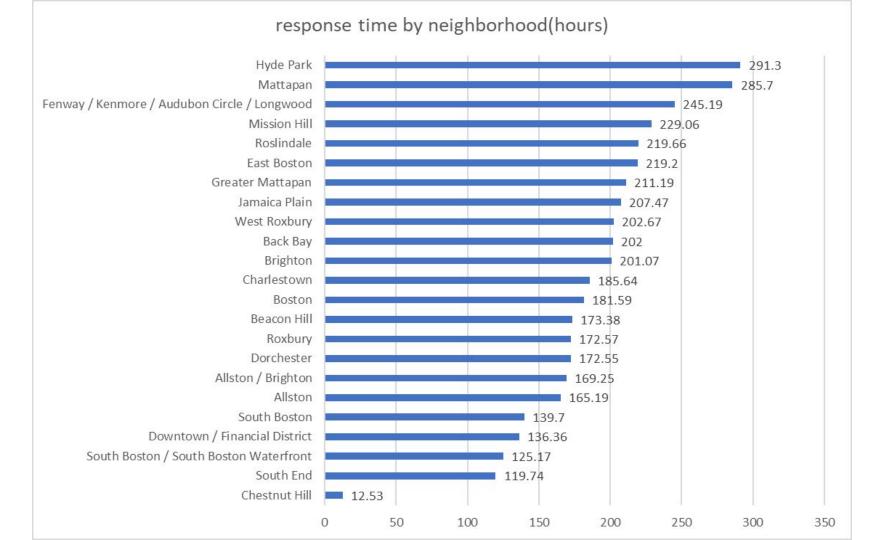
Final deliverable

Team members: Alex Wang, Dongyue Xu, Di Kang, Yi Xiang

Extension project topic: Boston residents request city services

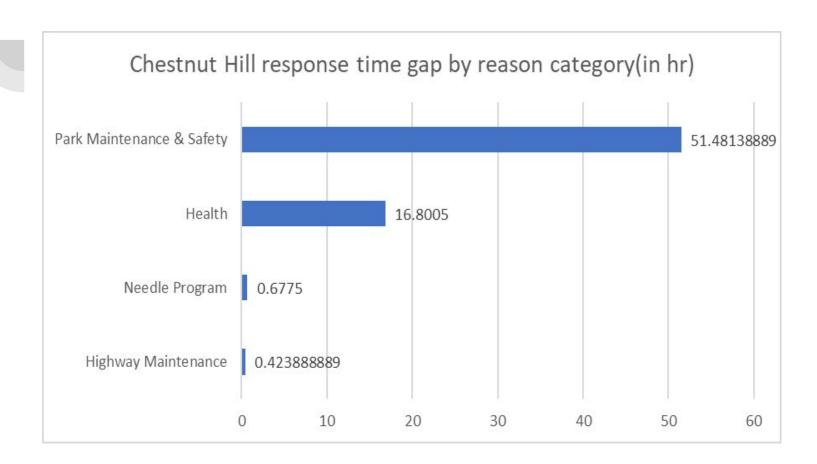
Question to answer: In the city's responses to Boston residents service requests, which neighborhood get served more quickly, which neighborhood get served slower? What are the characteristics of of those neighborhoods in terms of request services?

