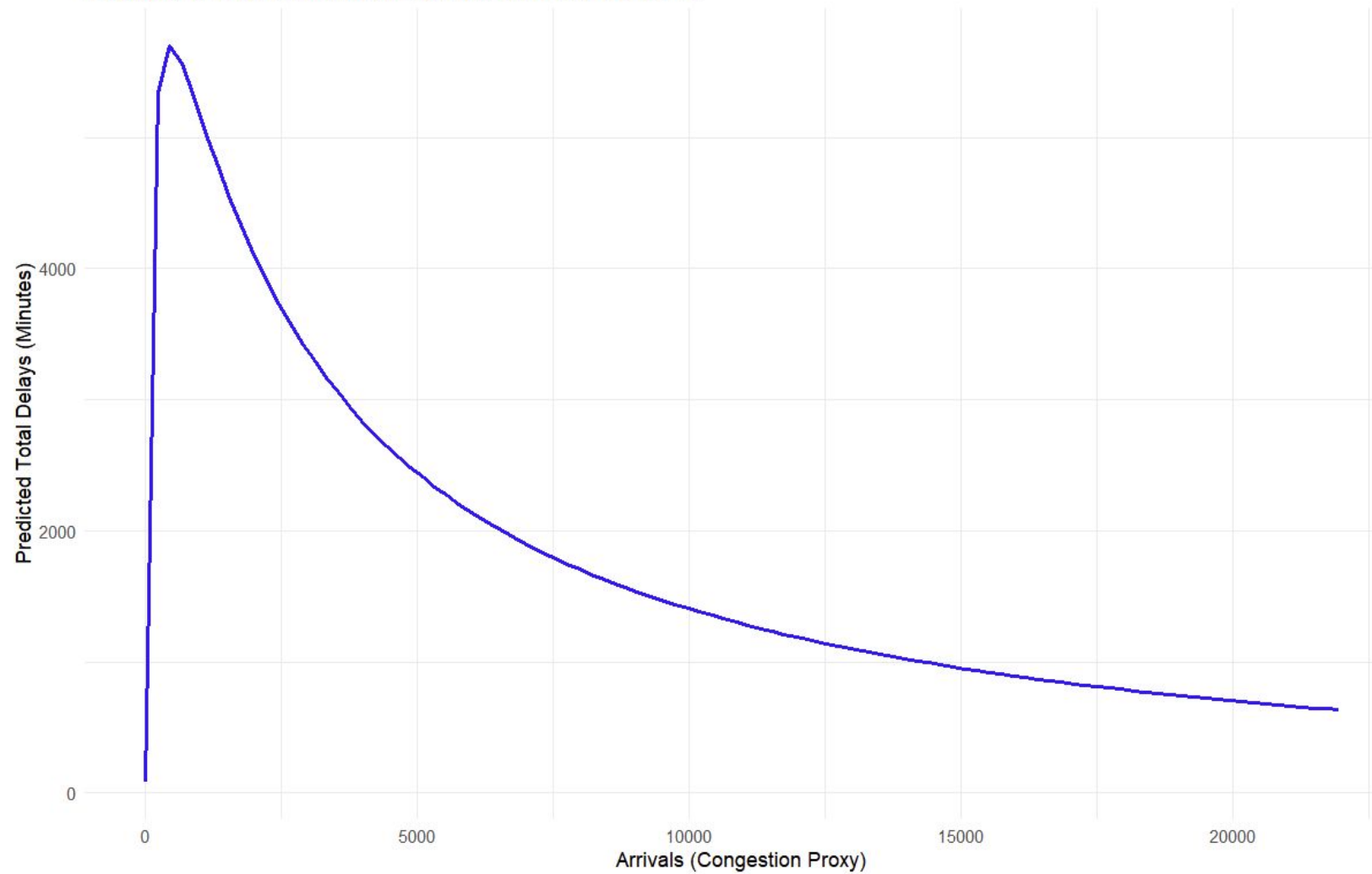


# Polynomial Regression with Additional Factors

