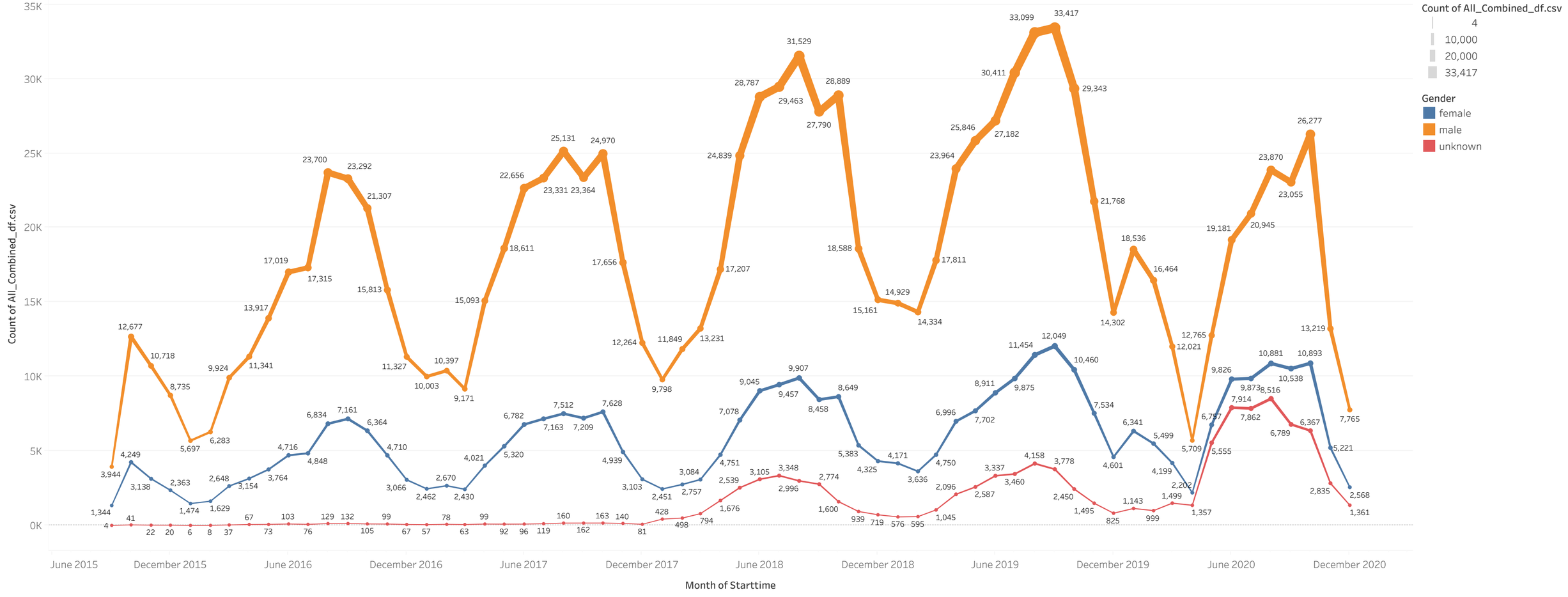
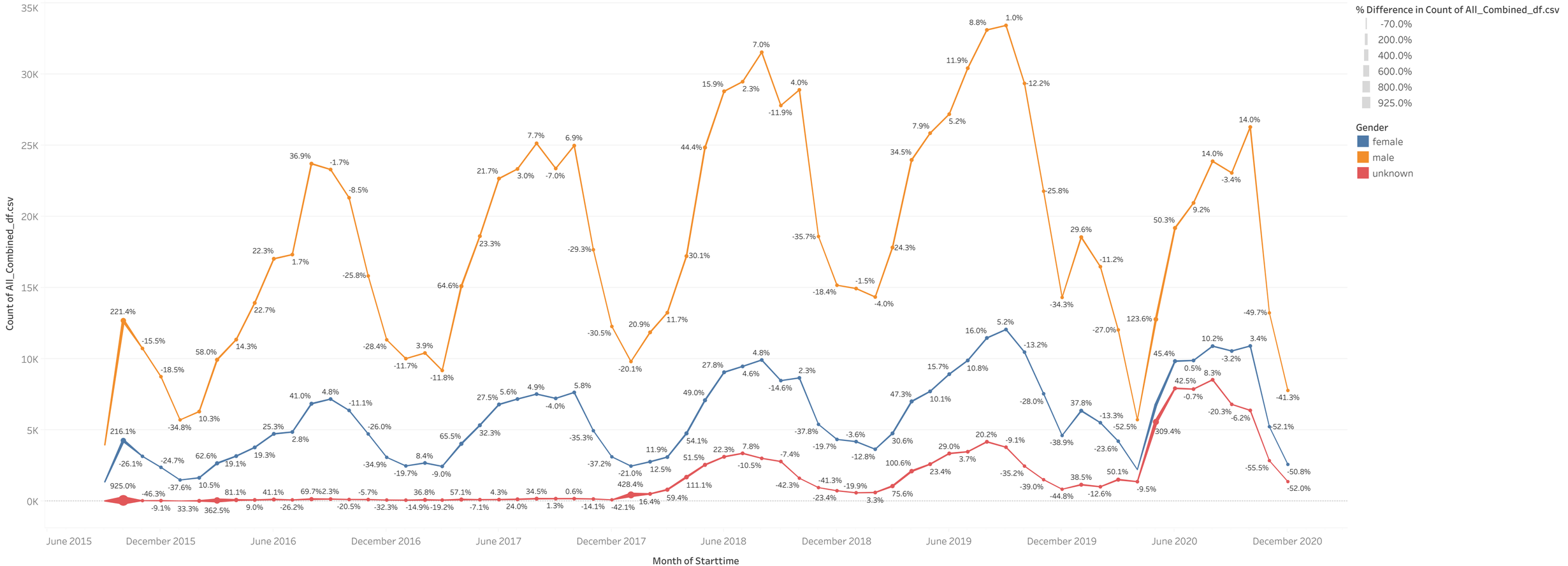
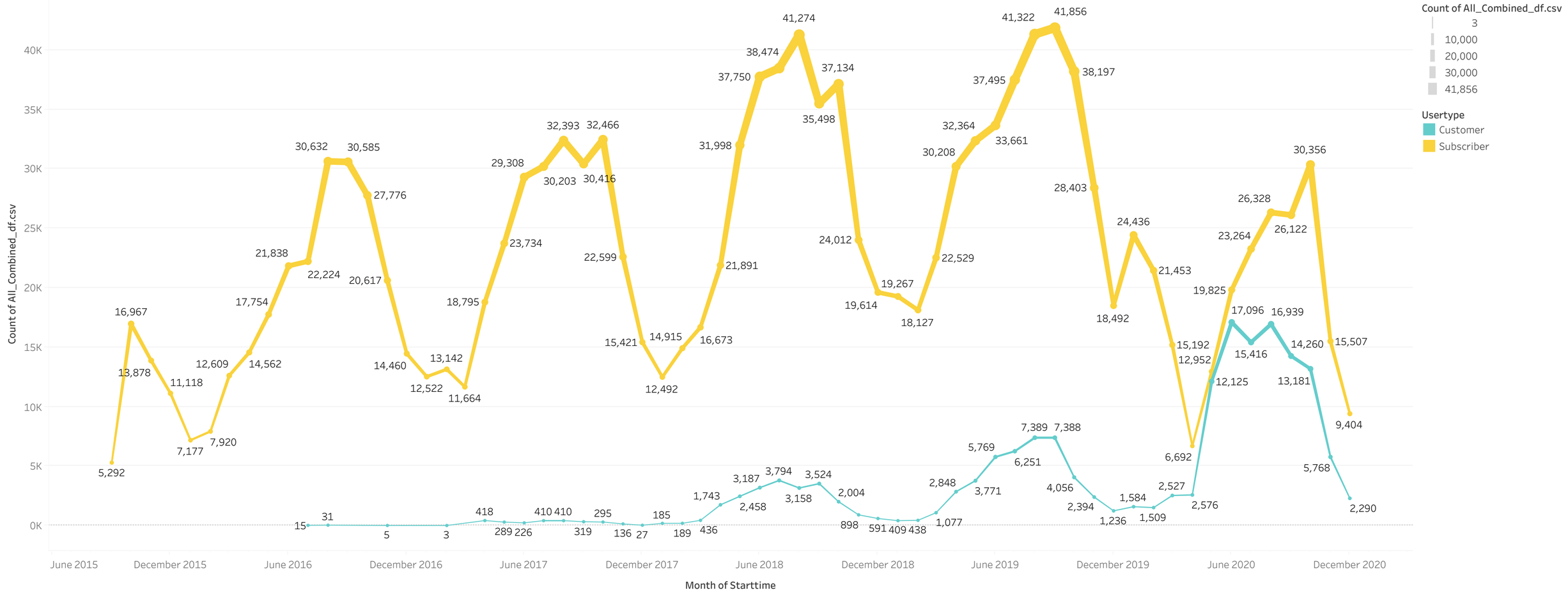
User Growth Count



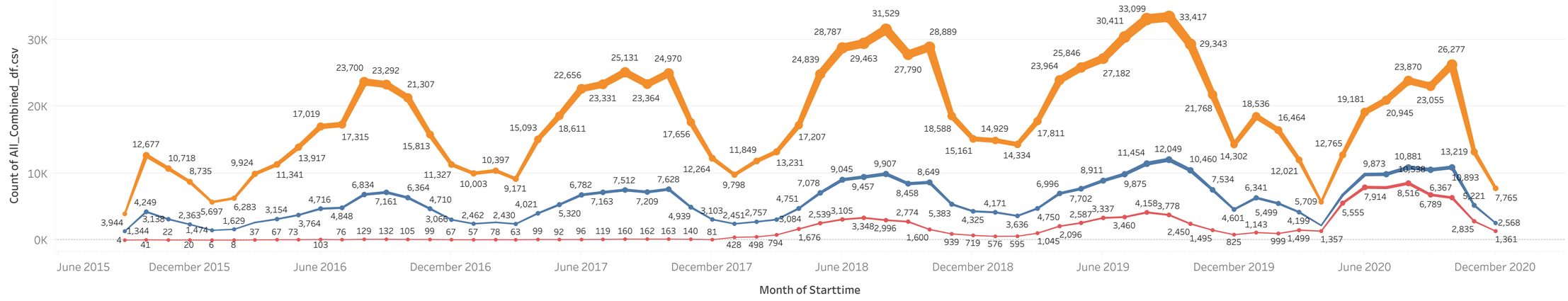
User Growth %


35K
30K
25K
20K
15K
10K
5K
0K
Count of All_Combined_df.csv
June 2015
December 2015
June 2016
December 2016
June 2017
December 2017
June 2018
December 2018
June 2019
December 2019
June 2020
December 2020
Month of Starttime
% Difference in Count of All_Combined_df.csv
-70.0%
200.0%
400.0%
600.0%
800.0%
925.0%
Gender
female
male
unknown

Rider Count


Count of All_Combined_df.csv
3
10,000
20,000
30,000
41,856
Usertype
Customer
Subscriber
Count of All_Combined_df.csv
40K
35K
30K
25K
20K
15K
10K
5K
0K
June 2015
December 2015
June 2016
December 2016
June 2017
December 2017
June 2018
December 2018
June 2019
December 2019
June 2020
December 2020
Month of Starttime
5,292
16,967
13,878
11,118
7,177
12,609
7,920
14,562
17,754
21,838
22,224
30,632
30,585
20,617
27,776
14,460
12,522
13,142
11,664
18,795
23,734
29,308
30,203
32,393
32,466
30,416
22,599
15,421
14,915
12,492
16,673
21,891
31,998
37,750
38,474
41,274
37,134
35,498
24,012
19,614
19,267
18,127
22,529
30,208
32,364
33,661
37,495
41,322
41,856
38,197
28,403
18,492
24,436
21,453
15,192
12,952
6,692
12,125
19,825
23,264
26,328
26,122
30,356
15,507
9,404
15
31
5
3
418
289
226
410
410
319
295
136
27
185
189
436
1,743
2,458
3,187
3,794
3,158
3,524
2,004
898
591
409
438
1,077
2,848
3,771
5,769
6,251
7,389
7,388
4,056
2,394
1,236
1,584
1,509
2,527
2,576
17,096
15,416
16,939
14,260
13,181
5,768
2,290

User Growth Count



Birthyear
1887 to 2004

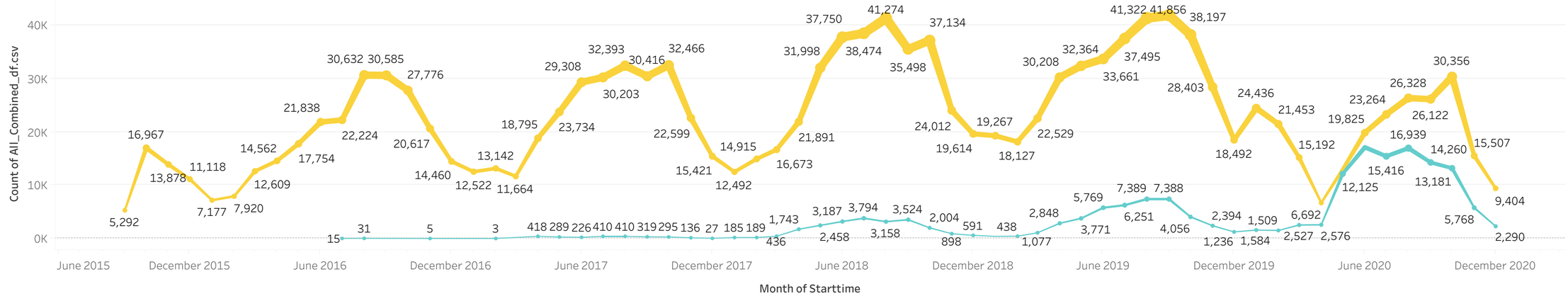
Year
2015 to 2020

Starttime
21/09/2015 14:53:16 to ..

