

ON-STREET PARKING

DCP Transportation Division

March 2020





- **Map out DOT's parking regulation signs**
- **Create a block-face based visualization of parking regulations**
- **Calculate the number of free and metered parking spaces**

DOT Parking Regulation Database

Signs Spreadsheet

Locations Spreadsheet

Parking Regulation
Shapefile

DCP Single
Line Street
Base Map
Dataset
(LION)

NYC
Planimetric

DEP
Hydrants
Database

DOT Parking Regulation Database

Signs Spreadsheet

Locations Spreadsheet

Parking Regulation Shapefile

Use LION to geocode the sign order locations and find the corresponding BlockfaceIDs

- Borough
- STATUS Order Number
- Main Street
- From Street
- To Street
- Side of Street

- Physical ID
- On Street Name/Code
- From NodeID
- To NodeID
- Left BlockfaceID
- Right BlockfaceID

DCP Single Line Street Base Map Dataset (LION)

DOT Parking Regulation Database

Signs Spreadsheet

Locations Spreadsheet

Parking Regulation Shapefile

For the sign orders that cannot be geocoded through locations file, use shapefile to identify BlockfaceID

- Borough
- STATUS Order Number
- Sign Sequence Number
- Sign Code/MUTCD
- Arrow points
- Sign Description
- Latitude/Longitude

- BlockfaceID
- Geometry

NYC Planimetric

DOT Parking Regulation Database

Signs Spreadsheet

Locations Spreadsheet

Parking Regulation Shapefile

- Borough
- STATUS Order Number
- Sign Sequence Number
- Distance from curb line
- Arrow points
- Sign Description
- Sign Code/MUTCD

- Join BlockfaceID and geometry to sign orders
- Categorize MUTCD signs as Free Parking, Metered Parking, and No Parking
- Assign the regulations to each sign segment

DOT Parking Regulation Database

Signs Spreadsheet

Locations Spreadsheet

Parking Regulation Shapefile

Add additional hydrant related regulations (no parking 15 feet from hydrants) to the sign segments

- STATUS Order Number
- Distance from curb line 1
- Distance from curb line 2
- Sign regulation

- UnitID
- Latitude/Longitude

DEP Hydrants Database

DCP Single Line Street Base Map Dataset (LION)

- Left BlockfaceID
- Right BlockfaceID
- Traffic Direction
- Number of
Parking Lanes

- Use LION to identify block faces with parking lanes
- Remove block faces that have parking regulations but no parking lanes
- Add block faces with no signs but having parking lanes

