



Capital District Transportation Committee (CDTC)

TECHNICAL MEMORANDUM

Traffic Trends Post-2020

October 2022

Background

Starting in March 2020 when businesses and schools switched to virtual options, vehicle traffic was sharply reduced. Since then, vehicle traffic has recovered back to a “new normal”. To measure this difference between pre-COVID baselines and the new normal CDTC conducted a series of traffic counts.

CDTC gathered traffic count data for 45 different locations in April 2022. The locations were selected for specific reasons and are not a representative sample of roadways within the Capital Region. The counts were compared to the most recent pre-2020 counts that NYSDOT has available.

Analysis

Across all 45 sites, the average vehicle traffic was down 12.2 compared to the previous pre-2020 counts. The peak hour volume was down 17.8 percent.

The largest change in traffic was observed on roadways near office complexes of the NYS Harriman Campus, Corporate Woods, GlobalFoundries, and Regeneron. Traffic was down an average of 40 percent on these roads. This may be attributable to working from home policies. Although three of office counts saw declines in traffic, vehicle volumes near the Harriman Campus increased by 2 percent.

Counts conducted near colleges and universities showed an average 12.2 percent reduction in vehicle travel. Counts were conducted on roadways near RPI, HVCC, College of Saint Rose, Siena College, SCCC, Union College, Skidmore College, and SUNY Albany. The peak hour volume was 16.7 percent lower. The decline in traffic near colleges and universities may suggest that some classes remain online. On Fuller Road between Western Ave and Washington Ave traffic decreased by 36 percent compared to the most recent count in 2017. This may be attributable to work-from-home policies and virtual class options at the nearby UAlbany Campus and Nanotech Complex.

Locations that are either on the Freight Priority Network or are otherwise important for freight access saw an average reduction of 9.6 percent. Peak hour volumes were down an average of 14.3 percent. However, these counts showed a 30 percent increase in the number of trucks. Traffic along Everett Road between Central Ave and I-90 was 39 percent lower than in 2017. There was a similar 38 percent reduction in truck traffic along the roadway. These unusual changes in truck traffic could be attributed to an increase in the volume of freight and/or discrepancies in the vehicle classification data collection methodology. These locations should be monitored regularly for comparison.

Peak Volumes

Throughout every type of roadway or location, peak vehicle flows had greater reductions than daily traffic flows. This means that travel is spread more evenly throughout the day with lower peaks than were seen pre-2020.

Comparison to Other Datasets

In contrast to this data, larger data sources show that vehicle traffic has returned to 2019 levels or even surpassed them. Replica's "Trends" dataset for the CDTC region shows the monthly vehicle traffic in 2022 is higher than in 2019. Over the year to date, total vehicle trips have increased between 5-10% compared to 2019 levels. Data published by Inrix, Google Mobility, and the Bureau of Transportation Statistics (BTS) also suggest that regional VMT is at or above 2019 levels. BTS data shows between a 9-15% increase in the number of trips in late 2021 compared to 2019. This suggests that vehicle traffic has grown on other roadways in the region that weren't counted for this project.

Pearl St from Albany City Line to I-787 Ramp (110005) Traffic Volume

16-Minor Urban Arterial

April 2019

April 2022

AADT: 9,957

AADT: 9,220

Percent Change: -7.4%



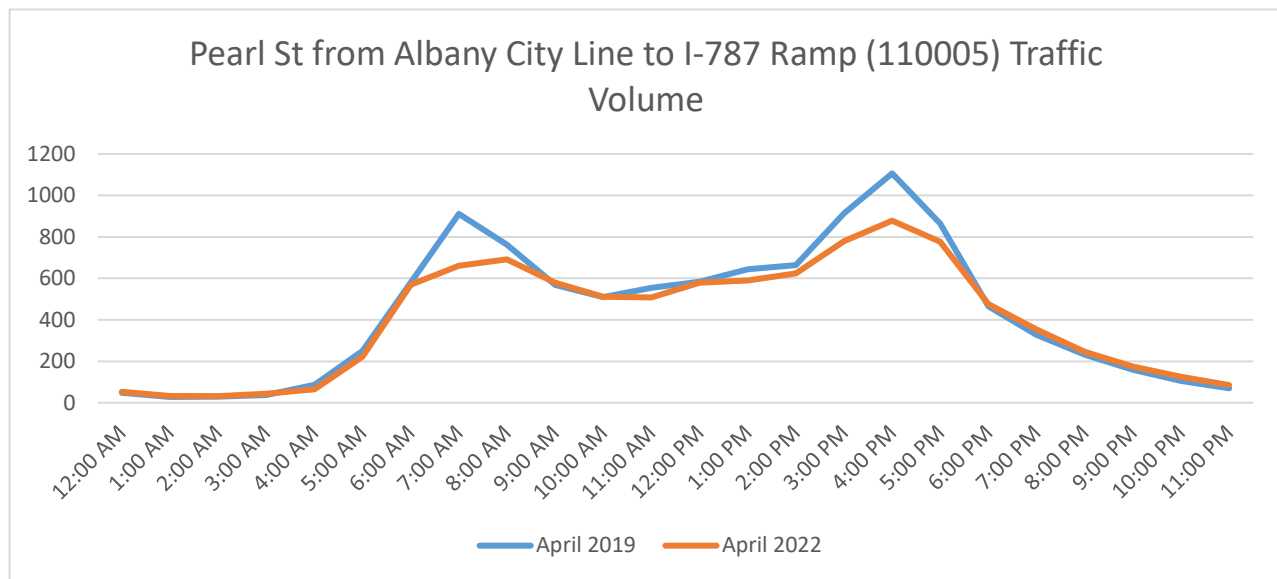
Peak Hour: 4pm-5pm

Peak Hour: 4pm-5pm

Peak Hour Volume: 1,106

Peak Hour Volume: 878

Percent Change: -20.6%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

Watervliet Shaker Rd from Sand Creek Rd to Albany Shaker Rd (110012) Traffic Volume