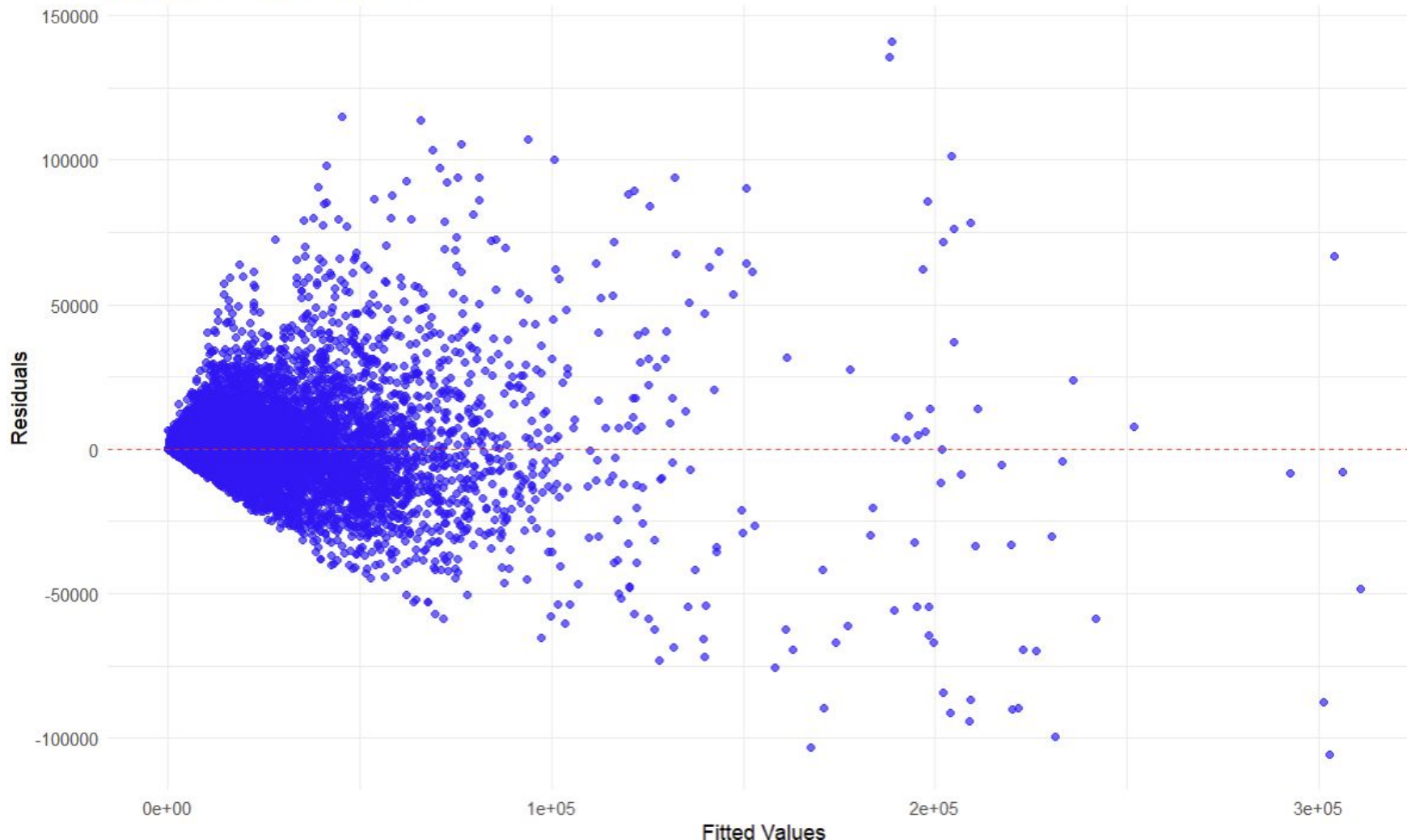
Examining Congestion, Weather, Seasonality, and Operational Issues