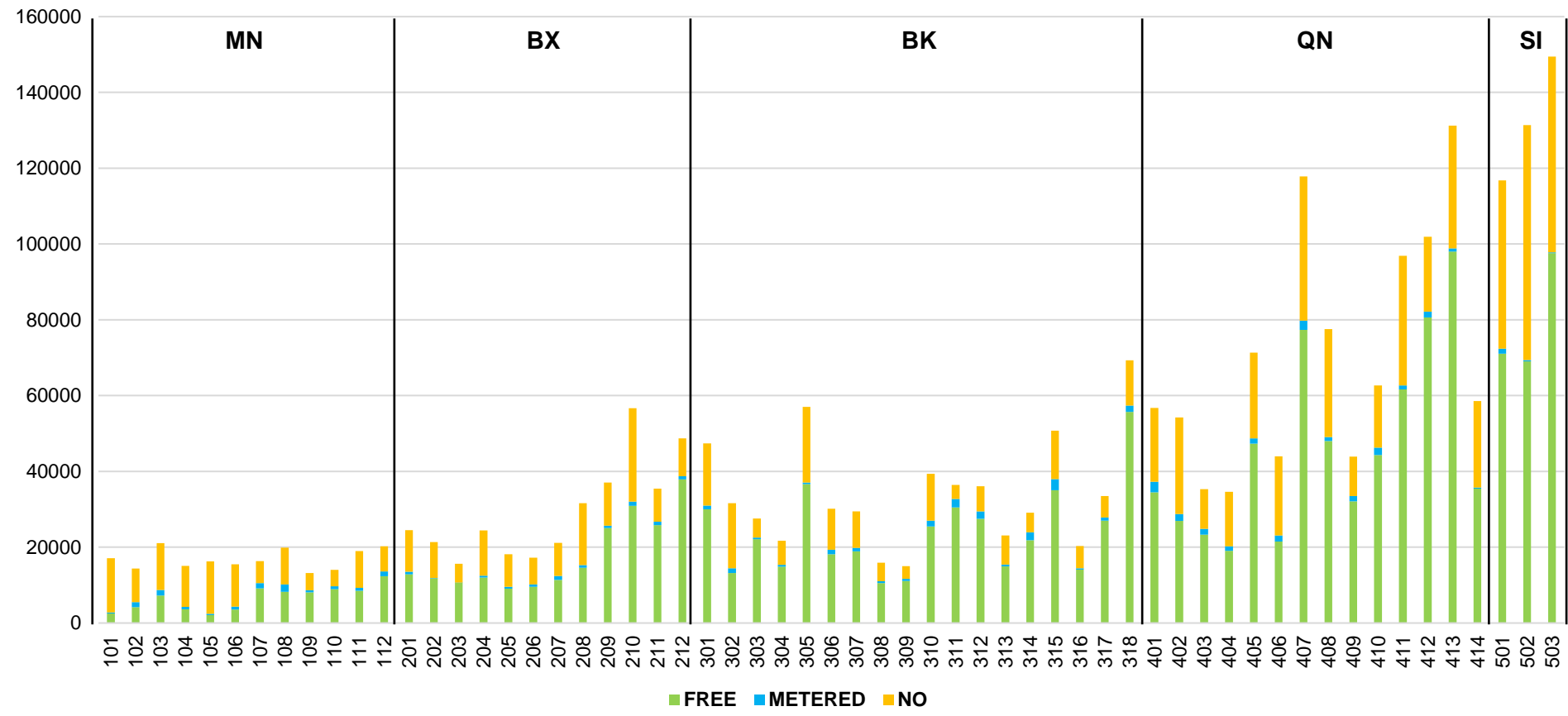
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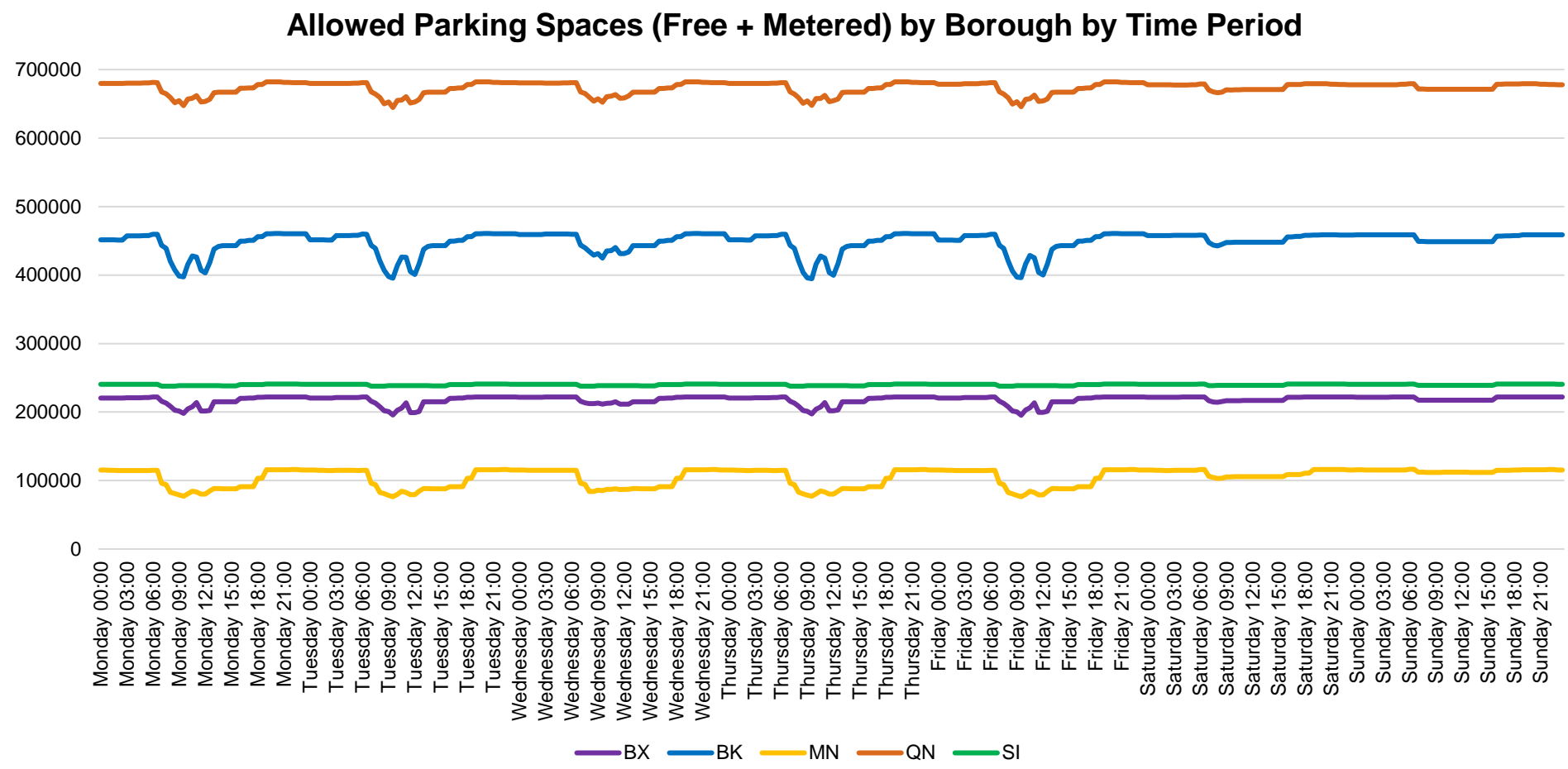


