



Home & Away

Data Analysis of Potential Filming Locations in the Bronx



Introduction

- *Home & Away* is the working title for an independent crime thriller set to begin filming in August 2021
- The primary setting is in and around Yankee Stadium located in the Bronx, NYC
- Five NYC MTA stations are needed as secondary locations.
- The film is limited by budget constraints and the following should be considered:
 - No weekend shoots as union contracts allow for increased wages
 - Location matters - all filming will be done in the Bronx and the less travel within the better
 - Expected MTA passenger traffic should be minimal as all stations will be open during filming

Data & Tools

- Data
 - MTA turnstile data published weekly
 - 13 weeks from 8/03/2019 - 10/26/2019
 - Though weekends are included in the published data, they were not included in this analysis
- Tools
 - SQLite
 - SQLAlchemy
 - Python with Libraries
 - Pandas
 - Numpy
 - Datetime
 - Matplotlib
 - Seaborn

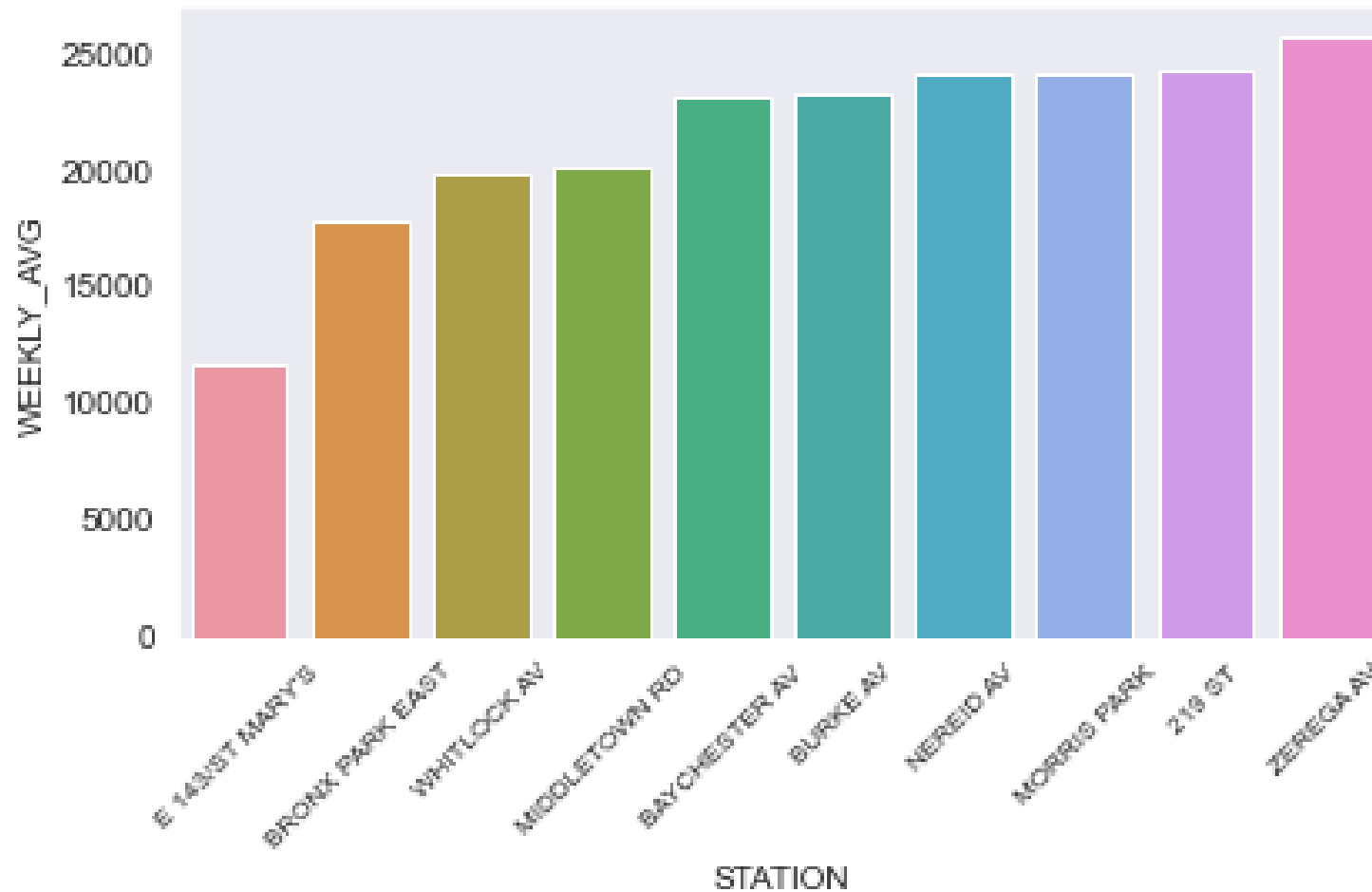


Assumptions

- Pre – Covid 8/03/2019 - 10/26/2019 data was used to best represent MTA ridership during the period of 2021 *Home & Away* is schedule to begin filming
- Weekly traffic is assumed to be uniform over the 13 weeks
- Traffic is defined as the total entries and exits at any given station or line
- Where turnstile entries or exits during any given measurement period exceeded 10,000, 0 was substituted to eliminate likely erroneous amounts
- Negative entries or exits were assumed to be the absolute value
- Missing entries or exits were eliminated from data and not considered