Analysis of 311 service request dataset in 2021

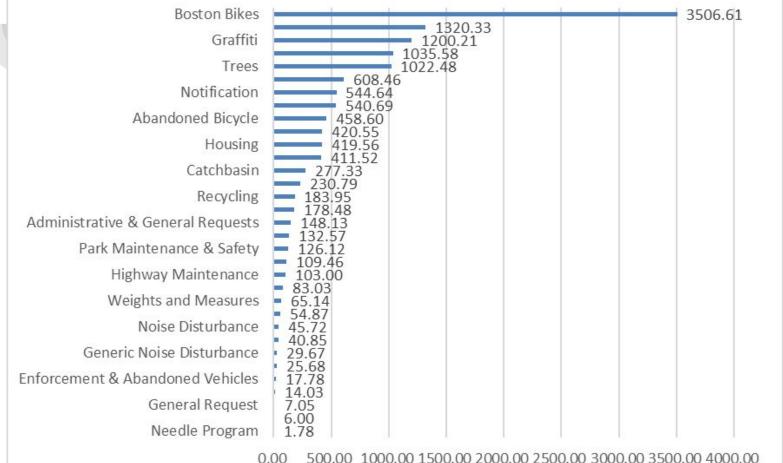


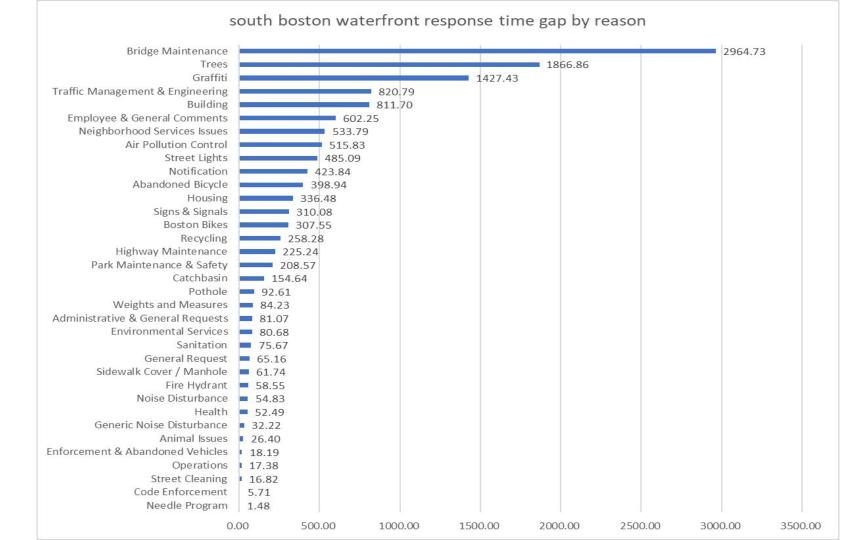
Conclusion of top 3 and bottom 3 neighborhoods in terms of service requests' response time

<u>Chestnut Hill, South End and South Boston</u> are the top 3 neighborhoods that are responded the most quickly, <u>Hyde Park, Mattapan and Fenway/Kenmore</u> are the 3 neighborhoods that are responded the slowest.

