

# **COVID19 IMPACTS ON TRANSPORTATION**

Produced by the NYC Department of City Planning's Transportation Division

August 11, 2020



- The NYC Department of City Planning's Transportation Division is compiling data to help understand the effects of COVID19 on the transportation network. This is our twentieth weekly report.
- This will likely be our final weekly report before Labor Day. We'll continue to watch travel behavior closely and will resume our reporting of existing conditions in September, on a weekly or less frequent basis.
- This week's report includes the following information:
  1. Executive Summary
  2. Citywide Trends
  3. MTA: Subway and Bus
  4. MTA: Metro North Railroad, Long Island Rail Road, Access-A-Ride
  5. Ferry
  6. Traffic
  7. Citi Bike
  8. Timeline
- This report may serve to help in pandemic response and longer-term recovery. We are eager for feedback in how to make this more useful. Feel free to reach out to Laura Smith ([lsmith@planning.nyc.gov](mailto:lsmith@planning.nyc.gov)) with questions or comments.

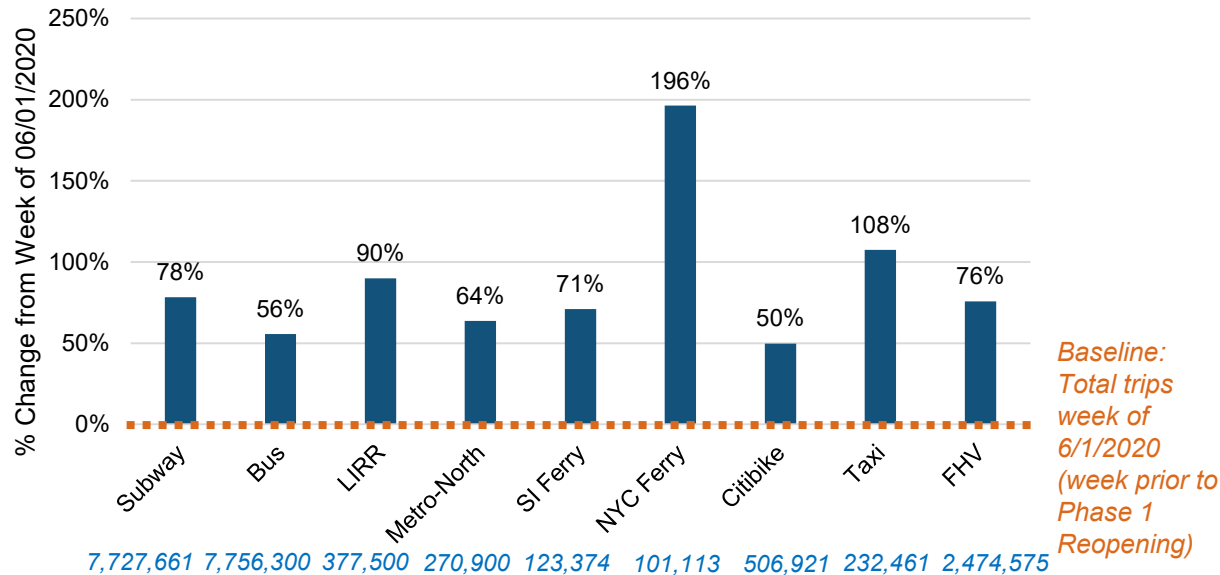
- **The effects of Tropical Storm Isaias on Tuesday, August 4 impacted travel across the region.**
- **Week-over-week transit ridership remained steady.**
- **As of the week of August 3, subway ridership was up 78 percent, and bus ridership up 56 percent, from the week prior to the start of Phase 1 in early June.**
- **Total weekday subway and bus ridership was mostly unchanged from the previous week, with slightly higher weekend ridership.**
- **Metro North and Long Island Rail Road ridership** for the week of August 3 was down 18 and 13 percent, respectively, from the previous week. **These reductions were likely weather-related.**
- NYC Ferry and the Staten Island Ferry weekday ridership totals were also lower than the previous week.
- During the week of August 3, weekday **AM peak hour ridership on the Staten Island Ferry shifted back to 6am** from a 7am AM peak the previous week and one year ago. **PM peak travel remained at 4pm in the afternoon** as opposed to 5pm from one year ago.
- Total weekday traffic counts on MTA bridges and tunnels during the week of August 3 were down 3 percent, while weekend traffic counts were up 2 percent, over the previous week.
- Week-over-week increases to the total number of vehicular entries into the Manhattan CBD and the entirety of Manhattan have slowed since the end of June, but weekday entries are 93 and 97 percent, respectively of their totals in early March.
- **More than 90,000 Citi Bike trips were taken on Saturday, August 8** – the highest number recorded during the pandemic.

# Citywide Trends

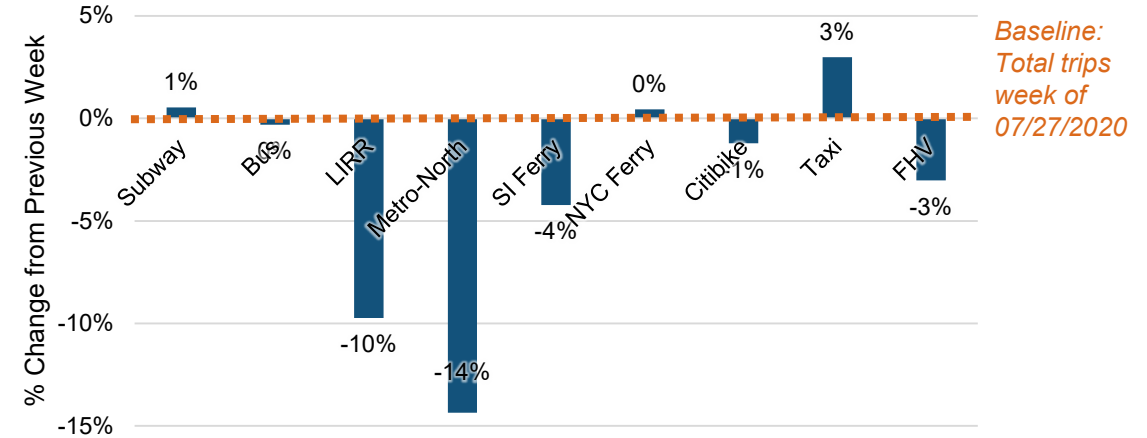
# Citywide Trends

- New York City entered Phase 4 of reopening on Monday, July 20. Use of all modes of travel was up substantially over early June.
- As of the week of August 3, subway ridership was up 78 percent, and bus ridership up 56 percent, from the week prior to the start of Phase 1 in early June.
- All modes except for NYC Ferry and Citi Bike still lag substantially from their pre-pandemic ridership levels.

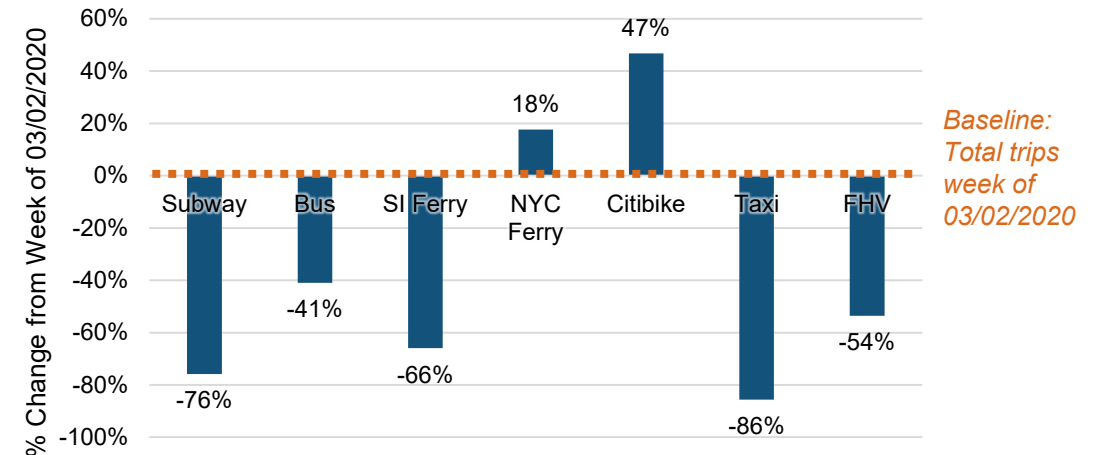
**Week of 08/03/2020 Compared to Week of 06/01/2020  
(Weekly Total)**



**Week of 08/03/2020 Compared to Previous Week  
(Weekly Total)**



**Week of 08/03/2020 Compared to Week of 03/02/2020  
(Weekly Total)**



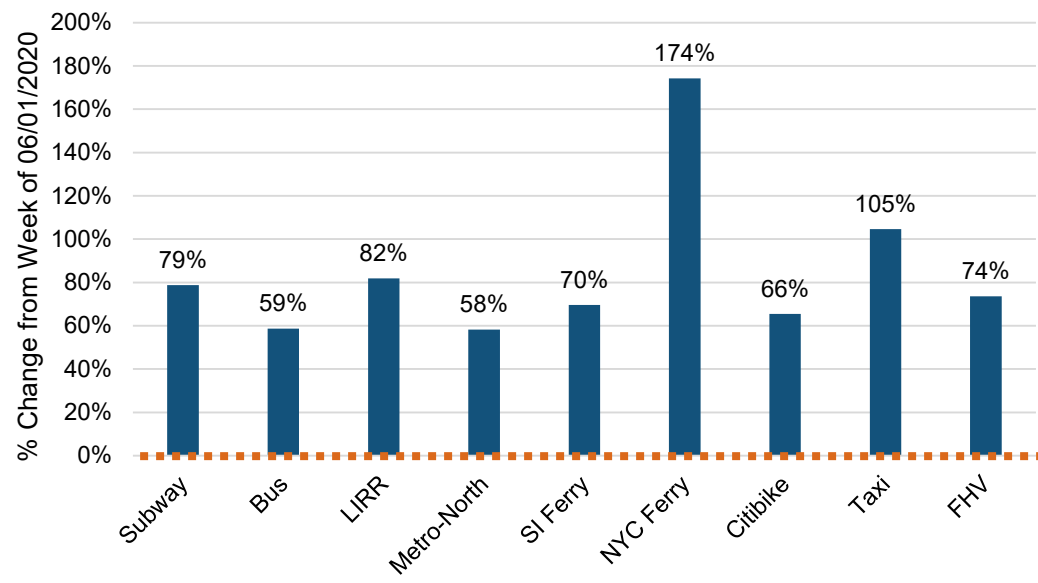
Data sources: MTA (Subway, Bus, LIRR, Metro North), EDC (NYC Ferry), DOT (Citi Bike, SI Ferry), TLC (Taxi, FHV).

Note: LIRR and Metro North data are not available for March, therefore, they are not included in our comparison to the week of 03/02/2020.

# Citywide Trends: Weekday

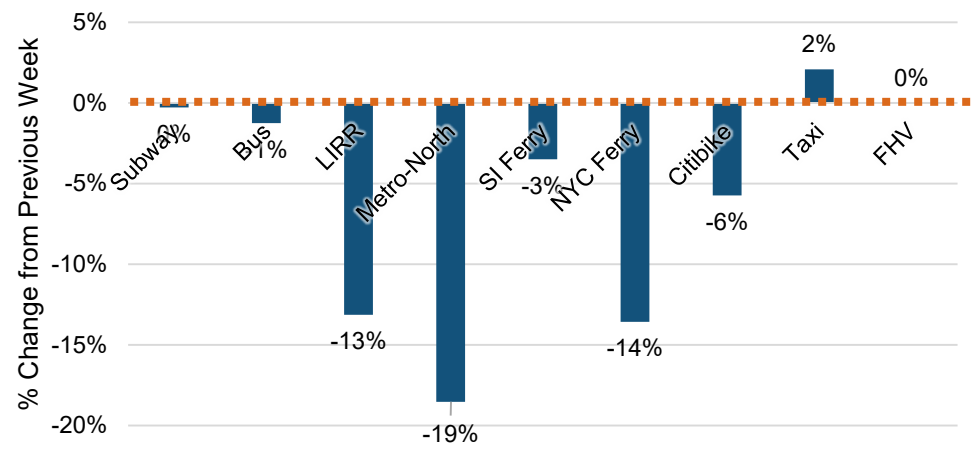
- New York City entered Phase 4 of reopening on Monday, July 20. Use of all modes of travel was up substantially over early June.
- As of the week of August 3, weekday subway ridership was up 79 percent, and bus ridership up 59 percent, from early June.
- Total weekday subway and bus ridership was mostly unchanged over the previous week.

**Week of 08/03/2020 Compared to Week of 06/01/2020 (Weekday)**



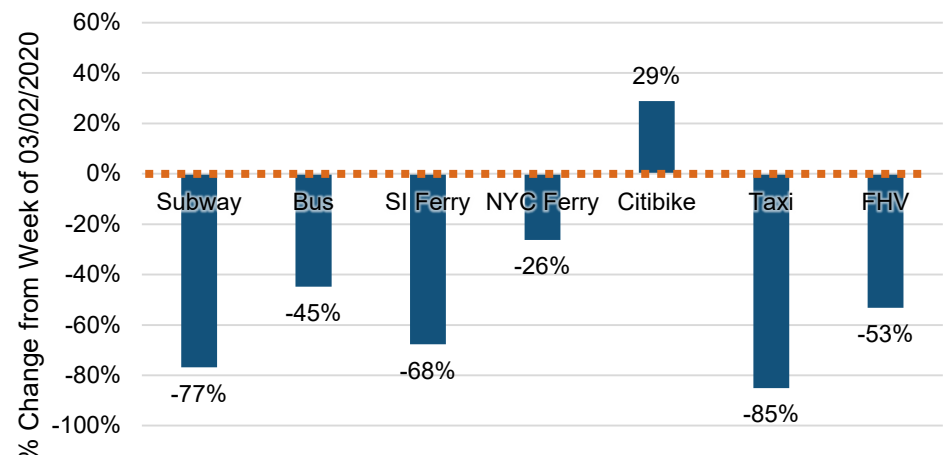
*Baseline: Total trips week of 6/1/2020 (week prior to Phase 1 Reopening)*

**Week of 08/03/2020 Compared to Previous Week (Weekday)**



*Baseline: Total trips week of 07/27/2020*

**Week of 08/03/2020 Compared to Week of 03/02/2020 (Weekday)**



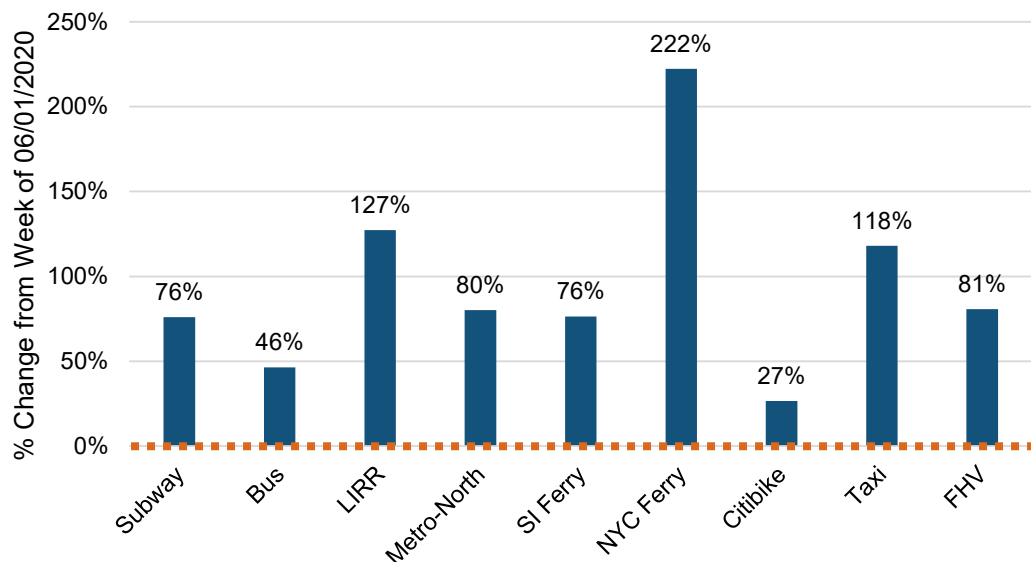
*Baseline: Total trips week of 03/02/2020*

Data sources: MTA (Subway, Bus, LIRR, Metro North), EDC (NYC Ferry), DOT (Citi Bike, SI Ferry), TLC (Taxi, FHV).  
 Note: LIRR and Metro North data are not available for March, therefore, they are not included in our comparison to the week of 03/02/2020.