Gender
- ✔ female
- ✔ male
- ✔ unknown

Usertype
- ✔ Customer
- ✔ Subscriber

Rider Count



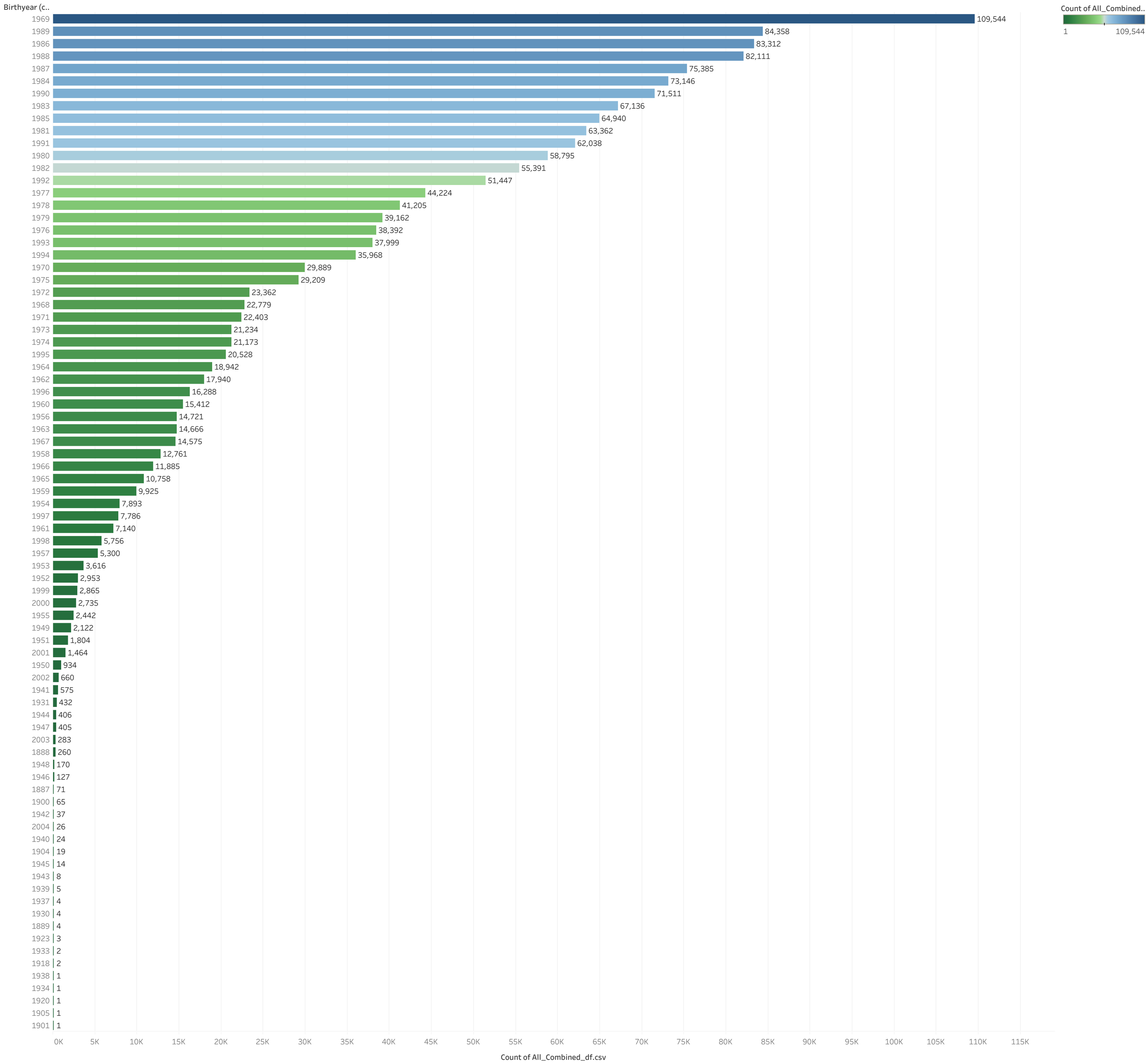
Gender
- female
- male
- unknown

Count of All_Combined_d..
- 4
- 10,000
- 20,000
- 33,417

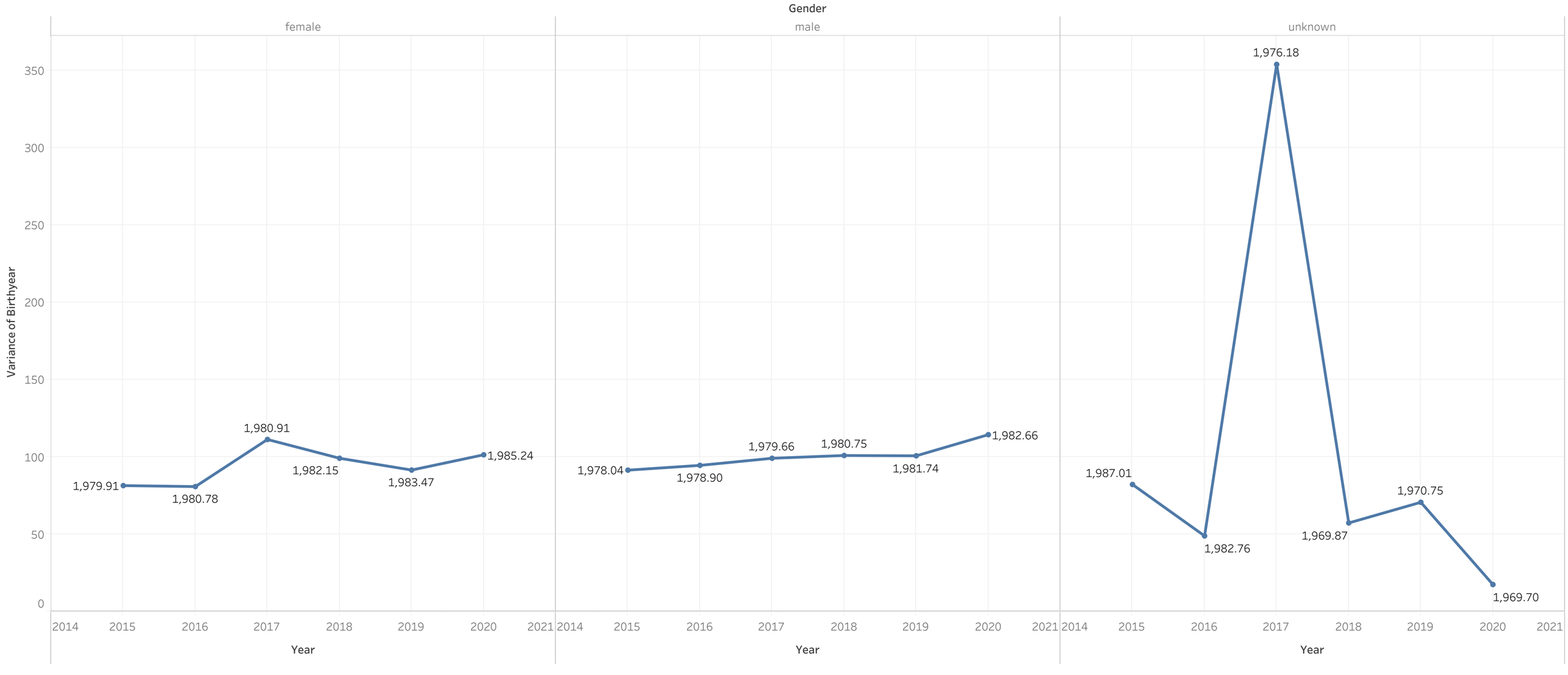
Avg. Tripduration
417.161104479 to 7,399..

