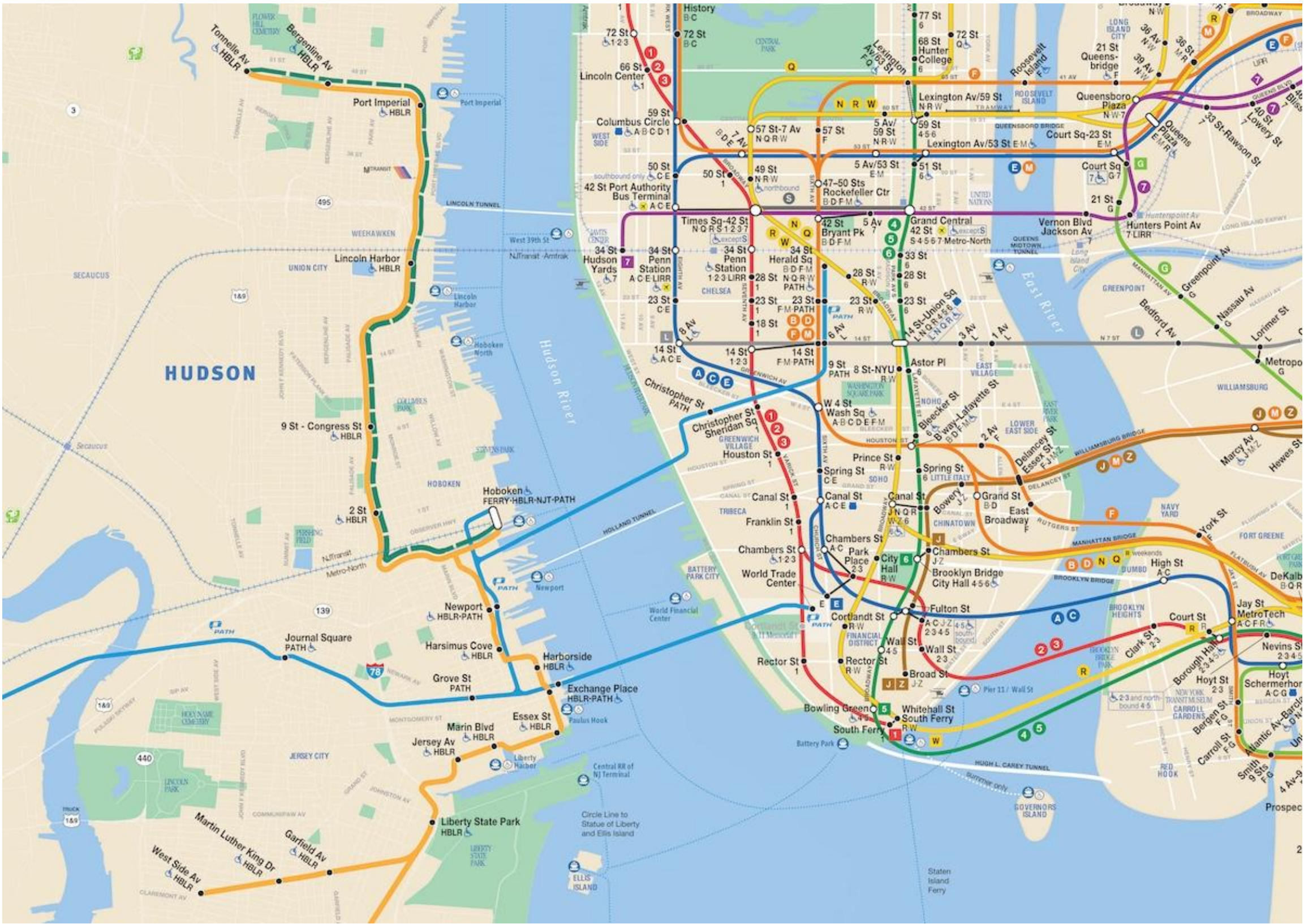


Analysing MTA Traffic Data From Summer 2021

Milad Afrasiabi
September 2021



Question:

Where is the right place?

And when is the right time?

Dataset:

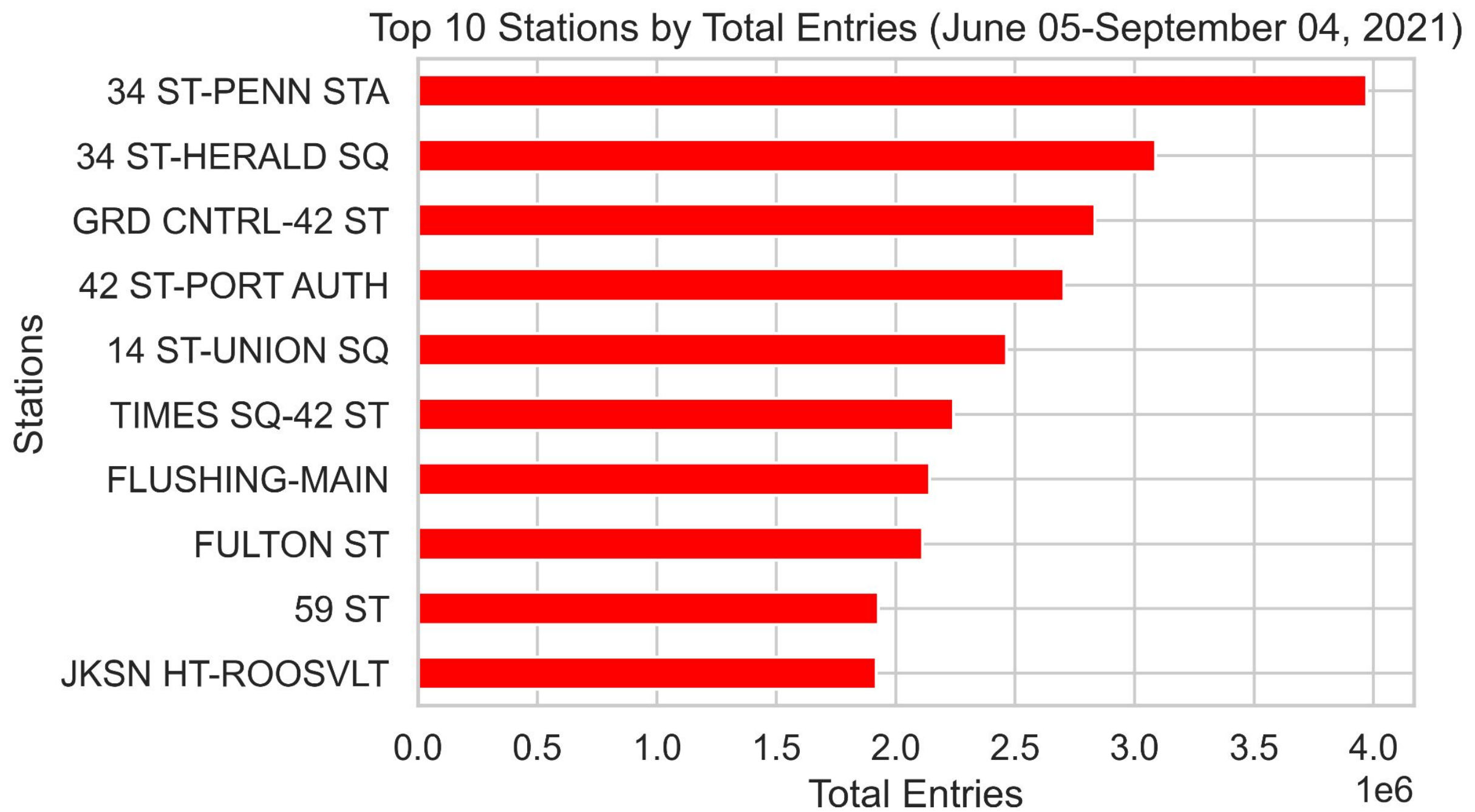
- 13 weeks of weekly recorded cumulative entry and exit data recorded at 5030 individual turnstiles across 478 stations
- From June 5 to September 4, 2021
- Public data available at <http://web.mta.info/developers/turnstile.html>

Methodology:

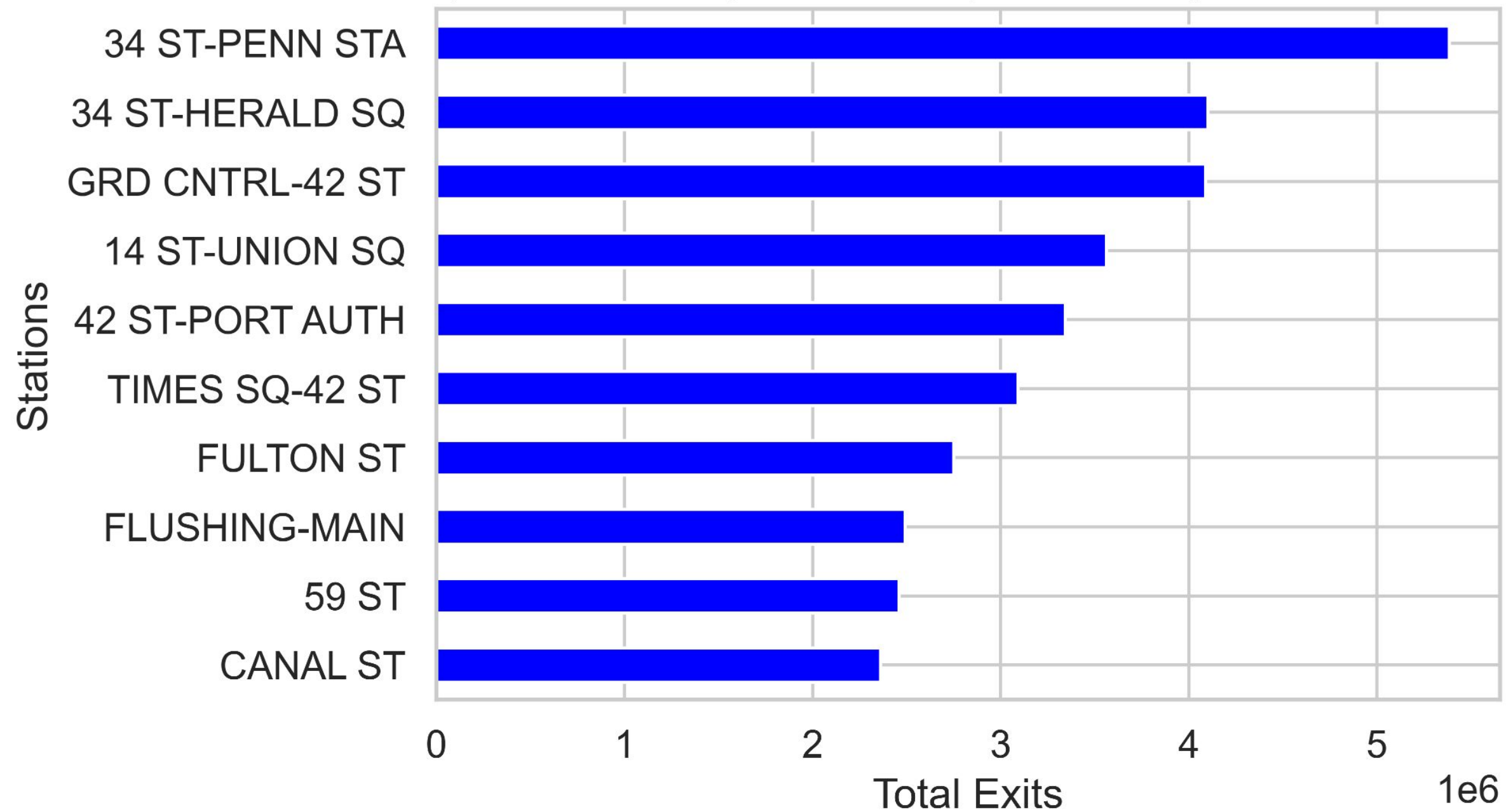
Using python Pandas package and data visualisation packages Matplotlib and Seaborn, the data has been comprehensively:

- Cleaned
- Unsampld
- Interpolated
- Resampled
- Aggregated
- Analysed
- Plotted

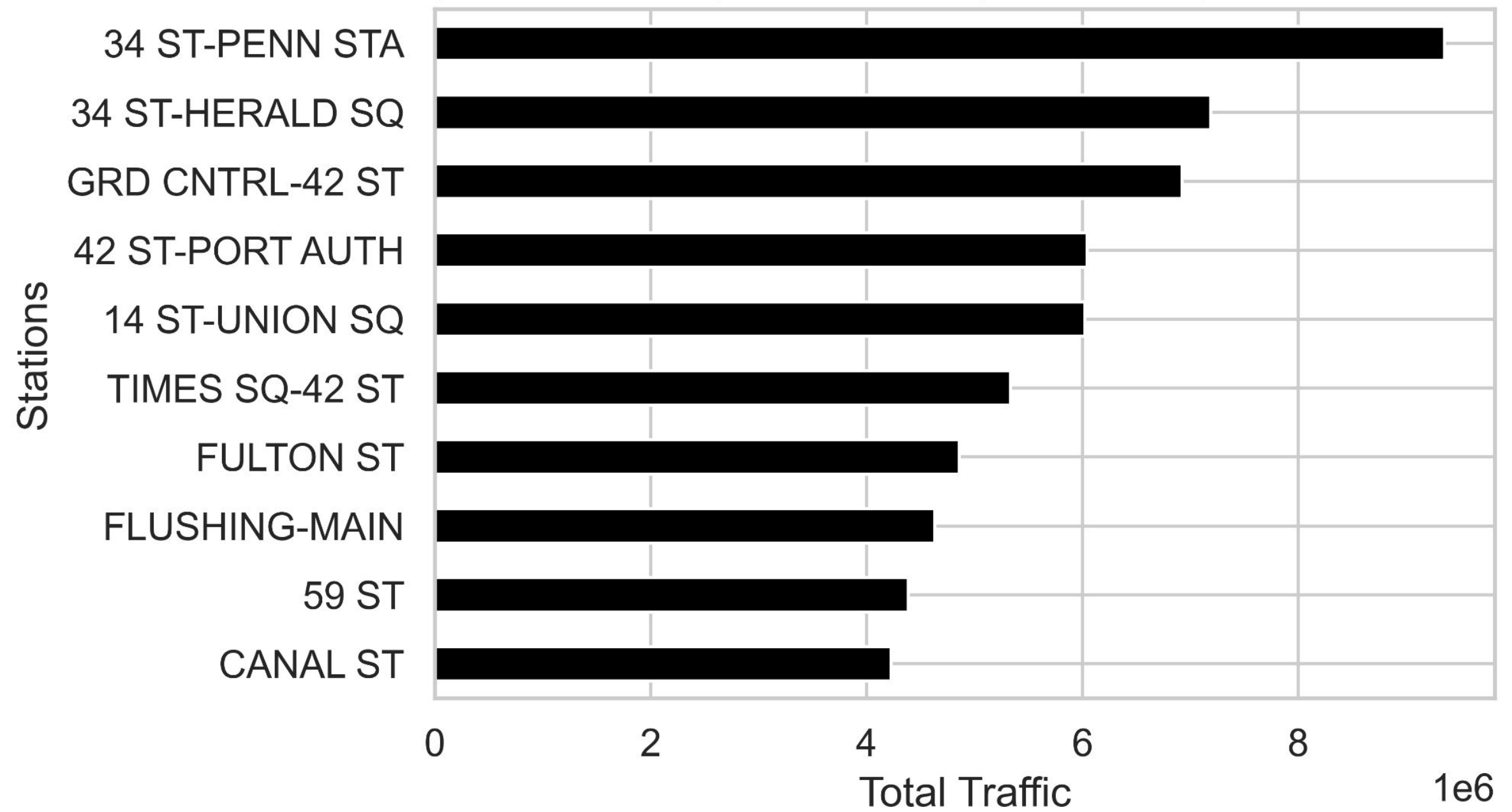
Results:

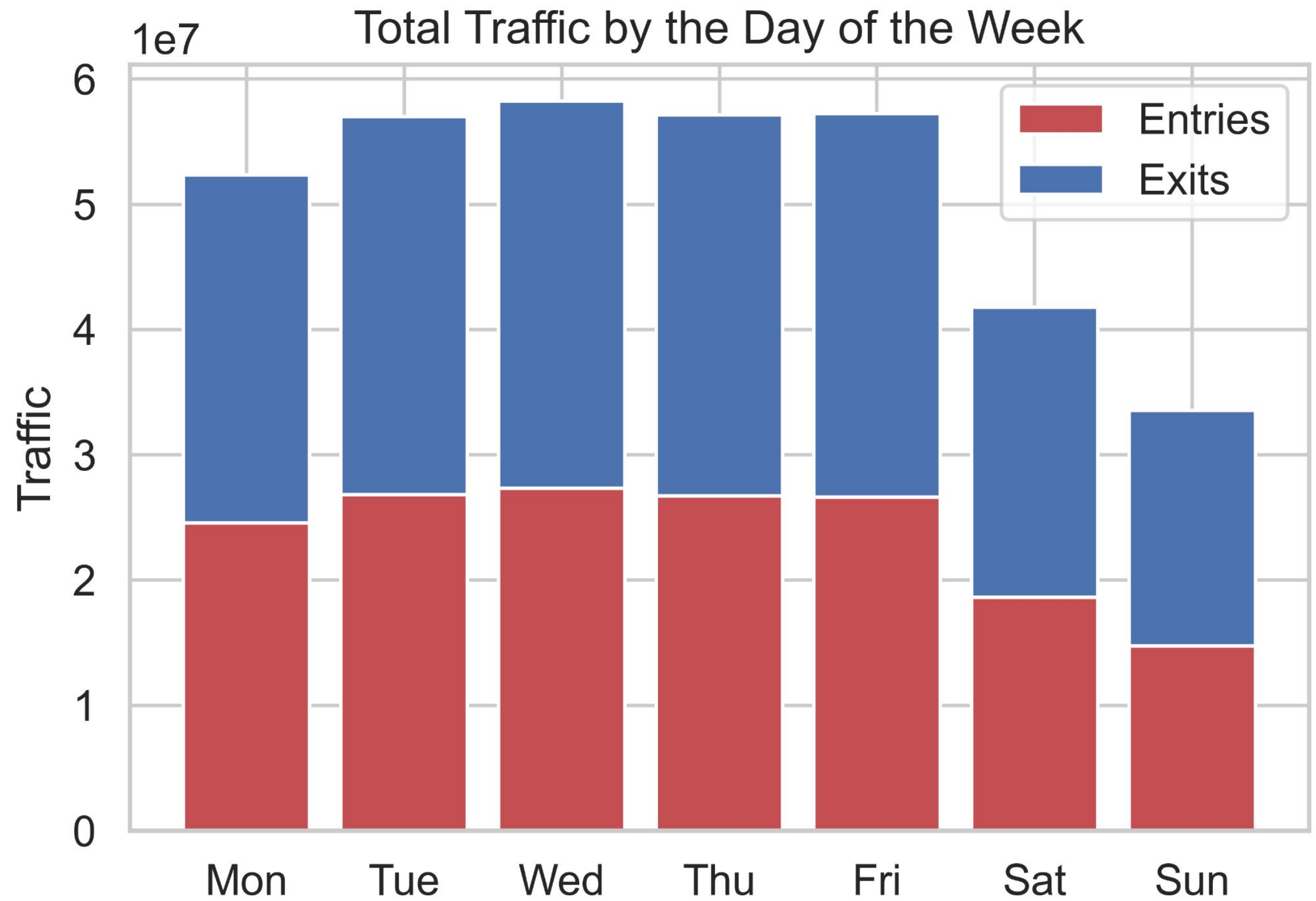


Top 10 Stations by Total Exits (June 05-September 04, 2021)