# Citywide Trends: Weekend

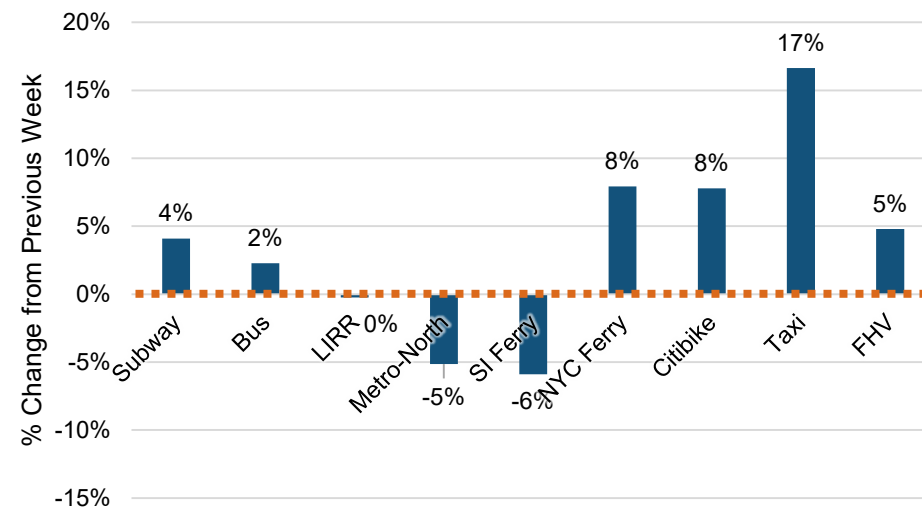
- New York City entered Phase 4 of reopening on Monday, July 20. Use of all modes of travel was up substantially over early June.
- As of the week of August 3, weekend subway ridership was up 76 percent, and bus ridership up 46 percent, from early June.
- Total weekend subway and bus ridership increased slightly over the previous week.

**Week of 08/03/2020 Compared to Week of 06/01/2020 (Weekend)**



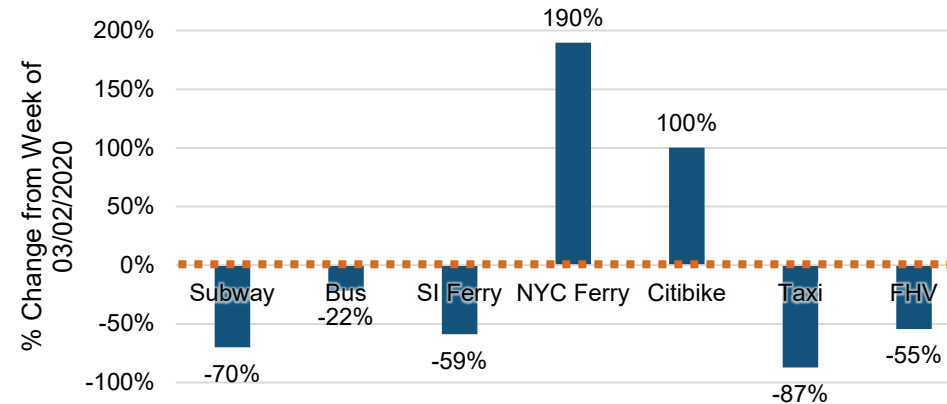
*Baseline: Total trips week of 6/1/2020 (week prior to Phase 1 Reopening)*

**Week of 08/03/2020 Compared to Previous Week (Weekend)**



*Baseline: Total trips week of 07/27/2020*

**Week of 08/03/2020 Compared to Week of 03/02/2020 (Weekend)**



*Baseline: Total trips week of 03/02/2020*

Data sources: MTA (Subway, Bus, LIRR, Metro North), EDC (NYC Ferry), DOT (Citi Bike, SI Ferry), TLC (Taxi, FHV).

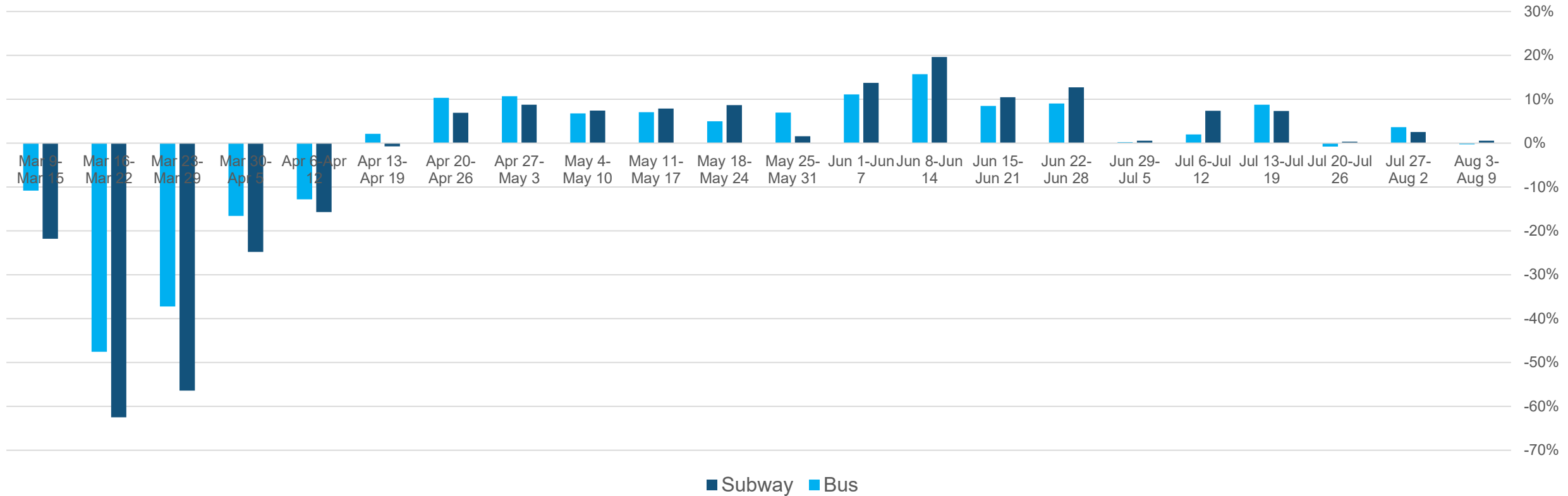
Note: LIRR and Metro North data are not available for March, therefore, they are not included in our comparison to the week of 03/02/2020.

# MTA data: Subway and Bus



# MTA Subway & Bus System-wide Ridership Changes

Percent Change of Estimated\* MTA Subway & Bus Weekly Ridership  
(March 1- August 9, 2020)

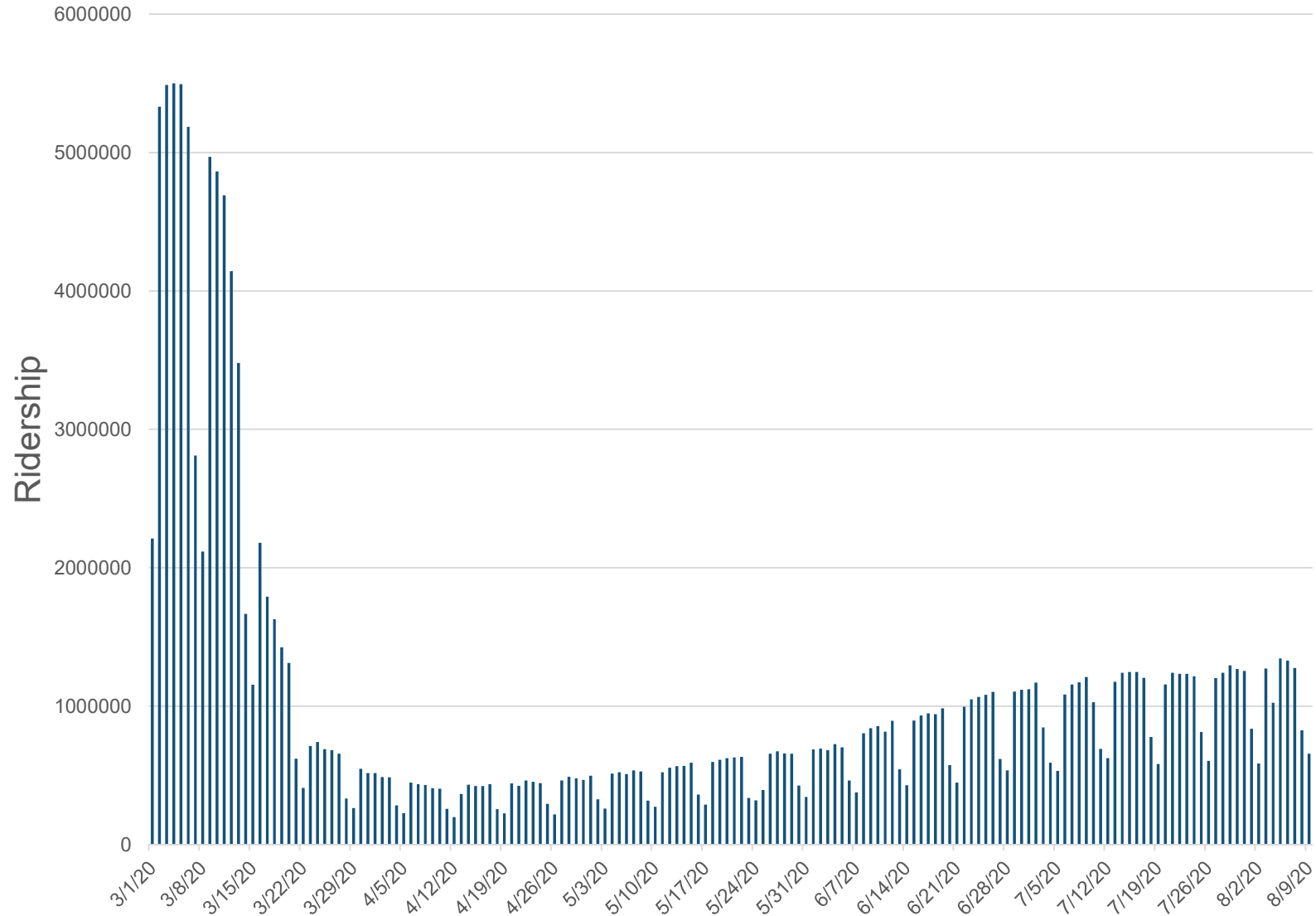


- Both subway and bus ridership have generally been increasing week-over-week since mid-April, but gains have slowed in recent weeks.

\*From the MTA: Current bus ridership figures are estimated from models that use MetroCard and OMNY swipes and taps and Automatic Passenger Counter data that is available on a portion of our bus fleet. These figures are indicative of ridership but not a precise count. Figures from recent days may be revised as reconciliation processes are carried out. Data sources: MTA (<https://new.mta.info/coronavirus/ridership>)

# MTA Subway System-wide Ridership Changes

Estimated\* MTA Subway Ridership (March 1- August 9, 2020)

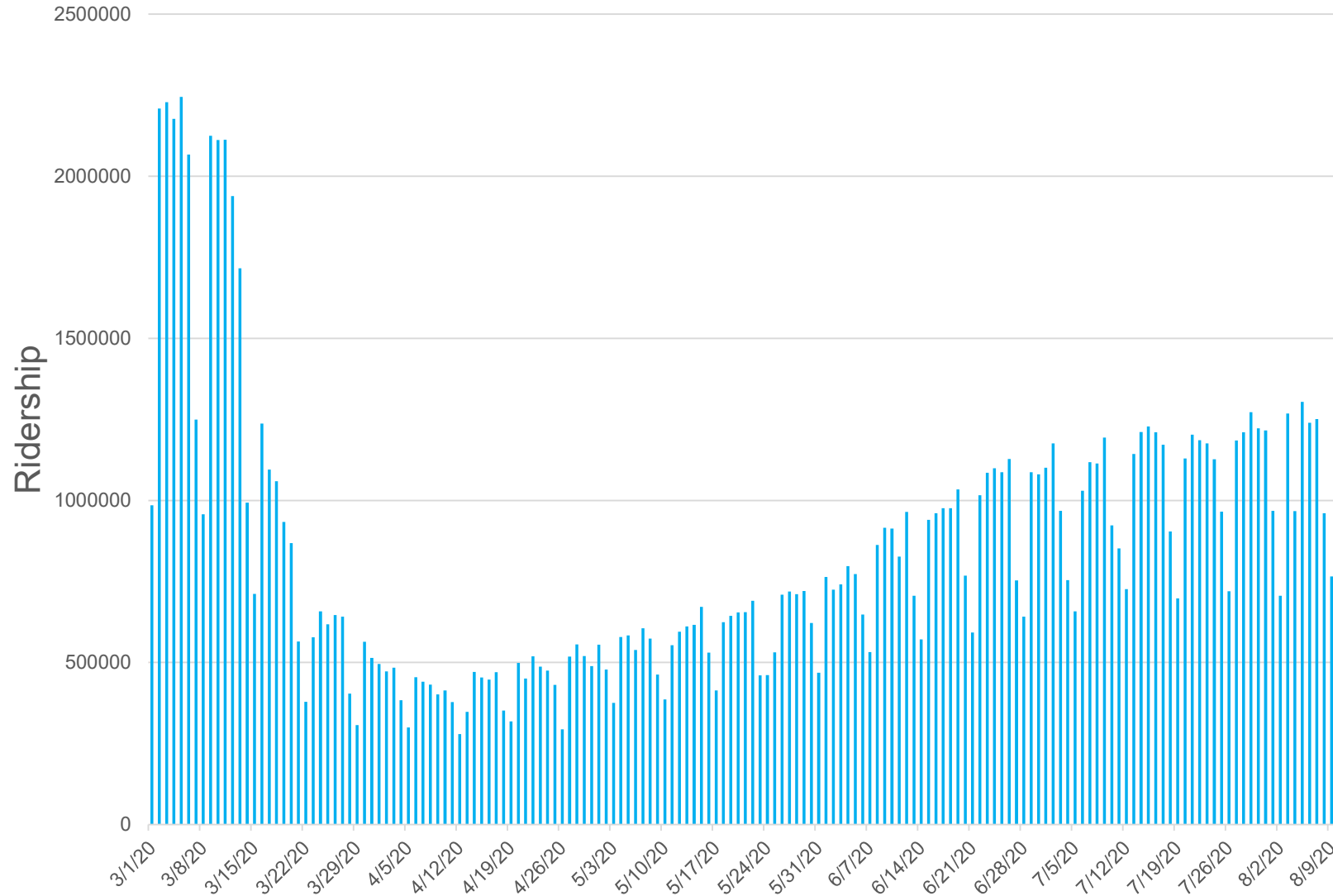


- Weekday subway ridership during the week of August 3 remained steady over the previous week, while weekend ridership was up 4 percent over the previous week.
- Weekday subway ridership is now at nearly 25 percent of pre-pandemic levels.