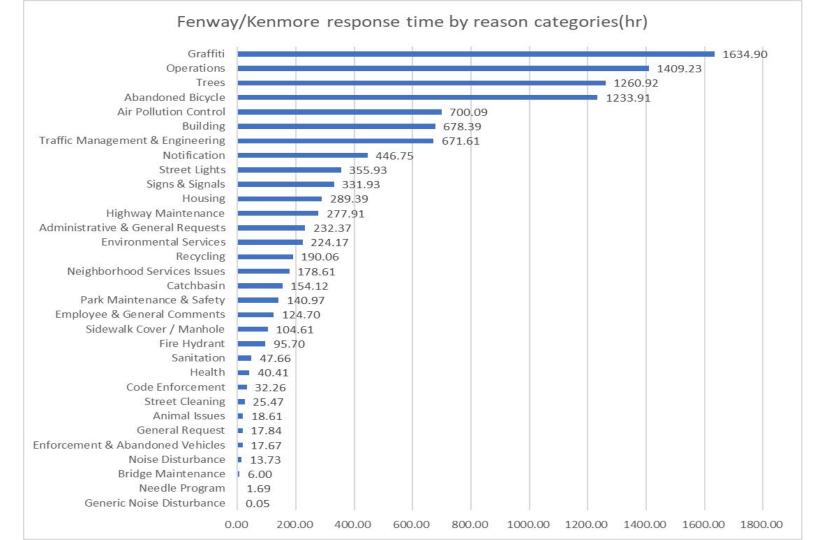


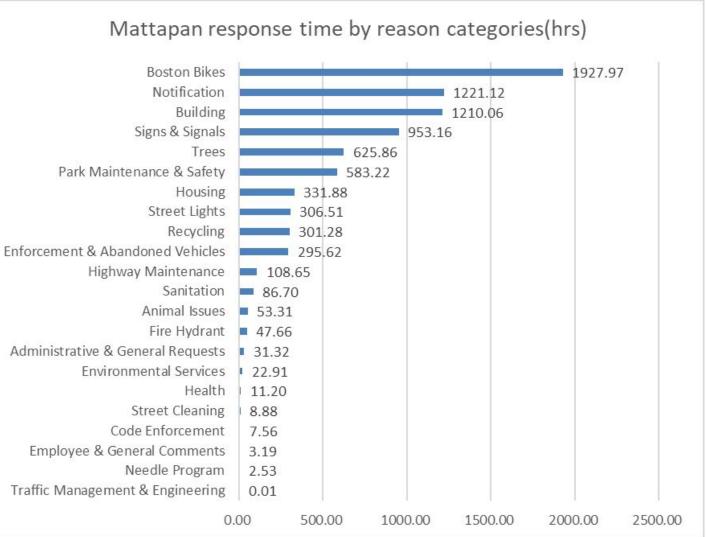


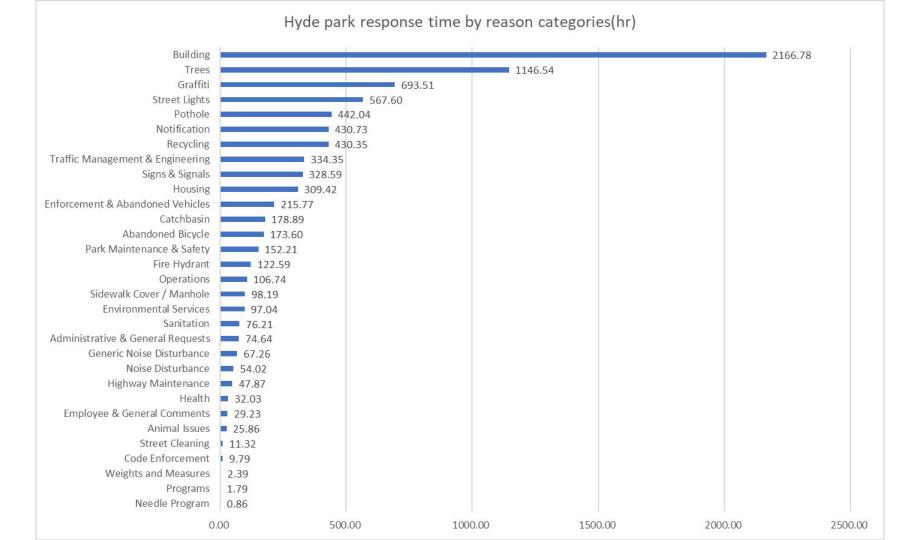




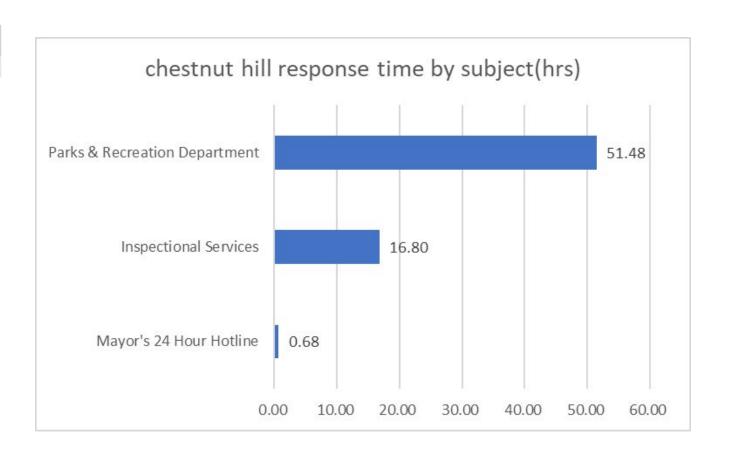
Top 3 slowest responded neighborhoods' response time by reason categories

