

# Seasonal Flight Delays

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# Topic & Motivation

## MOTIVATIONS

- Airport delays affect millions of passengers and airlines across the US
- This leads to:
  - increased operational costs, frustrated passengers, & missed connections

## ↘ RESEARCH QUESTION

Does the average delay time differ significantly by airport, weather, region, and season?

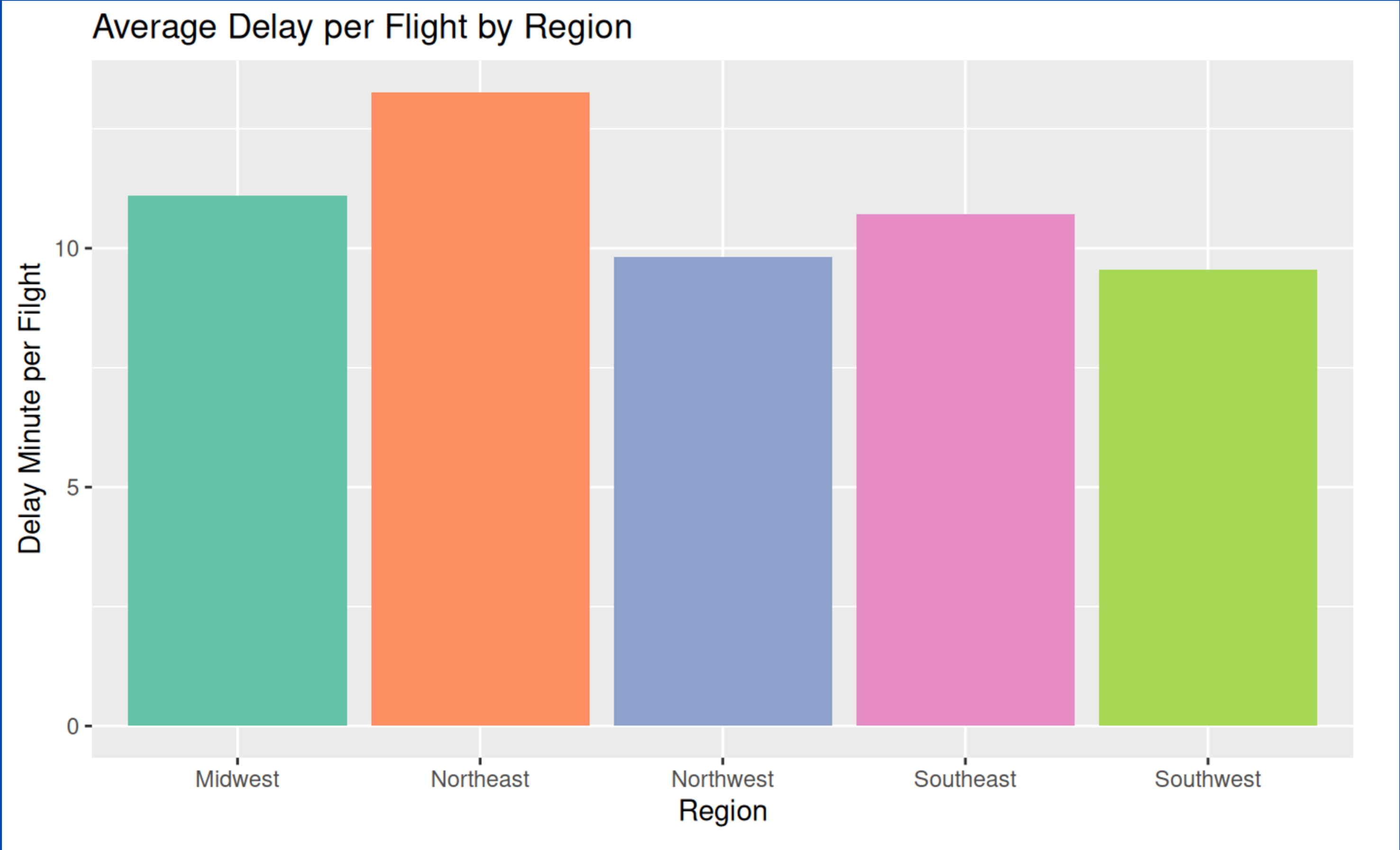
## ↘ GOALS

1. Figure out the best season and location to travel from