\*From the MTA: Subway ridership figures are determined from MetroCard and OMNY swipes and taps. Figures from recent days may be revised as data reconciliation processes are carried out. Data sources: MTA (<https://new.mta.info/coronavirus/ridership>)

# MTA Bus System-wide Ridership Changes

Estimated \* MTA Bus Ridership (March 1- August 9, 2020)



- Weekday bus ridership was down 1 percent during the week of August 3 from the previous week, while weekend ridership up 2 percent.
- Weekday bus ridership is now at nearly half of pre-pandemic levels.

\*From the MTA: Current bus ridership figures are estimated from models that use MetroCard and OMNY swipes and taps and Automatic Passenger Counter data that is available on a portion of our bus fleet. These figures are indicative of ridership but not a precise count. Figures from recent days may be revised as reconciliation processes are carried out.

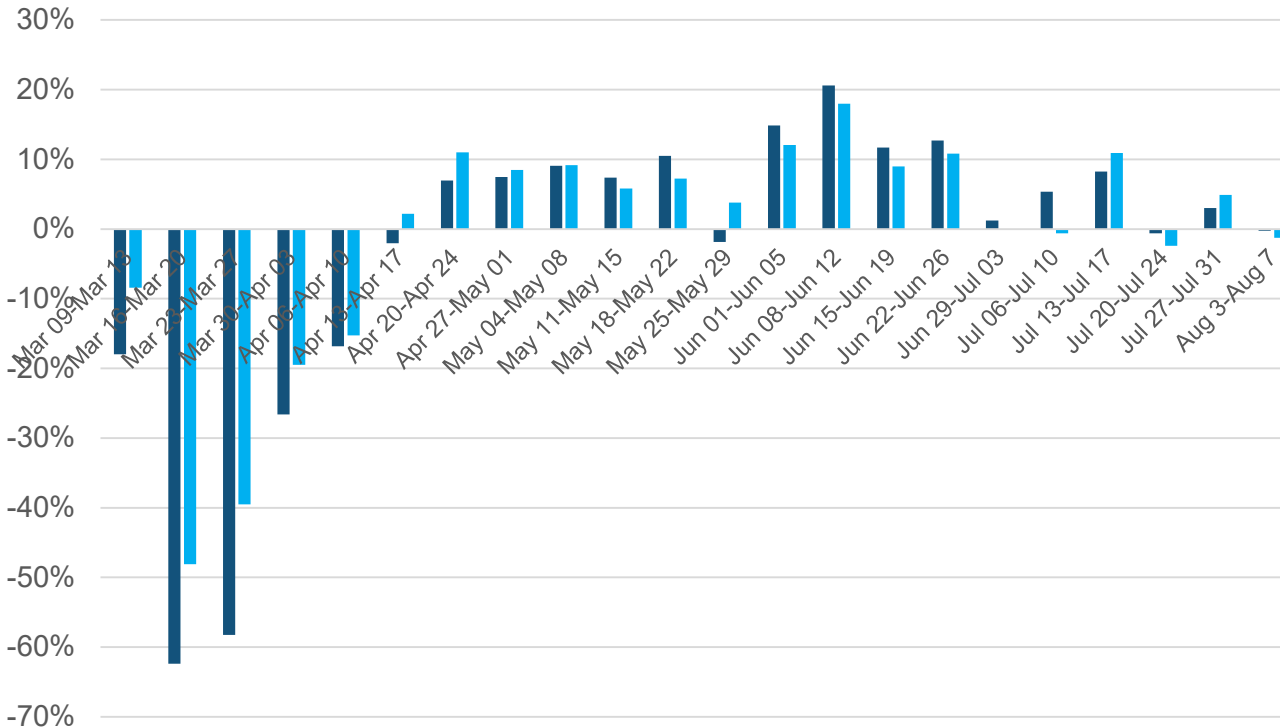
Data sources: MTA (<https://new.mta.info/coronavirus/ridership>)

August 11, 2020

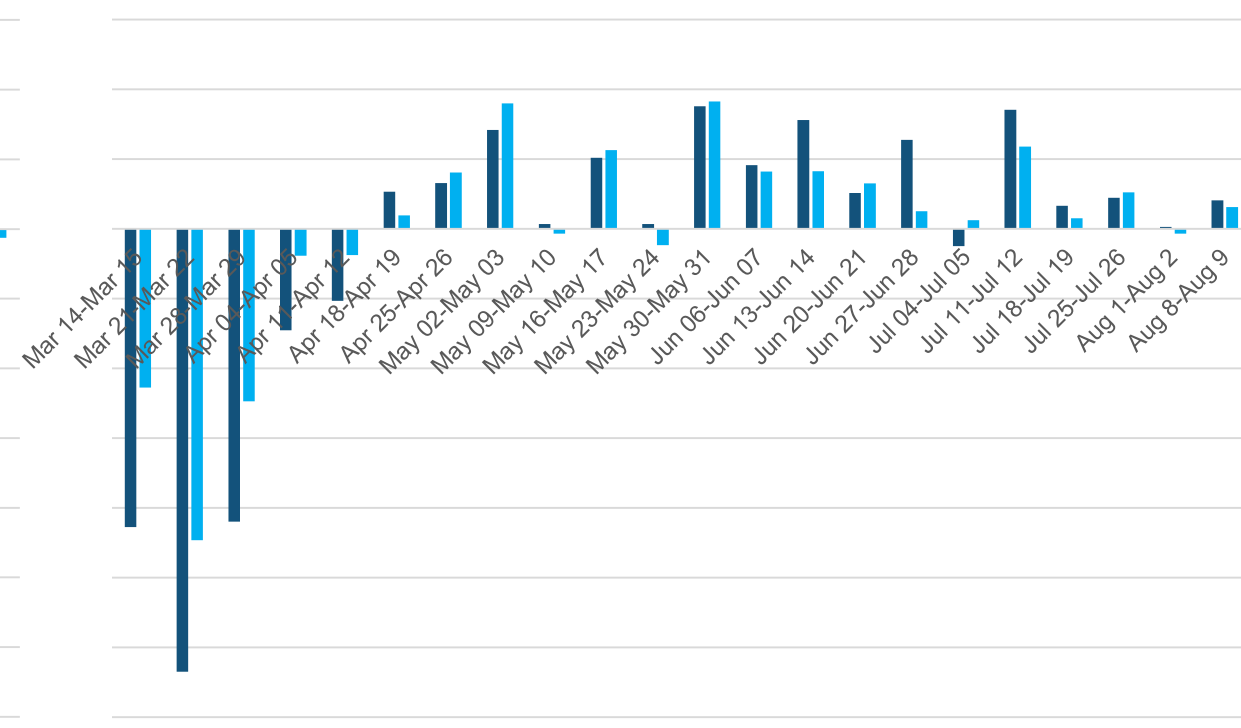
# MTA Subway & Bus System Ridership Changes: Weekday vs. Weekend



Percent Change of Estimated\* MTA Subway & Bus Weekly Ridership  
(Weekdays During March 1- August 9, 2020)



Percent Change of Estimated\* MTA Subway & Bus Weekly Ridership  
(Weekends During March 1- August 9, 2020)

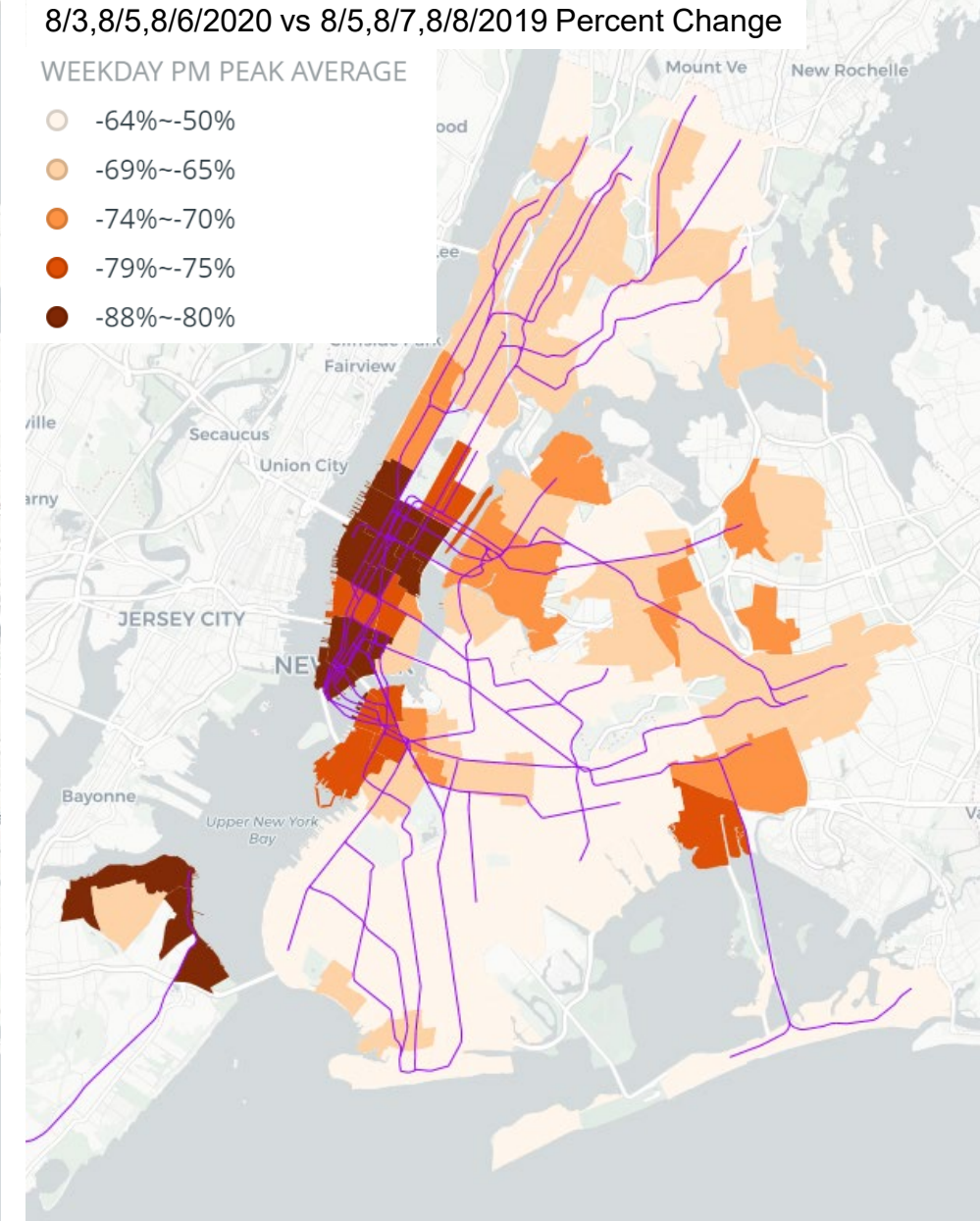
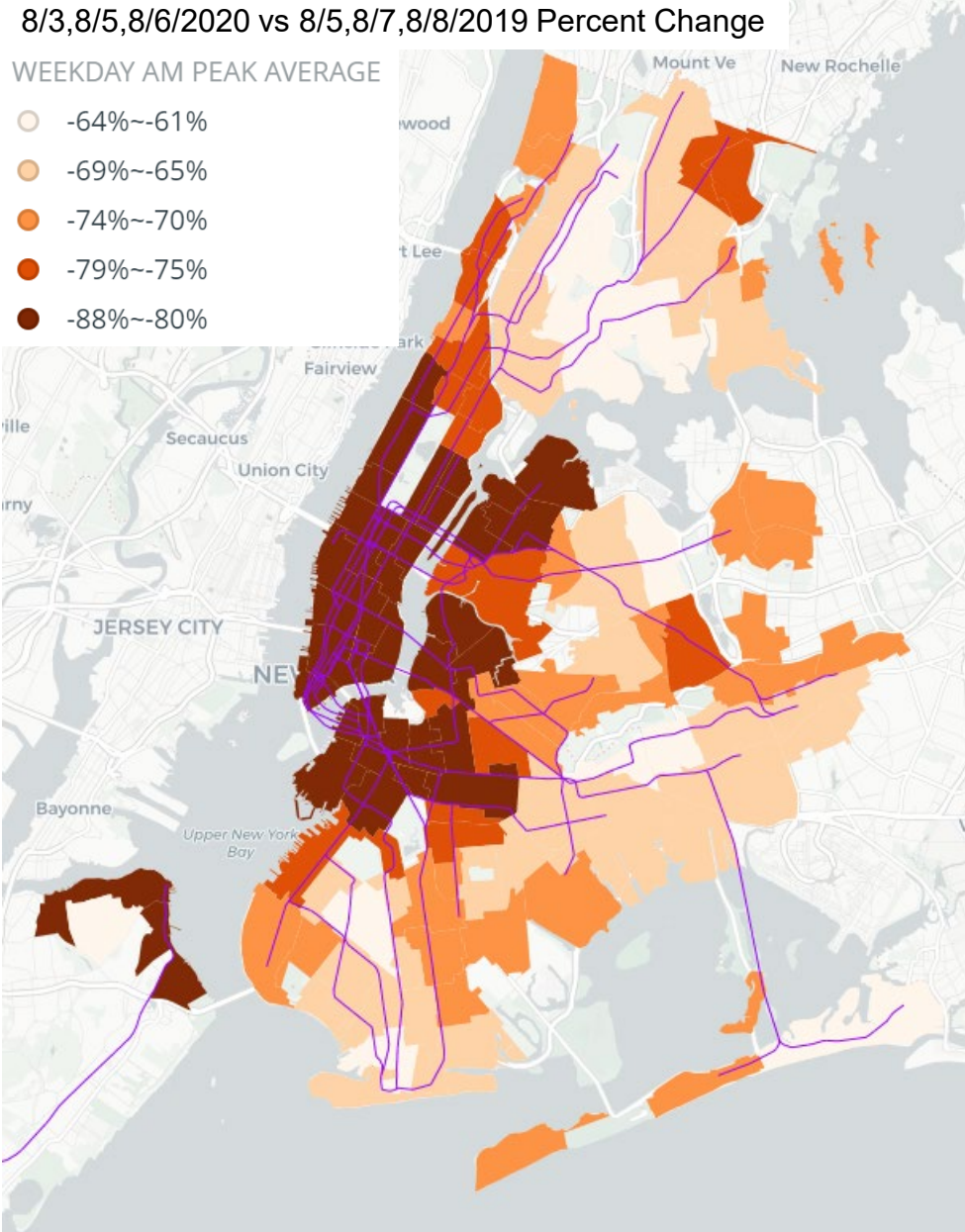


- During the week of August 3, weekday ridership for both subway and bus were down slightly, while weekend ridership was up.