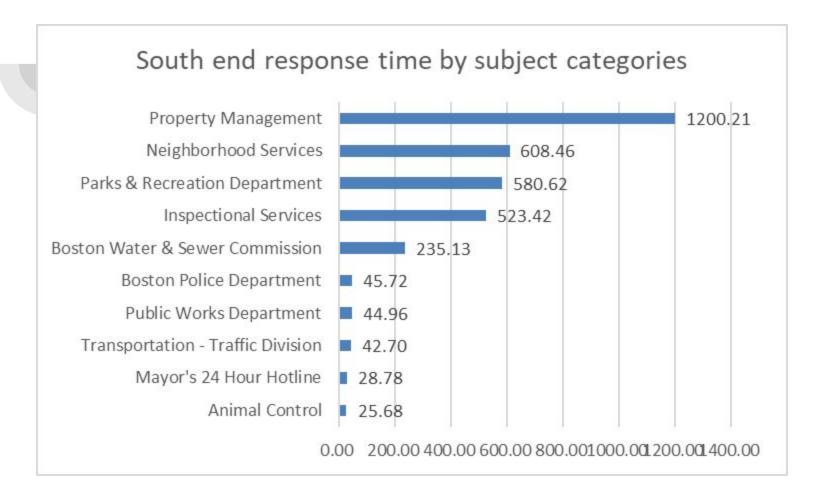


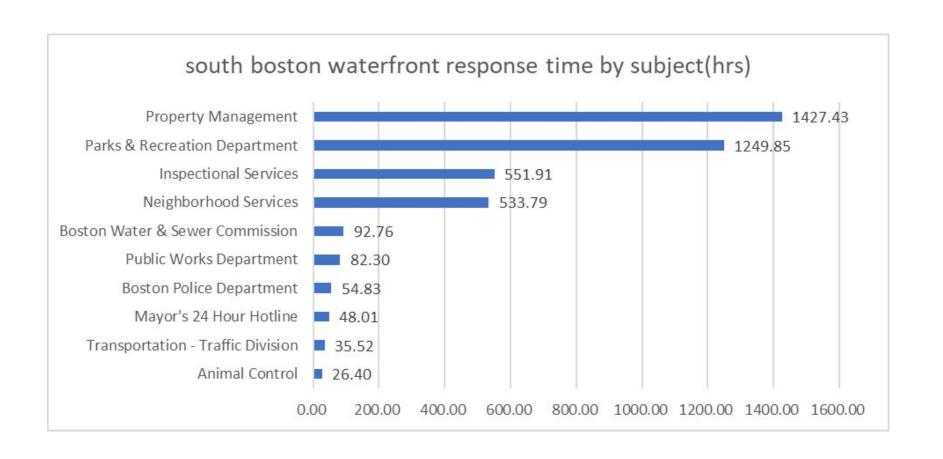




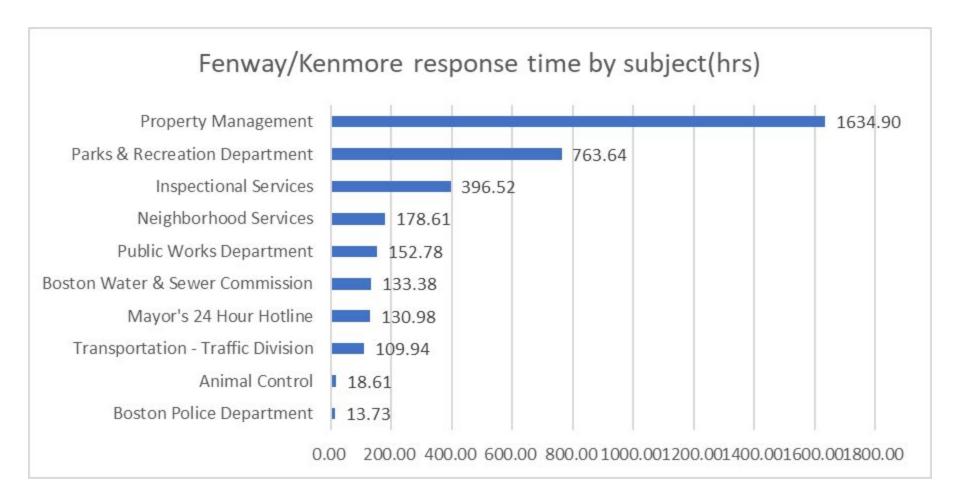
Top 3 most quickly responded neighborhoods' response time by subject categories