2. Observe travel trends in different regions of the US

# The Data

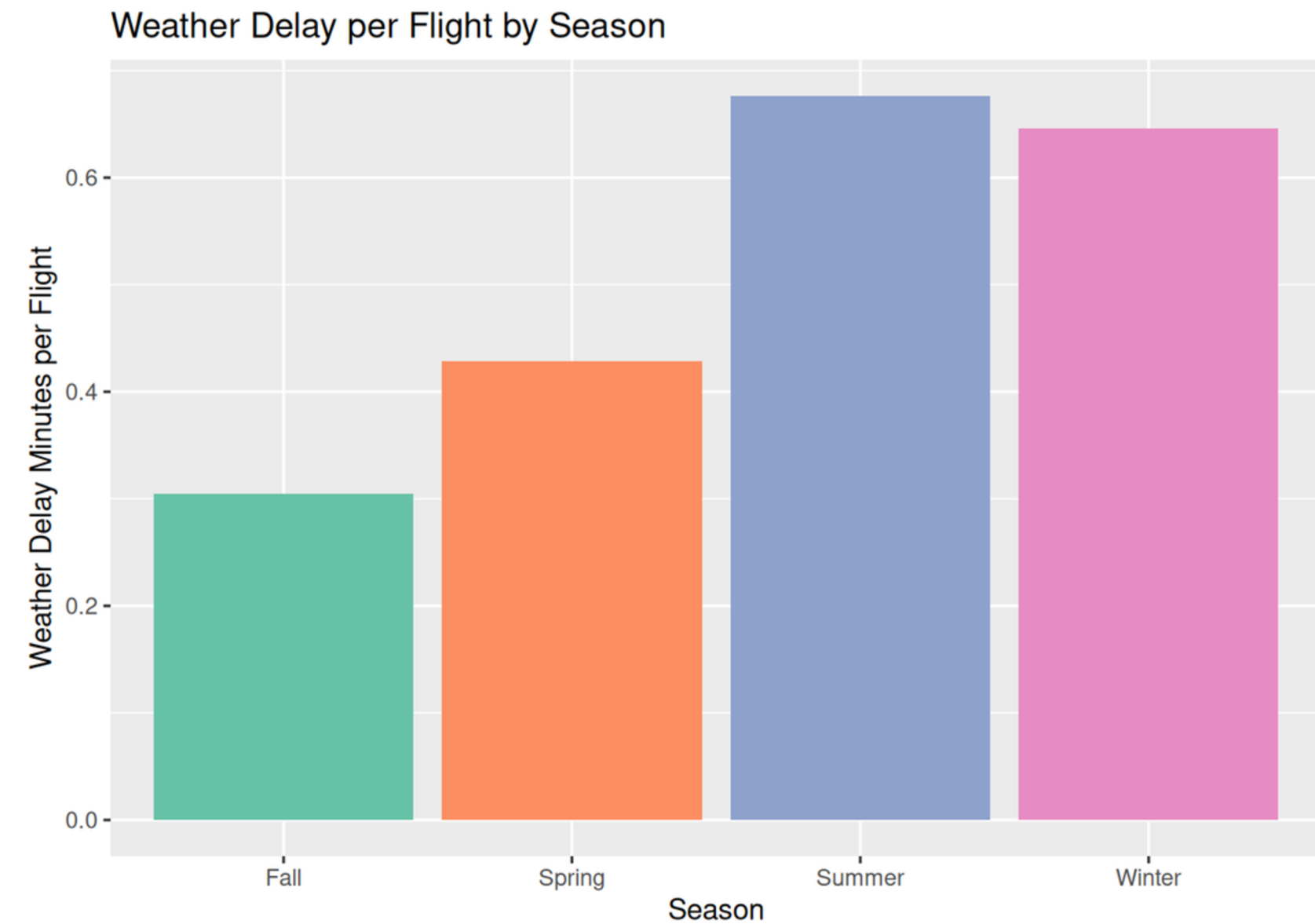
↘ SOURCE	CORGIS, “AIRLINES.CSV”, USDOT
↘ DATE COLLECTED	MARCH 27 <sup>TH</sup> , 2015 BY US DOT
↘ # OF OBSERVATIONS	4,408 (# OF AIRPORTS)
↘ VARIABLES	FROM DATASET: STATE, AIRPORT NAME, MINUTES DELAYED (TOTAL), MINUTES DELAYED (WEATHER) CREATED: US REGION, SEASON, AVERAGE DELAY (PER FLIGHT), AVERAGE DELAY (WEATHER)
↘ ANALYSIS	AVERAGE DELAY (TIME) DIVIDED BY # OF FLIGHTS