Usertype
- Customer
- Subscriber

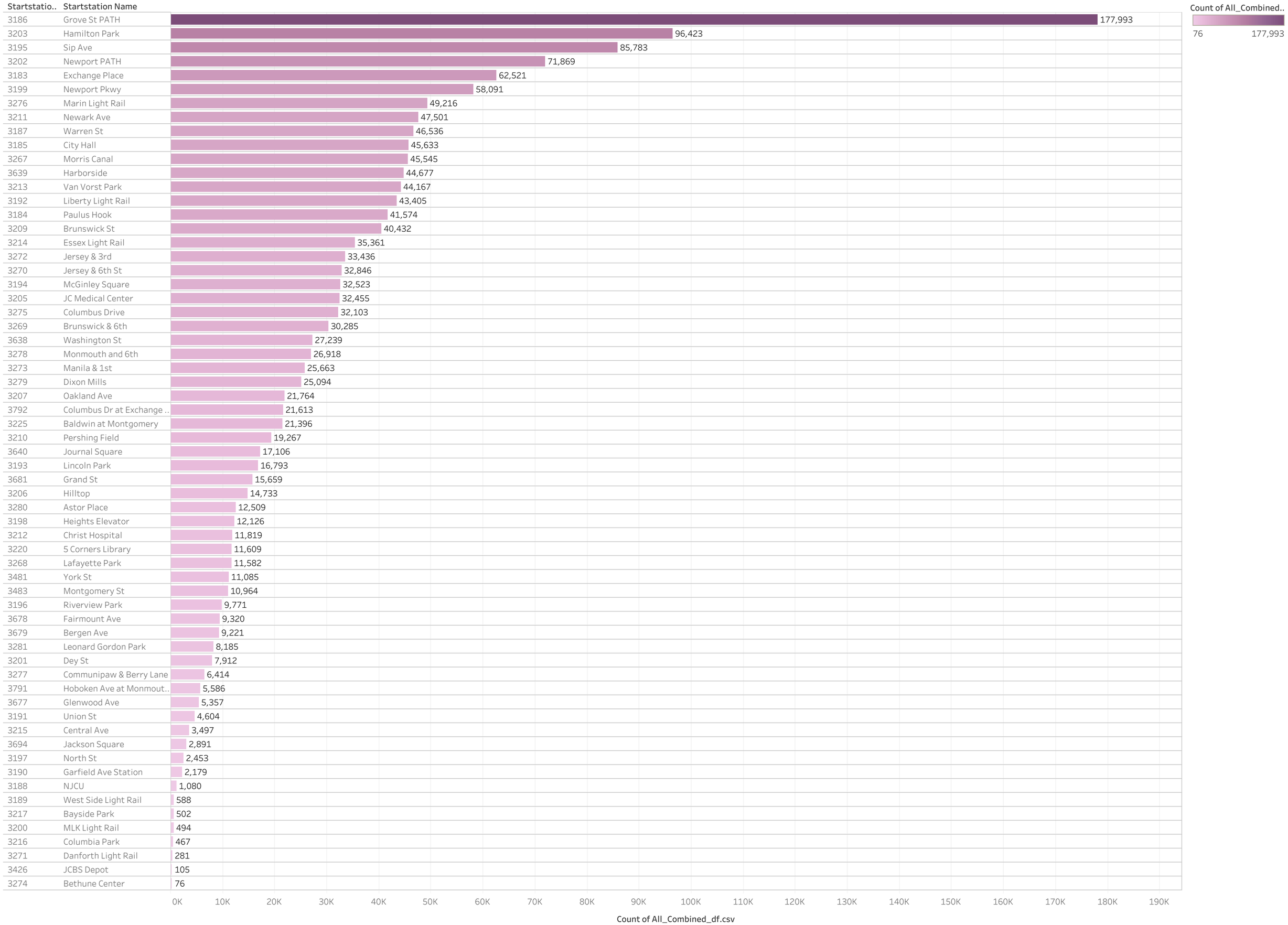
Rider demogrpahics



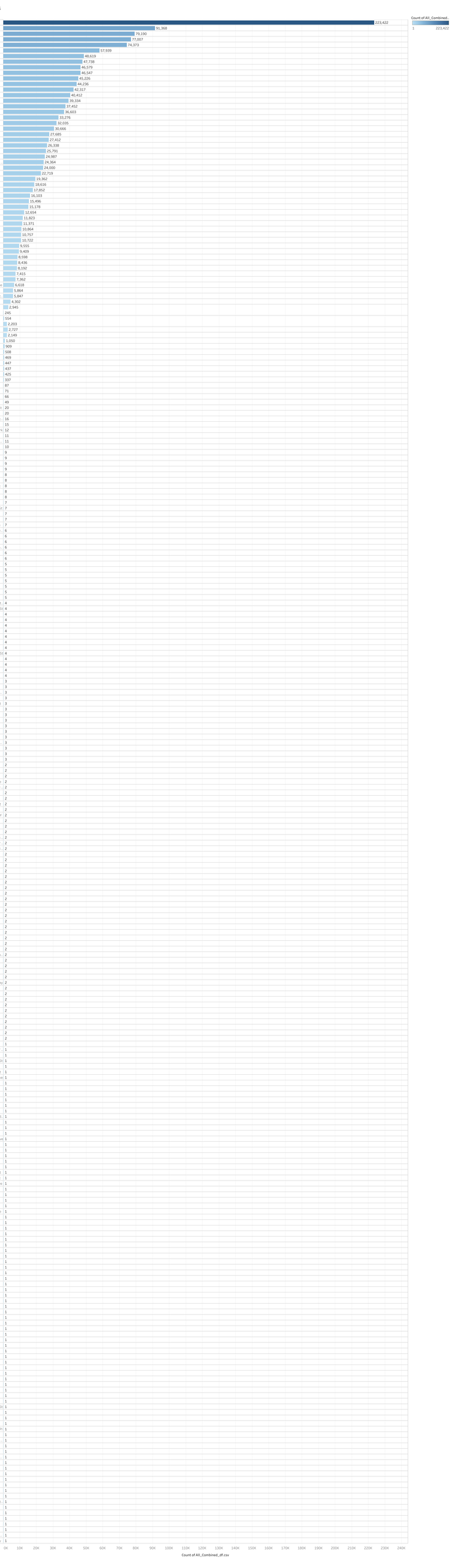
Avg. Rider DOB



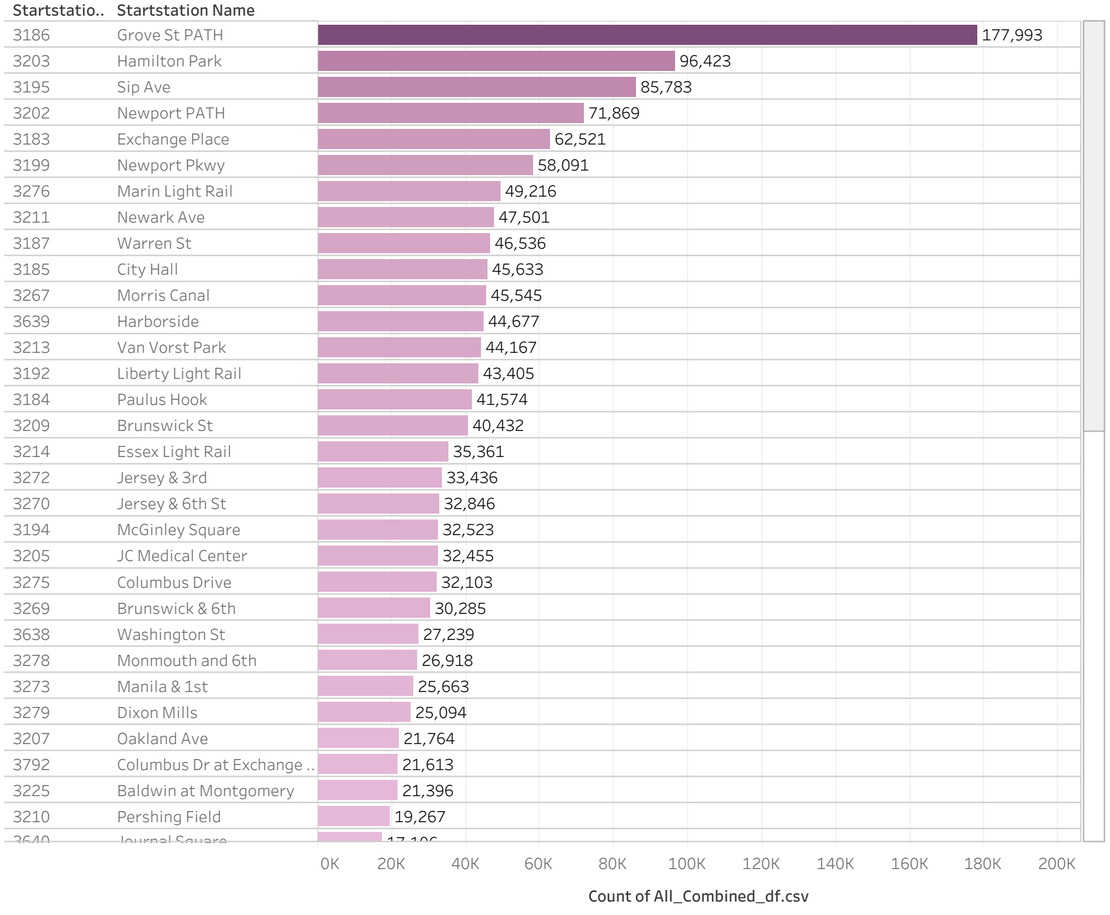
Start Station Usage (to end station)



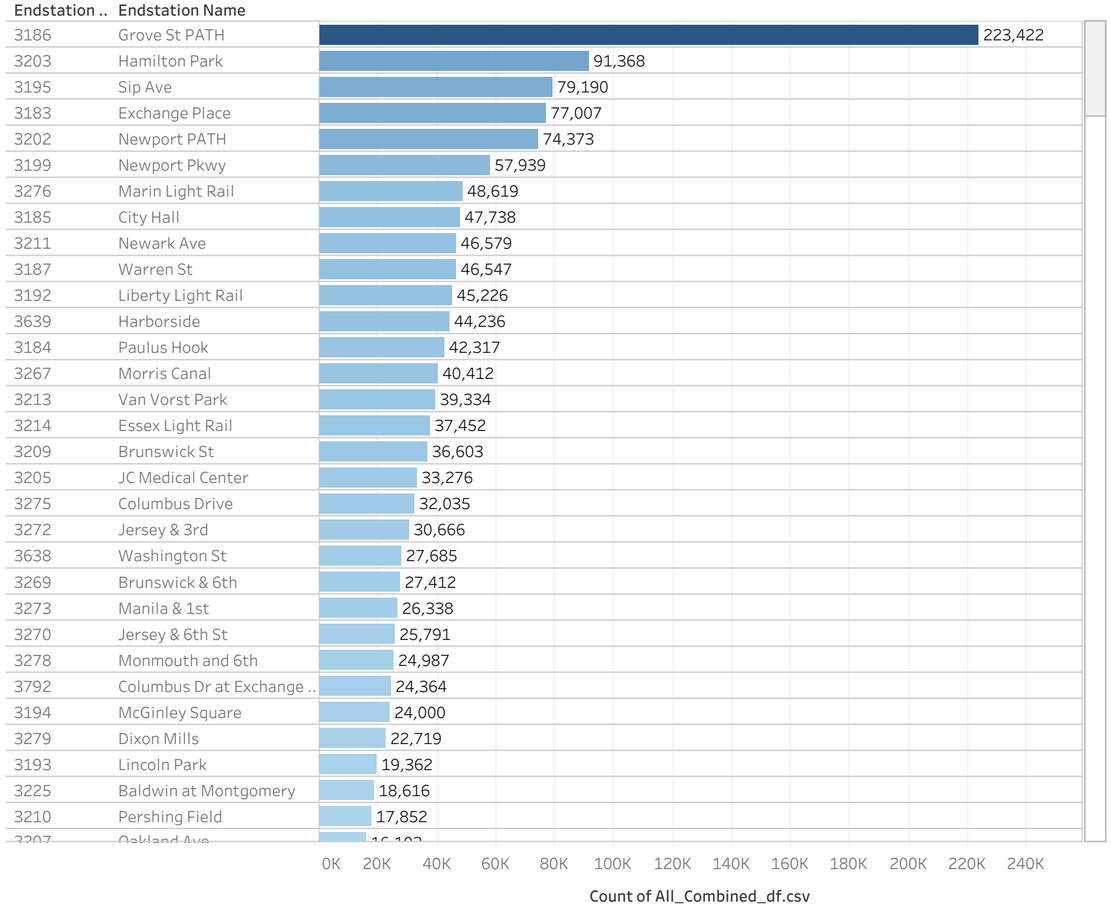
End Station Usage Stats



Start Station Usage (to end station)



End Station Usage Stats



Avg. Tripduration
448.533474137 to 6,413..

Birthyear
1887 to 2004

Count of All_Combined_d..
76 to 177,993

Year
2015 to 2020

Starttime
21/09/2015 14:53:16 to ..

Usertype
- [x] Customer
- [x] Subscriber

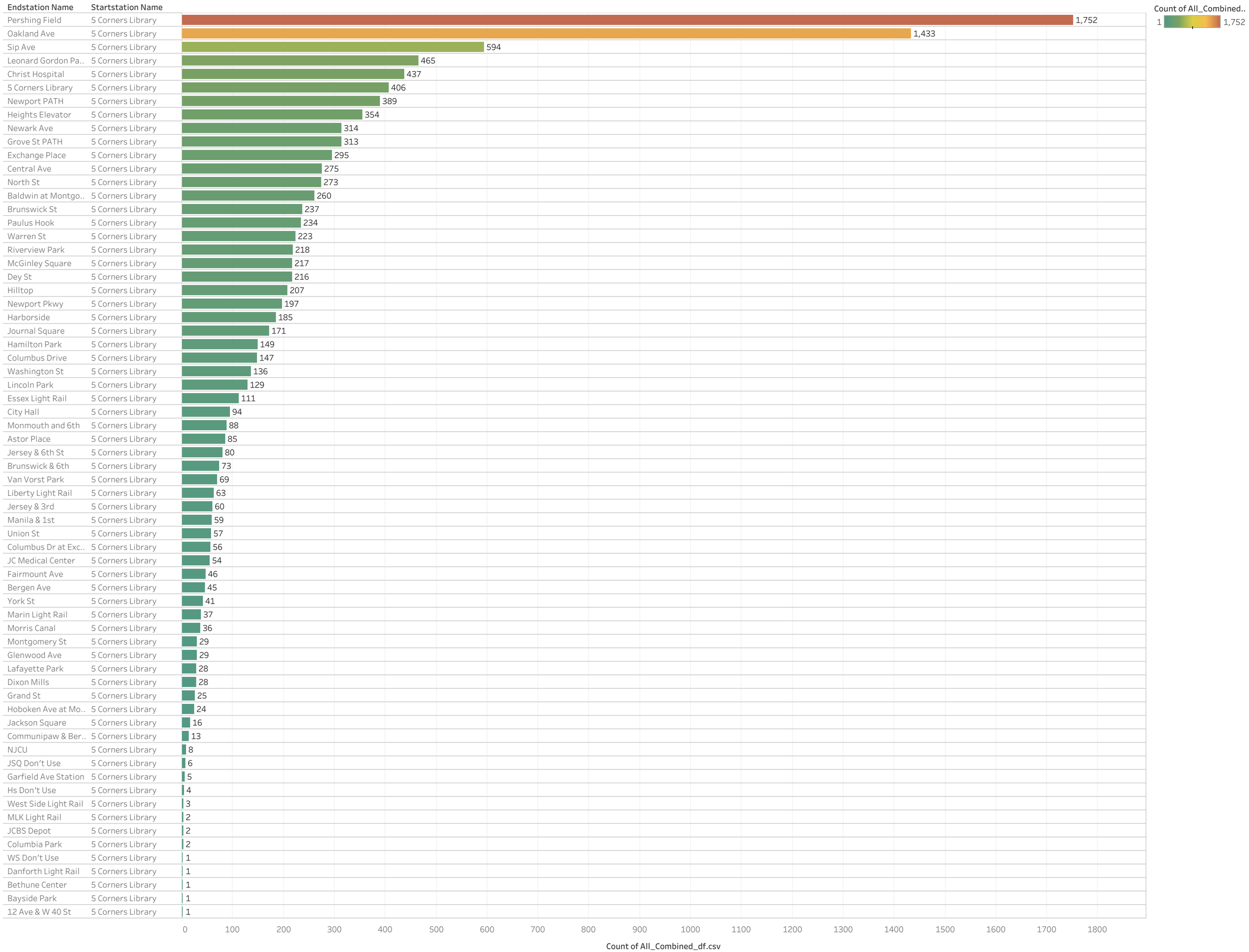
Gender
- [x] female
- [x] male
- [x] unknown

Count of All_Combined_d..
76 177,993

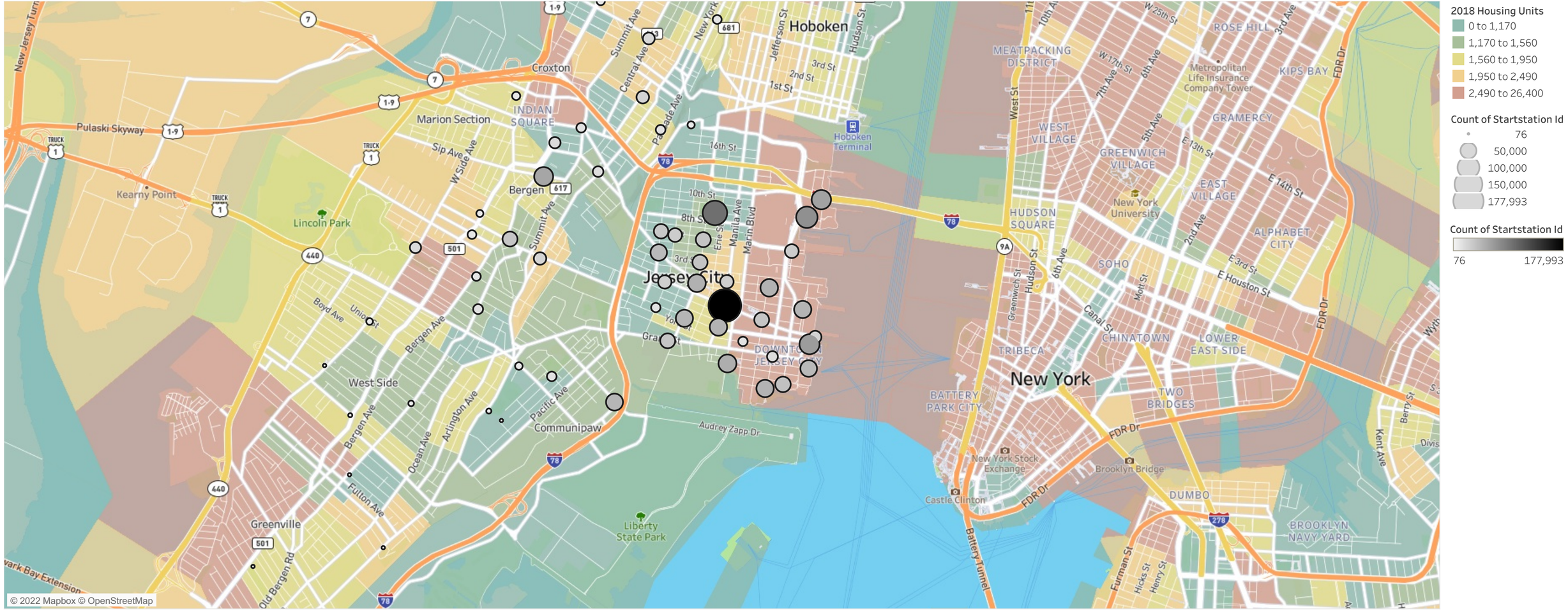
Avg. Tripduration
440.599277978 to 1,077..