14-Principal Urban Arterial

June 2015

April 2022

AADT: 11,175

AADT: 10,559

Percent Change: -5.5%



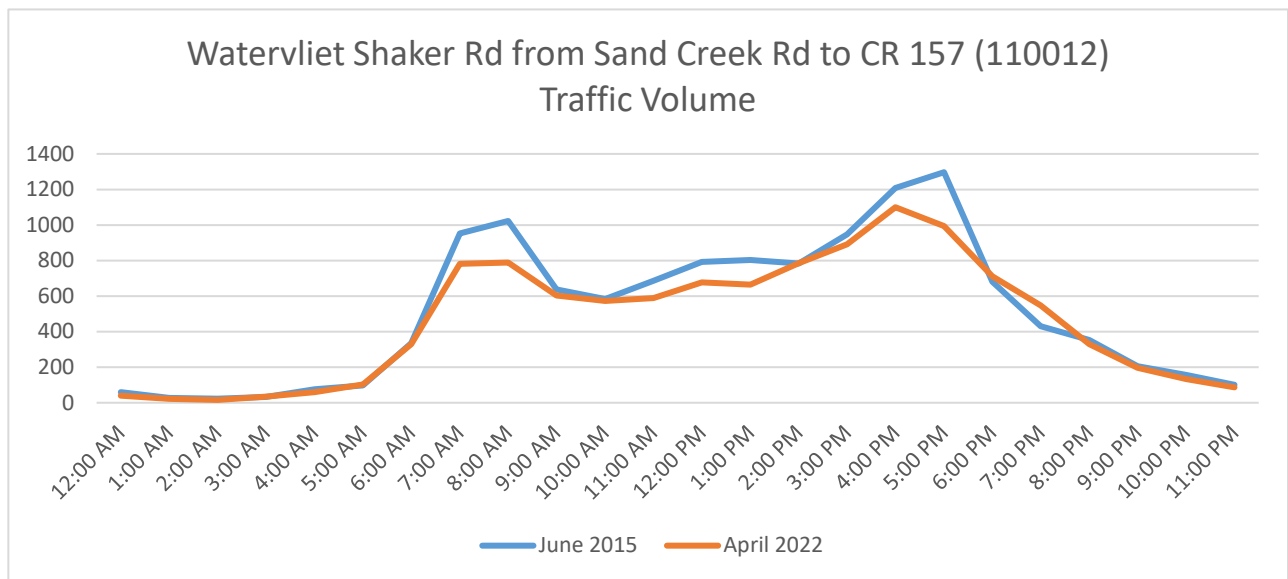
Peak Hour: 5pm-6pm

Peak Hour: 4pm-5pm

Peak Hour Volume: 1,297

Peak Hour Volume: 1,100

Percent Change: -15.2%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

Albany Shaker Rd from Watervliet Shaker Rd to I-87 Ramp (110022) Traffic Volume

14-Principal Urban Arterial

July 2017

April 2022

AADT: 24,773

AADT: 14,883

Percent Change: -39.9%



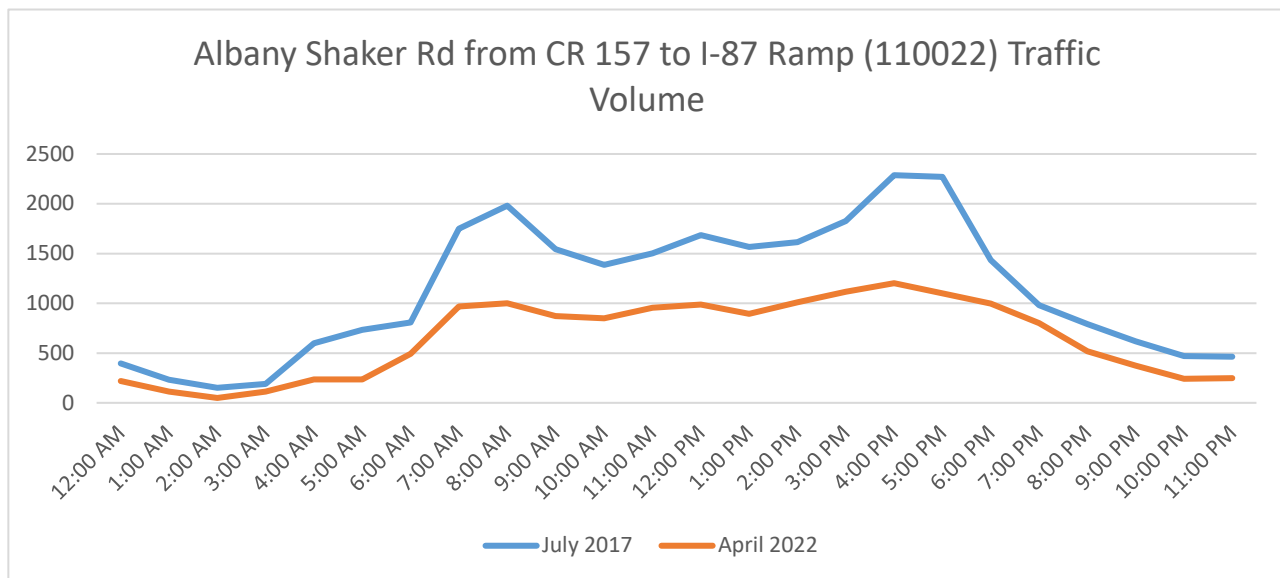
Peak Hour: 4pm-5pm

Peak Hour: 4pm-5pm