Polynomial Regression with Log-Transformed Variables

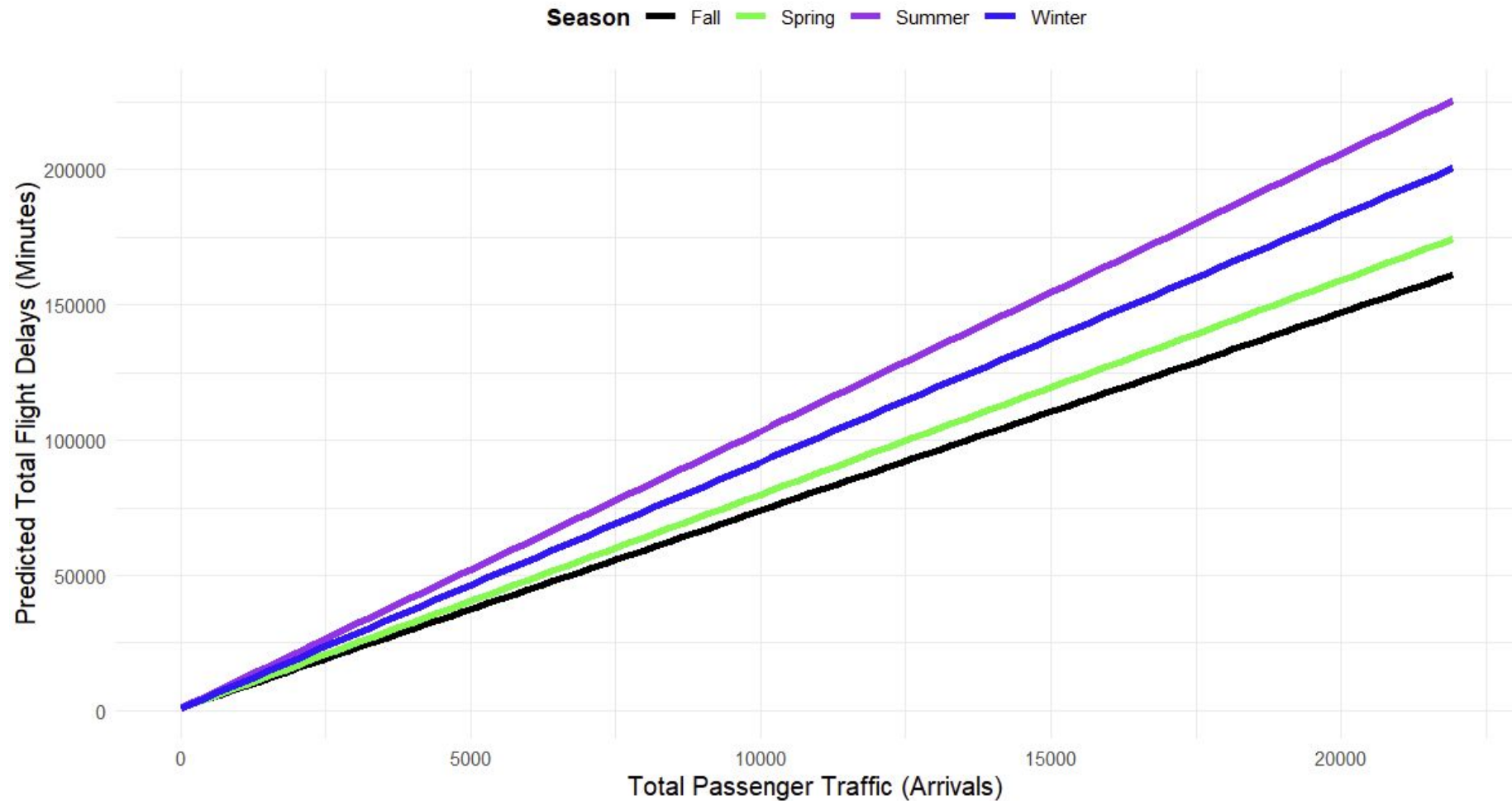


Residuals vs Fitted Values



# Interaction Effects: Passenger Traffic and Seasons on Flight Delays

Analyzing the Impact of Seasons and Traffic on Delays



# Airport Size (Passenger Traffic) vs Total Flight Delays

Using Passenger Traffic as a Proxy for Size

