

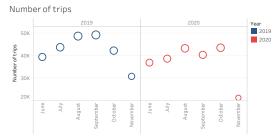
	2019	2020
Total number of trips	254,181	224,062
Fotal distance traveled (mi)	157,667	154,119
Average number of trips per day	1,389	1,224
Average number of trips per bike	441	187
Average trip duration (min)	12.9	28.4
Average distance per trip (mi)	0.62	0.69
Fotal number of casual users	33,247	82,660
Total number of members	220,934	141,402
Total number of stations used for starting the trip	52	52
Total number of stations used for ending the trip		118

Percent Difference on number of trips compared to previous months											
Started At											
2019					2020						
June	July	August	Septem	October	Novem	June	July	August	Septem	October	Novem
	10.95%	11.35%	1.09%	-14.20%	-27.11%	19.89%	4.76%	11.86%	-6.67%	7.81%	-51.13%

outdoor activity.

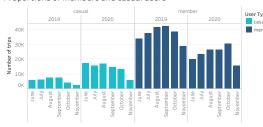
Total number of	of trips, user types and peak hours
Gend	ler and daily distribution
	Age distribution
SI	tations names and use
Bio	cycle use and condition
	Static Maps

Home Next: Gender and daily distribution

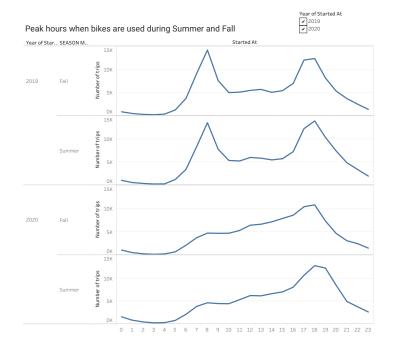


The above chart shows that the number of bike rides significantly decreased in 2020, when the lockdown was determined. In October 2020, Newark imposed city level restrictions requiring

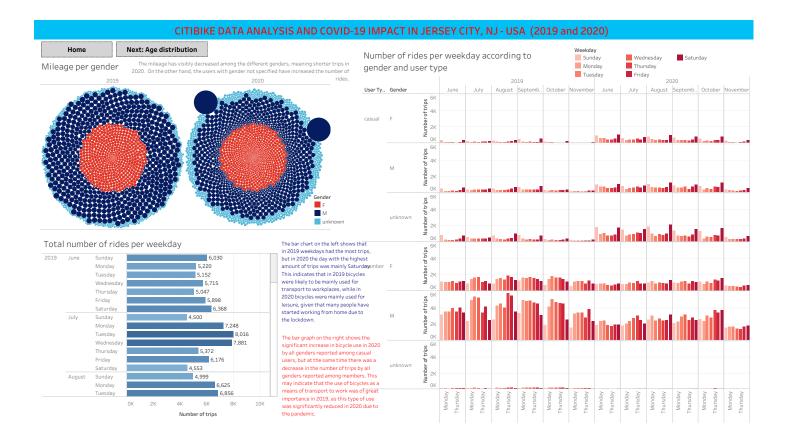
$\label{proportions} \mbox{ Proportions of members and casual users}$



The users changed their behavior regarding committing in annual memberships or not. With the pandemic and the lockdown, when many people stopped going to the office, the number of members significantly decreased, while the number of casual users increased.



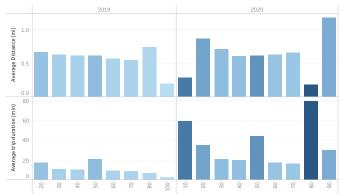
Here it is observed that the morning peak hours (6 to 10 am) of bike use almost disappeared in 2020. This is probably due to the lockdown, as people were not riding the bikes to go to their offices anymore.

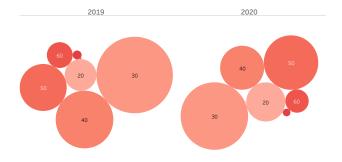


CITIBIKE DATA ANALYSIS AND COVID-19 IMPACT IN JERSEY CITY, NJ - USA (2019 and 2020) Weekday total by age group The image of the image

The charts on this page represent measures by age groups (for example, an age group of 30 contains all ages between 21 and 30 years old). Ages over 100 years old on the dataset were excluded from the charts. The graph above shows that the largest number of customers is in the 21 to 30 age group, followed by the 31 to 40 age group. There was a significant increase in cyclists in the 41.50 age group in 2020, while the 21-40 age group had fewer users this same year. Due to the fact that the older part of the population is at greater risk of complications from COVID-19, this increase may have reflected the substitution of public transport for bicycles in this age group. The bar graph in the lower left corner shows that average distance and average trip duration increased for all ages in 2020. The bubble graph in the lower right corner shows the visual distribution of ages for each year.