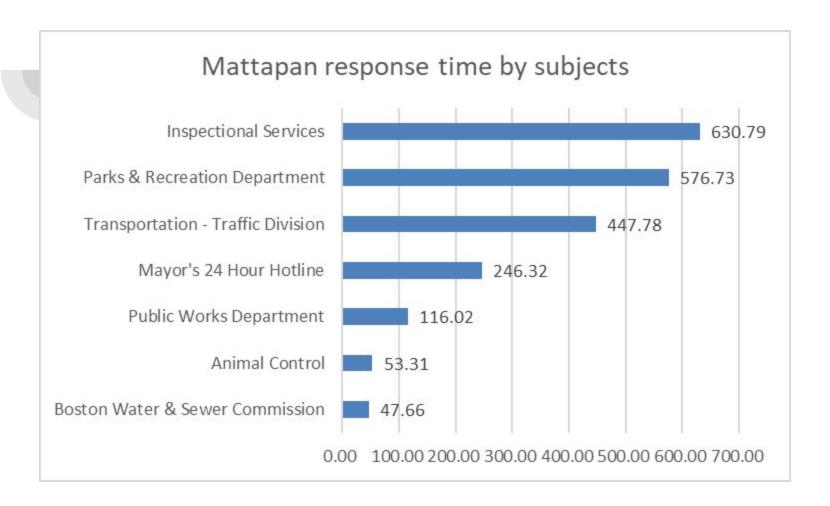


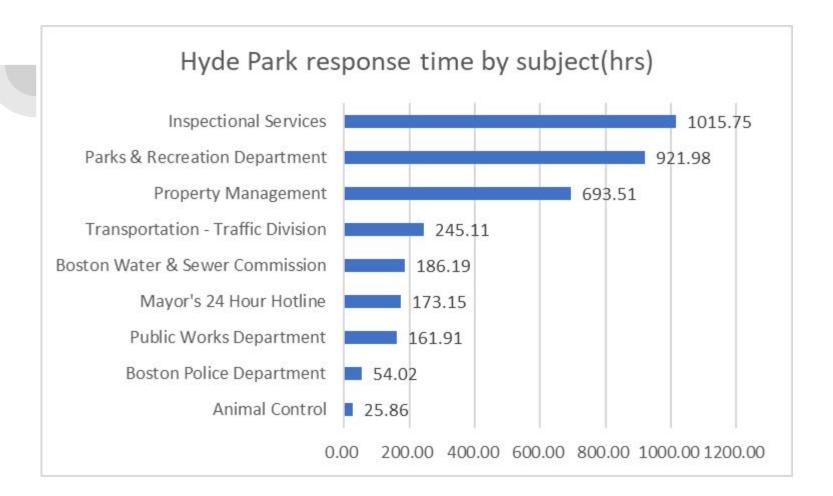




Top 3 slowest responded neighborhoods' response time by subject categories

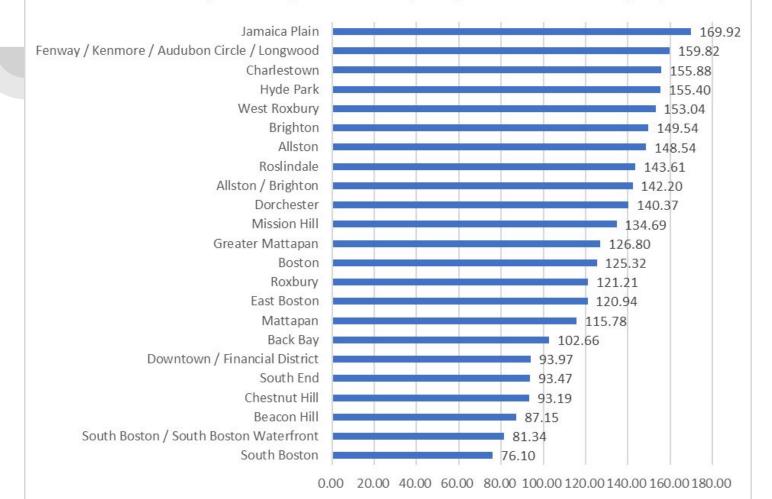






Analysis of 311 service request dataset in 2022

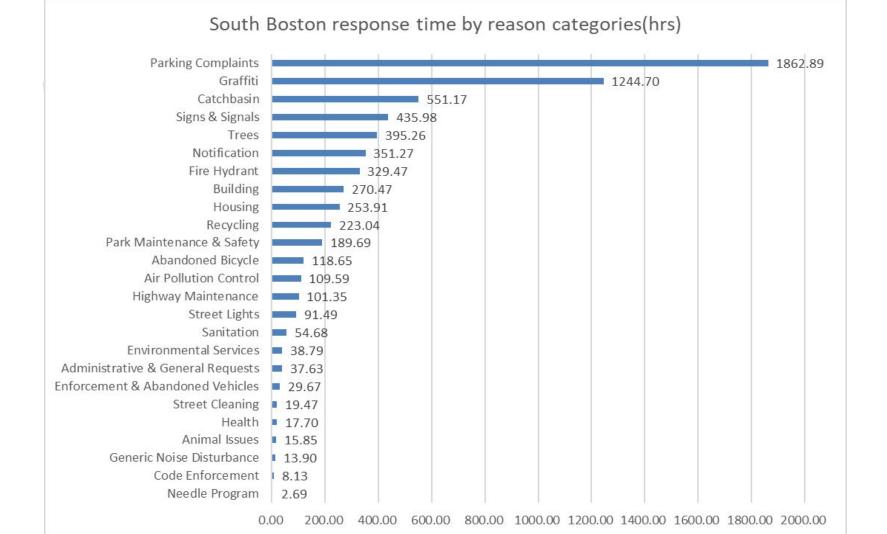
service requests response time by neighborhood in 2022(hrs)