Peak Hour Volume: 2,287

Peak Hour Volume: 1,202

Percent Change: -47.4%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

US 9 from Rt 378 to Maxwell Rd (110199) Traffic Volume

14-Principal Urban Arterial

June 2019

April 2022

AADT: 17,512

AADT: 17,261

Percent Change: -1.4%

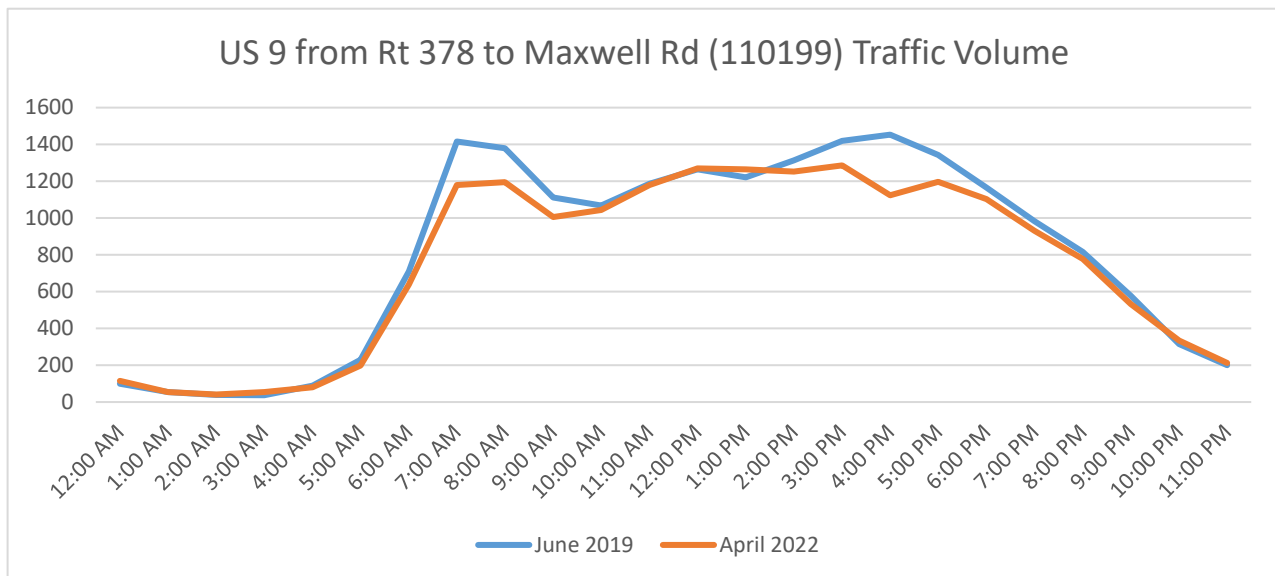
Peak Hour: 4pm-5pm

Peak Hour: 3pm-4pm

Peak Hour Volume: 1,453

Peak Hour Volume: 1,286

Percent Change: -11.5%



*Heavy Vehicles are defined as F4-F13 in FHWA's classification. AADT is adjusted for seasonality. Time of day graphs are raw data counts.