\*From the MTA: Current bus ridership figures are estimated from models that use MetroCard and OMNY swipes and taps and Automatic Passenger Counter data that is available on a portion of our bus fleet. These figures are indicative of ridership but not a precise count. Figures from recent days may be revised as reconciliation processes are carried out. Data sources: MTA (<https://new.mta.info/coronavirus/ridership>)

# Weekday AM and PM Peak Turnstile Data – Comparisons with July 2019

- The maps on the right illustrate changes in AM and PM peak ridership by neighborhood during the week of August 3 compared to the same week in 2019.
- AM peak ridership remains more than 80% down in much of Manhattan and in western Brooklyn and Queens over the same period in 2019.
- PM peak ridership – an indicator of where people are commuting home from – is more than 80 percent down in the Manhattan CBD, and more than 70 percent down in the city's other business districts, including the greater downtown Brooklyn area, Long Island City, Flushing, and Jamaica.





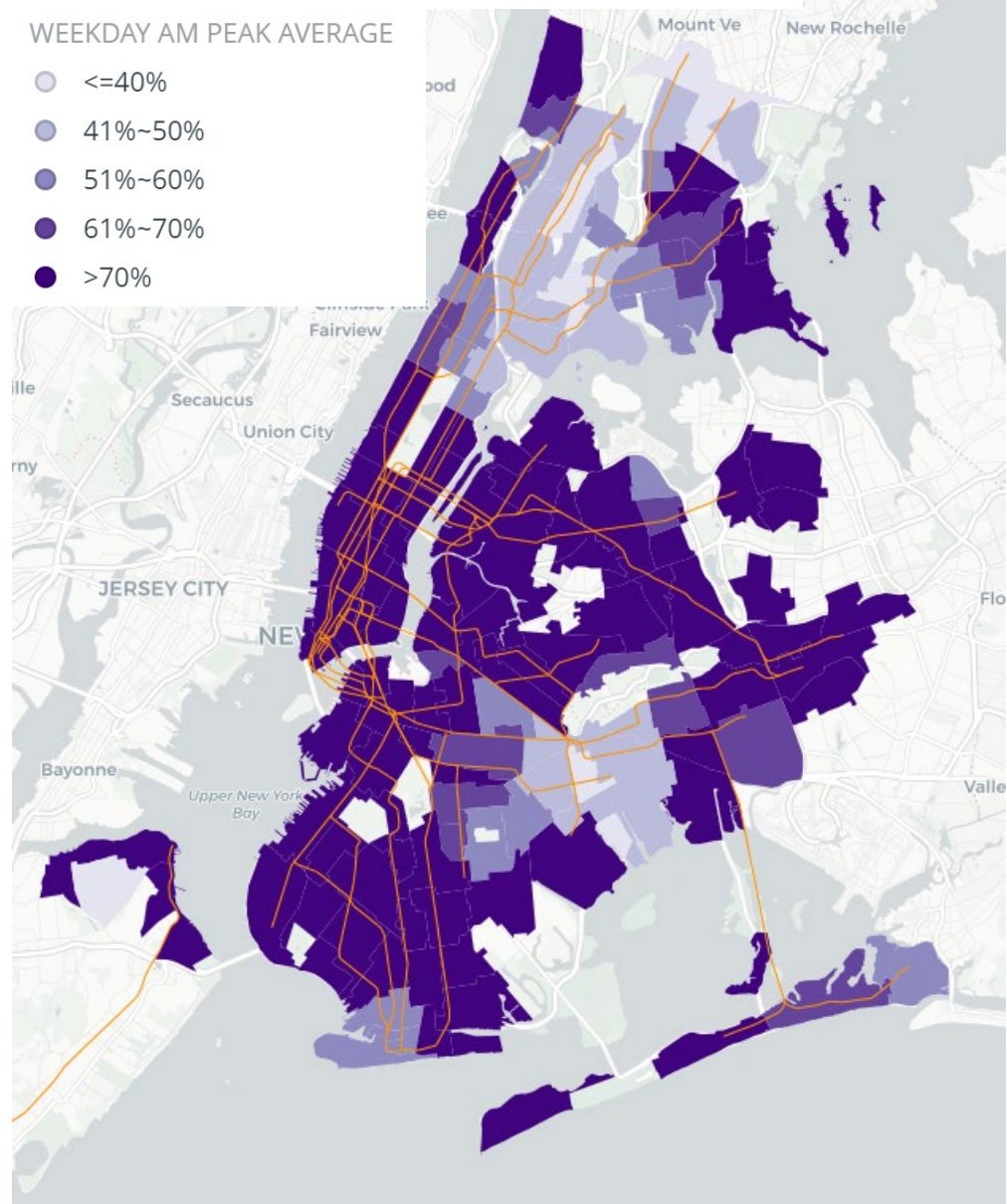
# Weekday AM and PM Peak Turnstile Data – Comparisons with early June 2020

- AM peak subway ridership has increased by more than 70 percent since the start of June in most of the Manhattan CBD, and much of Brooklyn and Queens. Ridership in the Bronx, central Brooklyn, and southeast Queens lags.
- Neighborhoods in the Bronx and Brooklyn that show the slowest rates of return are often the same ones that saw the smallest percent decline in AM peak hour ridership compared to a year ago, as shown on the previous slide.
- PM peak ridership increased by more than 70 percent in the Manhattan CBD, Downtown Brooklyn, St. George Staten Island, and central Queens including Jackson Heights, Corona, Rego Park and Forest Hills.

8/3,8/5,8/6/2020 vs 6/1,6/3,6/4/2020 Percent Change

### WEEKDAY AM PEAK AVERAGE

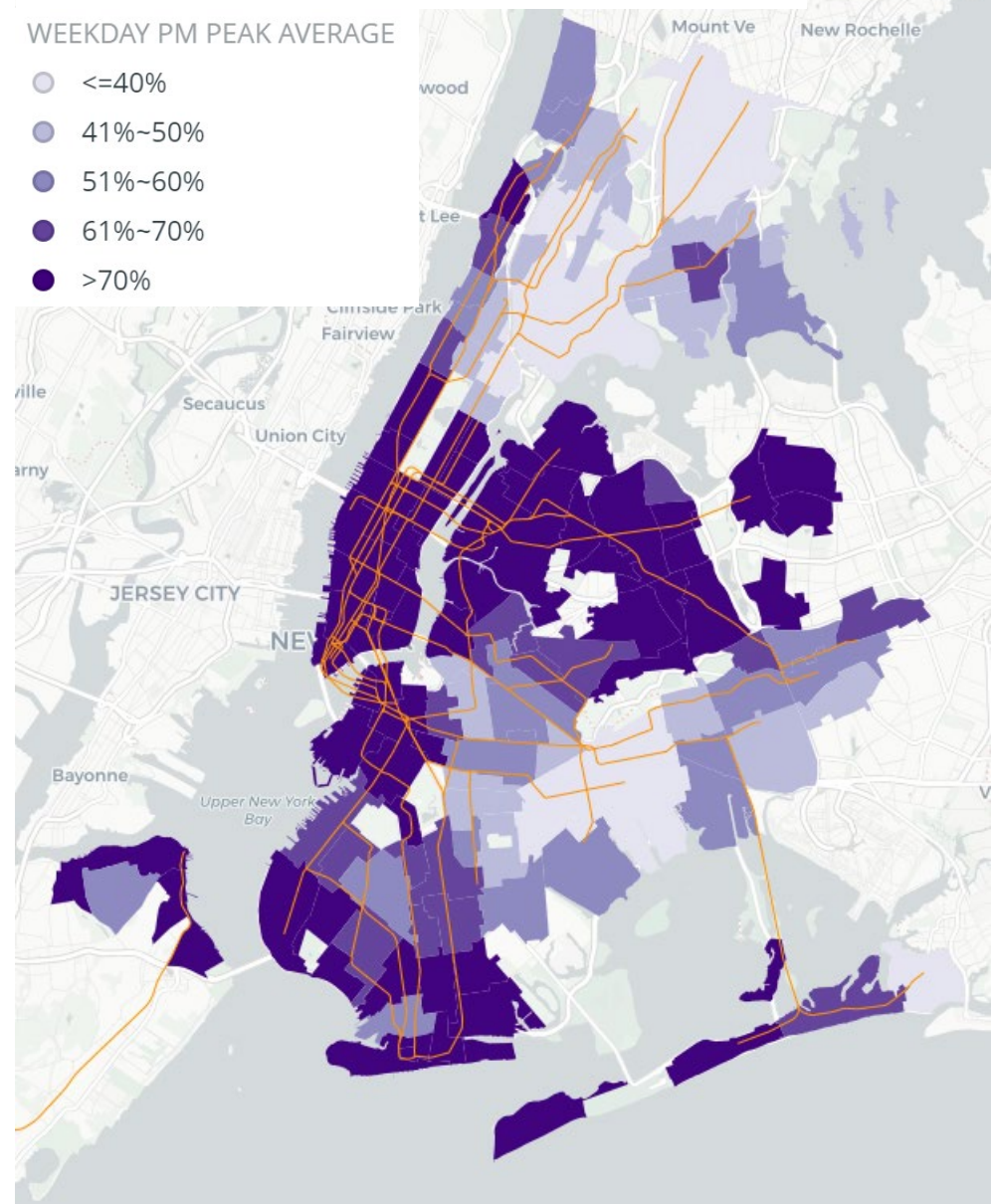
- ≤40%
- 41%~50%
- 51%~60%
- 61%~70%
- >70%



8/3,8/5,8/6/2020 vs 6/1,6/3,6/4/2020 Percent Change

### WEEKDAY PM PEAK AVERAGE

- ≤40%
- 41%~50%
- 51%~60%
- 61%~70%
- >70%

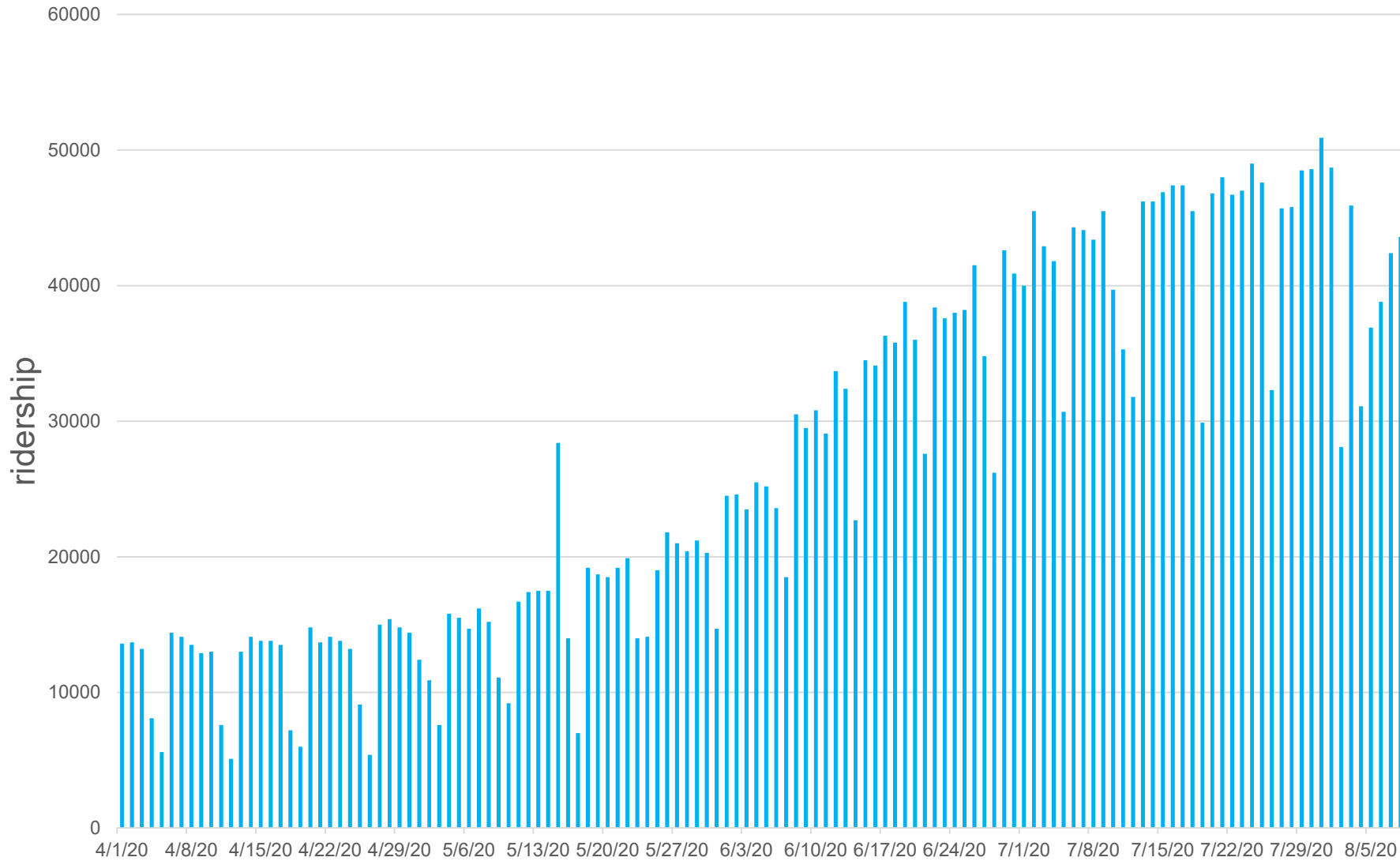




**MTA data:**  
**Metro North Railroad, Long Island Rail  
Road, Access-A-Ride**

# Metro-North Railroad Ridership Changes

Estimated \* MTA Metro-North Railroad (March 1- August 9, 2020)



- Weekday MNR ridership for the week of August 3 was down 18 percent over the previous week, while weekend ridership was down 1 percent.