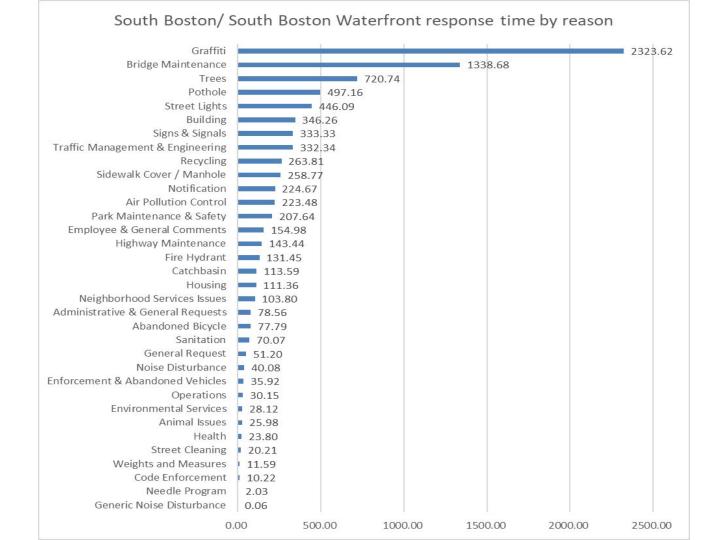


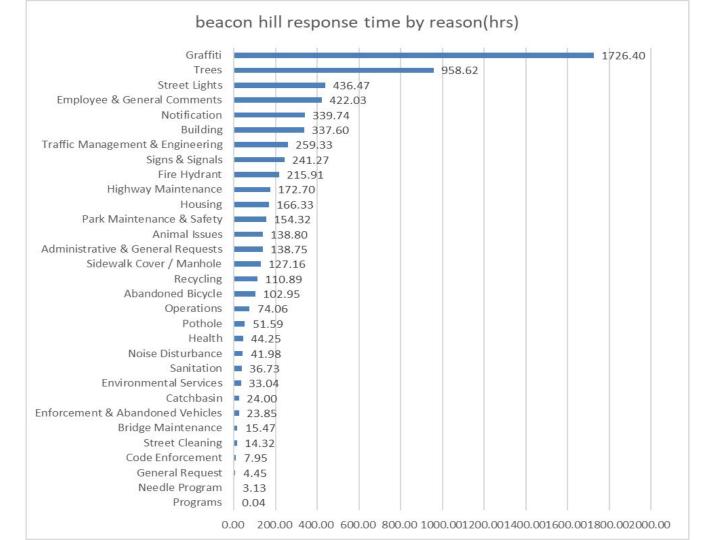
Conclusion of top 3 and bottom 3 neighborhoods in terms of service requests' response time

South Boston, South Boston / South Boston Waterfront and Beacon Hill are the top 3 neighborhoods that are responded the most quickly, Jamaica Plain, Fenway/Kenmore and Charleston are the 3 neighborhoods that are responded the slowest.

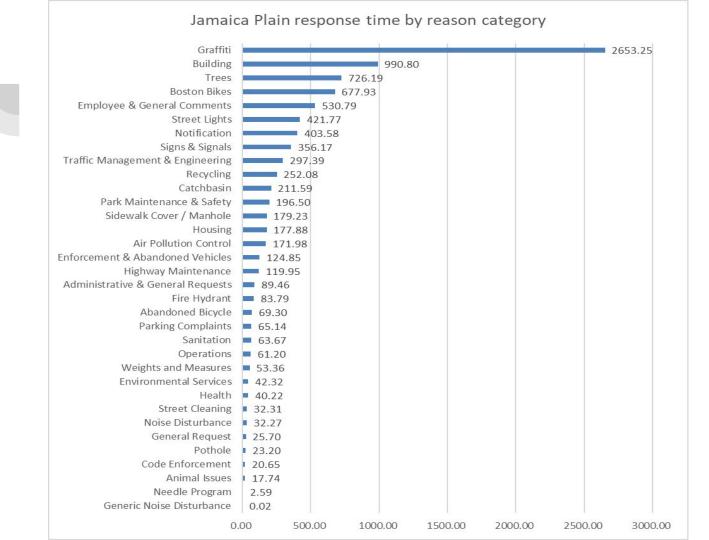
Top 3 most quickly responded neighborhoods' response time by reason categories