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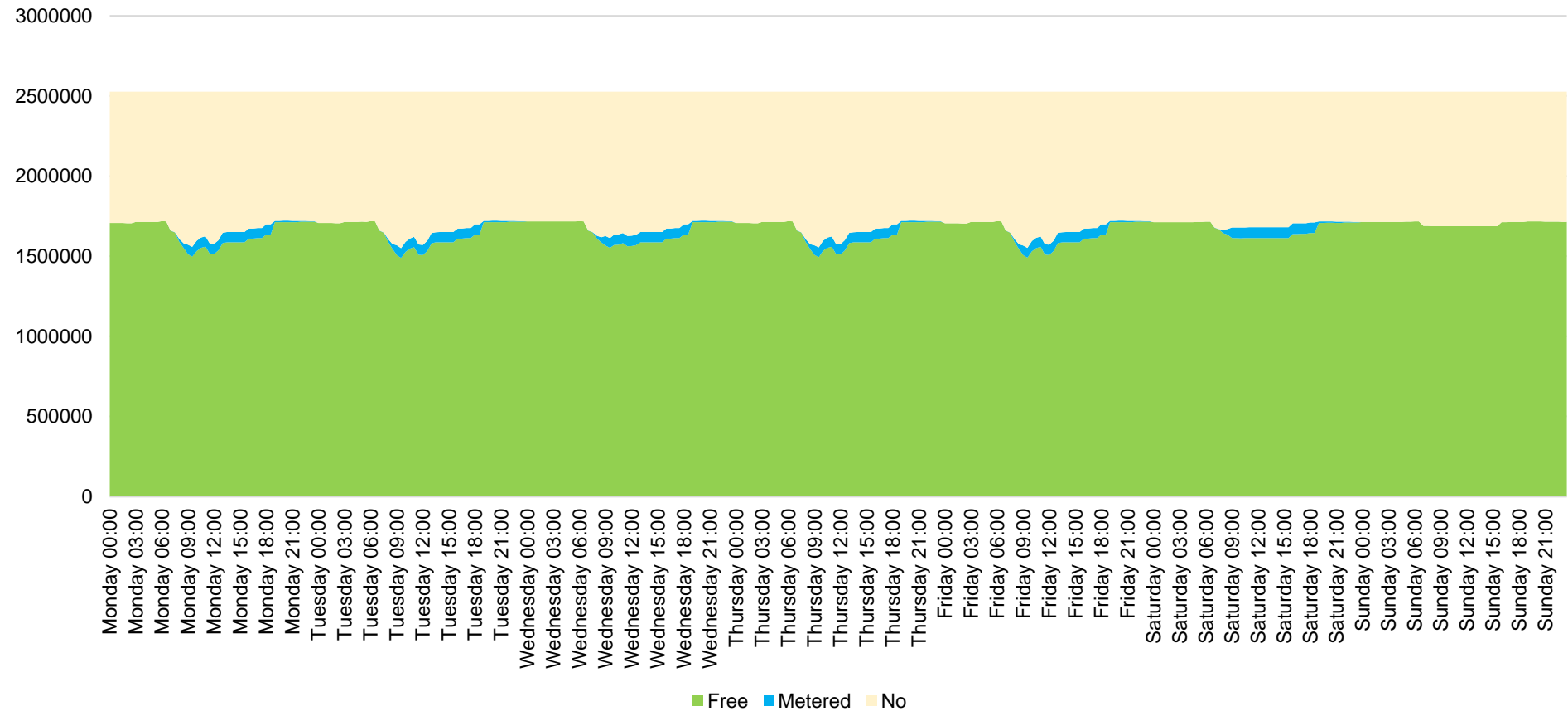
Parking Spaces by Community District (Wednesday 4 PM)