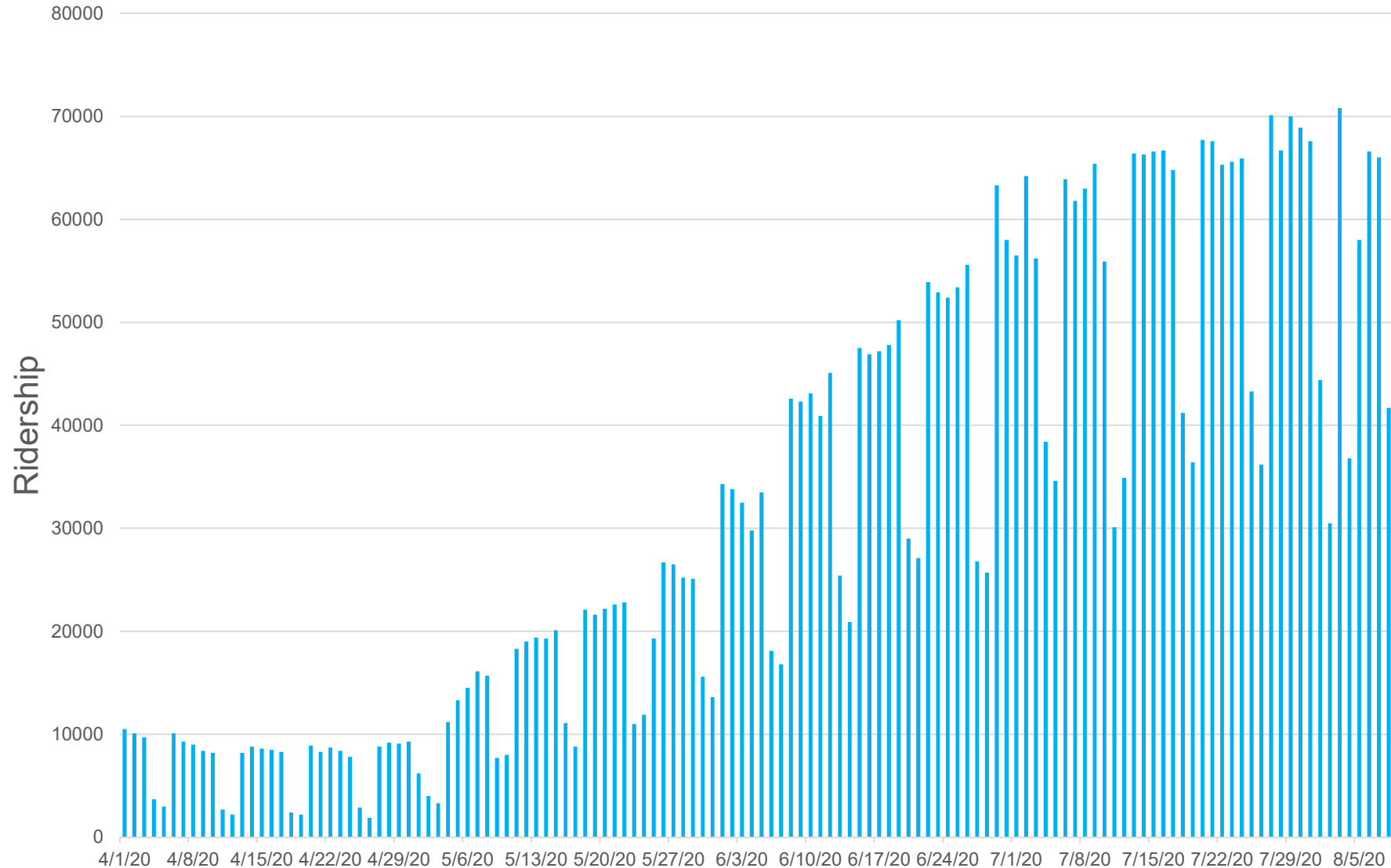
\*From the MTA: Metro-North ridership is estimated by a model using monthly, weekly, ten-trip, and daily ticket sales. Percent change is calculated based on 2019 monthly average weekday/Saturday/Sunday ridership figures. Data sources: MTA (<https://new.mta.info/coronavirus/ridership>)



# Long Island Rail Road Ridership Changes



Estimated \* MTA Long Island Rail Road Ridership (April 1- August 9, 2020)



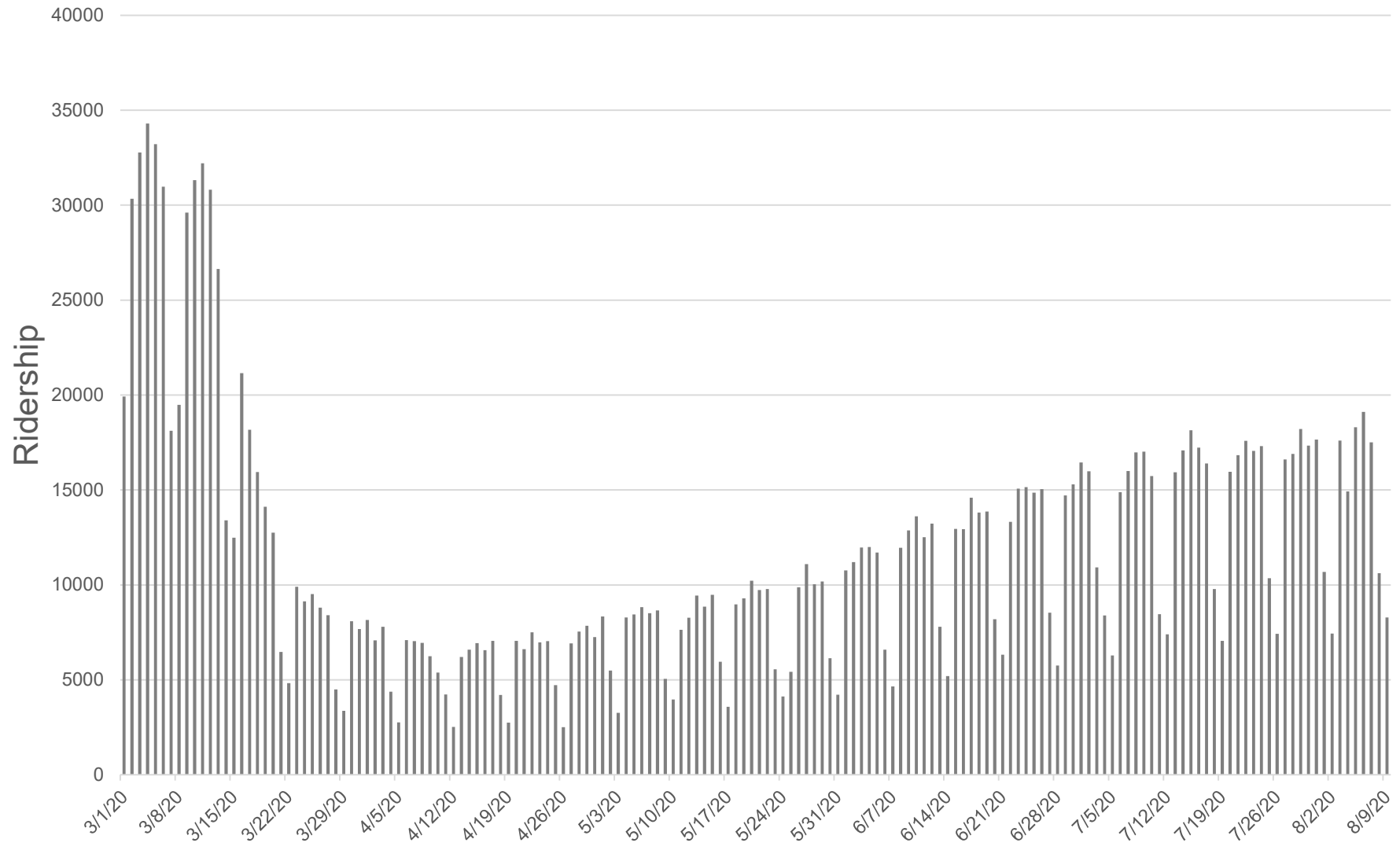
- Weekday LIRR ridership for the week of August 3 was down 13 percent compared to the previous week, while weekend ridership was up 5 percent.

\*From the MTA: LIRR ridership is estimated by a model using monthly, weekly, ten-trip, and daily ticket sales. Percent change is calculated based on 2019 monthly average weekday/Saturday/Sunday ridership figures. Data sources: MTA (<https://new.mta.info/coronavirus/ridership>)

# Access-A-Ride Scheduled Trip Changes



Estimated\* MTA Access-A-Ride Scheduled Trips (March 1- August 9, 2020)

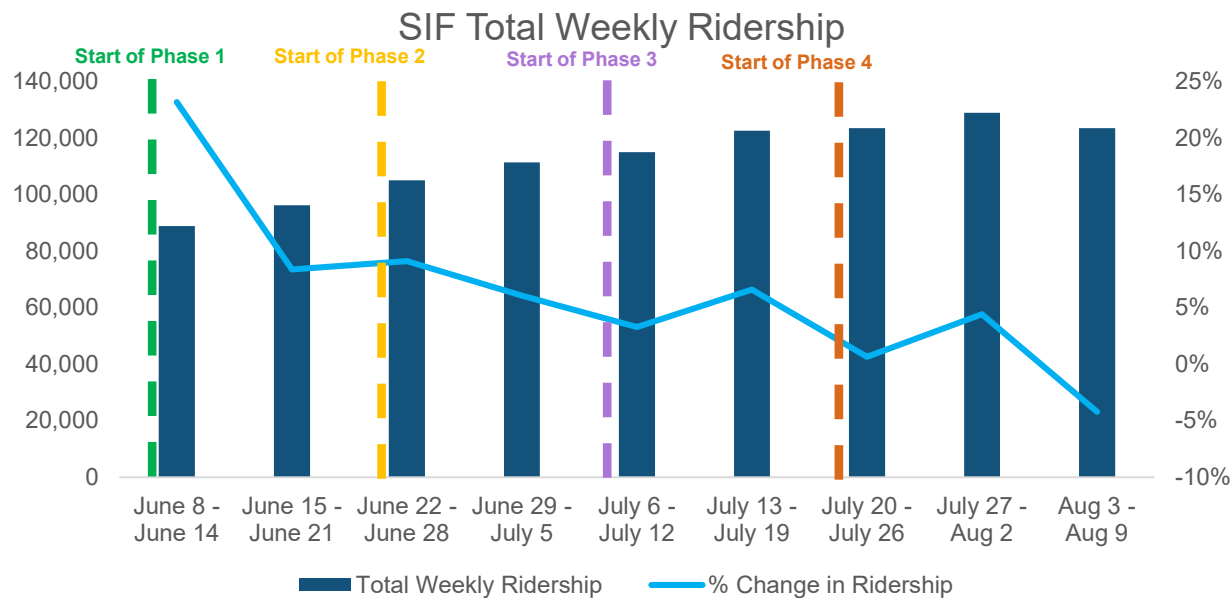


- Weekday Access-A-Ride scheduled trips for the week of August 3 remained steady compared to the previous week, while the weekend scheduled trips were up 4 percent.

\*From the MTA: To provide timely updates, this data presents scheduled Access-A-Ride trips as an indicator of demand, rather than completed trips. The process to reflect completed trips, including adjusting for on-demand trips, cancelations, no shows, and on-street issues, would delay release of data for several weeks.. Data sources: MTA (<https://new.mta.info/coronavirus/ridership>)