Bronx MTA Stations

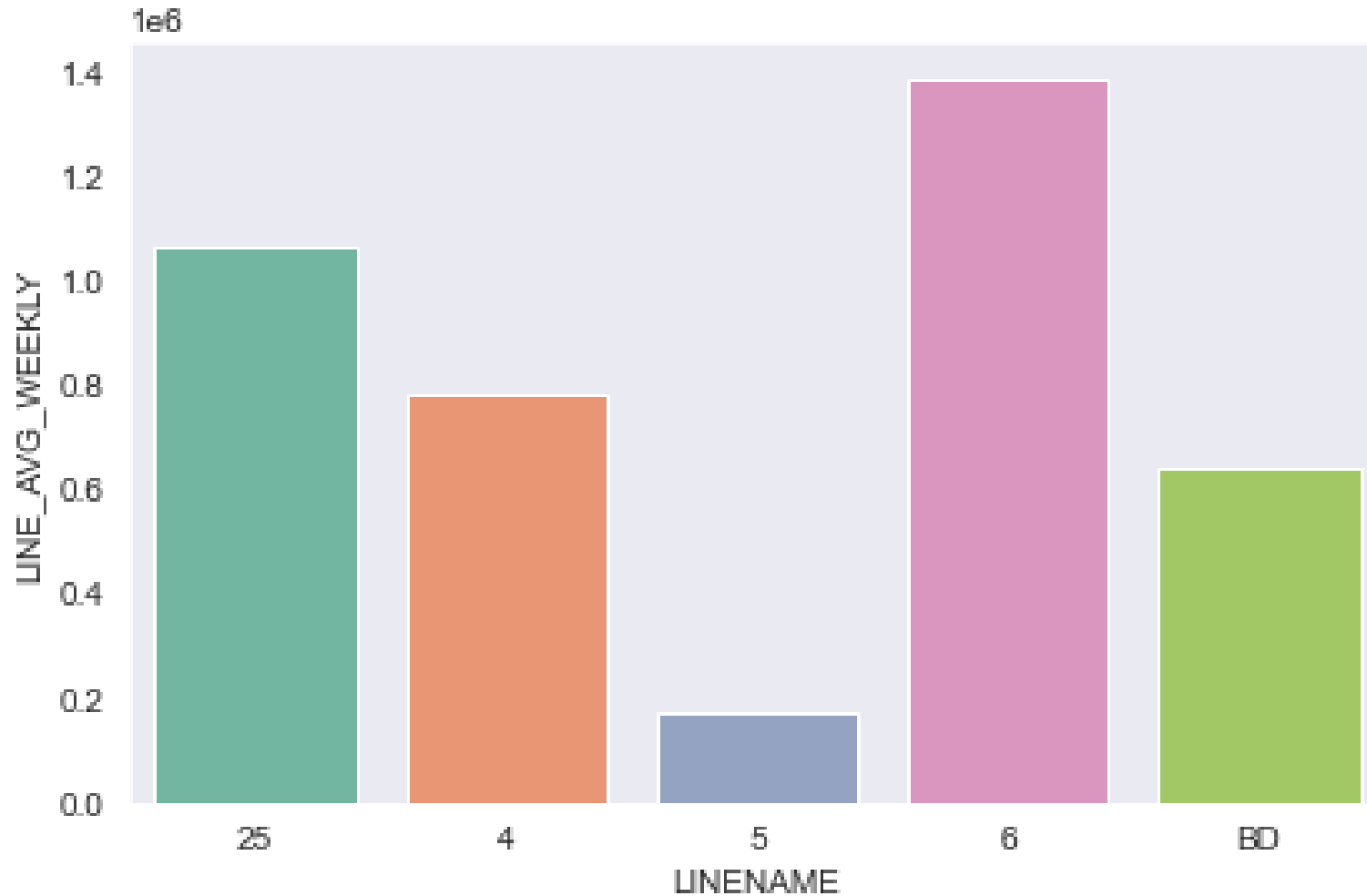
Average weekly traffic – Bottom 10

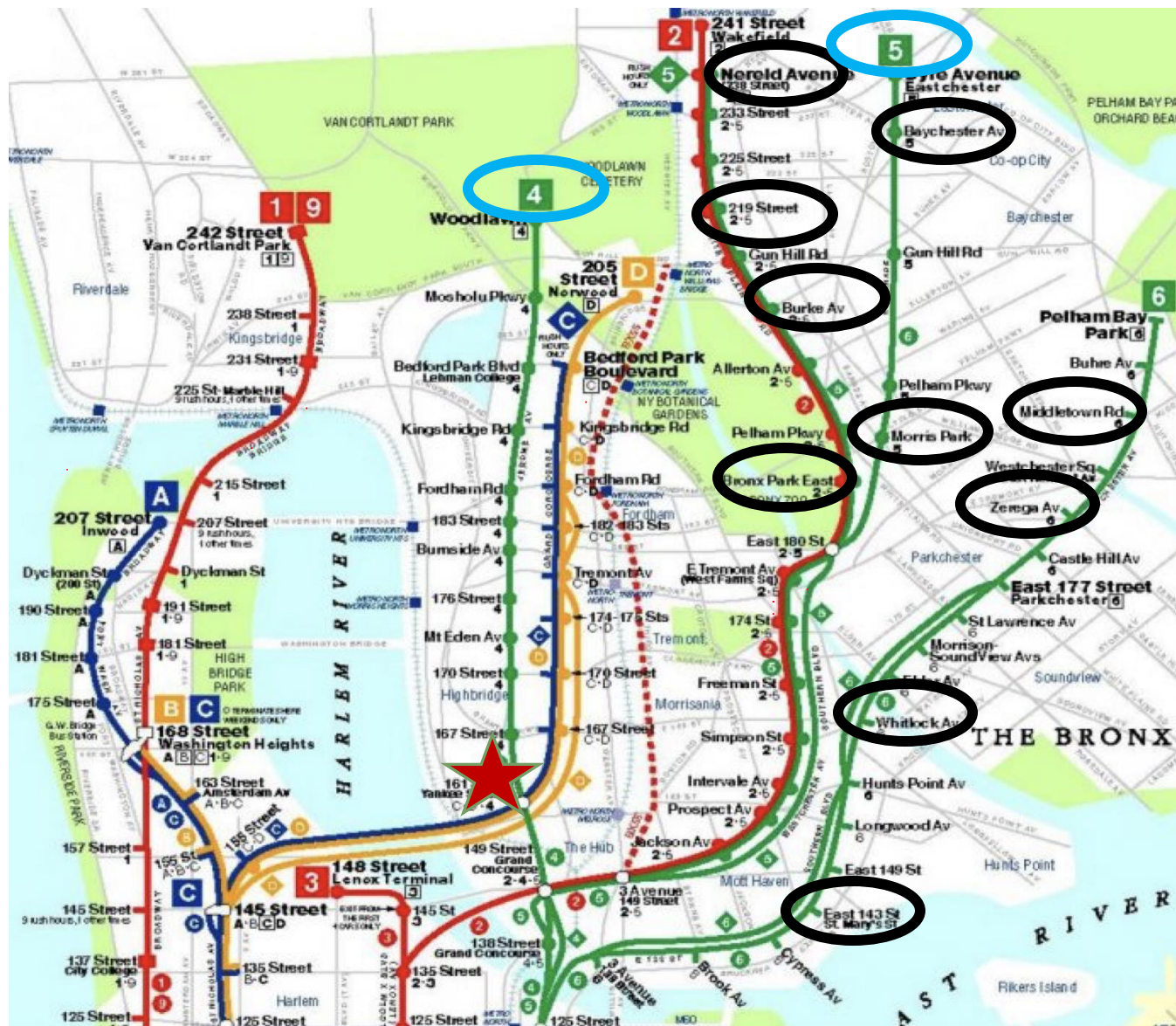


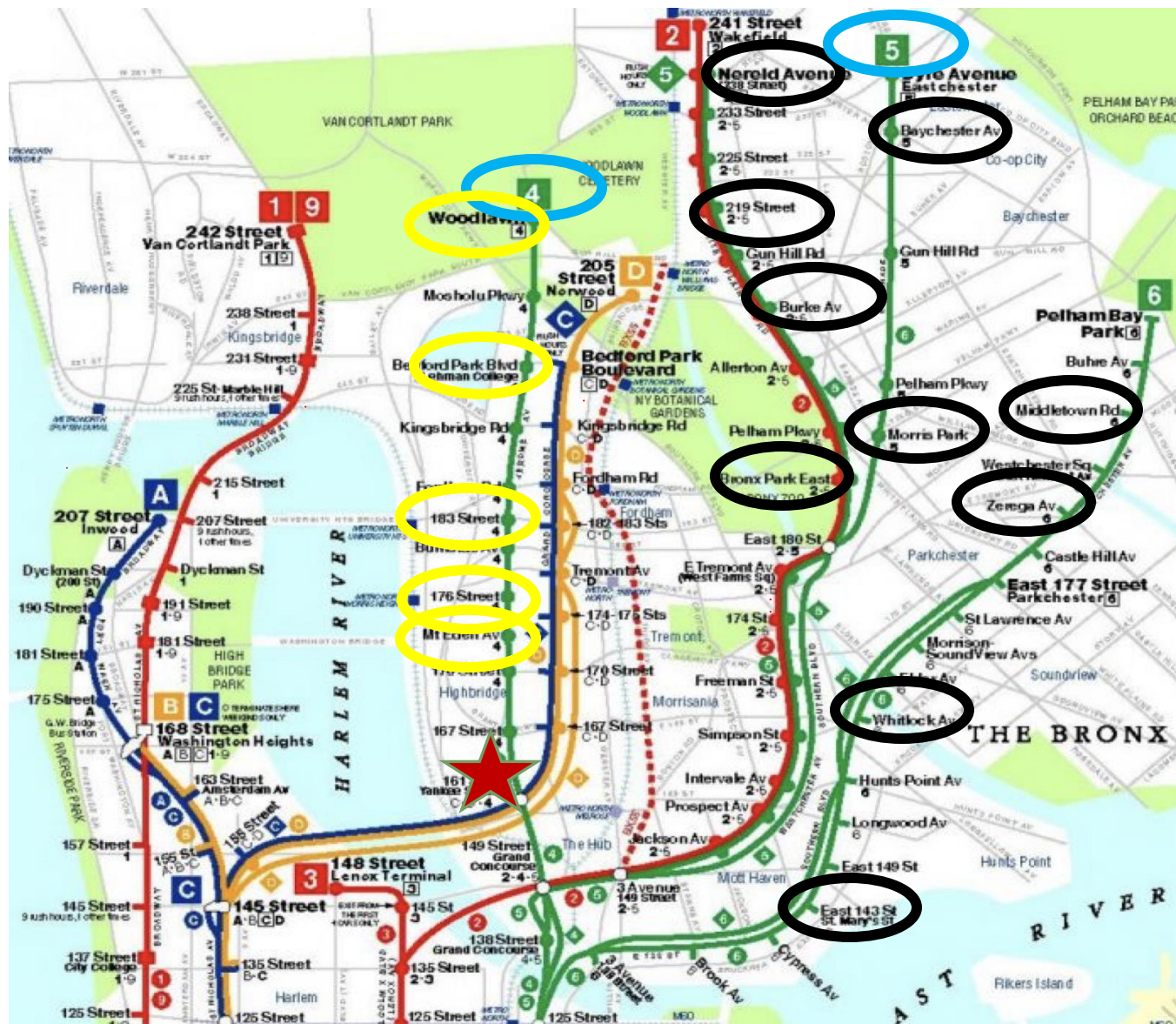


Bronx MTA Stations

Average weekly traffic – by Subway Line









Conclusions

- If use 5 least busiest stations on Line 4 instead of 5 least in all of the Bronx
- Pros include:
 - Significantly reduced travel compared to other alternatives in the Bronx
 - Convenience of using only subway line
 - Authenticity of using subway line truly connected to Yankee Stadium
- Cons include:
 - Having more traffic while filming
- But how much more traffic?
 - Assuming traffic present 18 hours a day
 - Line 4 / Low 5 has approximately 550 entries/exits an hour
 - Bronx / Low 5 has approximately 210 entries/exits an hour



Appendix

Bronx MTA Stations

Average weekly traffic – Line 4