Western Ave from Fuller Rd to Rt 85 (110210) Traffic Volume

14-Principal Urban Arterial

April 2015

April 2022

AADT: 21,336

AADT: 17,557

Percent Change: -17.7%



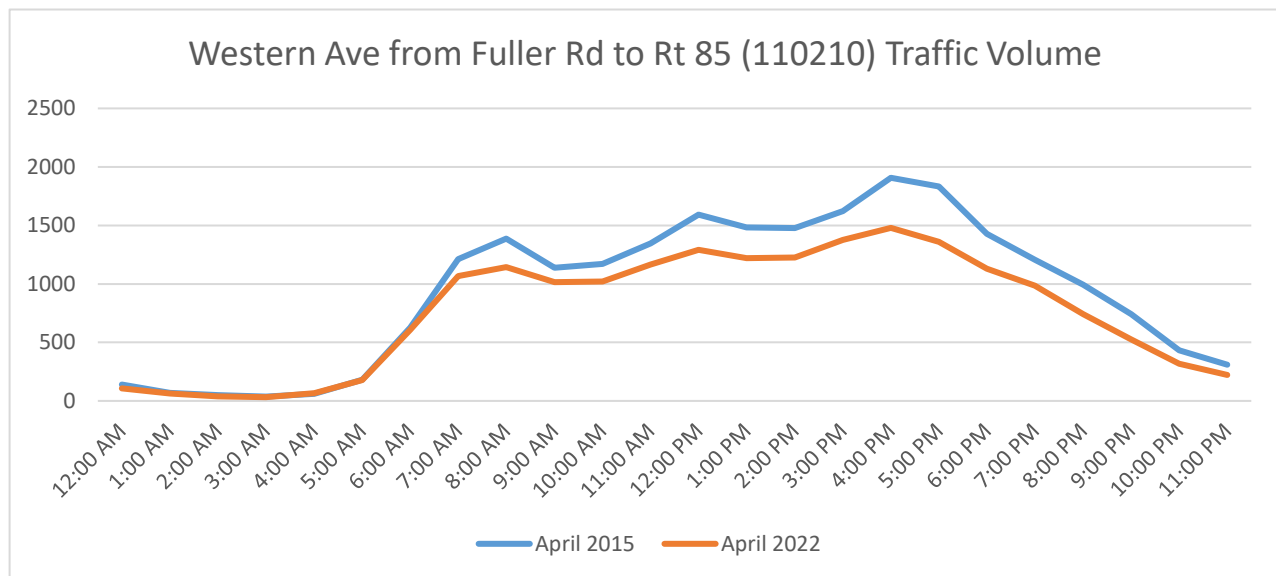
Peak Hour: 4pm-5pm

Peak Hour: 4pm-5pm

Peak Hour Volume: 1,907

Peak Hour Volume: 1,479

Percent Change: -22.4%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

NY 146 from Depot Rd to Western Ave (110216) Traffic Volume

16-Minor Urban Arterial

October 2016

April 2022

AADT: 12,185

AADT: 11,534

Percent Change: -5.3%



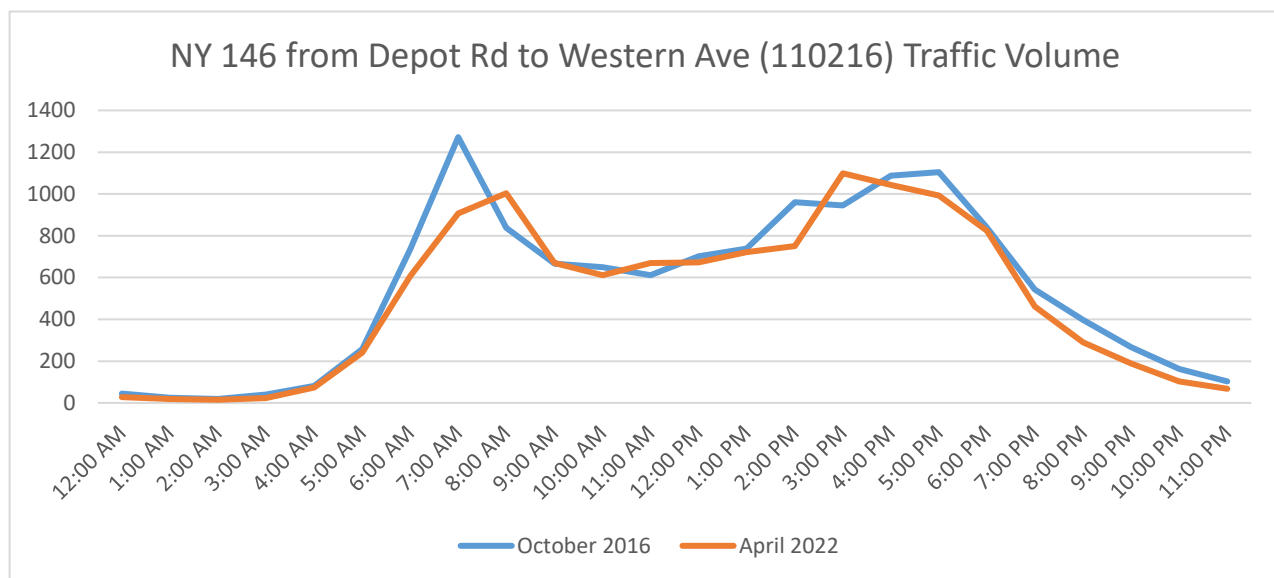
Peak Hour: 7am-8am

Peak Hour: 3pm-4pm

Peak Hour Volume: 1,272

Peak Hour Volume: 1,099

Percent Change: -13.6%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

NY 7 from Albany Shaker Rd to Wade Rd (110276) Traffic Volume