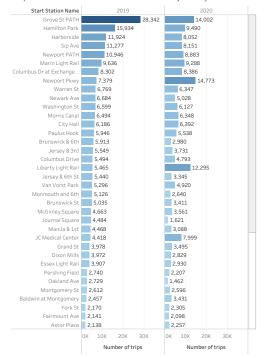
AGE (bin) broken down by YEARS. Color shows details about AGE (bin). Size shows count of Bike Id. The marks are labeled by AGE (bin). The data is filtered on Action (AGE (bin), YEAR(Started AT)) and Action (AGE (bin), YEAR(Started AT), MORTH(Started AT), Data (AGE (bin), YEAR(Started AT), Data (

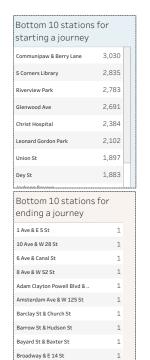
This dashboard shows the list of the top and bottom stations to start and end the journey with the bicycle. The charts show all the stations and the number of trips that took place in each one per year and the tables show the bottom 10 stations for each case considering both years together. None of the bottom stations coincide at the start or end of the trip, which may indicate that they are more spread out through areas distant from each other and are used by specific outsomers.

Home

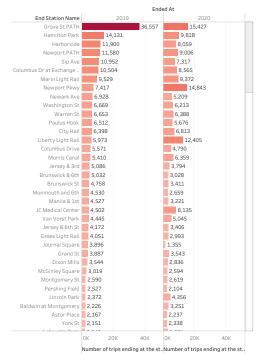
Next: Bicycle use and condition

Top and bottom 10 stations to start the journey





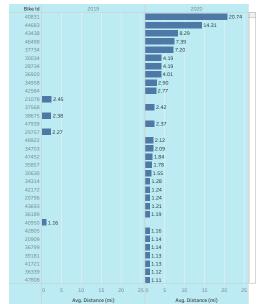
Top and bottom 10 stations to end the journey



Home

Next: Static Maps

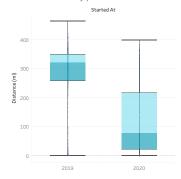
Average distance per trip per bike



Total distance traveled per bike



Distance variability per bike



The first graph on the left shows the average distance traveled per bicycle over the two years. In 2020 there was a considerably higher amount of trips with an average mileage greater than 1.0 mile, while in 2019 only 5 of the averages reached this figure, which may show that in 2020 customers were using bicycles as a means of transport to go places farther to where they would previously have chosen public transport, but COVID-19 restrictions may have changed customers' minds on this.

Due to some trips with greater total distances in 2020, the middle graph shows that the bikes with the highest mileage are ID 44683 and 40831, which makes them immediately worth repairing. The graph on the right shows the variability of distance traveled per bicycle. It is interesting to see that in 2020 the variability is much greater, while in 2019 the distance traveled was much greater overall. This could mean that new customers may have started using the bicycle transport option and old customers may have changed their usual route by more or less miles to adapt to the lockdown restrictions.

These maps show the geographic location of the top 10 stations for starting and ending a trip. 9 out of 10 of these stations are the same and are relatively close to each other, which probably means that they are located in a major city center where bicycle use is more intense due to the large population frequenting this area.

Home

Map static (TOP start stations)



Map static (TOP end stations)



Top 10 stations for starting a journey

Grove St PATH	Hamilton Park	Newport Pkwy	Harborside	Newport PATH	Sip Ave	Marin Light Rail	,	Columbus Dr at Exchange	Warre _
42,344	25,424	22,152	19,976	19,829	19,428	18,924	17,760	16,688	

Top 10 stations for ending a journey

Grove St	Hamilton	Newport	Newport		Columbus Dr	Marin Light	Liberty Light			
PATH	Park	Pkwy	PATH	Harborside	at Exchang	Rail	Rail	Sip Ave	City Hall	
51,984	23,949	22,260	20,586	19,959	19,069	18,901	18,378	18,269	13,211	