Count of All_Combined_d..
1 to 223,422

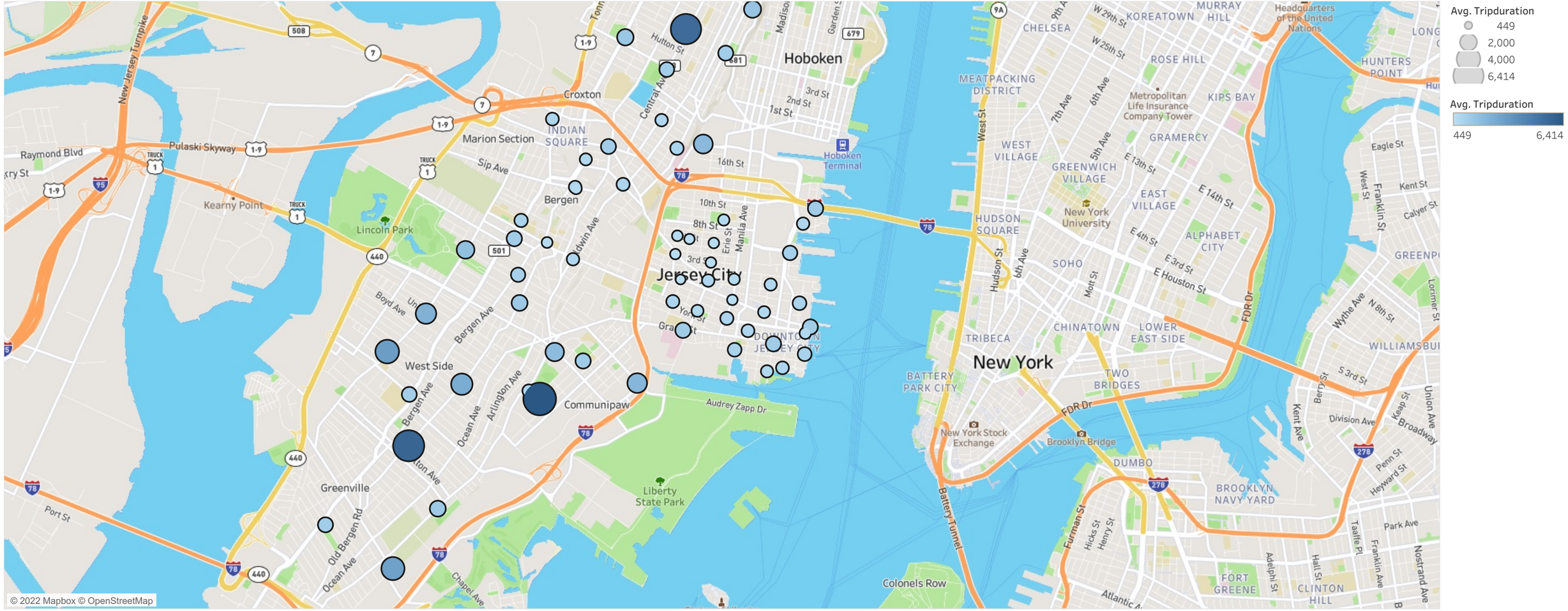
End Station traffic



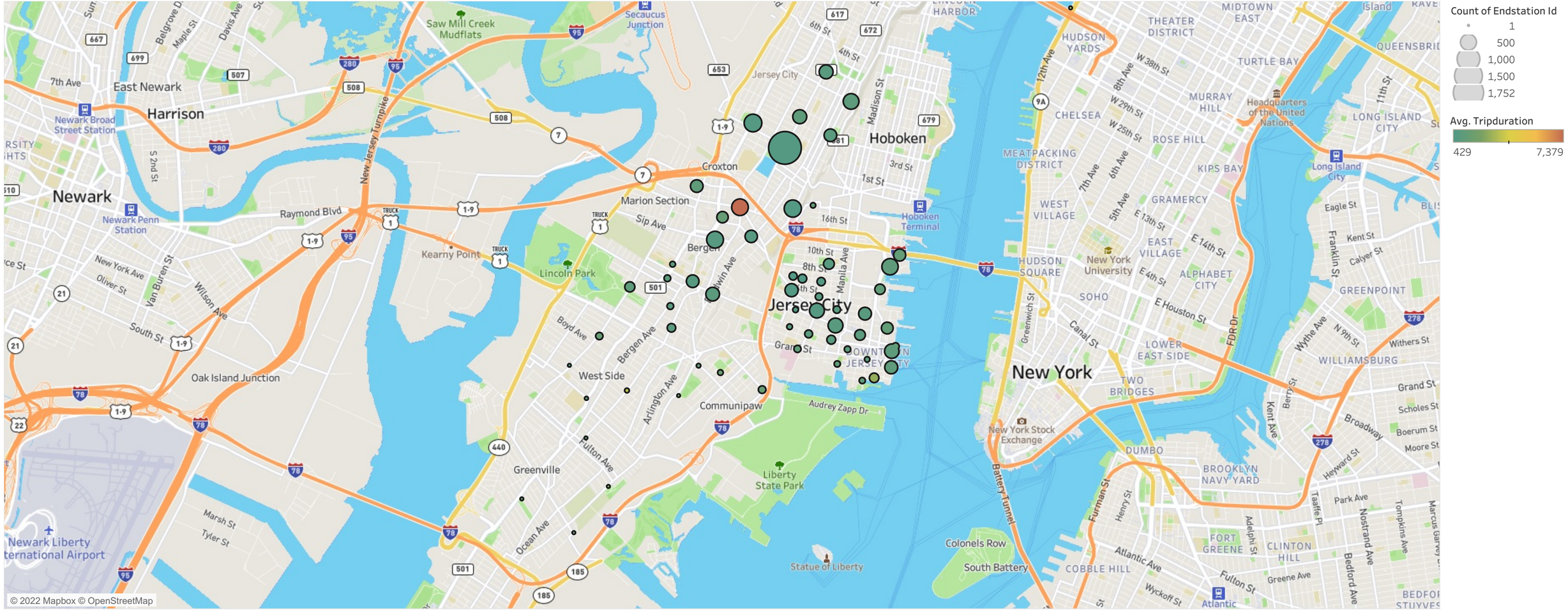
Housing density with Busy Start station



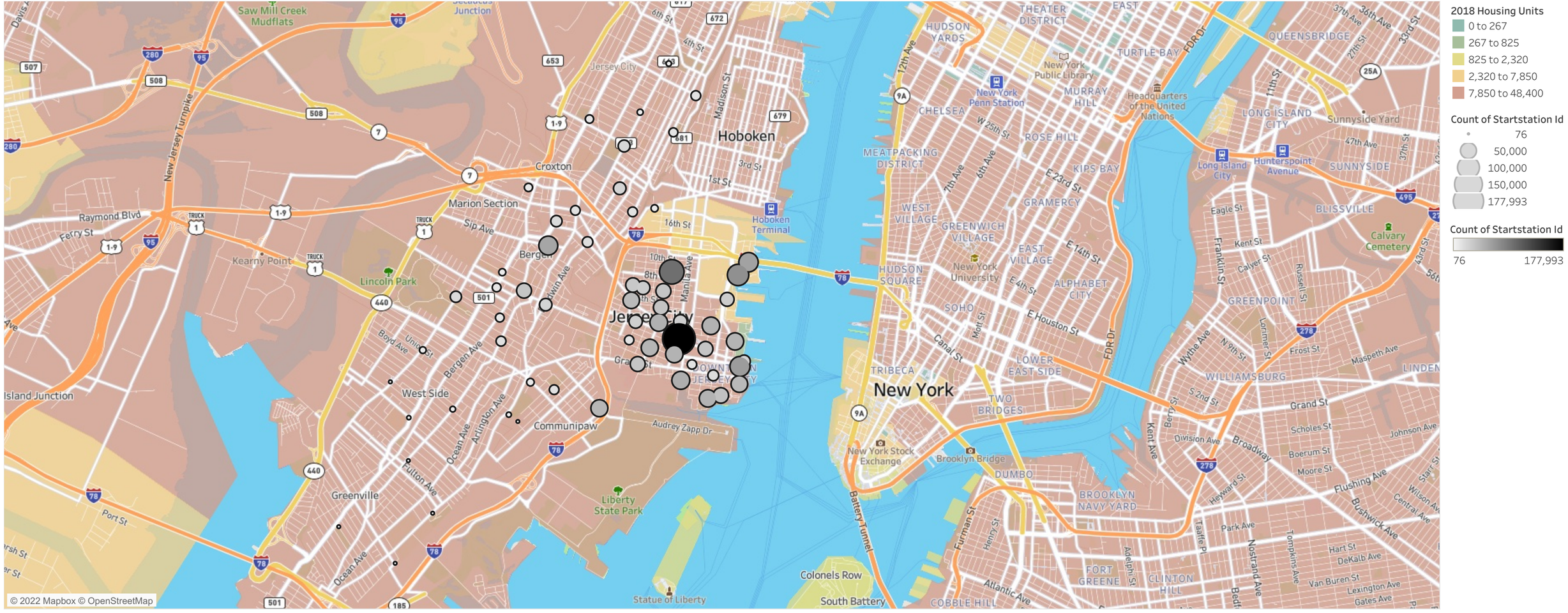
Avg Trip Duration at Station



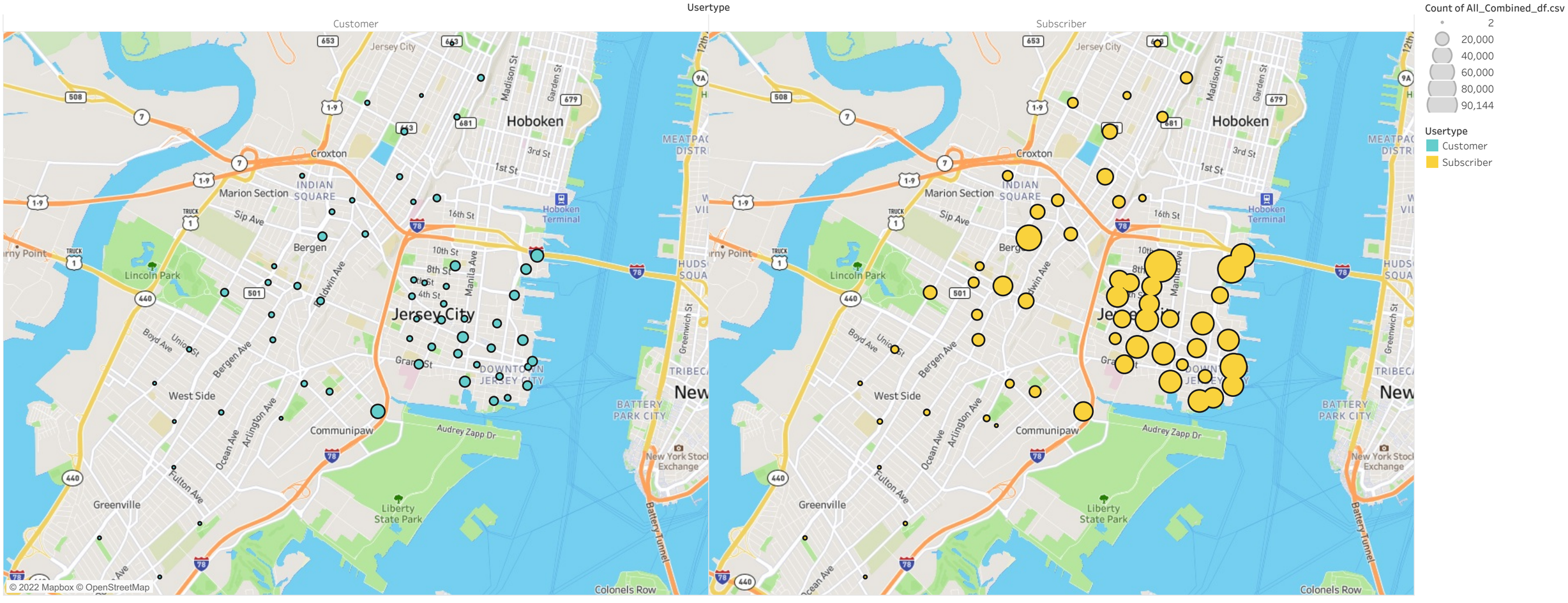
Avg Trip Duration and Frequency from a Station



