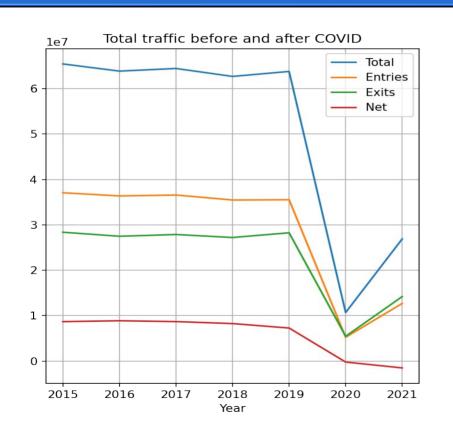
MTA Traffic Analysis

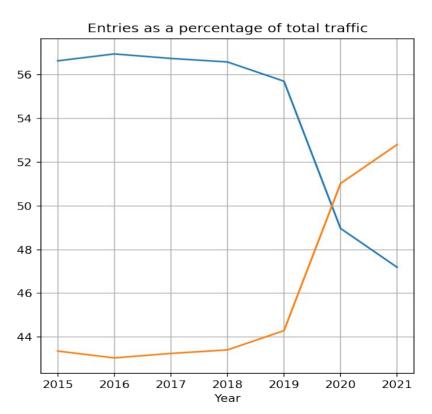
- Total Traffic change Pre and Post COVID
- Pattern change in Net Traffic
- Most Impacted Stations

Methodology

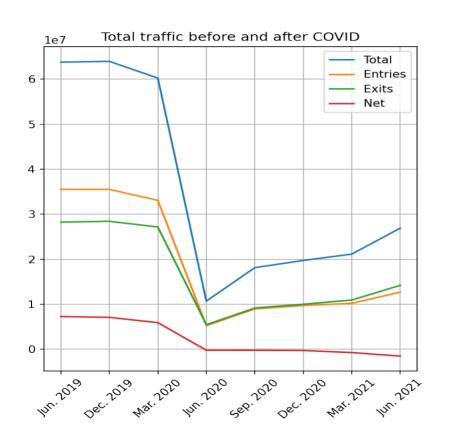
- Convert Counter to Inflow/outflow traffic
- Data Cleaning
- Aggregate over week, station, whole system
- Sanity values

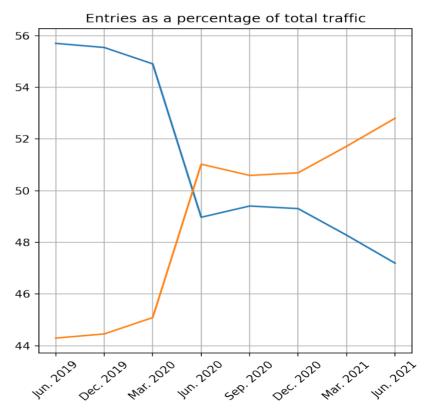
Total Traffic Pre and Post COVID



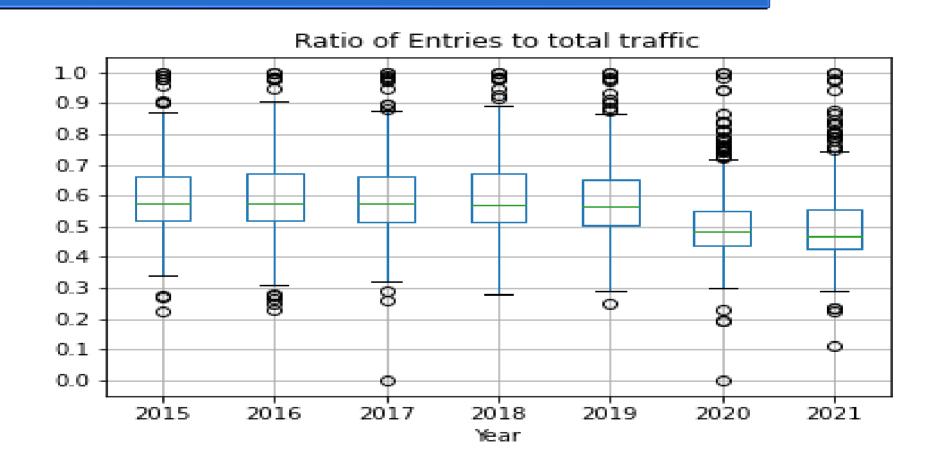


Every 3 months data

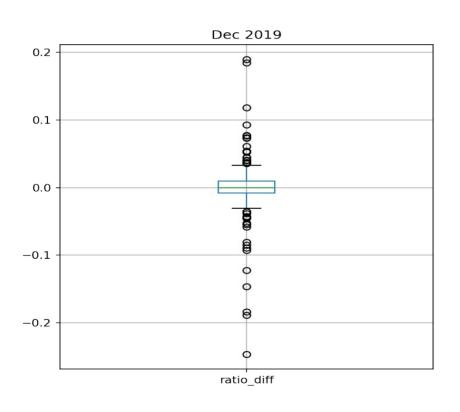


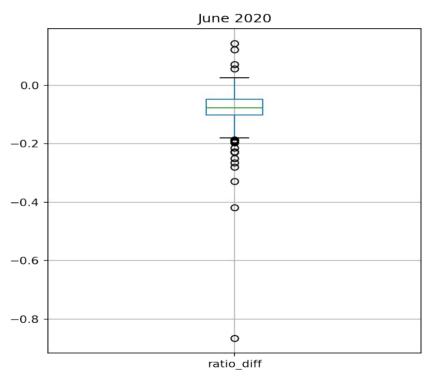


Ration change over the years



Per Station Changes





Top Station in Net Traffic Change

- 42 St Time Square ACENQRS1237
- 34 St Penn Station ACE
- 42 ST PA Bus Terminal--ACENQRS1237
- Fulton St ACJZ2345
- 34 St Herald Square BDFMNOR

Conclusion

- Large gap in capturing Exits Counts (obvious before 2019)
- Some gap in capturing Entries Counts (obvious in 2021)
- Likely the cap to fully capture data exists at all times.
- External reasons needed from local experts.
- Trend can be tracked and compared.

Future Work

- Examine outlier to verify reality is reflected.
- Some turnstile has 0 exits count, some has 0 entries count.
- Verify if trend is traffic dependent or policy dependent.