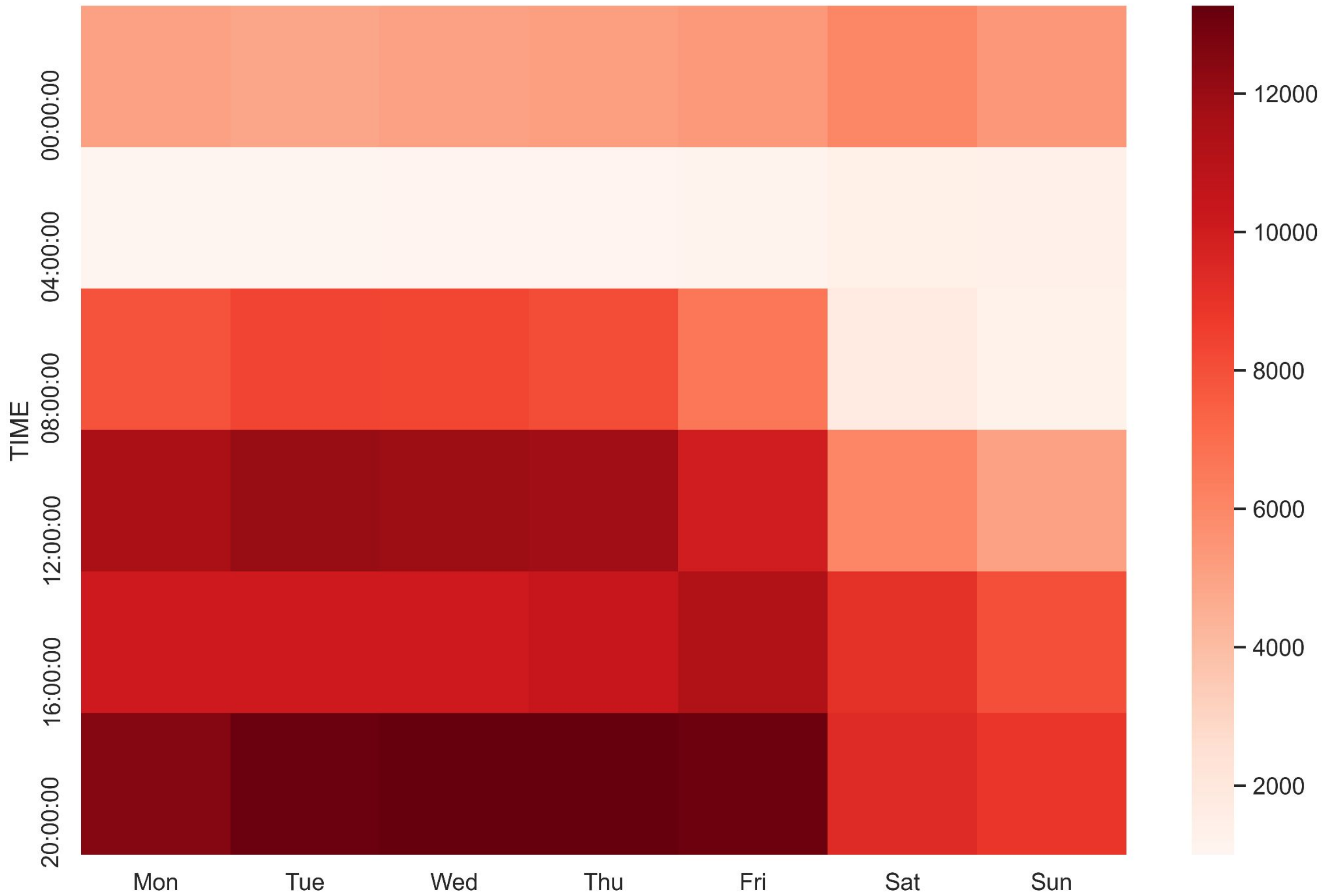


Top 10 Stations by Total Traffic (June 05-September 04, 2021)