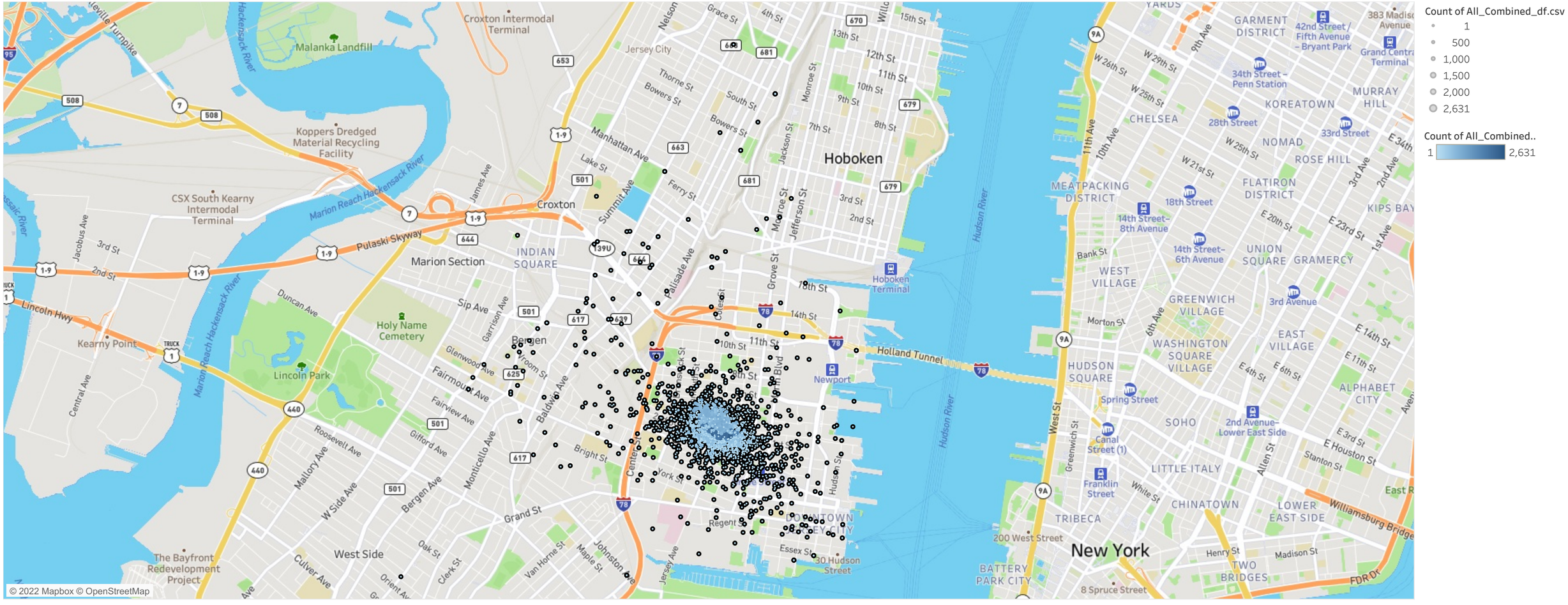
Popular Station with zipcode layered housing units



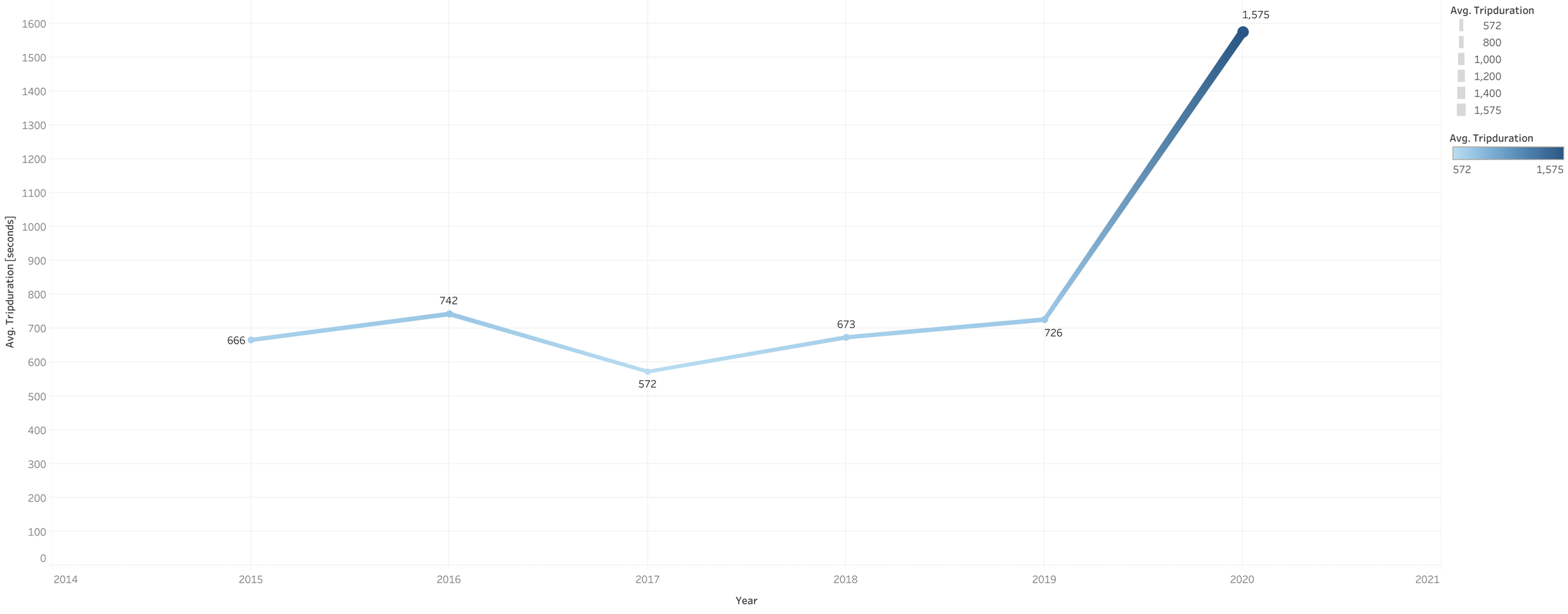
Customer vs Subscriber Usage



Mapped Bike Usage

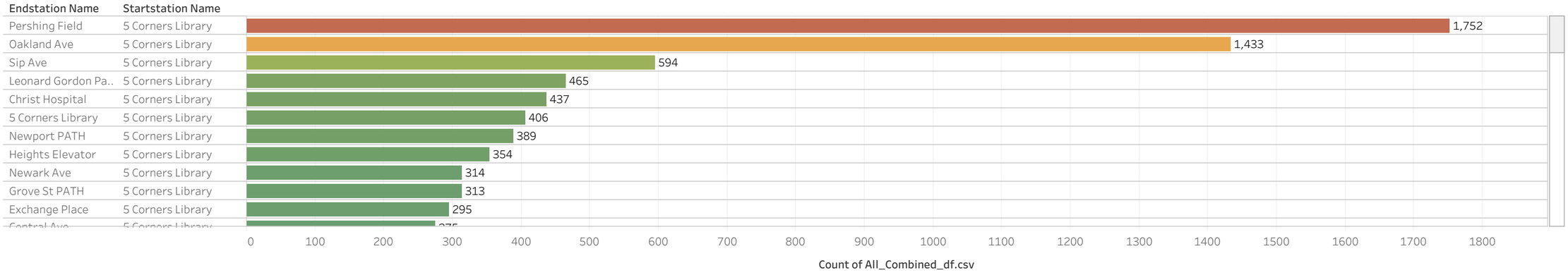


Avg Trip Duration per Year



Avg Travel time from each Station

End Station traffic



Avg. Tripduration
186.616216216 to 8,165..

Startstation Name
- [x] 5 Corners Library
- [ ] Astor Place

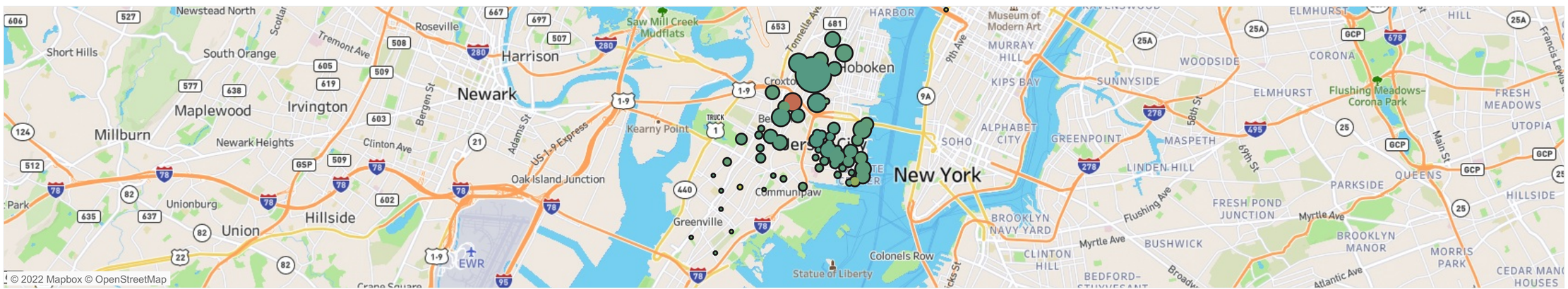
Birthyear
1887 to 2004

Count of All_Combined_d..
1 to 33,340

Usertype
- [x] Customer
- [x] Subscriber

Year
2015 to 2020

Avg Trip Duration and Frequency from a Station



Starttime
21/09/2015 14:53:16 to ..

Gender
- [x] female
- [x] male

Count of All_Combined_d..
1 — 1,752

Avg. Tripduration
363.160213618 to 15,842

Avg. Tripduration
429 — 7,379

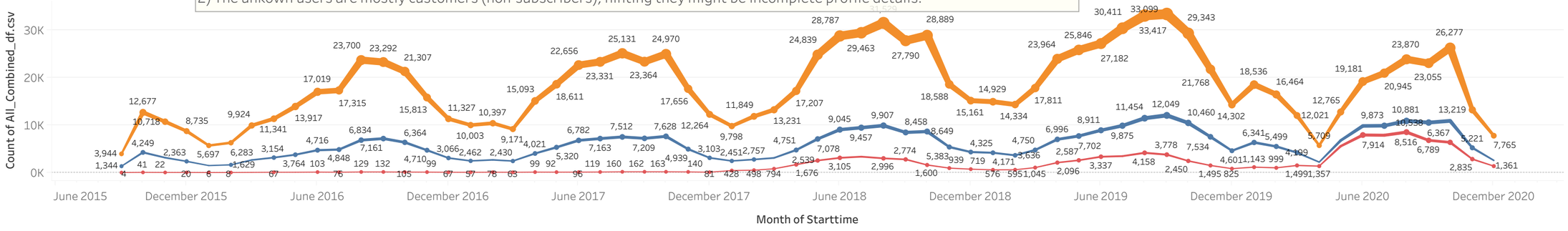
Count of Endstation Id
1
500

Data Analysis of CitiBike in Jersey City

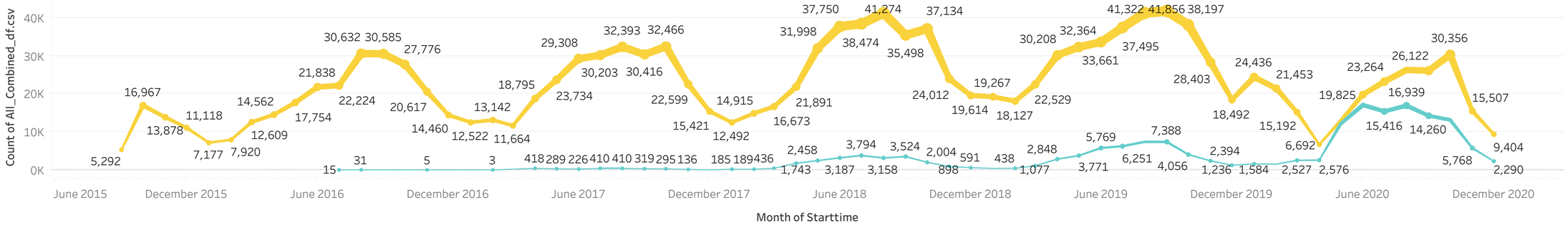
Citi Bike users in New Jersey loved to ride in summers & 2020 saw increase in non-subscribers	Customer profile with incomplete details ...	Majority of the riders are from 1980's, and suprisingly not many young users in comparison.	A comparison of start and end stations reveal top stations to be similar.	Working hours and weekdays busy as usual, however 2020 saw increase in weekend rides ...	Customer users having increased over the years and 2020 has seen a huge spike.	A tool to check each station's Avg trip duration to other stations.

1) Years 2017, 2018 & 2020 saw dips in September before rising in October again. Deeper analysis into September 2017 showed that the first week saw a drop in riders on Monday and Tuesday.
2) The unkown users are mostly customers (non-subscribers), hinting they might be incomplete profile details.

User Growth Count



Rider Count



Birthyear
1887 to 2004

Year
2015 to 2020

Starttime
21/09/2015 14:53:16 to ..