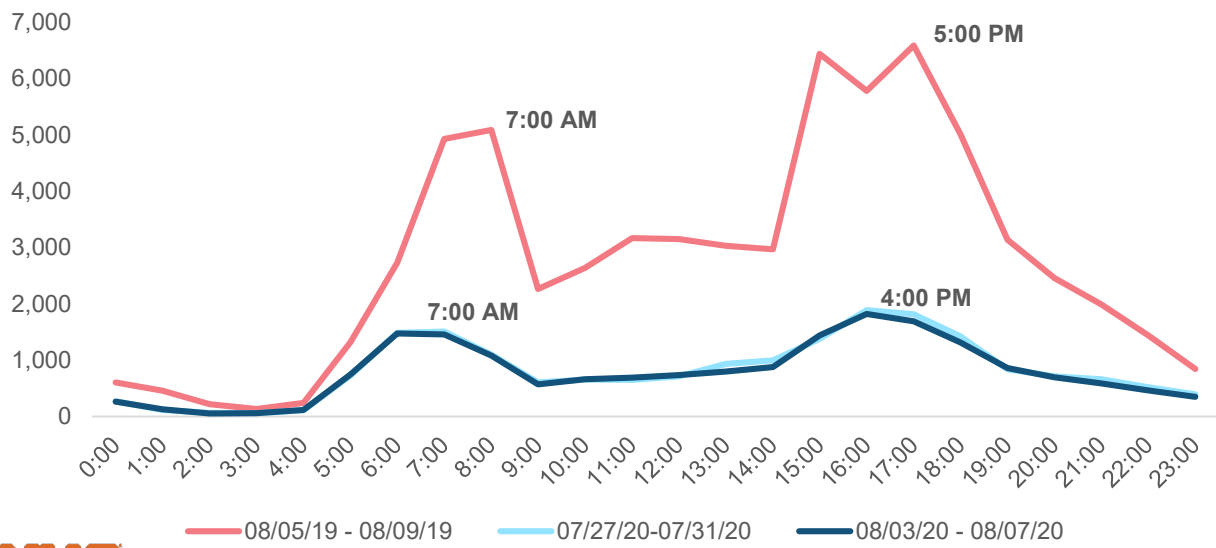
# Ferry

# The Staten Island Ferry and NYC Ferry

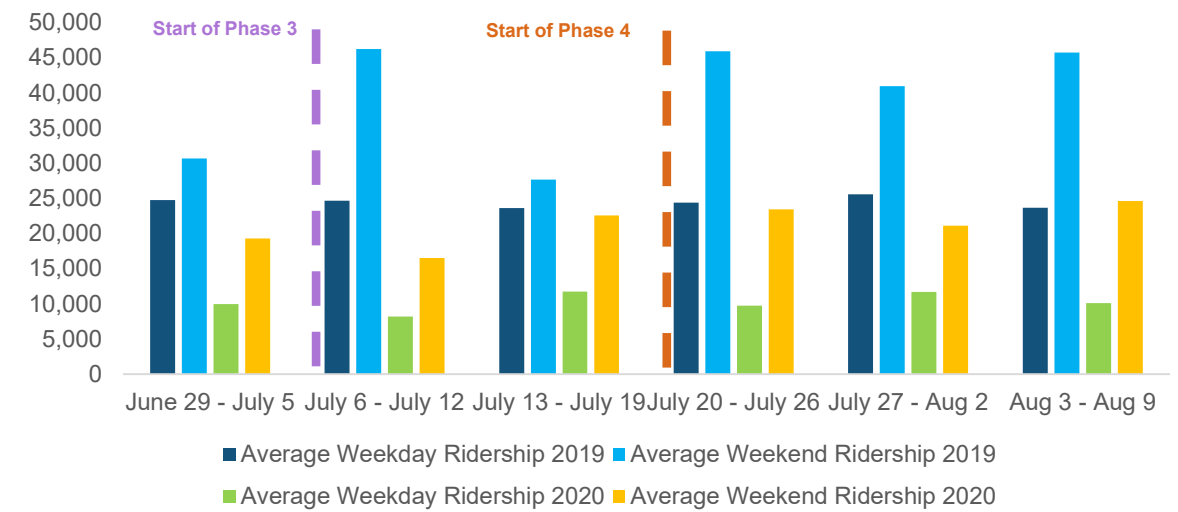


- The week of August 3 saw about **123,000 Staten Island Ferry riders**. This represents a four percent decrease, or about **5,400 less riders**, compared to the week of July 27.
- For SIF, weekday peak hour ridership shifted from **7:00 am to 6:00 am for the morning and remained at 4:00 pm for the afternoon**, compared to the week of July 27.
- The week of August 3 saw NYC Ferry weekly ridership remain basically unchanged compared to the week of July 27.
- NYC Ferry average weekday ridership **decreased by 14 percent**, while average weekend ridership **increased by 17 percent**.
- Both NYC Ferry and SIF ridership were negatively affected by Tropical Storm Isaias on Tuesday, August 4.

### SIF Average Weekday Total Ridership Per Hour



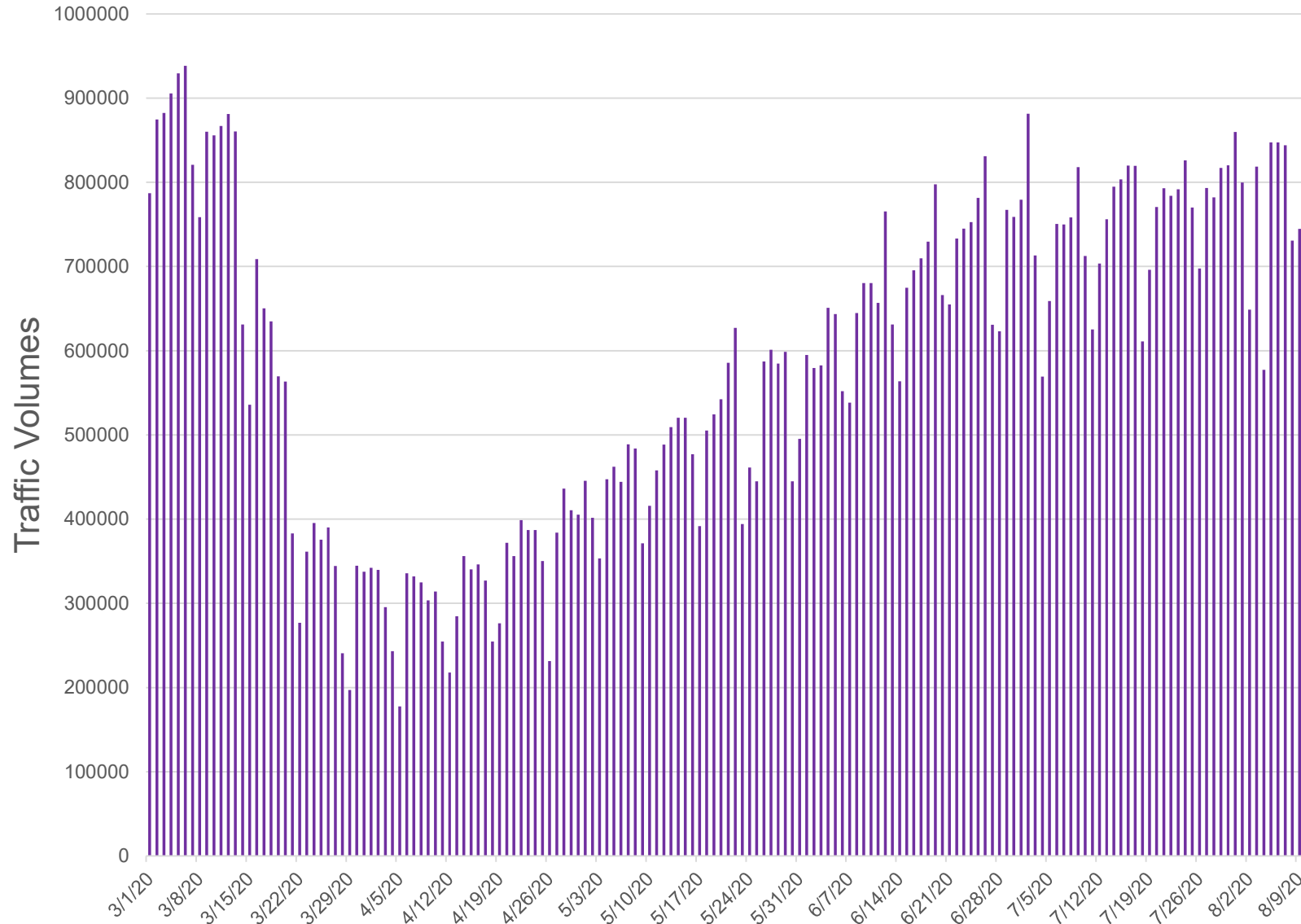
### NYC Ferry Weekly Ridership Weekday vs. Weekend Averages



# Traffic

# MTA Bridge and Tunnel Traffic Volumes

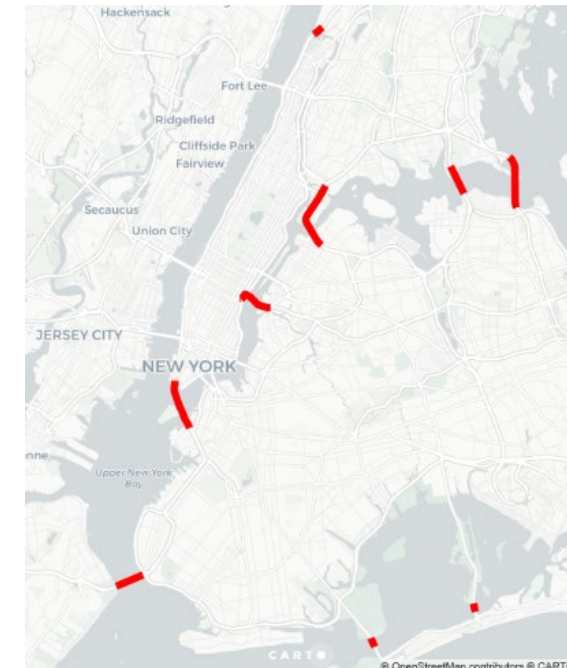
Estimated \* MTA Bridge and Tunnel Traffic Counts (March 1- August 9, 2020)



- Total weekday traffic counts during the week of August 3 was down 3 percent compared to the previous week. Weekend traffic counts were up 2 percent.

MTA crossings include:

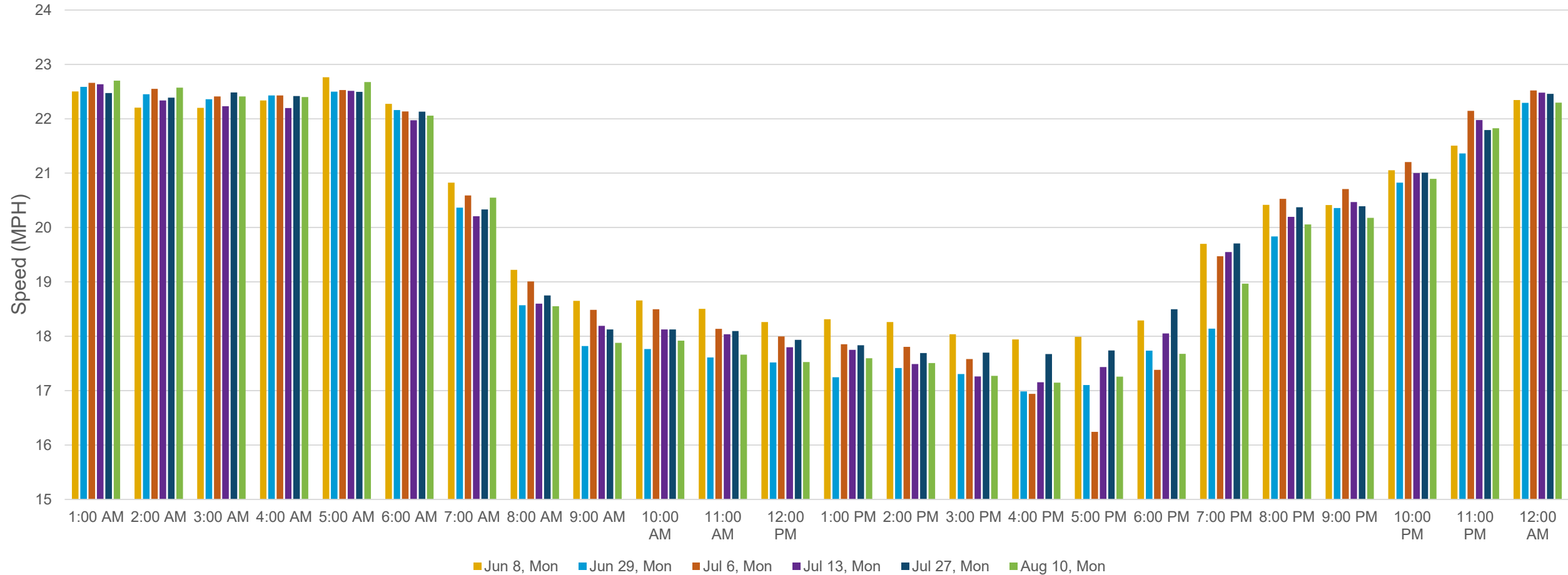
- Bridges: Robert F. Kennedy, Throgs Neck, Verrazzano Narrows, Bronx-Whitestone, Henry Hudson, Marine Parkway-Gil Hodges Memorial, and Cross Bay Veterans Memorial bridges.
- Tunnels: the Hugh L. Carey Tunnel and the Queens Midtown Tunnel.



# NYC Traffic Speeds



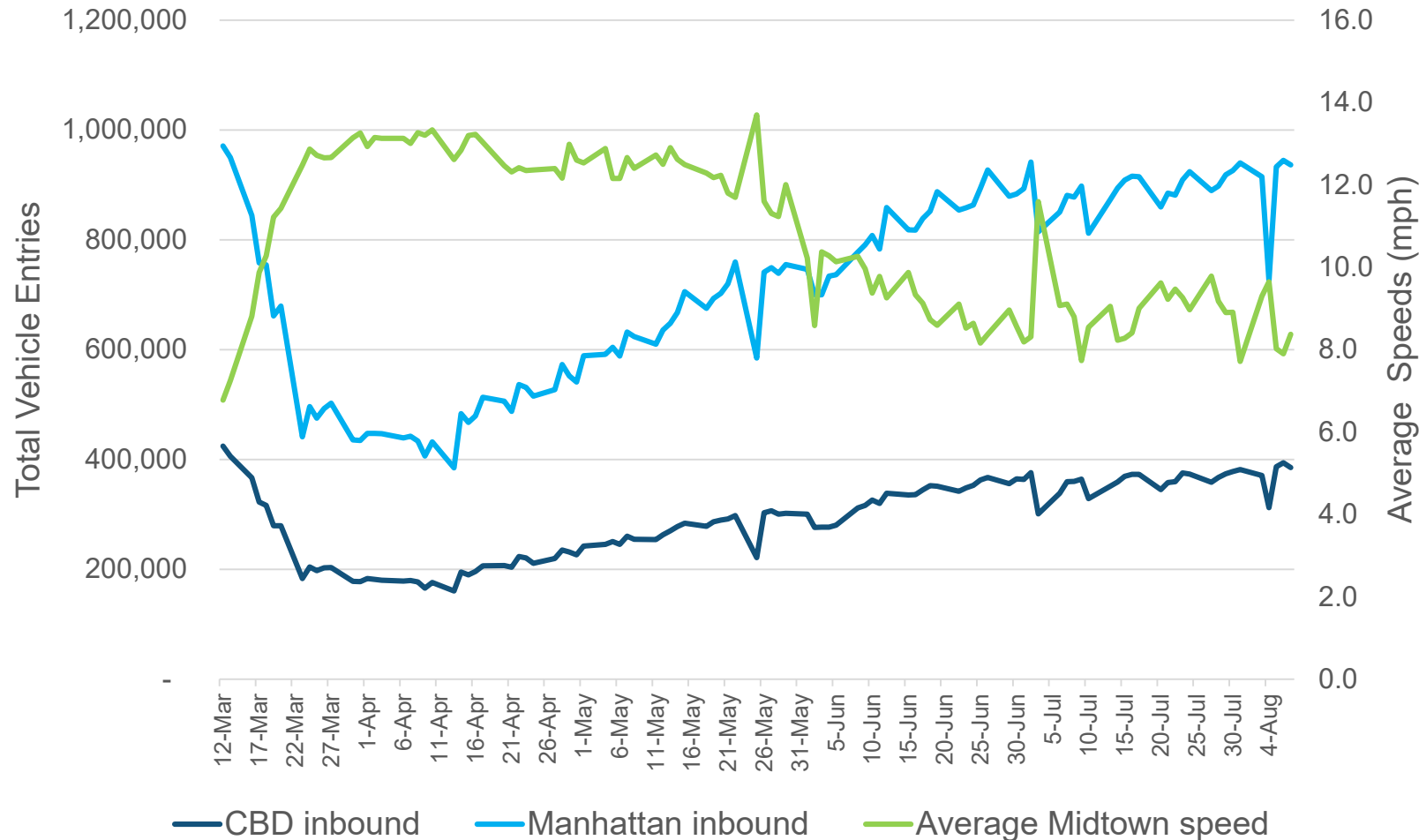
Real-time Traffic Flow Speed by Hour in NYC (Jun 8, Jun 29, Jul 6, Jul 13, Jul 27, Aug 10 2020)



- Compared to earlier weeks, average hourly traffic flow speeds on Monday, Aug 10 were generally consistent with July, with increases in travel speed occurring during the afternoon hours in recent weeks.