# CHART 1

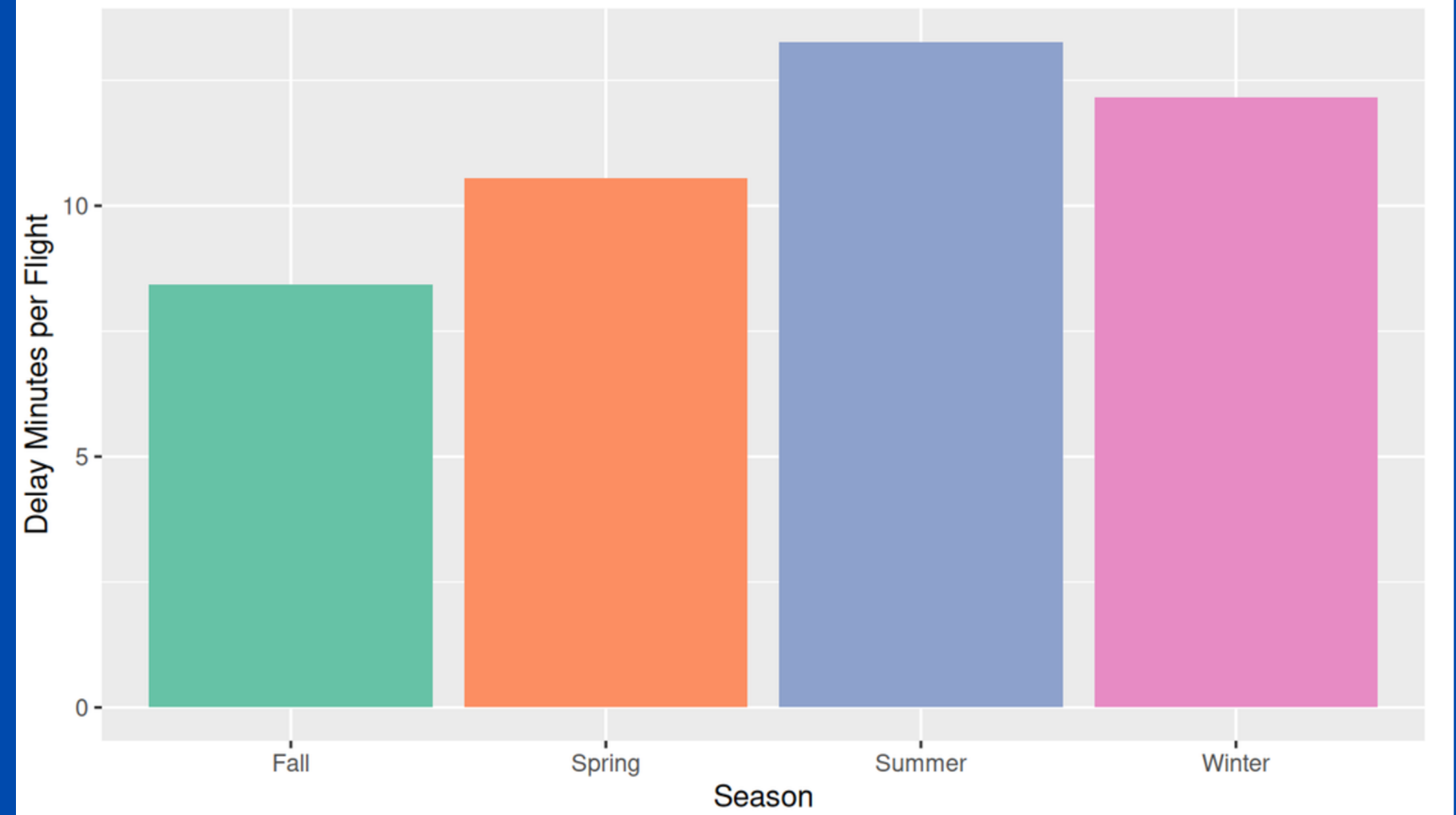


# CHART 2

## Weather: Seasonal Pattern

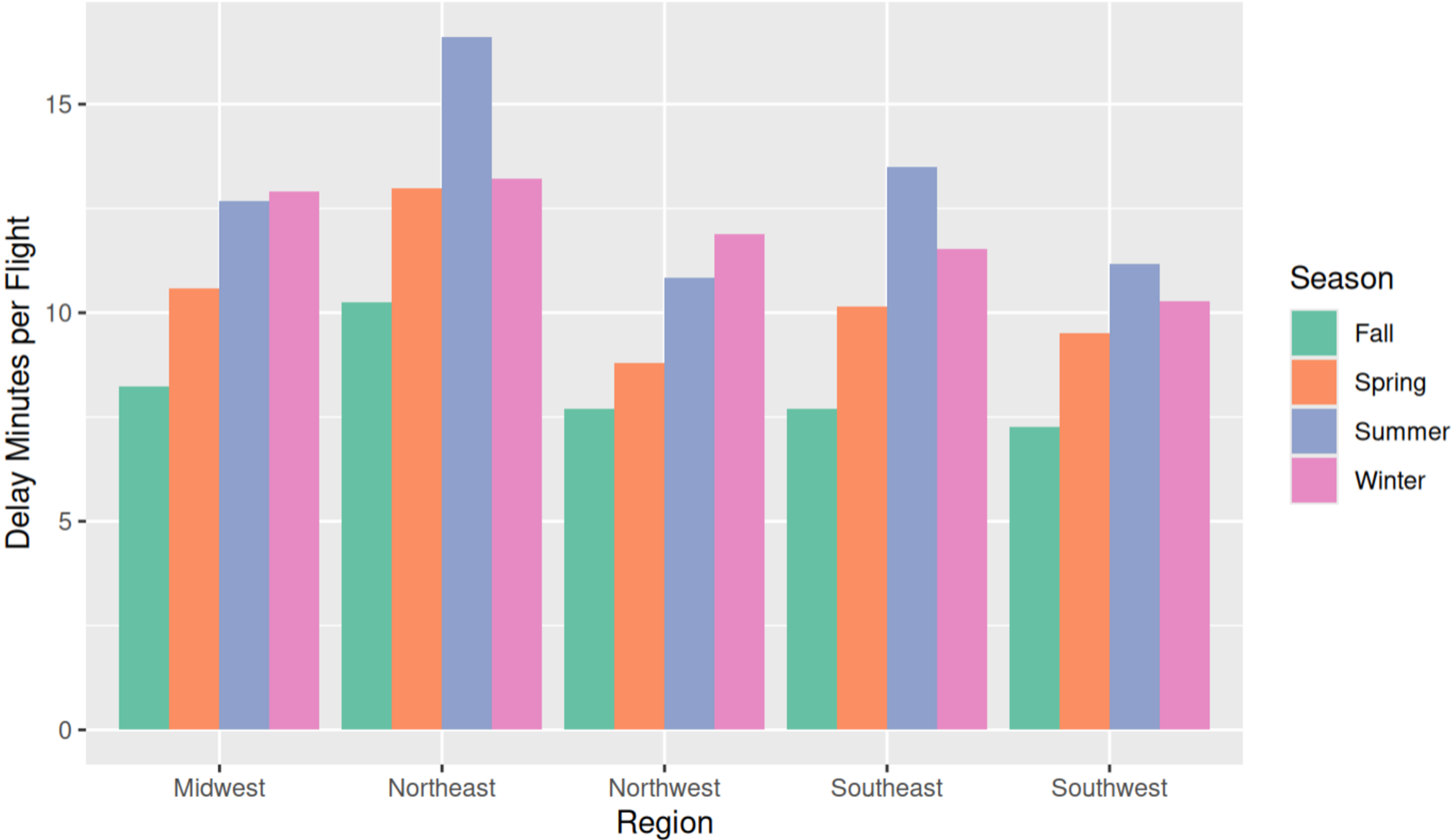


## Average Delay per Flight by Season



# CHART 3

## Delay per Flight by Region and Season



# Discussion

HIGHEST AVERAGE  
DELAY TIME:  
THE NORTHEAST.



WORST SEASON  
TO FLY DURING:  
THE SUMMER.



Other factors can impact  
delays. Such as...

- plane malfunctions
- staffing shortages

Understanding the total  
& weather trends match,  
but other factors, i.e.  
traffic, impact travel  
outcomes.

DISCUSSION

LIMITATIONS

# Thank You!