Gender
- ✔ female
- ✔ male

Usertype
- ✔ Customer
- ✔ Subscriber

Gender
- female
- male

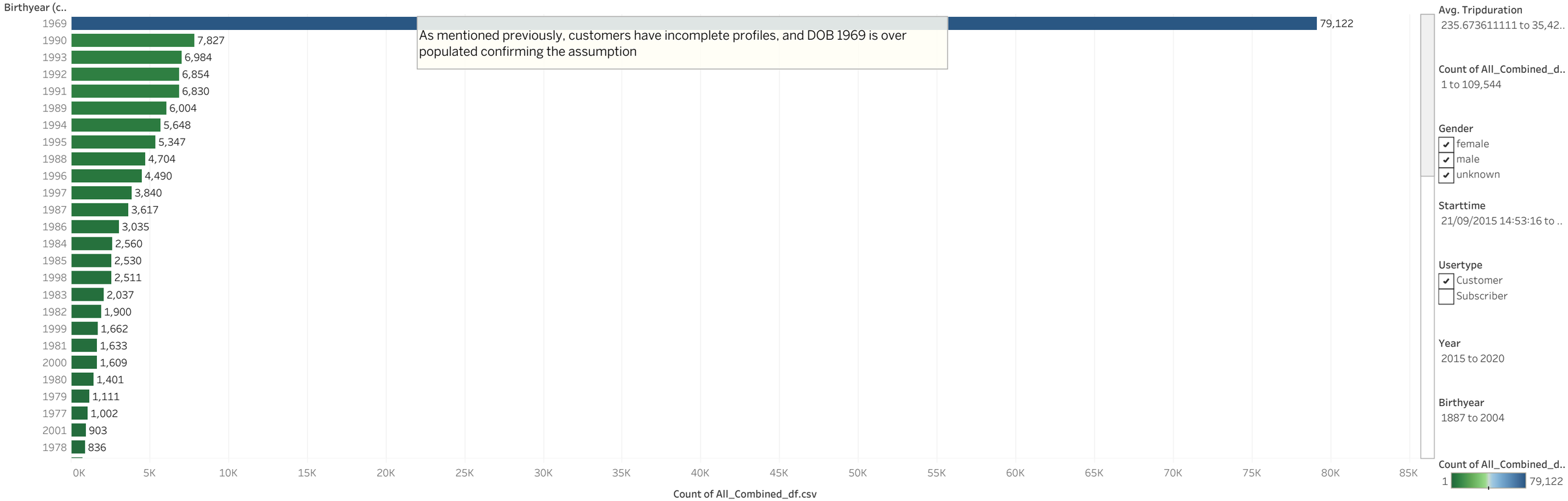
Count of All_Combined_d..
4
10,000

Avg. Tripduration
417.161104479 to 7,399..

Usertype
- Customer
- Subscriber

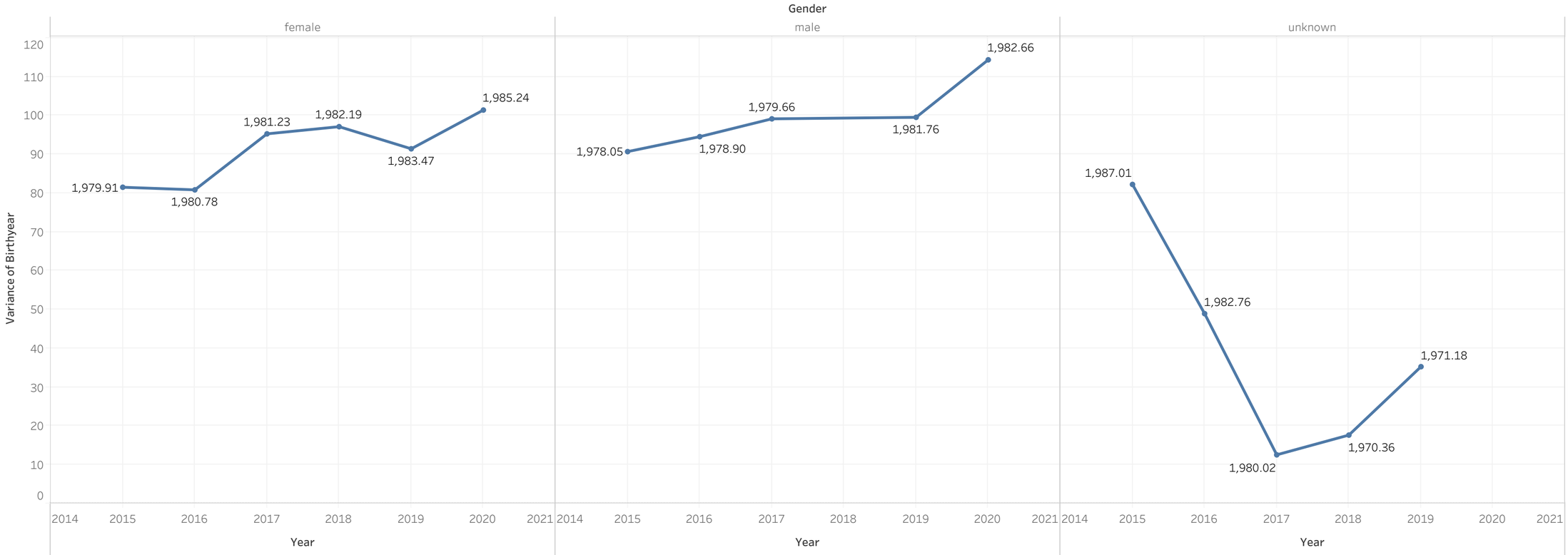
Data Analysis of CitiBike in Jersey City

Citi Bike users in New Jersey loved to ride in summers & 2020 saw increase in non-subscribers	Customer profile with incomplete details ...	Majority of the riders are from 1980's, and suprisingly not many young users in comparison.	A comparison of start and end stations reveal top stations to be similar.	Working hours and weekdays busy as usual, however 2020 saw increase in weekend rides ...	Customer users having increased over the years and 2020 has seen a huge spike.	A tool to check each station's Avg trip duration to other stations.



Data Analysis of CitiBike in Jersey City

Citi Bike users in New Jersey loved to ride in summers & 2020 saw increase in non-subscribers	Customer profile with incomplete details ...	Majority of the riders are from 1980's, and suprisingly not many young users in comparison.	A comparison of start and end stations reveal top stations to be similar.	Working hours and weekdays busy as usual, however 2020 saw increase in weekend rides ...	Customer users having increased over the years and 2020 has seen a huge spike.	A tool to check each station's Avg trip duration to other stations.



Avg. Tripduration
533.244626280 to 3,556..

Usertype
- [x] Customer
- [x] Subscriber

Starttime
21/09/2015 14:53:16 to ..

Birthyear
1938 to 2004

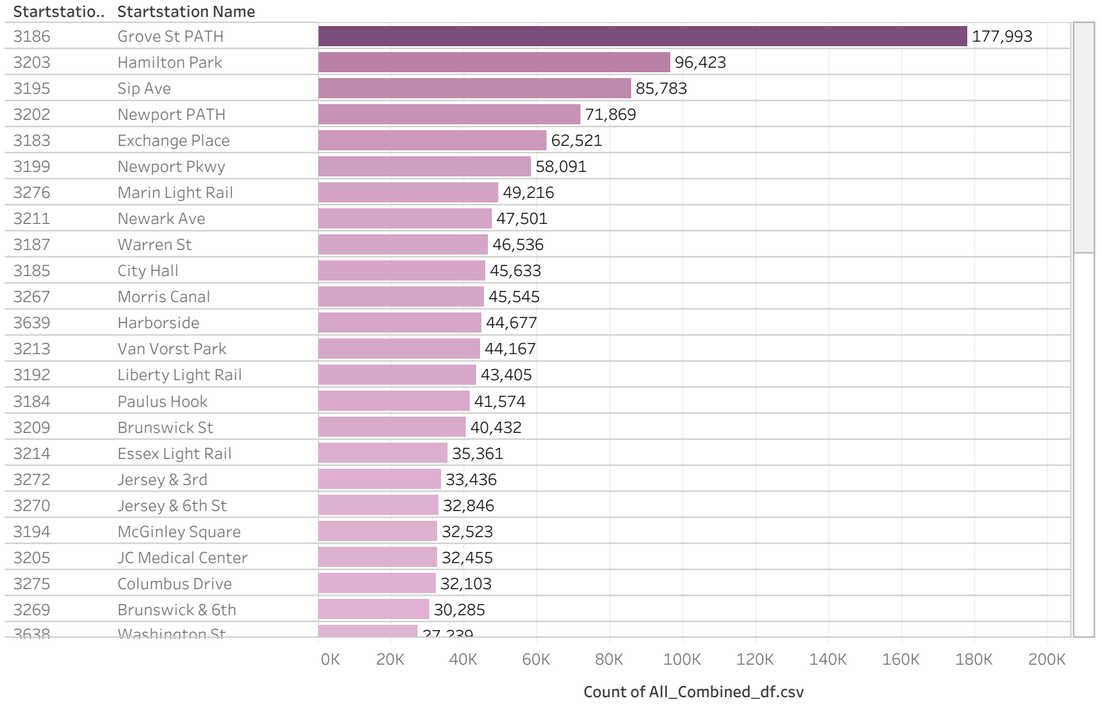
Year
2015 to 2020

Gender
- [x] female
- [x] male
- [x] unknown

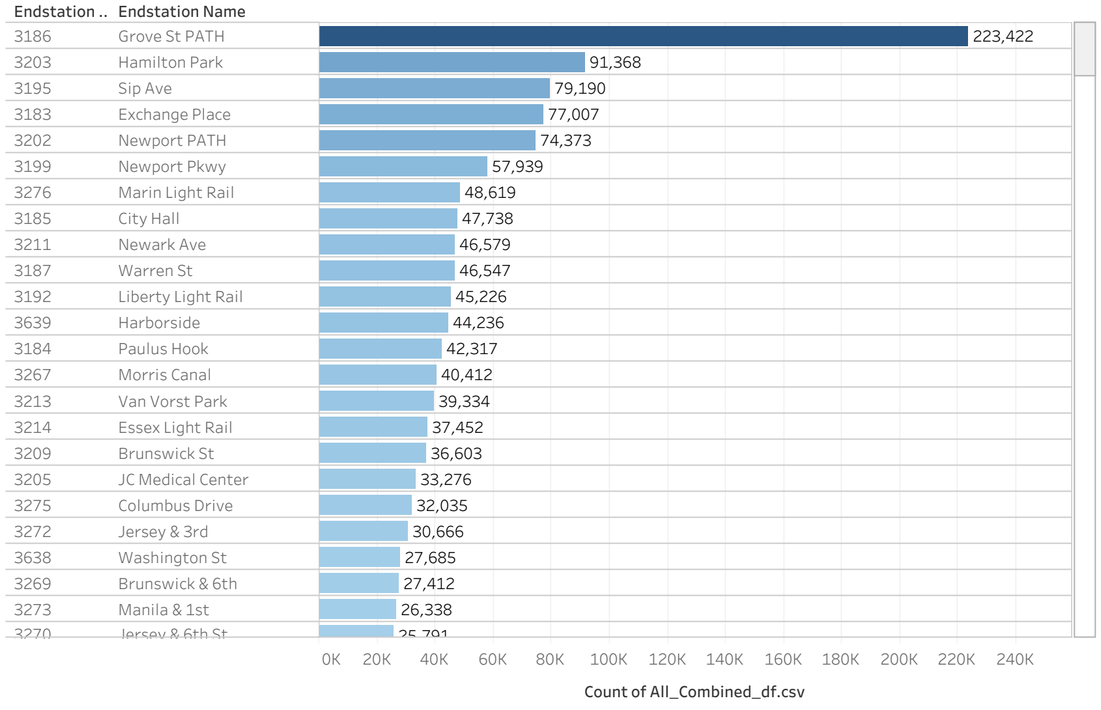
Data Analysis of CitiBike in Jersey City

Citi Bike users in New Jersey loved to ride in summers & 2020 saw increase in non-subscribers	Customer profile with incomplete details ...	Majority of the riders are from 1980's, and suprisingly not many young users in comparison.	A comparison of start and end stations reveal top stations to be similar.	Working hours and weekdays busy as usual, however 2020 saw increase in weekend rides ...	Customer users having increased over the years and 2020 has seen a huge spike.	A tool to check each station's Avg trip duration to other stations.

Start Station Usage (to end station)



End Station Usage Stats



Avg. Tripduration
448.533474137 to 6,413..

Birthyear
1887 to 2004

Count of All_Combined_d..
76 to 177,993

Year
2015 to 2020

Starttime
21/09/2015 14:53:16 to ..

Usertype
- ☑ Customer
- ☑ Subscriber

Gender
- ☑ female
- ☑ male

Count of All_Combined_d..
76 177,993

Avg. Tripduration
440.599277978 to 1,077..