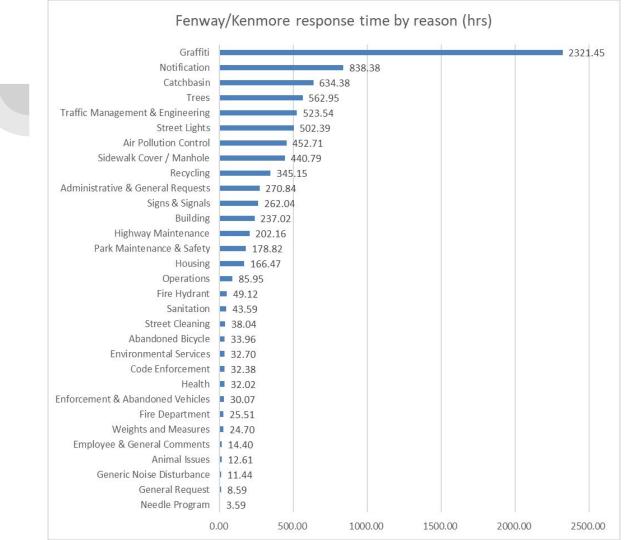


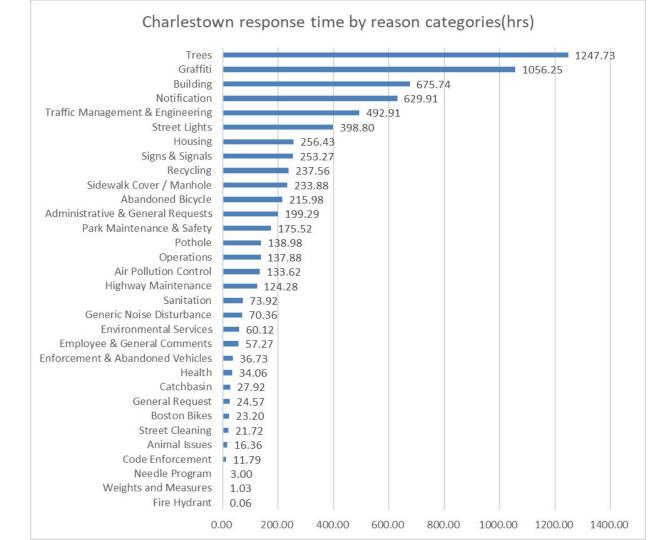




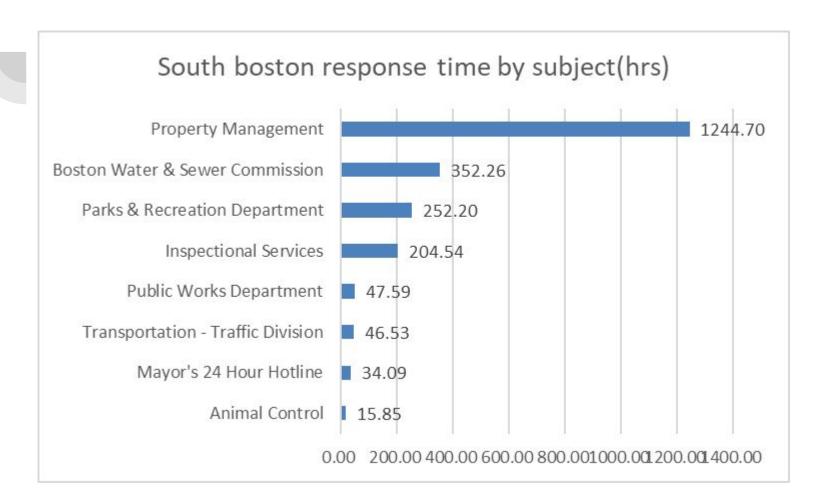
Top 3 slowest responded neighborhoods' response time by reason categories