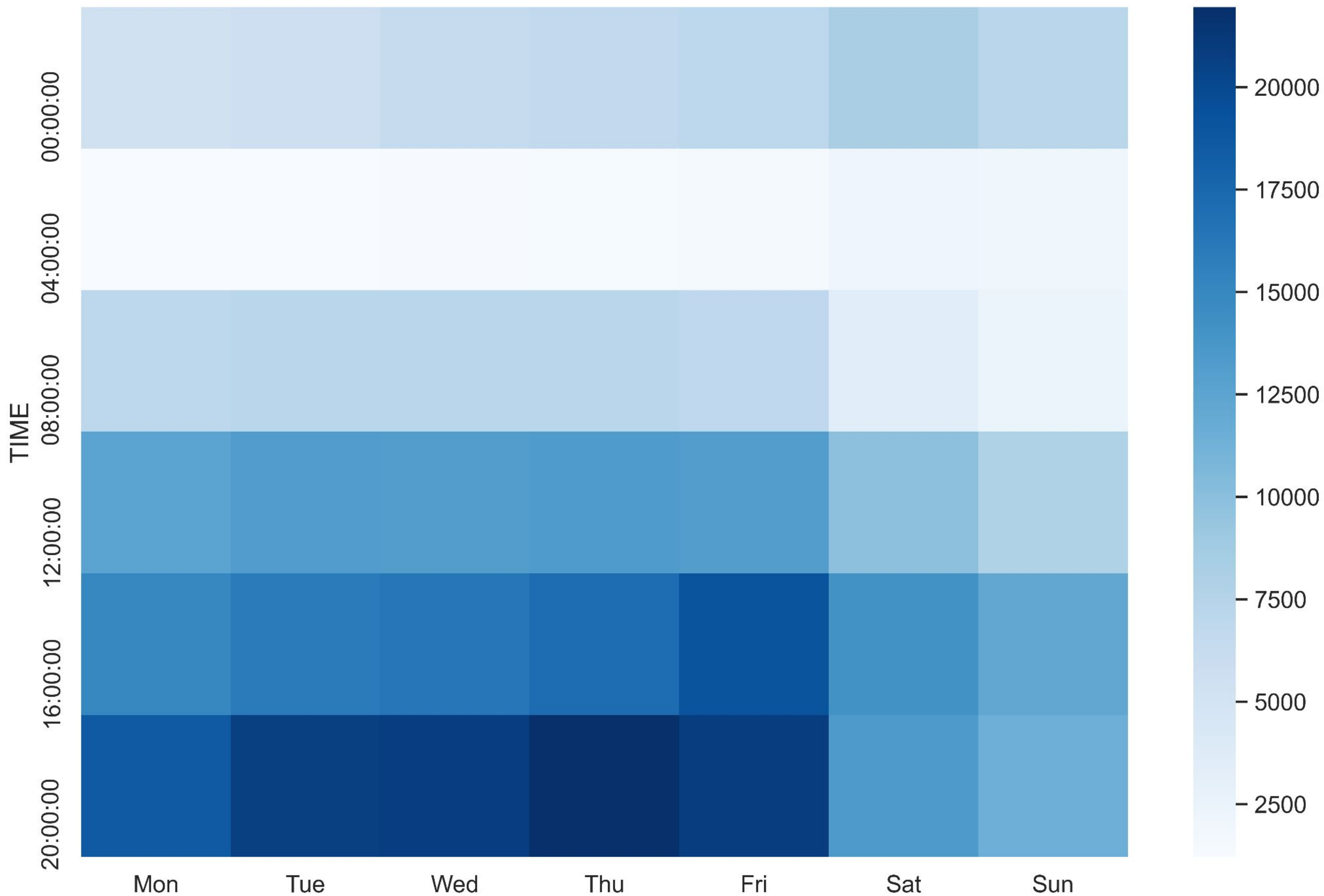


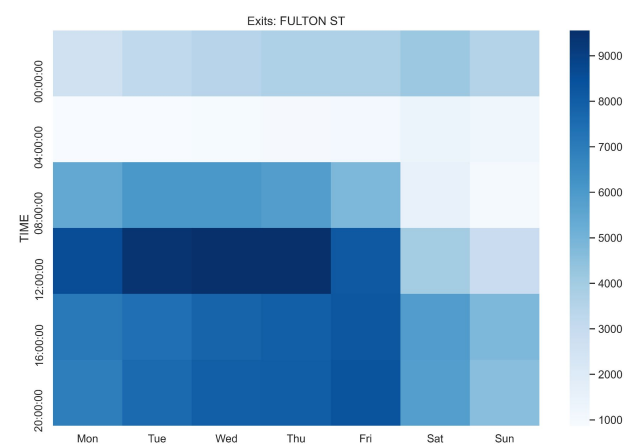
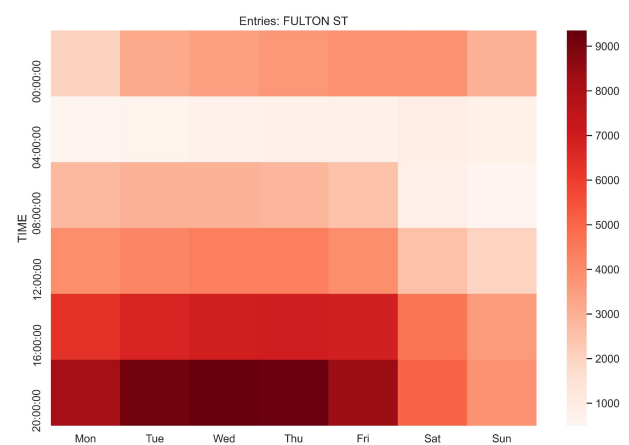
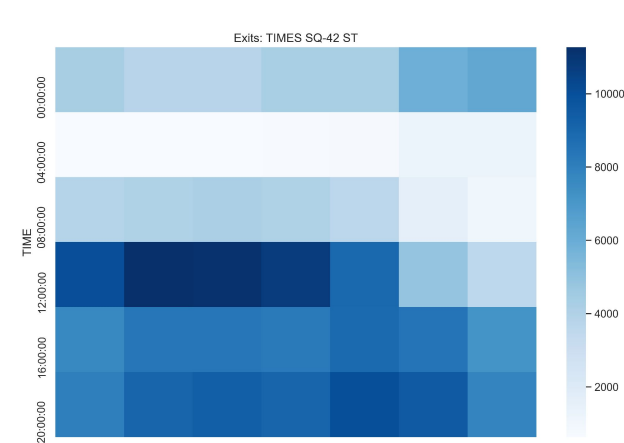
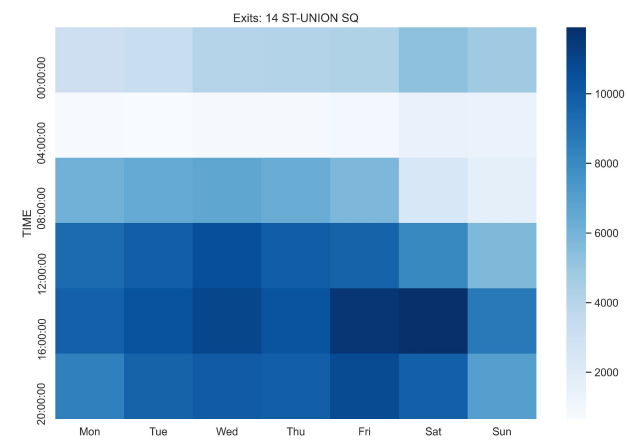
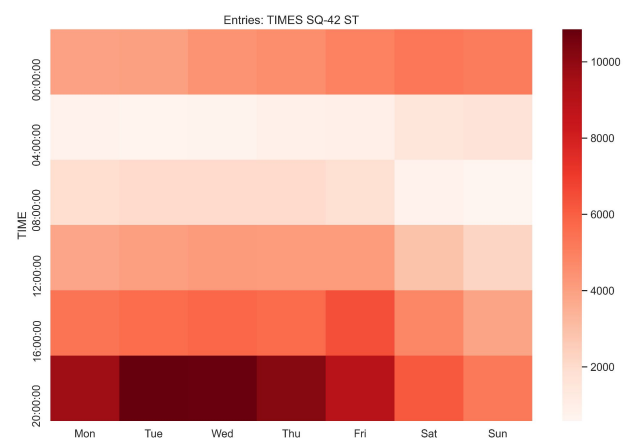
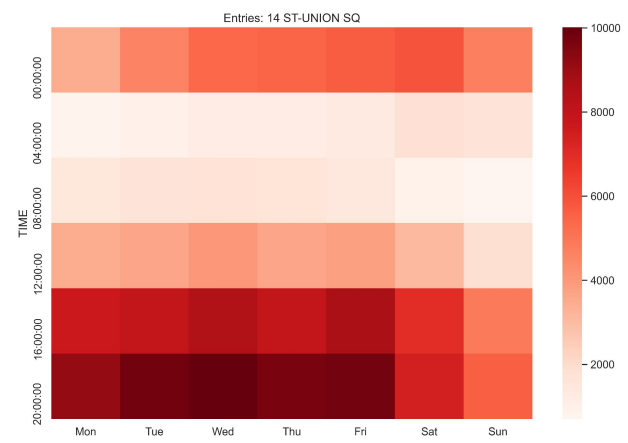
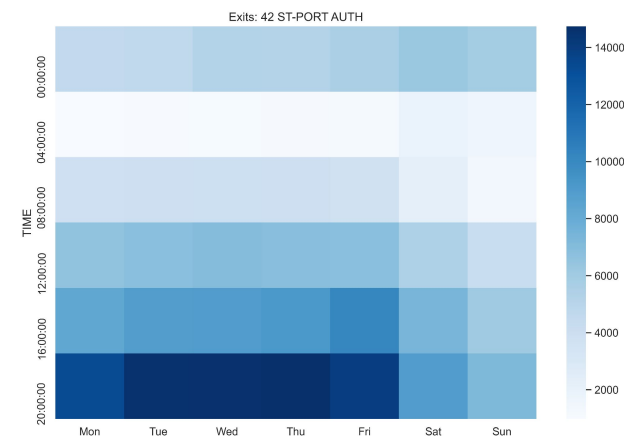