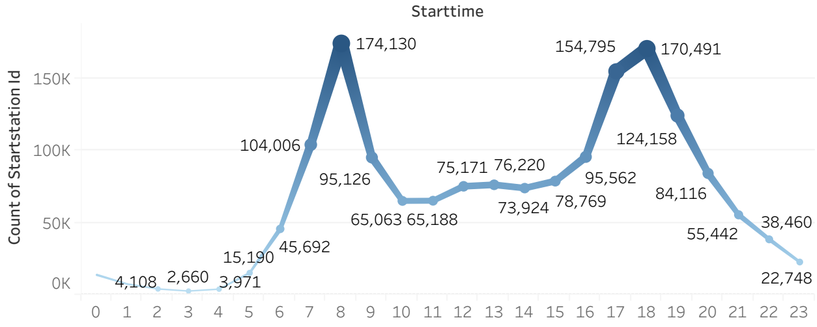
Count of All_Combined_d..
1 to 223,422

Data Analysis of CitiBike in Jersey City

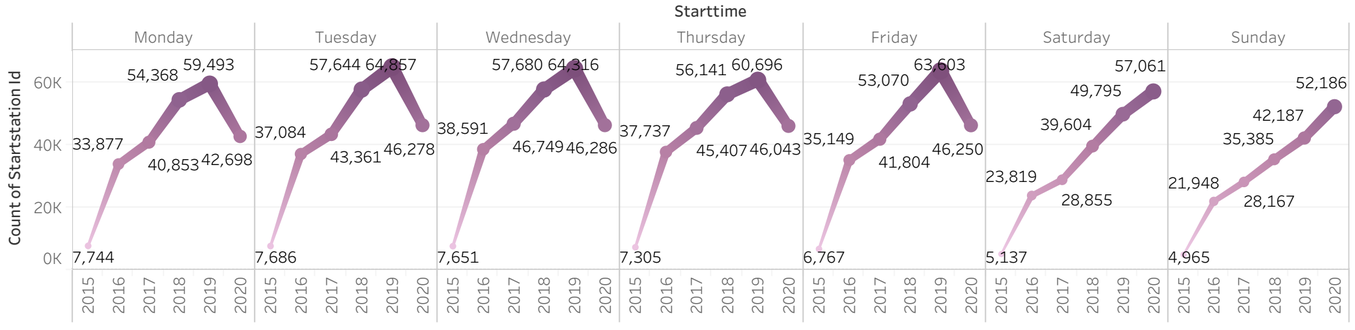
Citi Bike users in New Jersey loved to ride in summers & 2020 saw increase in non-subscribers	Customer profile with incomplete details ...	Majority of the riders are from 1980's, and suprisingly not many young users in comparison.	A comparison of start and end stations reveal top stations to be similar.	Working hours and weekdays busy as usual, however 2020 saw increase in weekend rides ...	Customer users having increased over the years and 2020 has seen a huge spike	A tool to check each station's Avg trip duration to other stations.

1) Young crowd(>1990) are majority users late in day and opposite for the older crowd(<1990)
2) January, Feberuary, & October are the only months with upward trend in 2020
3) The summer months (Initial covid months) in 2020 saw increased usage between 10am to 4 pm.

Traffic by Hour



Traffic by Weekday



Year
2015 to 2020

Usertype
- [x] Customer
- [x] Subscriber

Starttime
21/09/2015 14:53:16 to ..

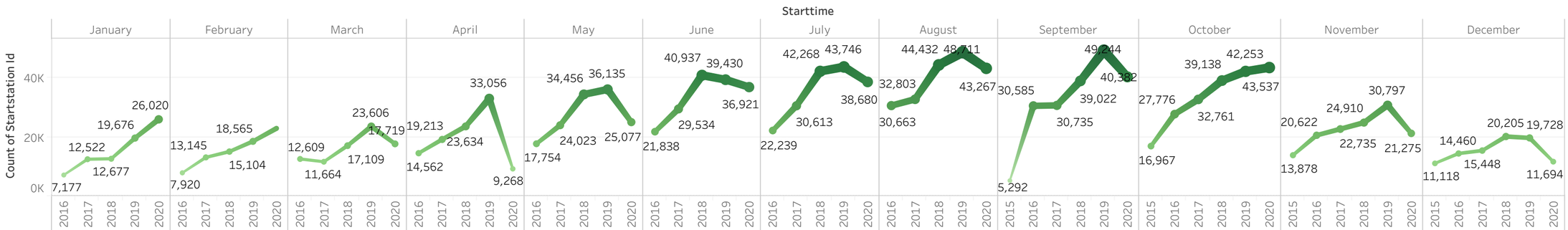
Gender
- [x] female
- [x] male
- [x] unknown

Birthyear
1887 to 2004

Month of Starttime
- [x] January
- [x] February
- [x] March
- [x] April

Weekday of Starttime
- [x] Monday
- [x] Tuesday
- [x] Wednesday
- [x] Thursday

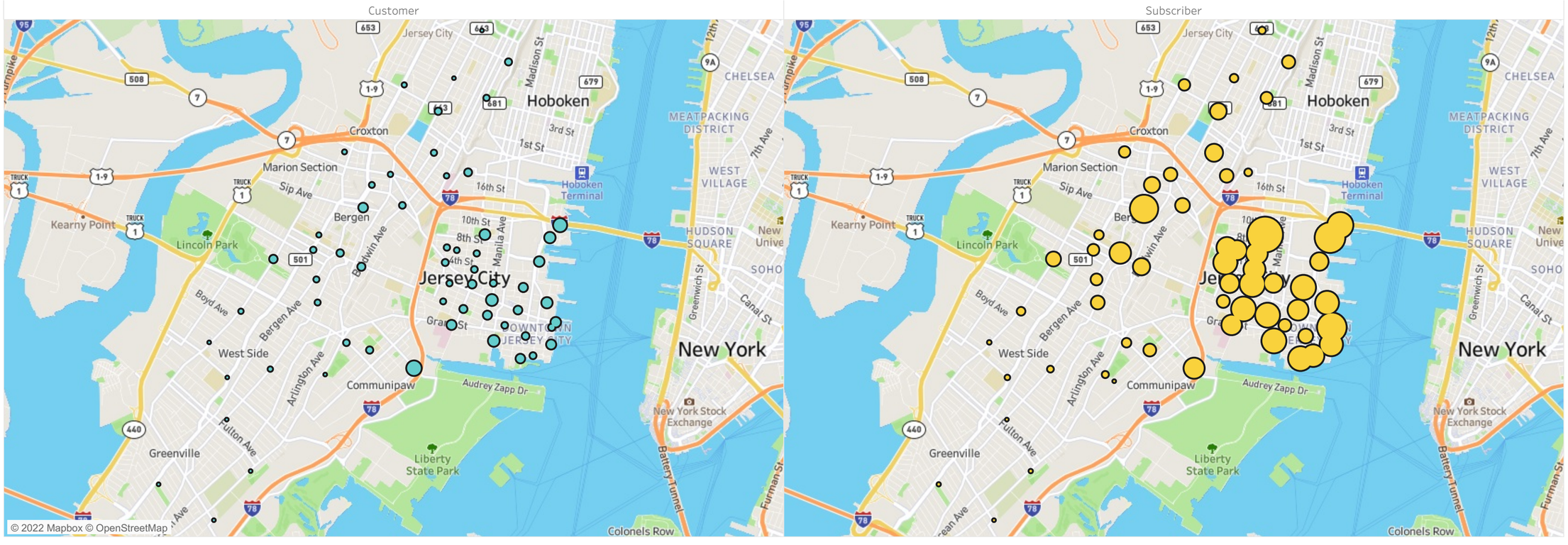
Traffic by Month



Data Analysis of CitiBike in Jersey City

Citi Bike users in New Jersey loved to ride in summers & 2020 saw increase in non-subscribers	Customer profile with incomplete details ...	Majority of the riders are from 1980's, and suprisingly not many young users in comparison.	A comparison of start and end stations reveal top stations to be similar.	Working hours and weekdays busy as usual, however 2020 saw increase in weekend rides ...	Customer users having increased over the years and 2020 has seen a huge spike.	A tool to check each station's Avg trip duration to other stations.

Usertype



Avg. Tripduration
345.342506870 to 51,89..

Birthyear
1887 to 2004

Gender
- [x] female
- [x] male

Count of All_Combined_d..
2 to 167,028

Starttime
21/09/2015 14:53:16 to ..

Usertype
- [x] Customer
- [x] Subscriber

Year
2015 to 2020

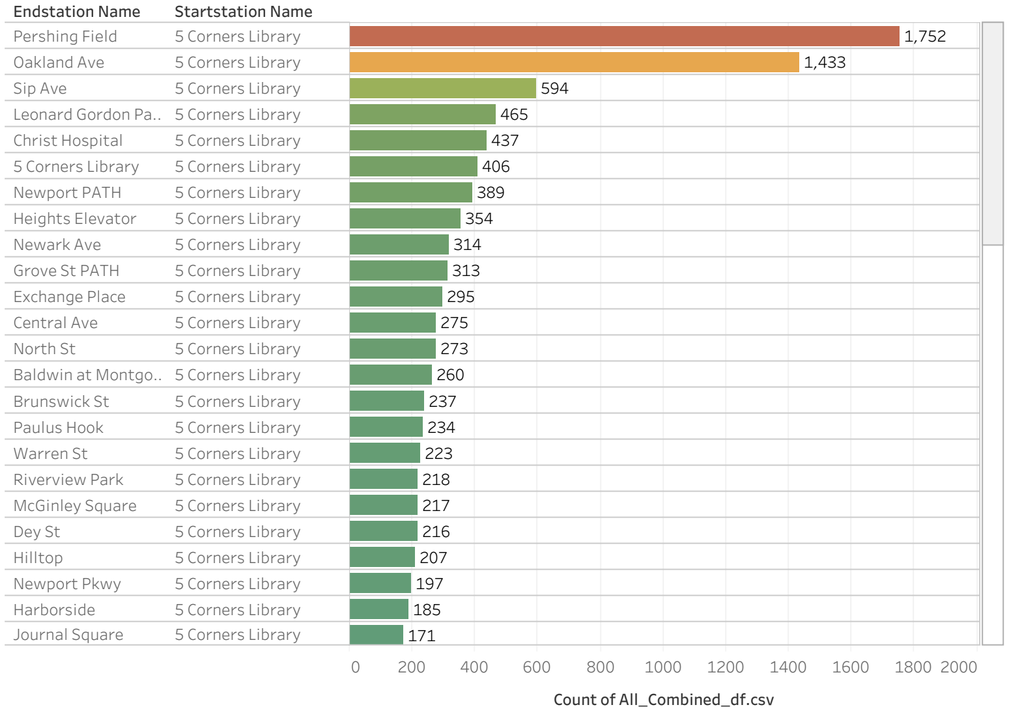
Usertype
- Customer
- Subscriber

Count of All_Combined_d..
2
20,000

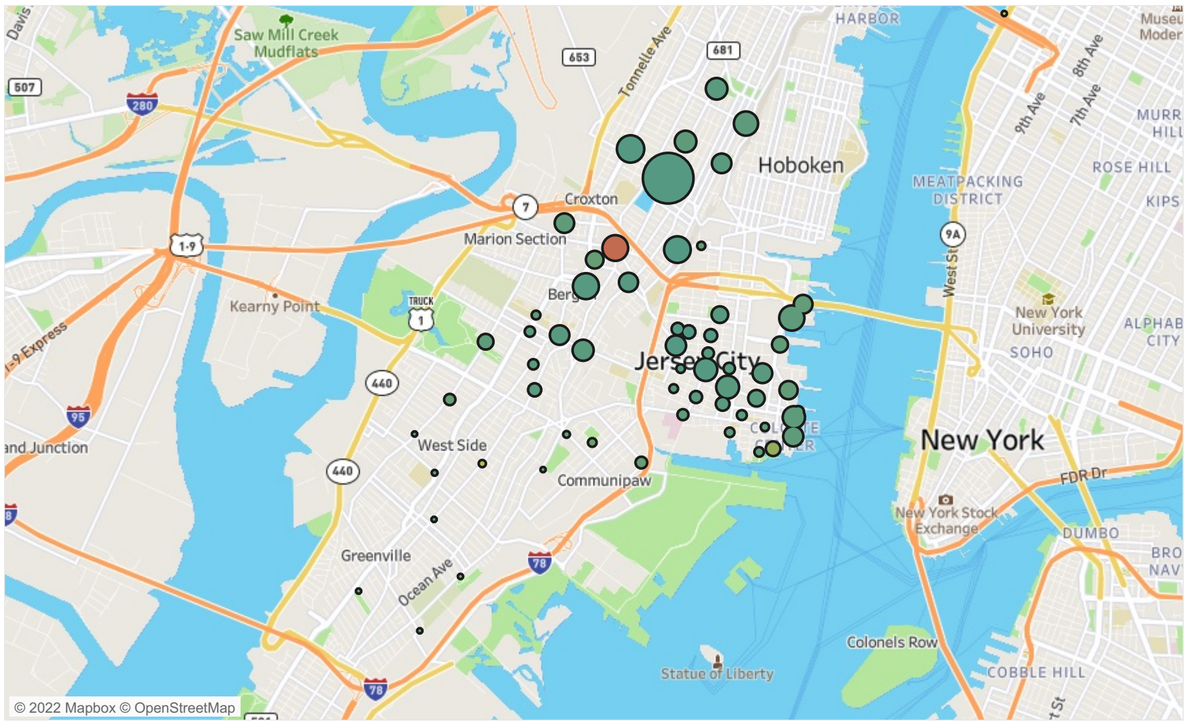
Data Analysis of CitiBike in Jersey City

Citi Bike users in New Jersey loved to ride in summers & 2020 saw increase in non-subscribers	Customer profile with incomplete details ...	Majority of the riders are from 1980's, and suprisingly not many young users in comparison.	A comparison of start and end stations reveal top stations to be similar.	Working hours and weekdays busy as usual, however 2020 saw increase in weekend rides ...	Customer users having increased over the years and 2020 has seen a huge spike.	A tool to check each station's Avg trip duration to other stations.