# Manhattan Inbound Traffic

Vehicles entering Manhattan CBD and Manhattan (borough) via river crossings & average weekday daytime travel speeds in Midtown



- On Thursday, August 6, the total number of vehicles entering Manhattan was 97 percent of total entries on Thursday, March 12.
- The total number of vehicles entering the Manhattan CBD on Thursday, August 6 was 93 percent of total entries on Thursday, March 12.
- Week-over-week increases to the total number of entries into the Manhattan CBD and the entirety of Manhattan have slowed since the end of June, with entries into the CBD growing at a slower rate than total Manhattan entries. On Thursday, July 23, vehicle entries into Manhattan and the CBD were 94 and 88 percent of their totals on March 12.
- After peaking in early April at about 13 mph, Midtown Manhattan speeds have averaged about 8.5 mph since the end of June.

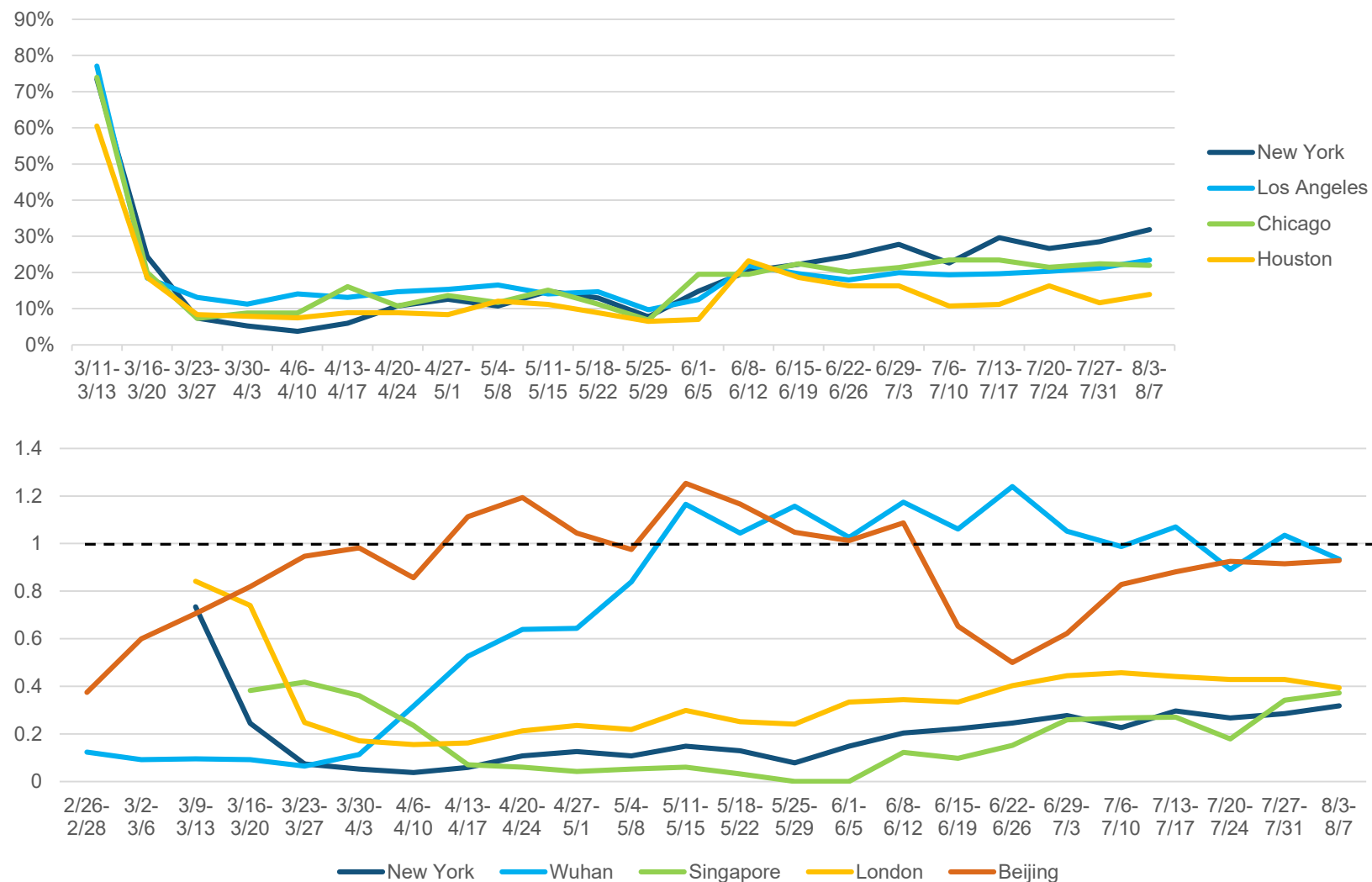
Source: NYCDOT, providing data from NYCTLIC, Port Authority, Triborough Bridge and Tunnel Authority



# Traffic Congestion

- Congestion is a measure of the average amount of additional travel time needed to get to a destination anywhere in a city compared to free flow conditions. Zero percent represents free flow speeds; 100 percent represents 2019 yearly average congestion for each city.
- After a significant initial decline in congestion in March, congestion in NYC has been slowly increasing since June, while levels in some other major US cities remain relatively stable (noting dramatic increases in Covid-19 cases in LA, Chicago and Houston in recent weeks).

Pandemic Average Weekly Traffic Congestion vs. 2019 Yearly Average\*



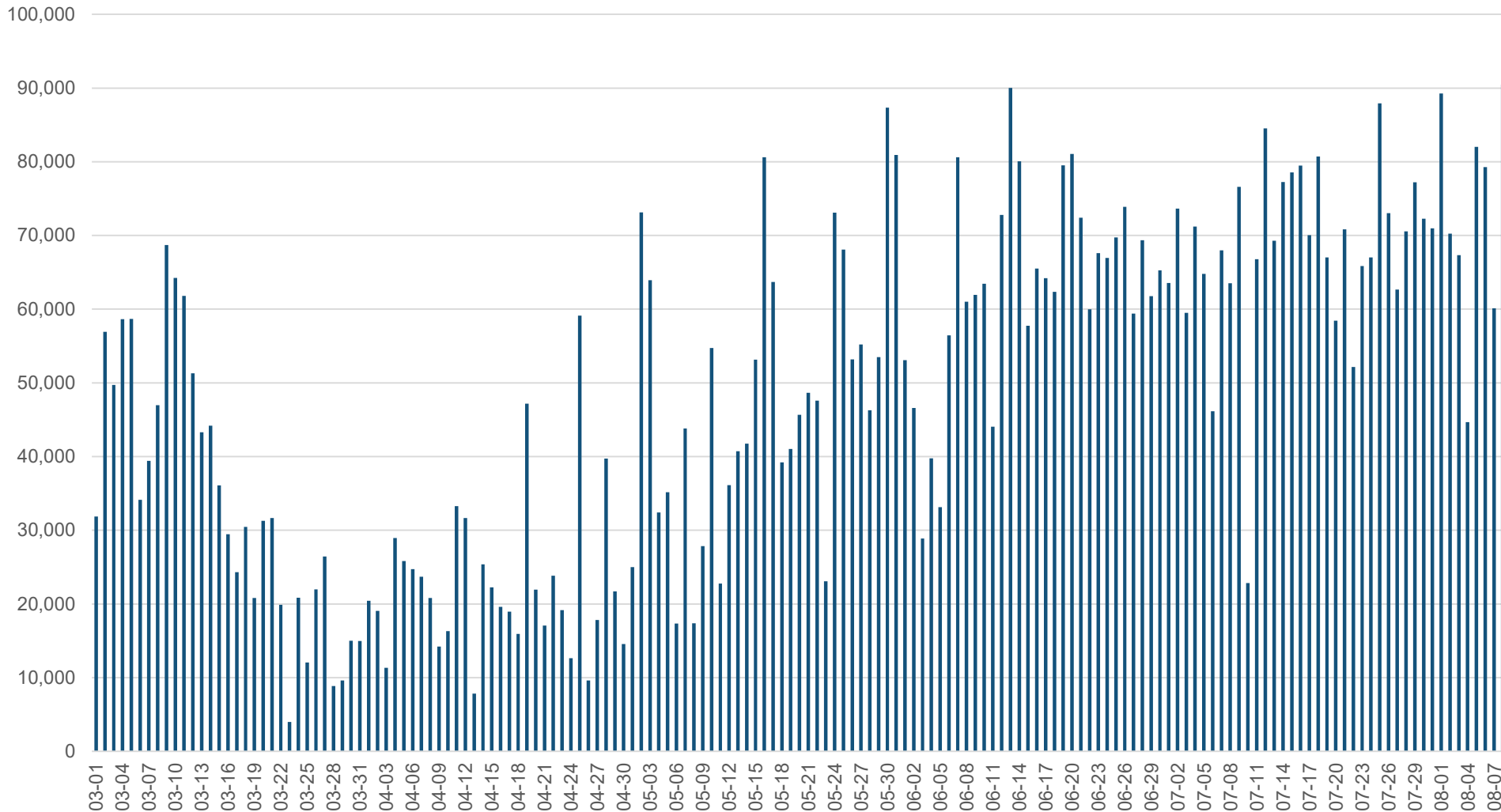
\*Some weeks contain less than five days due to holidays and gaps in the data.

Data source: TomTom Traffic Index ([https://www.tomtom.com/en\\_gb/traffic-index/](https://www.tomtom.com/en_gb/traffic-index/))

# Citi Bike

# Citi Bike Ridership Changes

## Citi Bike Ridership (March 1- August 9, 2020)

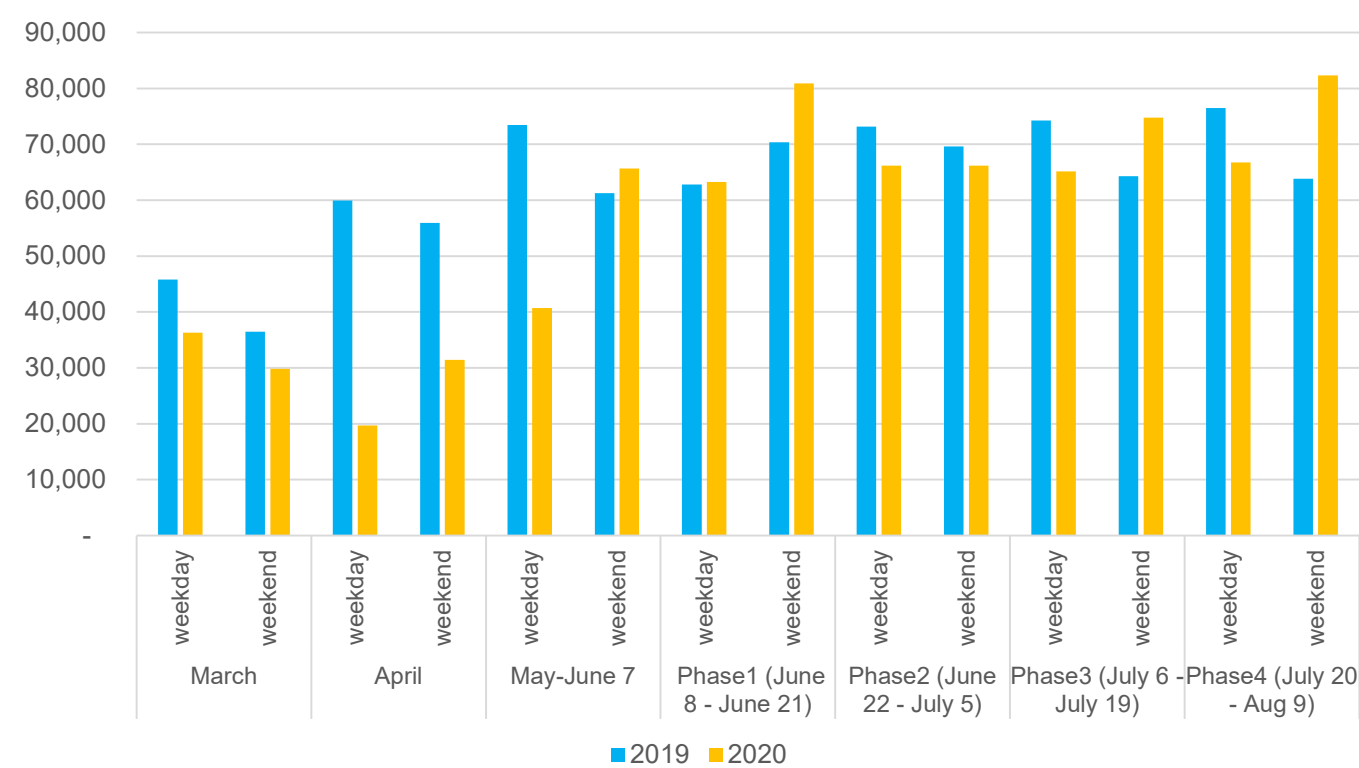


- Citi Bike ridership has been trending up since early March 2019, and ridership is highly correlated with weather.
- More than 90,000 trips were taken on Saturday, August 8 – the highest number recorded during the pandemic.

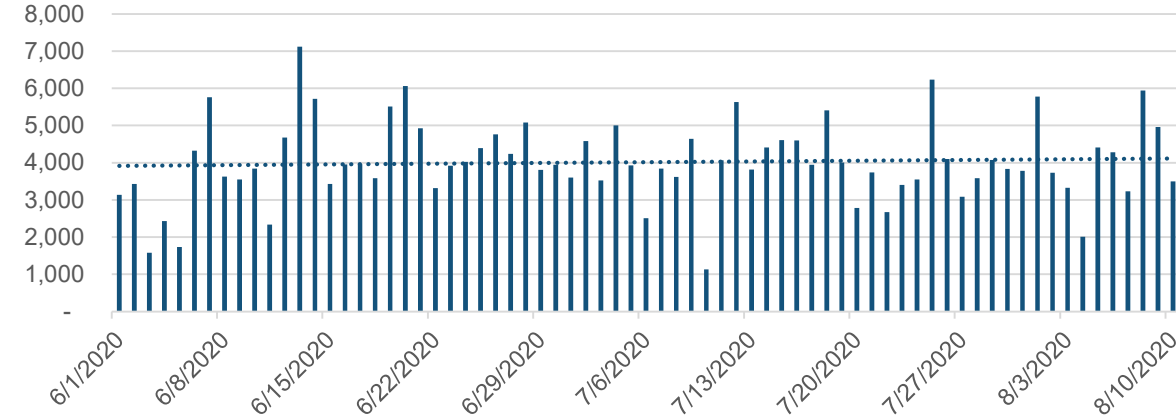
# Citi Bike Ridership

- From June through early August 2020, Citi Bike ridership has been fairly consistent with ridership patterns during the same months in 2019.
- Citi Bike ridership on East River bridge crossings has been relatively steady at about 5.5% of all trips since early June 2020, with peak travel occurring on weekends.
- The percentage of trips taken by Critical Workers has been declining, but nearly 18,000 members are part of the Critical Worker program.