14-Principal Urban Arterial

November 2017

April 2022

AADT: 40,033

AADT: 28,945

Percent Change: -27.7%



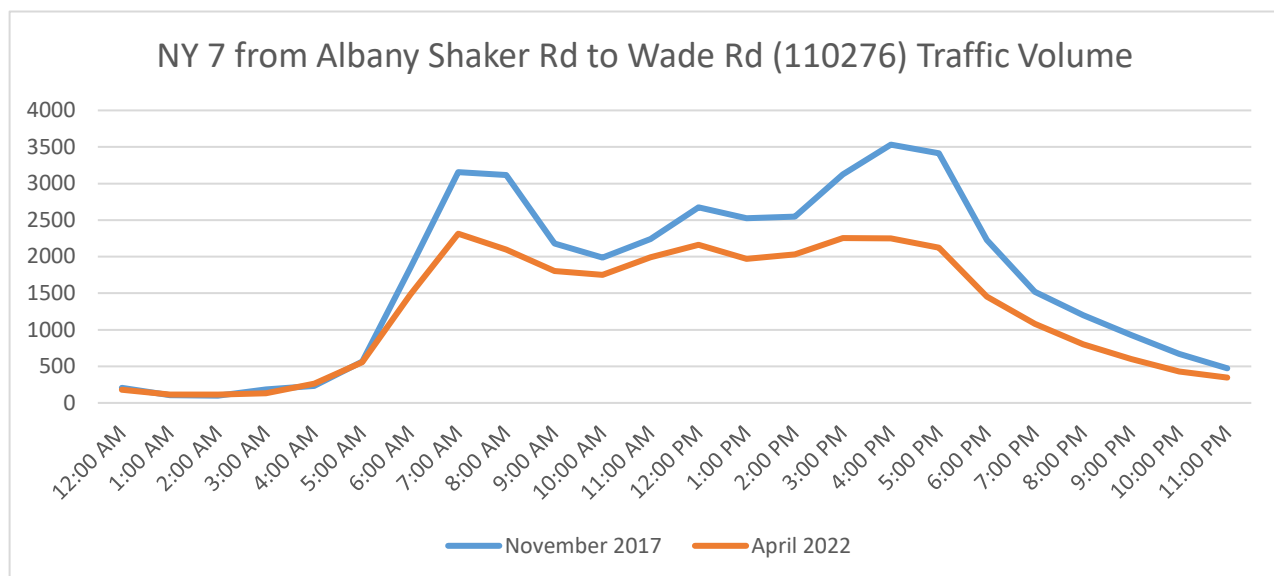
Peak Hour: 4pm-5pm

Peak Hour: 7am-8am

Peak Hour Volume: 3,532

Peak Hour Volume: 2,314

Percent Change: -34.5%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

Everett Rd Ext from Central Ave to I-90 Overpass (111017) Traffic Volume

14-Principal Urban Arterial

August 2017

April 2022

AADT: 21,670

AADT: 13,253

Percent Change: -38.8% 

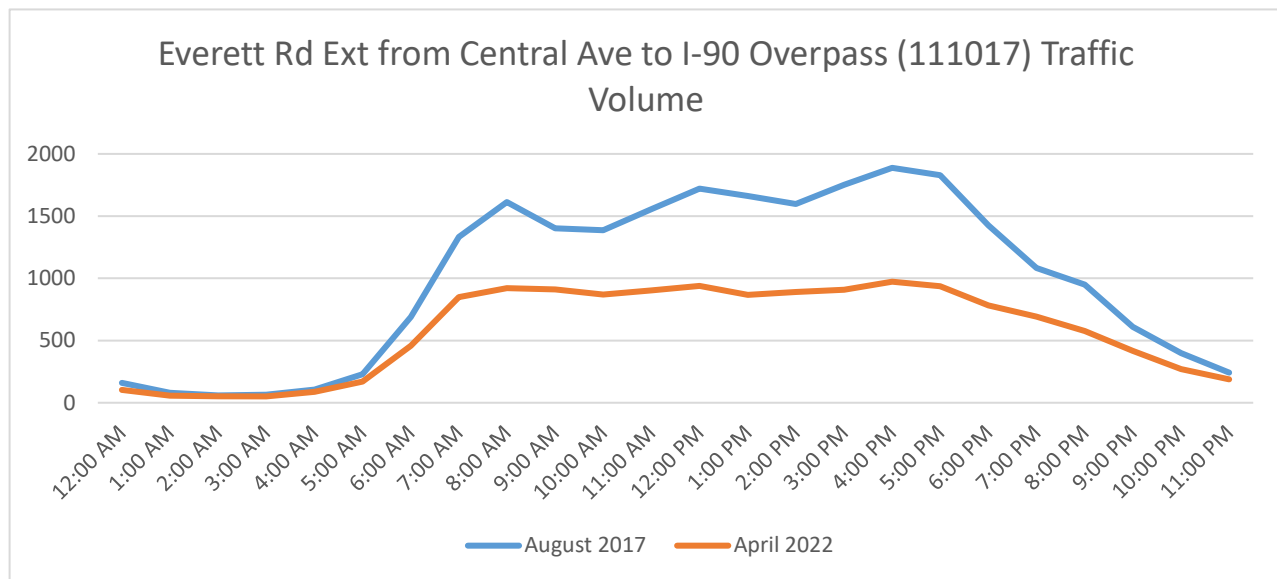
Peak Hour: 4pm-5pm

Peak Hour: 4pm-5pm

Peak Hour Volume: 1,888

Peak Hour Volume: 973

Percent Change: -48.5% 



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

Washington Ave from Fuller Rd to I-90 EB Exit 2 (111119) Traffic Volume

14-Principal Urban Arterial

August 2017