End Station traffic



Avg Trip Duration and Frequency from a Station



Avg. Tripduration
186.616216216 to 8,165..

Startstation Name
☑ 5 Corners Library

Birthyear
1887 to 2004

Count of All_Combined_d..
1 to 33,340

Usertype
☑ Customer

Year
2015 to 2020

Starttime
21/09/2015 14:53:16 to ..

Gender
☑ female

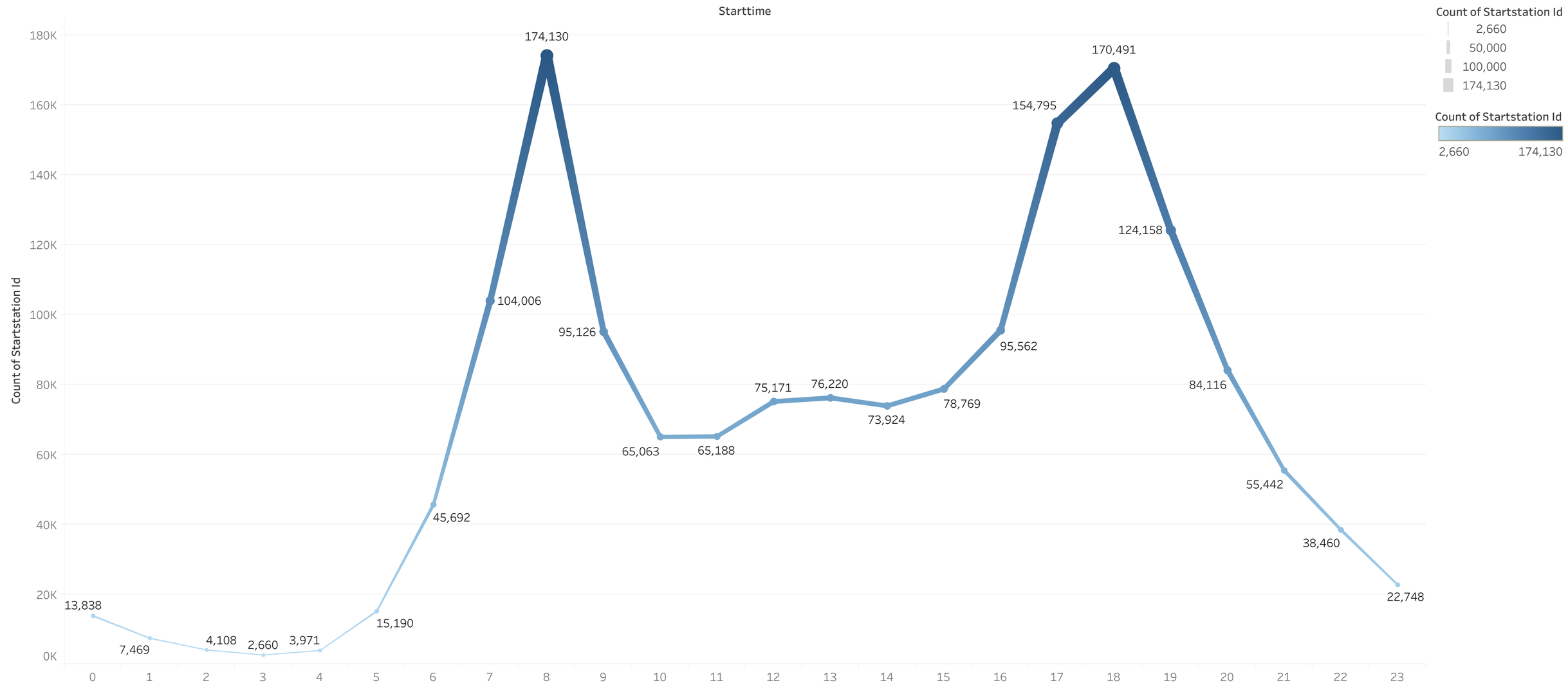
Count of All_Combined_d..
1 1,752

Avg. Tripduration
363.160213618 to 15,842

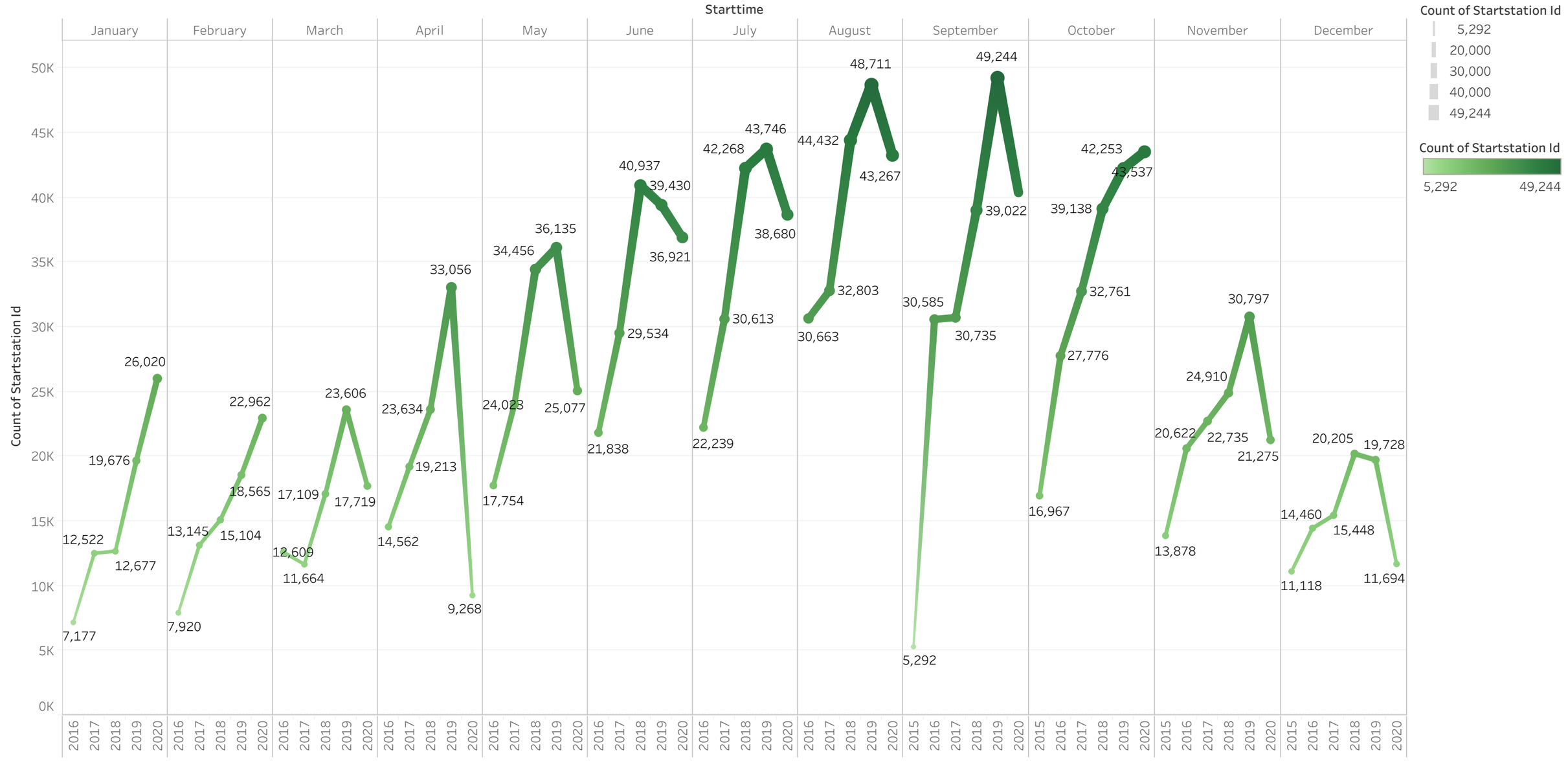
Avg. Tripduration
429 7,379

Count of Endstation Id
1

Traffic by Hour

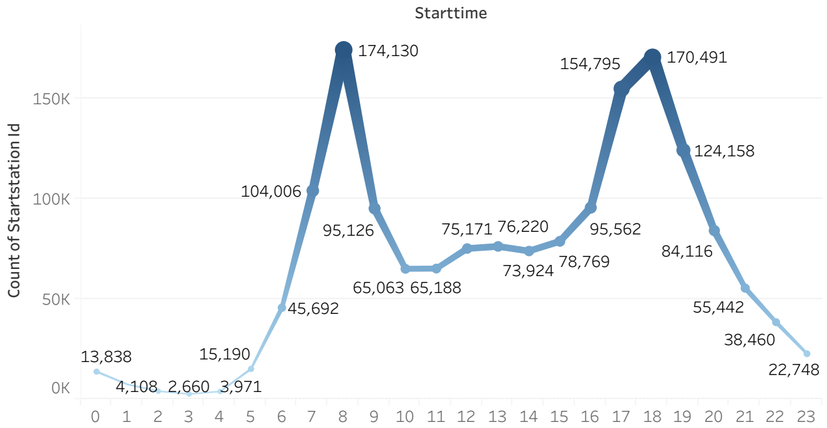


Traffic by Month

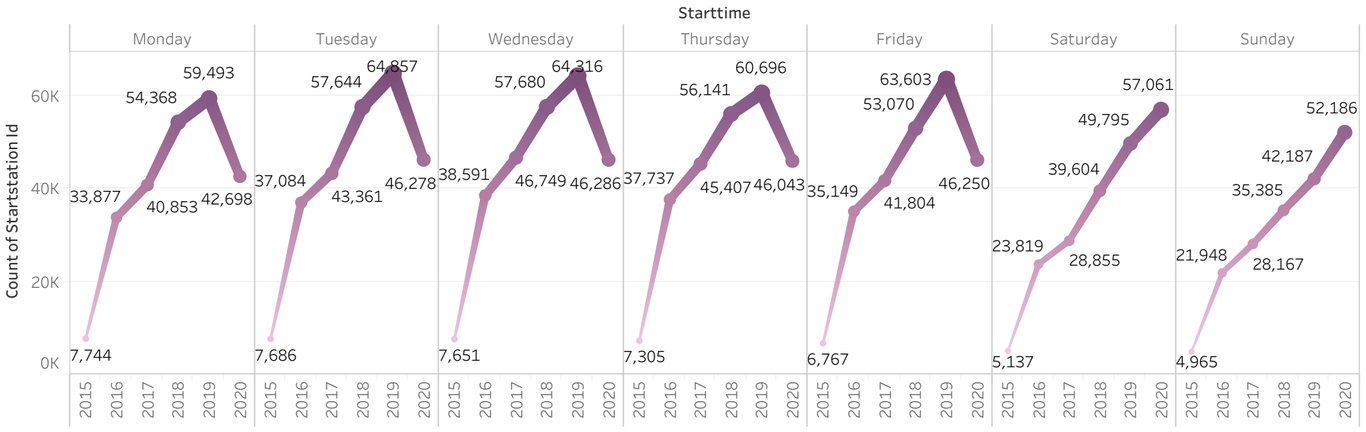


Traffic by Weekday

Traffic by Hour



Traffic by Weekday



Year
2015 to 2020

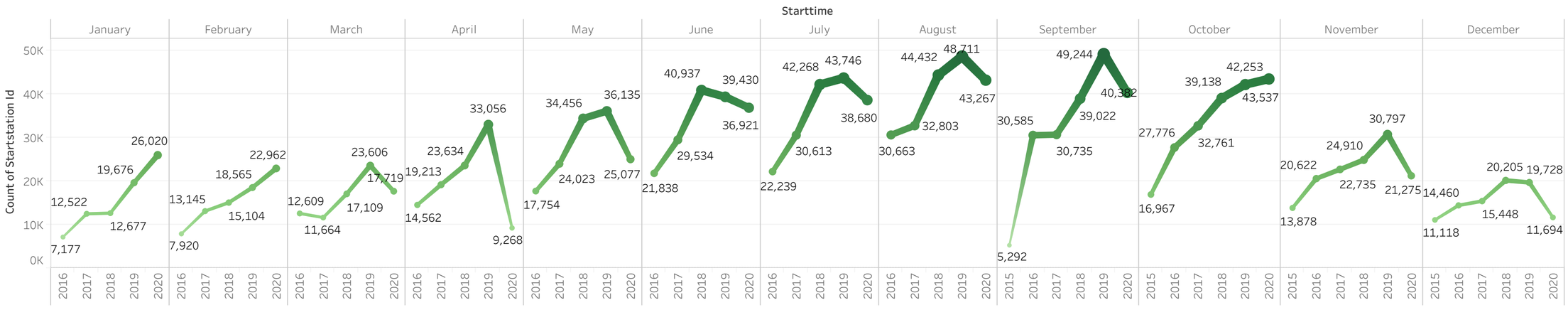
Usertype
- [x] Customer
- [x] Subscriber

Starttime
21/09/2015 14:53:16 to ..

Gender
- [x] female
- [x] male
- [x] unknown

Birthyear
1887 to 2004

Traffic by Month



Month of Starttime
- [x] January
- [x] February
- [x] March
- [x] April
- [x] May
- [x] June
- [x] July
- [x] August

Weekday of Starttime
- [x] Monday
- [x] Tuesday
- [x] Wednesday
- [x] Thursday
- [x] Friday
- [x] Saturday
- [x] Sunday