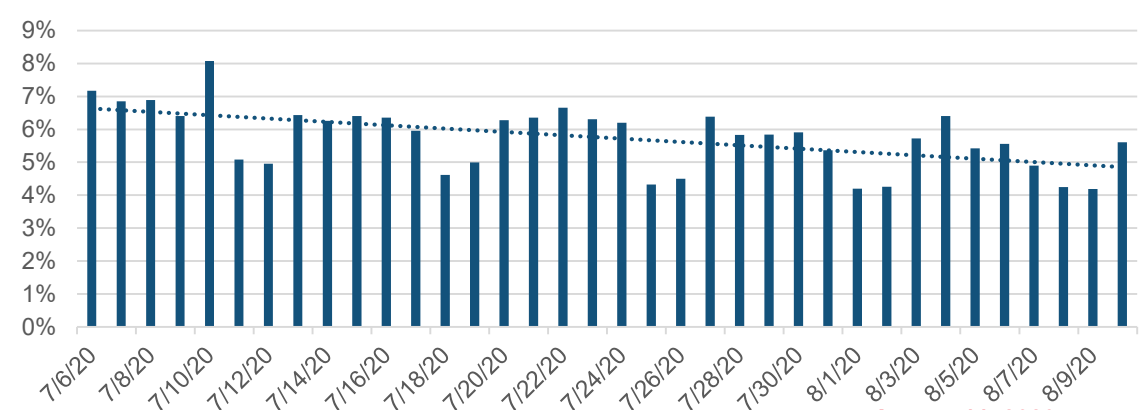
Citi Bike Average Daily Trips 2019 vs 2020 (March-July)



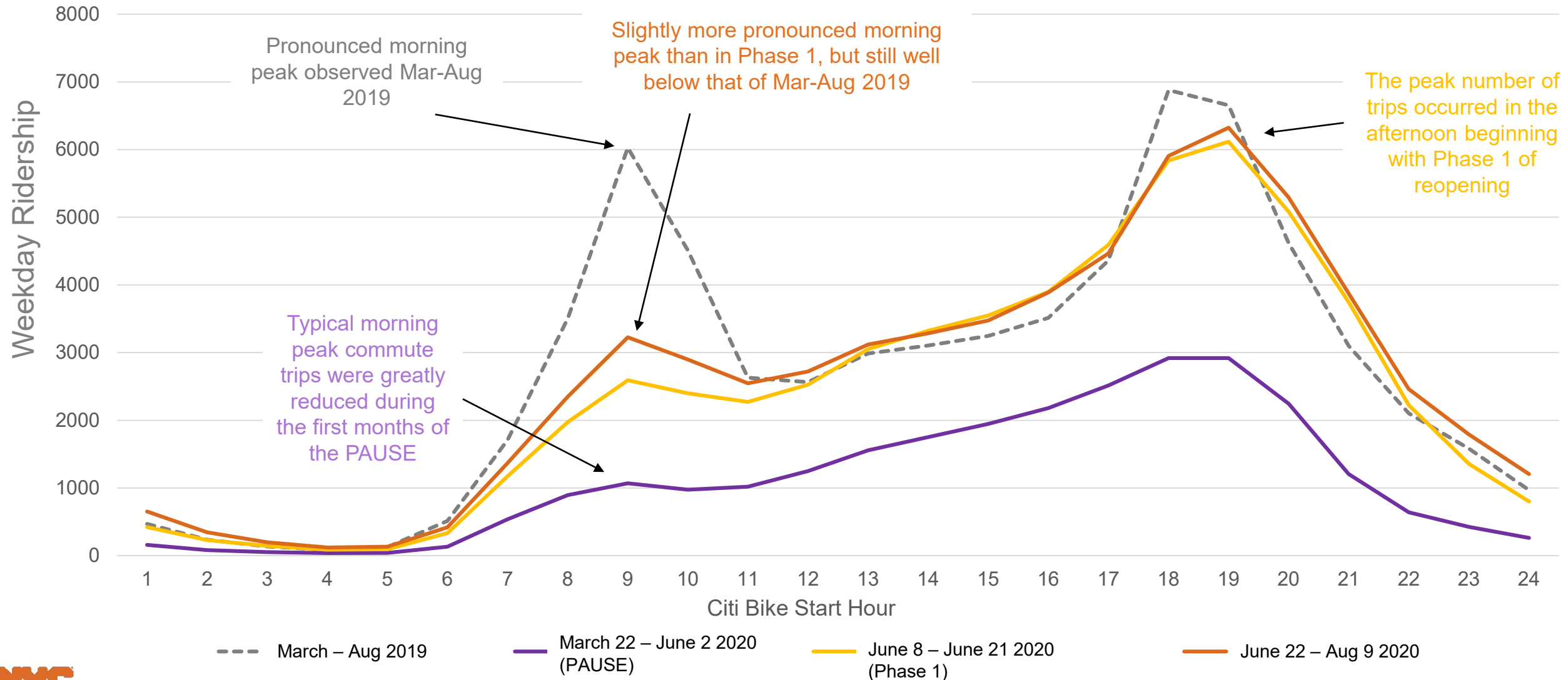
Daily East River Bridge Crossings



Percent of all trips taken by Critical Workers



# Citi Bike Weekday Daily Ridership by Time of Day



# Timeline



# New York COVID19 Pandemic Timeline: First Case to End of PAUSE

- March 1<sup>st</sup>, 2020: **First confirmed case** in New York <https://www.wsj.com/articles/first-case-of-coronavirus-confirmed-in-new-york-state-11583111692>
- March 7<sup>th</sup>, 2020: Governor Cuomo **declares state of emergency** <https://www.nytimes.com/2020/03/07/nyregion/coronavirus-new-york-queens.html>
- March 12<sup>th</sup>, 2020: Governor Cuomo announces **restrictions on mass gatherings**, directing events with more than 500 people to be cancelled or postponed and any gathering with less than 500 people in attendance to cut capacity by 50 percent. <https://www.governor.ny.gov/news/during-novel-coronavirus-briefing-governor-cuomo-announces-new-mass-gatherings-regulations>
- March 15<sup>th</sup>, 2020: **NYC school closures announced**. <https://www.nytimes.com/2020/03/15/nyregion/nyc-schools-closed.html> DeBlasio announces the **closure of schools, bars, and restaurants** (except takeout/delivery) effective the morning of the 17<sup>th</sup> <https://www.nytimes.com/2020/03/15/nyregion/new-york-coronavirus.html>
- March 18<sup>th</sup>: Governor Cuomo announces that **50% of non-essential employees** must work from home
- March 20<sup>th</sup>: Governor Cuomo announces **statewide stay at home rules**, effective the evening of the 22<sup>nd</sup>. **100% of non-essential workers** must stay home. <https://www.npr.org/sections/coronavirus-live-updates/2020/03/20/818952589/coronavirus-n-y-gov-cuomo-says-100-of-workforce-must-stay-home>, travel on transit only when necessary
- March 25<sup>th</sup>: MTA announces service reduction to **Essential Service** plan <https://abc7ny.com/6047040/>
- March 27<sup>th</sup>: The Governor halts **non-essential construction** <https://thecity.nyc/2020/03/cuomo-calls-off-non-essential-construction-statewide.html>
- May 1<sup>st</sup>: Mayor de Blasio announces first seven miles of streets in **Open Streets NYC** program. <https://gothamist.com/news/de-blasio-reveals-first-batch-open-streets-primarily-centered-parks>
- May 6<sup>th</sup>: Governor Cuomo enacts nightly 1am-5am subway shutdowns: <https://www.nytimes.com/2020/04/30/nyregion/subway-close-cuomo-coronavirus.html>
- May 22<sup>nd</sup>: Mayor de Blasio announces 45 miles of **open streets**, the most in the nation, with the City to eventually reach 100 miles. <https://www.6sqft.com/nyc-full-list-of-open-streets-summer-2020/>
- May 26<sup>th</sup>: New York Stock Exchange reopens trading floor after 2 month closure. <https://www.npr.org/sections/coronavirus-live-updates/2020/05/26/862082828/new-york-stock-exchange-reopens-trading-floor-after-2-month-closure>
- May 29<sup>th</sup>: Governor Cuomo announces that New York City is expected to **begin Phase 1 of reopening on Monday, June 8<sup>th</sup>**. <https://www.nytimes.com/2020/05/29/nyregion/coronavirus-new-york-live-updates.html>
- June 1<sup>st</sup>: Governor Cuomo announces overnight curfew in NYC after a weekend of protests due to the death of George Floyd. No-non local vehicles permitted in Manhattan below 96<sup>th</sup> street, and Citi Bike is shut down during curfew hours. <https://deadline.com/2020/06/new-york-city-curfew-andrew-cuomo-george-floyd-protests-1202948548/>
- June 5<sup>th</sup>: The MTA lays out its 13-point **“Action Plan For a Safe Return”** in preparation for New York City’s reopening. <https://new.mta.info/document/17751>
- June 7<sup>th</sup>: Mayor de Blasio announces the end of protest-related curfews ahead of schedule, effective immediately. <https://www.cbsnews.com/news/nyc-mayor-announces-curfew-has-ended-ahead-of-schedule-2020-06-07/>



# New York COVID19 Pandemic Timeline: Phase 1 to Present

- June 8<sup>th</sup>: New York City begins **Phase 1 of re-opening**. Manufacturing, non-essential construction, and non-essential retail via curbside pickup can resume operations <https://www.nytimes.com/2020/06/08/nyregion/coronavirus-nyc-reopen-phase-1.html>
  - The Staten Island Ferry begins moving to a 20-minute rush hour schedule beginning with the 3:30 PM trip from St. George. <https://www1.nyc.gov/html/dot/html/ferrybus/siferryschedule.shtml#SISchedule>
  - Mayor De Blasio announces **five new busways** to be created throughout the city, modeled after the 14<sup>th</sup> Street Busway, which will be made permanent. More bus lanes will be added along major corridors. <https://www.politico.com/states/new-york/albany/story/2020/06/08/as-city-reopens-de-blasio-expands-transit-options-1291796>
- June 18<sup>th</sup>: Mayor de Blasio announces guidance for the City's **Open Restaurants program**, which allows qualifying restaurants and bars to expand outdoor seating on sidewalks, curb lanes, backyards, patios, plazas, and Open Streets. <https://www1.nyc.gov/office-of-the-mayor/news/449-20/open-restaurants-new-york-city-prepares-phase-2-reopening-mayor-de-blasio-announces>
- June 19<sup>th</sup>: Governor Cuomo holds his **final daily coronavirus briefing**, saying “We have done the impossible.” He will continue to monitor the situation and hold press conferences as needed. <https://www.cbsnews.com/news/andrew-cuomo-new-yorkers-united-coronavirus-pandemic-crisis/>
- June 22<sup>nd</sup>: New York City begins **Phase 2** of re-opening, including in-store retail, offices, hair salons and barbershops, house of worship, and car sales. Social distancing and hygiene guidelines remain in place. <https://www.ny1.com/nyc/all-boroughs/news/2020/06/21/what-exactly-does-phase-two-reopening-mean-for-new-york-city->
  - Governor Cuomo says he is actively talking to Governor Murphy of NJ and Governor Lamont of Connecticut, and that the three governors are “seriously considering” implementing a **14-day isolation protocol for visitors** from Florida, which could be extended to travelers from Arizona, Texas, and several other states who are experiencing a rapid rise in Covid cases. <https://nypost.com/2020/06/22/gov-cuomo-talks-to-nj-connecticut-about-florida-quarantine-rules/>
  - According to a survey conducted by the Partnership for New York City, while Phase 2 allows office workers to return to their offices, respondents from 60 companies predicted that only **10% of their employees would return to the office by August 15<sup>th</sup>**. Rudin Management Company said that, across its 14 offices in New York that reopened on Monday, it reached a collective **5.2 percent occupancy rate**. <https://www.nytimes.com/2020/06/22/nyregion/nyc-phase-2-reopening-coronavirus.html>
- June 24<sup>th</sup>: The state governments of New York, New Jersey, and Connecticut issue self-quarantine restrictions on **travelers returning from a list of 9 states** with high infection rates, with the ability to add more as the situation changes. [https://coronavirus.health.ny.gov/system/files/documents/2020/06/interimguidance\\_traveladvisory.pdf](https://coronavirus.health.ny.gov/system/files/documents/2020/06/interimguidance_traveladvisory.pdf)
- June 29<sup>th</sup>: Mayor de Blasio announces that, while outdoor dining is “working” in New York City and that the city is moving on track for Phase 3 of reopening on July 6<sup>th</sup>, **the reopening of indoor dining may be delayed** due to ongoing coronavirus concerns. Governor Cuomo echoed these concerns. <https://abc7ny.com/indoor-dining-in-nyc-new-york-city-reopen-coronavirus/6280941/>
- July 6<sup>th</sup>: New York City **begins Phase 3** of re-opening. Originally, this was to include indoor dining at restaurants, but this element has been postponed in light of outbreaks in other states.
  - The Staten Island Ferry resumes regular rush-hour service, with boats running every 15 minutes from 7:00 am – 9:00 am and 5:00 pm – 7:00 pm. <https://mms.tveyes.com/PlaybackPortal.aspx?SavedEditID=ea13aec9-00c3-46cf-998e-a31fa521b891>
- July 20<sup>th</sup>: New York City **enters Phase 4** of re-opening, which includes outdoor activities like zoos and botanical gardens, as well as professional sports without spectators. Indoor dining, originally part of Phase 3, is still prohibited. <https://www.nytimes.com/2020/07/20/nyregion/nyc-phase-4-reopening-coronavirus.html>
- August 7<sup>th</sup>: Governor Cuomo announces that schools in New York State can reopen in the fall, though it will be up to local districts to determine if and how to do so. <https://www.nytimes.com/2020/08/07/nyregion/cuomo-schools-reopening.html>