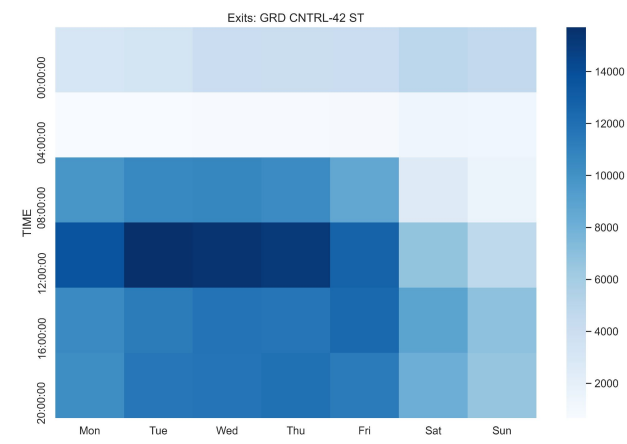
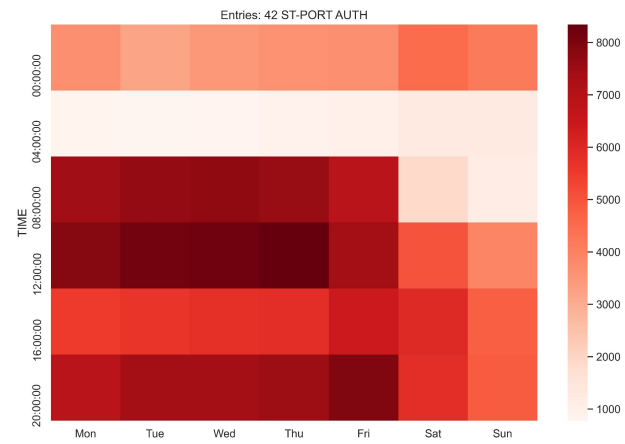
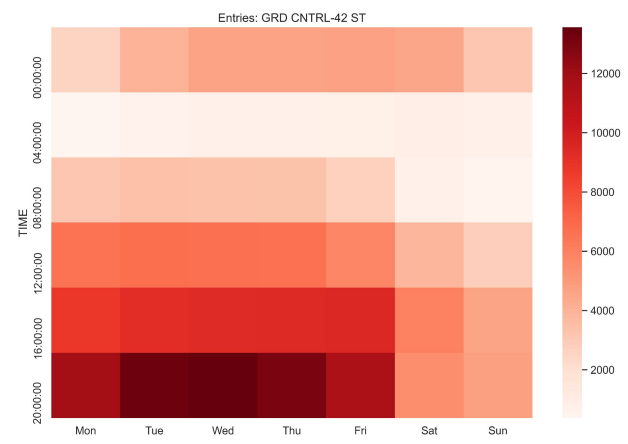
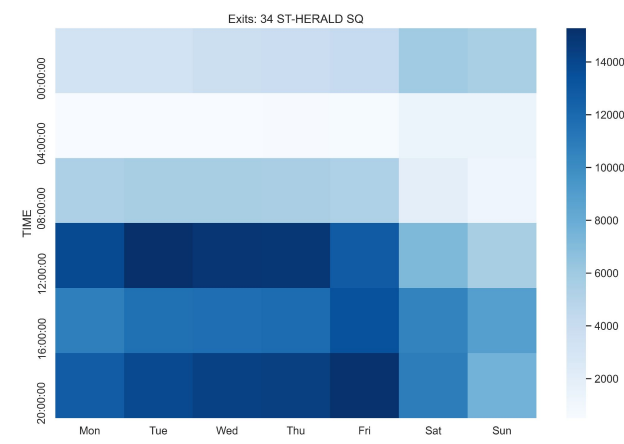
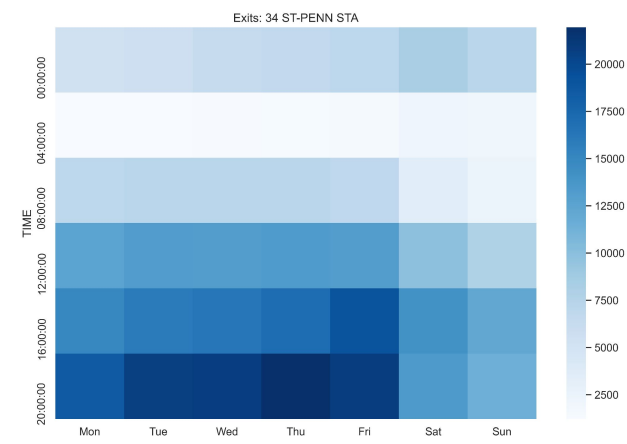
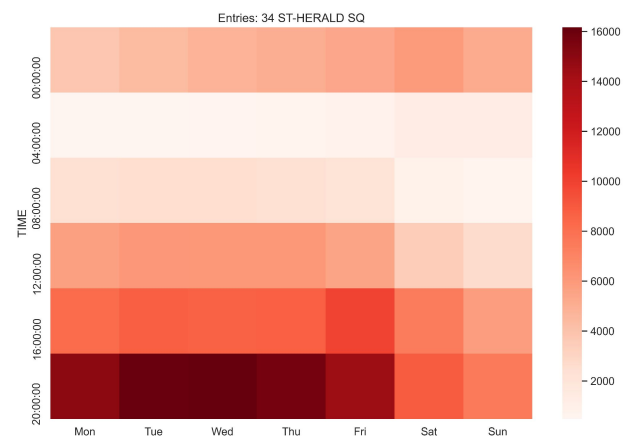
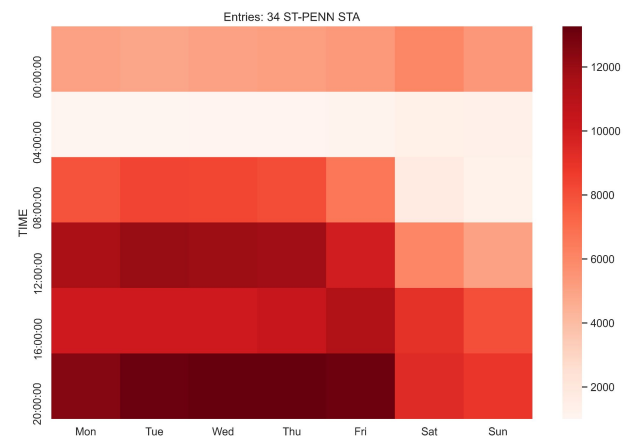


Entries: 34 ST-PENN STA



Exits: 34 ST-PENN STA





Back to our main question:

Where:

Top 10 stations: Union Sq. and Fulton, Flushing and Canal

When:

Mid-week days: Tuesday, Wednesday and Thursday

Morning: Above all Penn Station and Port Authority

Mid-day: Union Sq.

Evening: Port Authority and Grand Central

Late evening: Union Sq., Port Authority, Penn Station