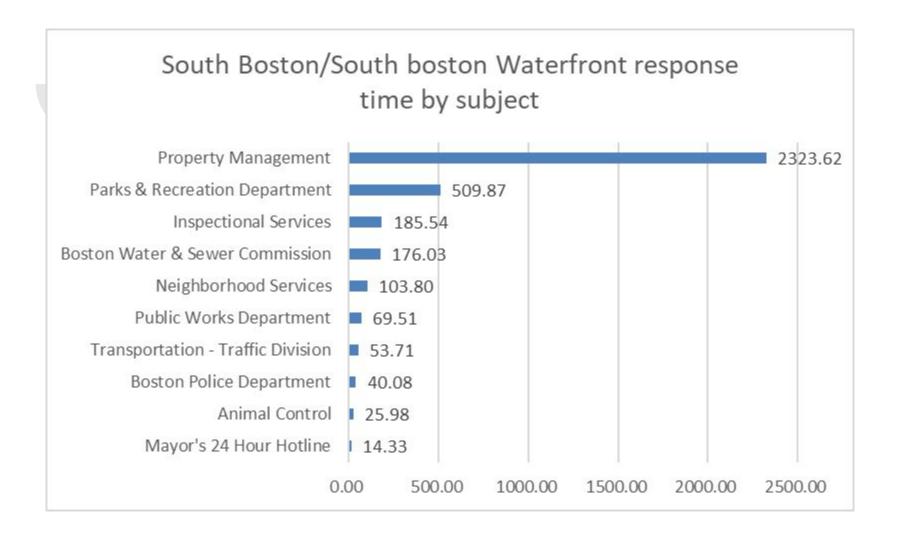


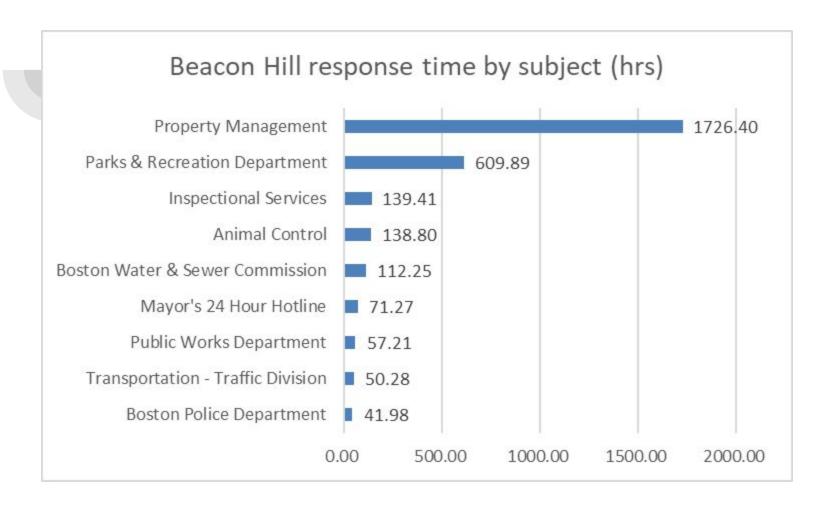




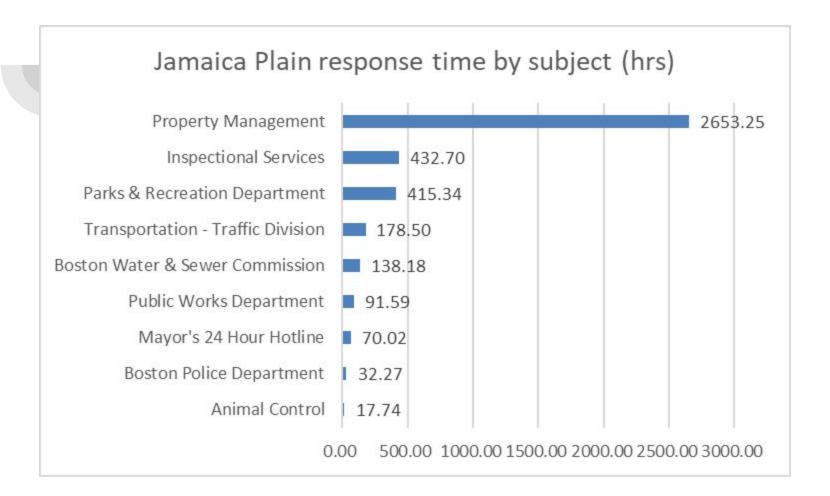
Top 3 most quickly responded neighborhoods' response time by subject categories

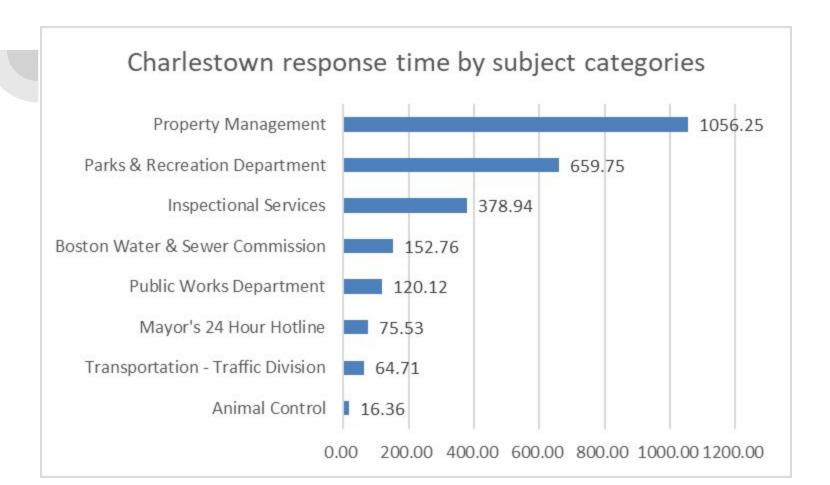






Top 3 slowest responded neighborhoods' response time by subject categories





Comparison between service requests' response time in 2021 and 2022

South Boston and South Boston Waterfront are among the top 3 most quickly responded neighborhoods in 2021 and 2022, and Fenway/Kenmore is among the top 3 slowest responded neighborhoods in 2021 and 2022, while Mattapan is among the 3 slowest responded neighborhoods in 2021, it's average response time gets improved a lot in 2022, which makes it rank in the middle in 2022.

Thank you!