

### Impact of COVID-19 Pandemic on Citi Bike Trips in New York City

Citi Bike is a privately owned public bicycle sharing system that serves New York City. It is the largest bicycle sharing program in the United States, averaging more than 50,000 trips per day. Citi Bike regularly publishes program statistics on its open data portal.

On March 1, 2020, New York City announced its first case of COVID-19, the severe acute respiratory syndrome spreading around the world. In order to reduce the spread of the disease, New York Governor Andrew Cuomo issued a statewide stay-in-place order that began the night of March 22. Only essential businesses were allowed to remain open and Citi Bike bicycles continued to be available to the public.

This analysis looks at the early impacts of the COVID-19 pandemic on Citi Bike trips within New York City, based the data available as of May 11, 2020.

Source data: Citi Bike System Data: <https://www.citibikenyc.com/system-data> & NYC Health Department: <https://www1.nyc.gov/site/doh/covid/covid-19-..>



1

2

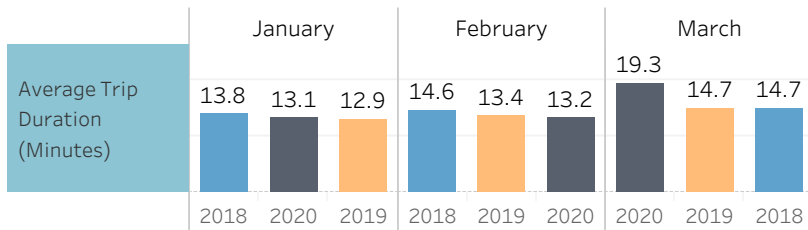
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New York City trip trends shifted as the epidemic evolved. As of March 11, there were 67% more Citi Bike trips in March 2020 than in March 2019. However, daily trips plummeted after the shelter-in-place order began on the night of March 22, 2020.

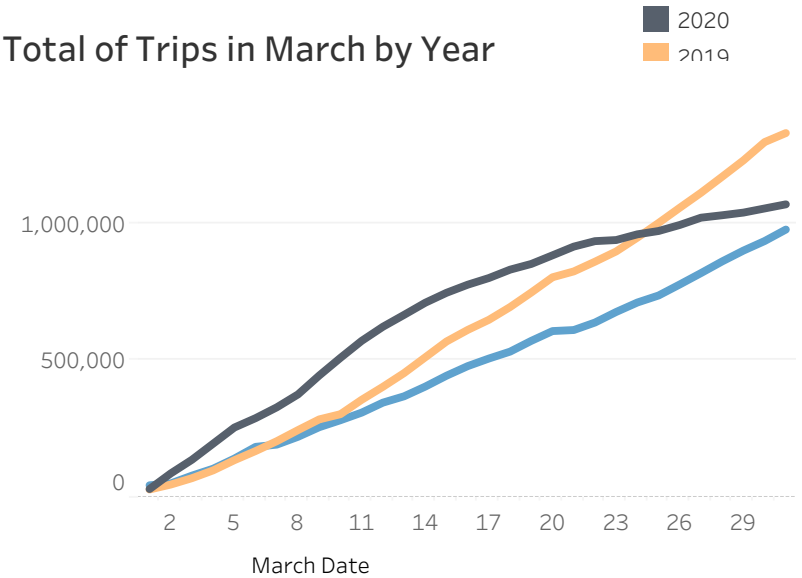
Although there were less trips, Citi Bike users were riding for longer periods of time in March 2020. Compared to prior years, average trip duration increased 31%.

## Average Trip Duration by Month and Year



## Running Total of Trips in March by Year

Number of Trips



1

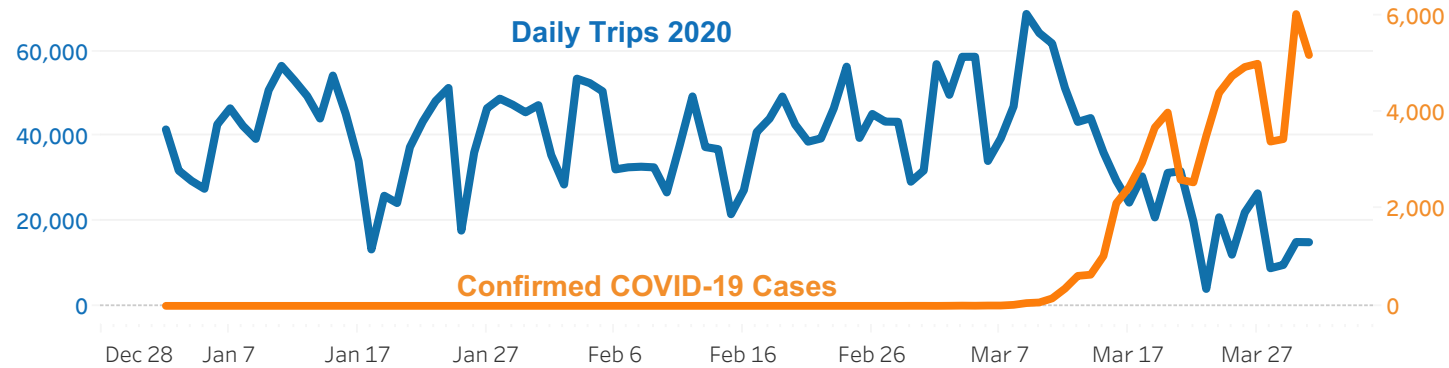
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The steep drop in the number of daily trips began before the March 23 lockdown, coinciding with the dramatic increase in confirmed COVID-19 cases.

## 2020 Daily Trips vs Confirmed COVID-19 Cases



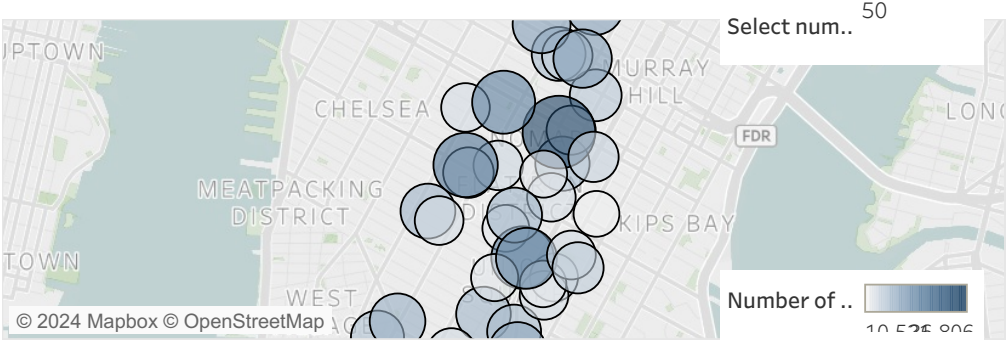
Select  
comparison



The Pershing Square North bike station was the most popular start location in each month of the first quarter of 2020. It was also the station with largest decline in trips in March.

In the map below, select the number of stations and it will display the most frequently used. Click a station on the map to see station details. Press the "Esc" key to show all stations again.

Most Frequently Used Bike Stations 1st Quarter 2020



Station Details

	January	February	March
Pershing Square North	10,734	9,393	
W 21 St & 6 Ave	7,809	7,140	
8 Ave & W 31 St	7,851	6,993	
E 17 St & Broadway	7,447	6,836	
Broadway & E 22 St	7,310	6,284	