April 2022

AADT: 20,136

AADT: 15,755

Percent Change: -21.8% 

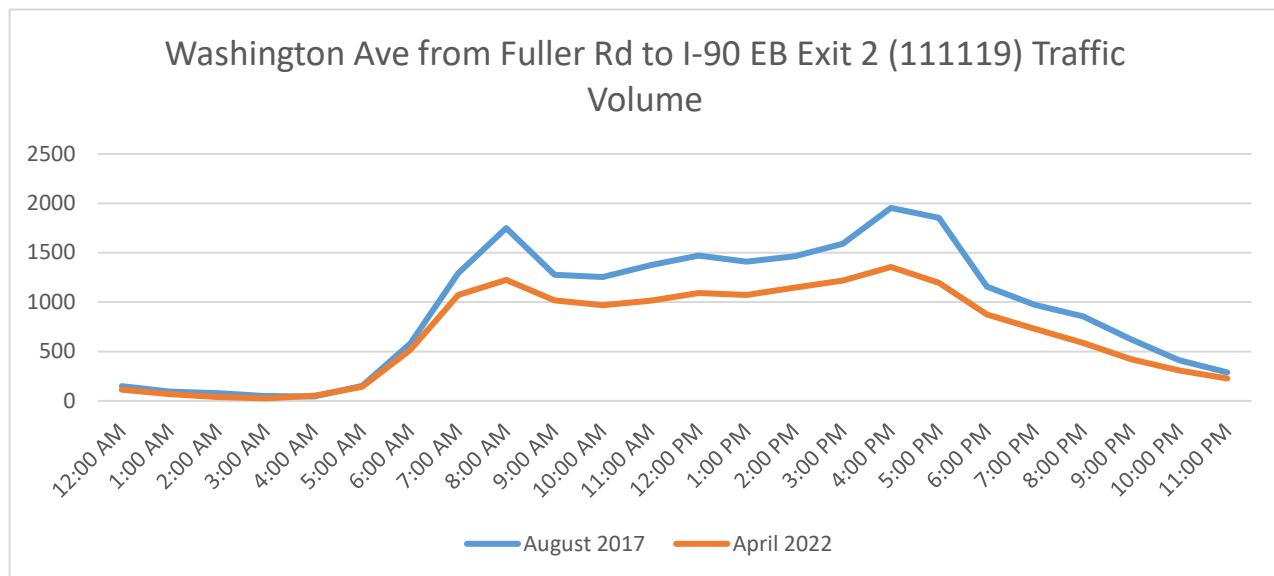
Peak Hour: 4pm-5pm

Peak Hour: 4pm-5pm

Peak Hour Volume: 1,954

Peak Hour Volume: 1,356

Percent Change: -30.6% 



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

Western Ave from Sprague Pl to N Allen St (111120) Traffic Volume

14-Principal Urban Arterial

August 2017

April 2022

AADT: 7,510

AADT: 6,140

Percent Change: -18.2%



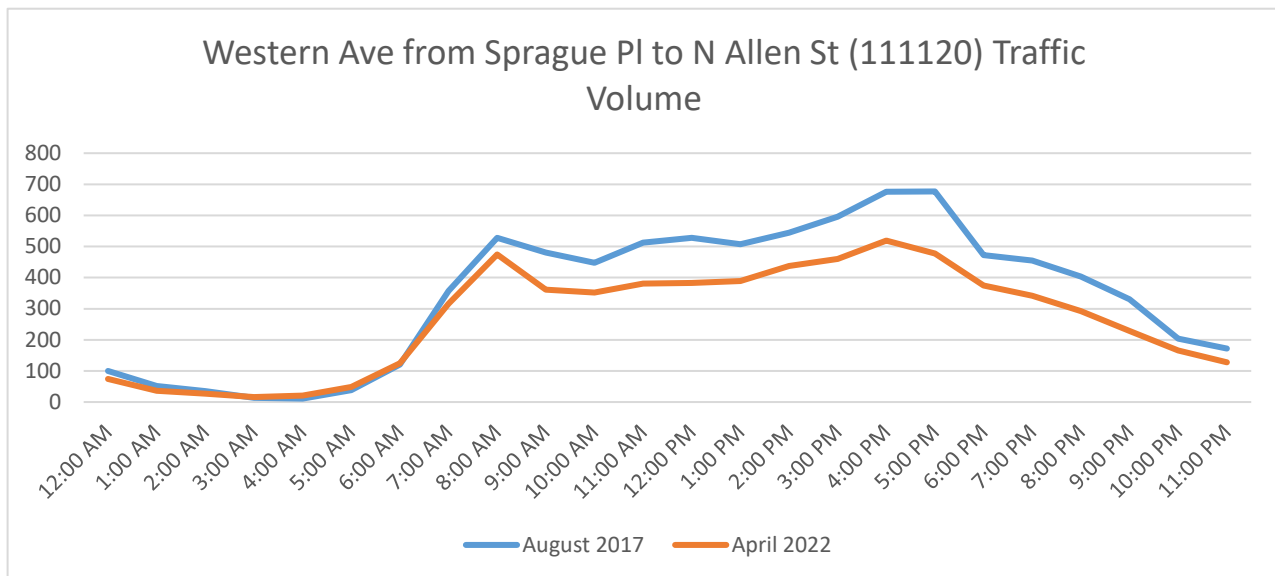
Peak Hour: 5pm-6pm

Peak Hour: 4pm-5pm

Peak Hour Volume: 677

Peak Hour Volume: 519

Percent Change: -23.3%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

Fuller Rd from Western Ave to Washington Ave (111124) Traffic Volume

14-Principal Urban Arterial

December 2017

April 2022

AADT: 12,747

AADT: 8,083

Percent Change: -36.6% 