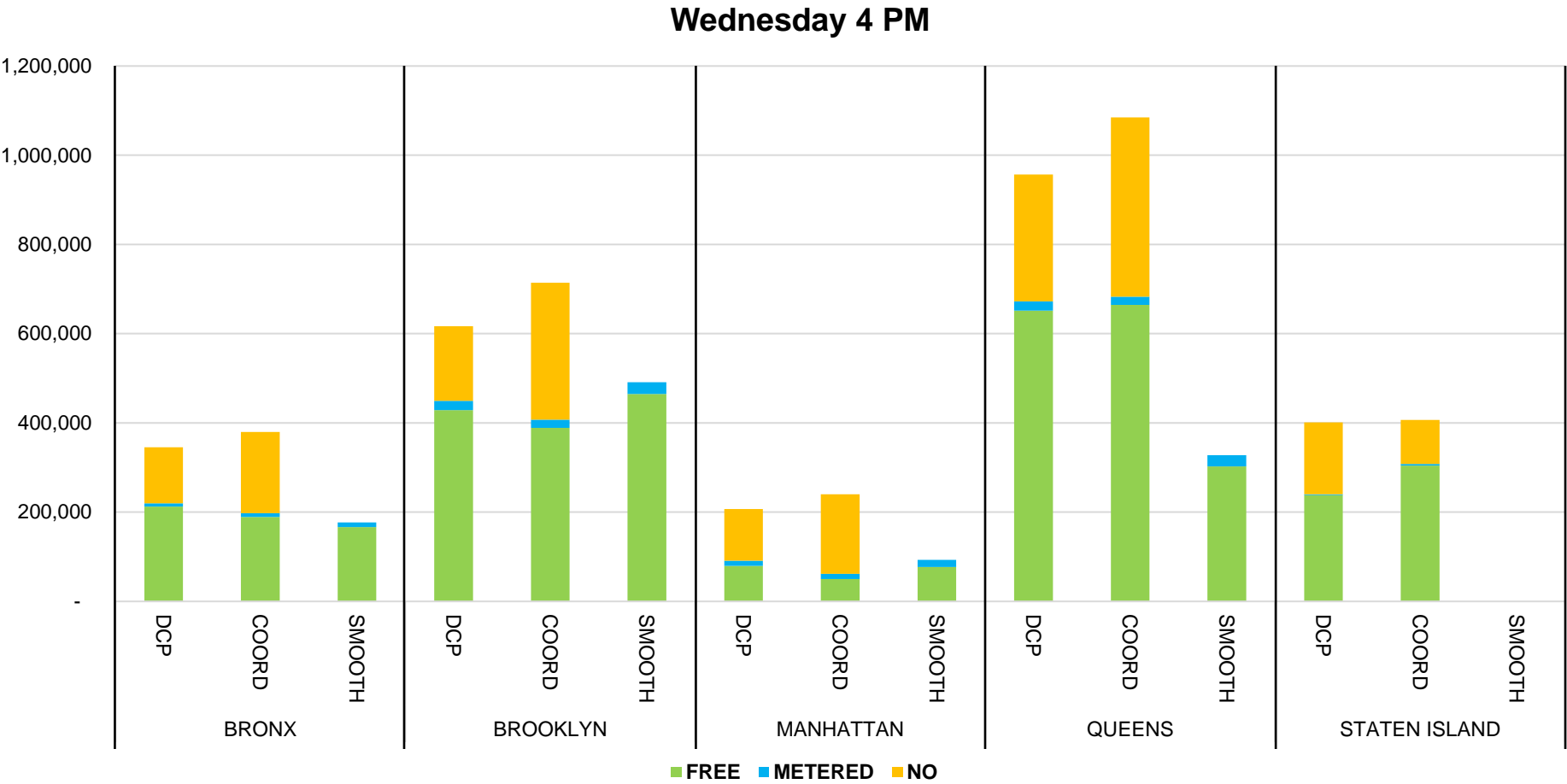






NYC Total Free and Meterd Parking Spaces by Time Period





DOT Parking Regulation Database

Signs Spreadsheet

Locations Spreadsheet

Parking Regulation Shapefile

DCP Single Line Street Base Map Dataset (LION)

NYC Planimetric
(Including Curb cuts)

DEP Hydrants Database