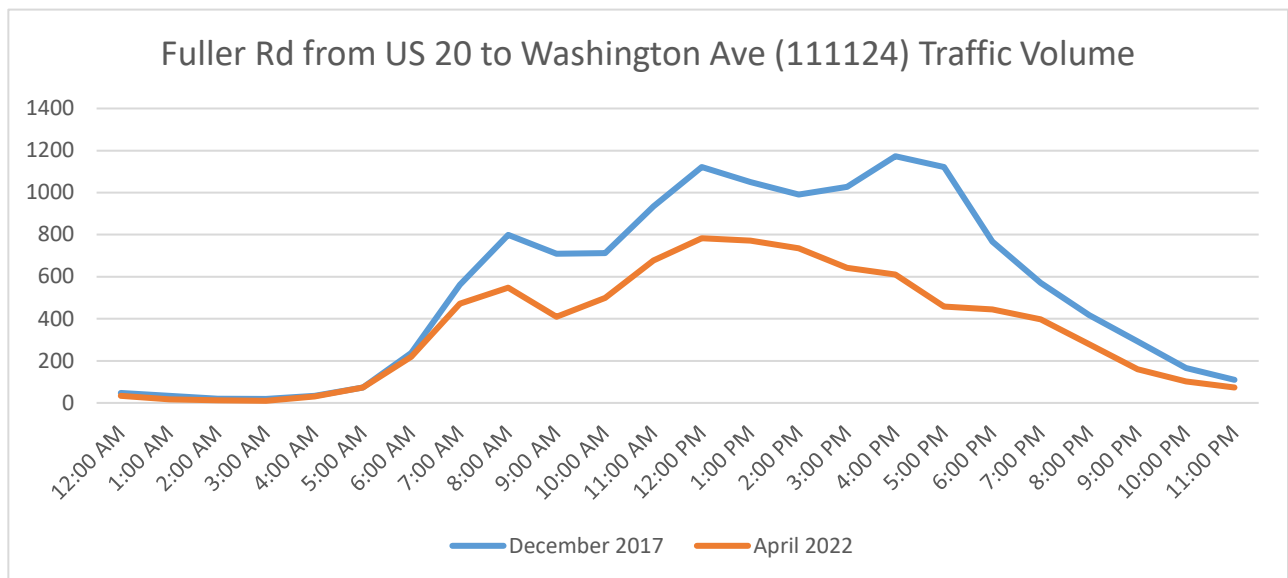
Peak Hour: 4pm-5pm

Peak Hour: 12pm-1pm

Peak Hour Volume: 1,173

Peak Hour Volume: 783

Percent Change: -33.2% 



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

Campus Inner Ring, S Entrance to Bldg 8 (111360) Traffic Volume

16-Minor Urban Arterial

May 2018

April 2022

AADT: 3,699

AADT: 3,777

Percent Change: 2.1%

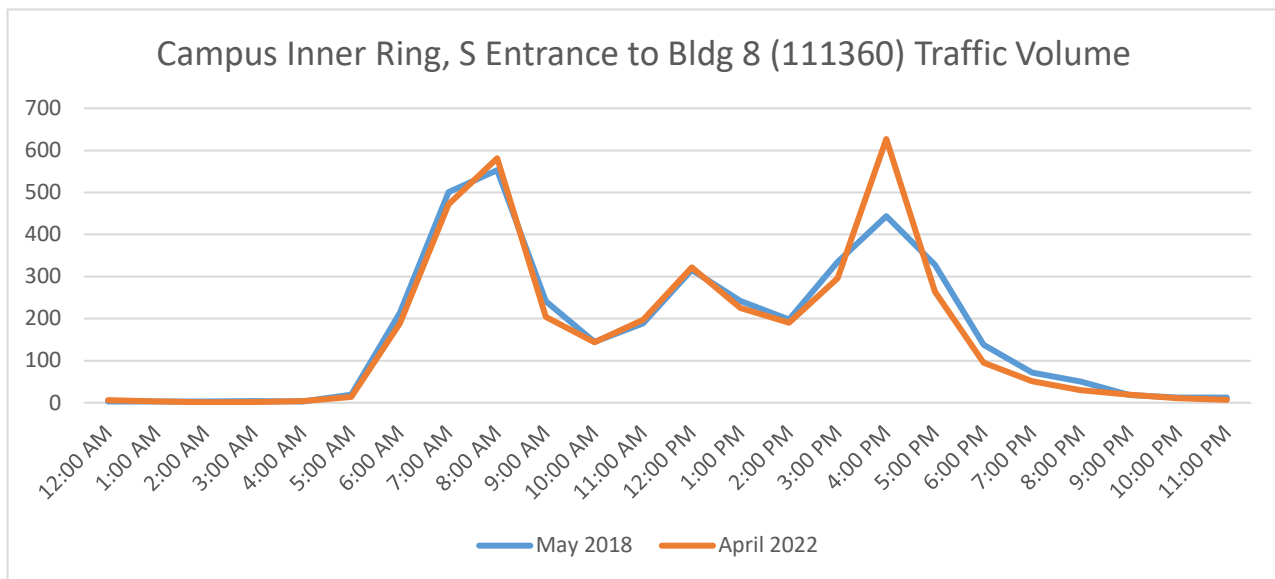
Peak Hour: 8am-9am

Peak Hour: 4pm-5pm

Peak Hour Volume: 553

Peak Hour Volume: 627

Percent Change: 13.4%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

Corp Woods Blvd from SH C67017 to Corp Woods Dr (112046) Traffic Volume

17-Major Urban Collector

October 2018

April 2022

AADT: 3,641

AADT: 1,930

Percent Change: -47.0%



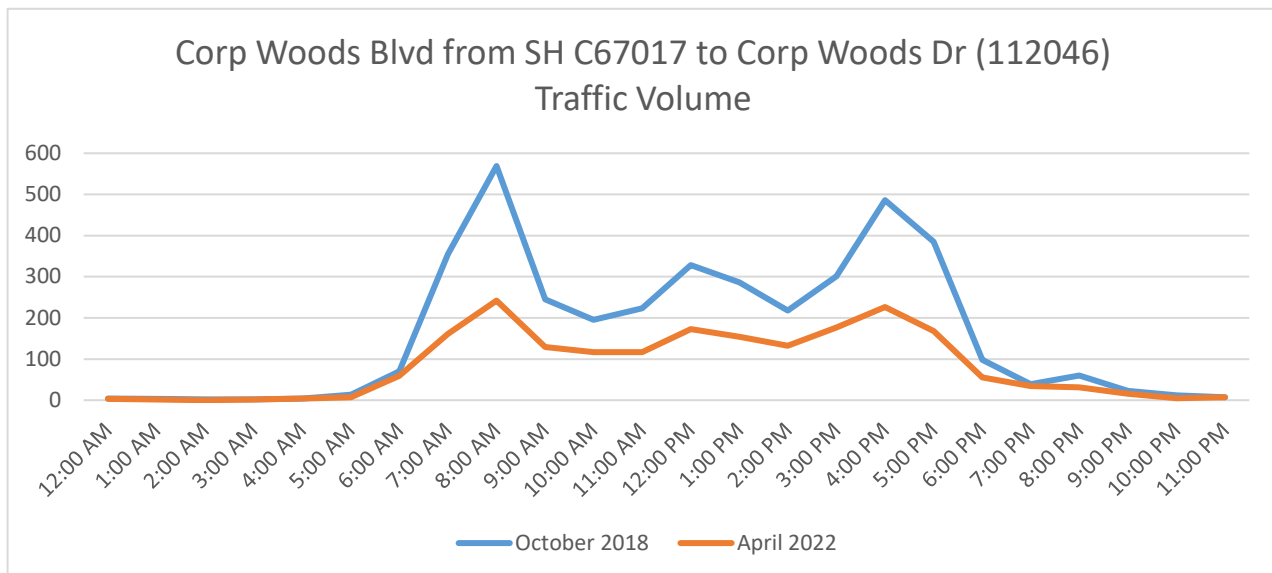
Peak Hour: 8am-9am

Peak Hour: 8am-9am

Peak Hour Volume: 569

Peak Hour Volume: 242

Percent Change: -57.5%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

Old Stage Rd from Thompsons Lake Rd to Berne Altamont Rd (115135) Traffic Volume

09-Rural Local

July 2014

April 2022

AADT: 511

AADT: 479

Percent Change: -6.2%



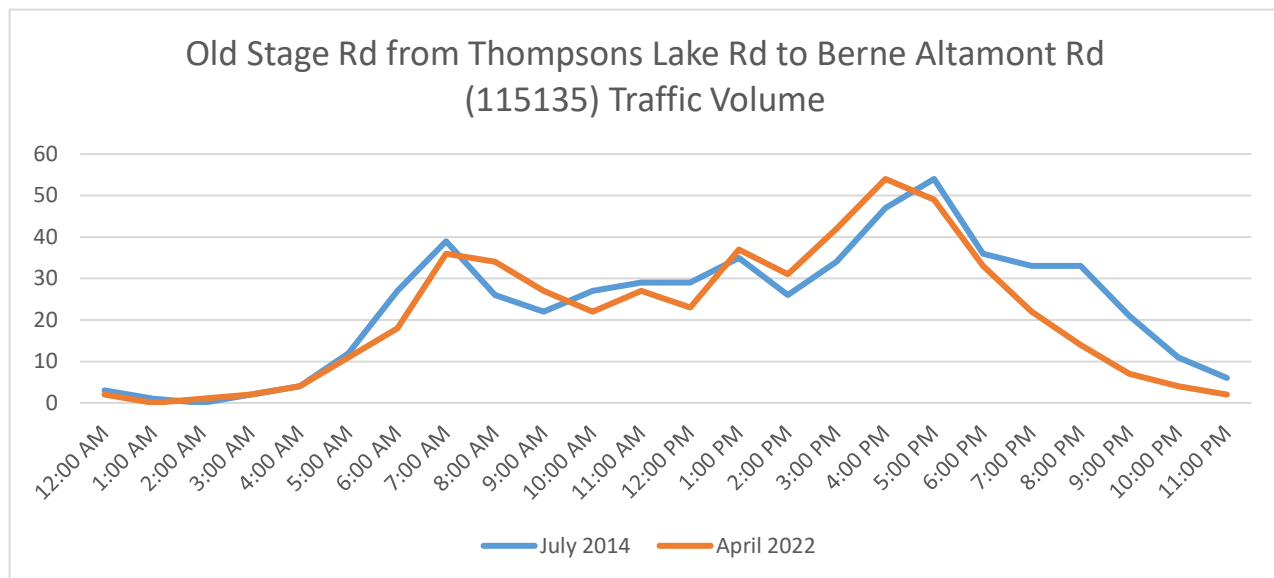
Peak Hour: 5pm-6pm

Peak Hour: 4pm-5pm

Peak Hour Volume: 54

Peak Hour Volume: 54

Percent Change: 0.0%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

School St from Depot Rd to NY 146 (116005) Traffic Volume

17-Major Urban Collector

October 2019

April 2022

AADT: 4,291

AADT: 3,141

Percent Change: -26.8% 

Peak Hour: 7am-8am

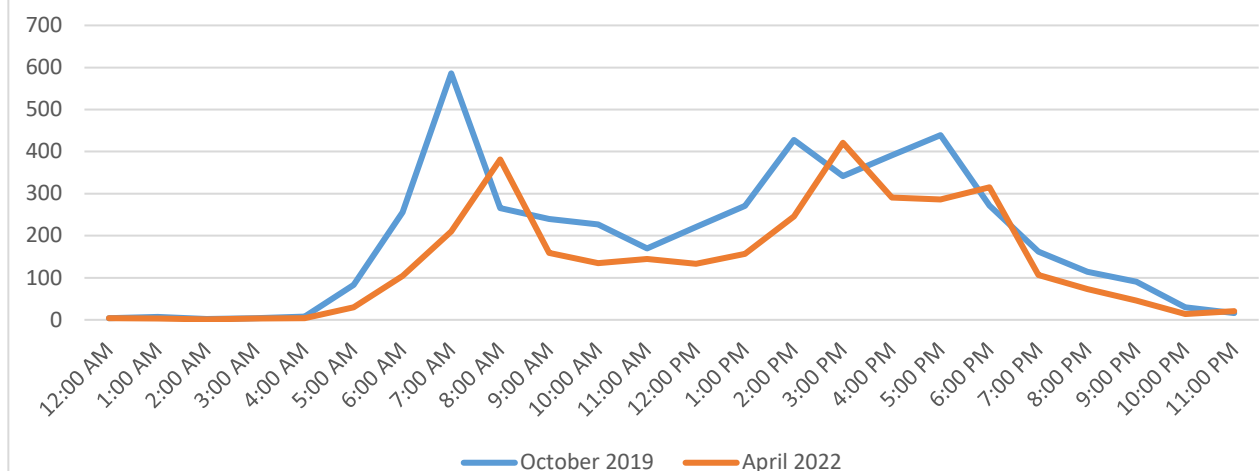
Peak Hour: 3pm-4pm

Peak Hour Volume: 586

Peak Hour Volume: 421

Percent Change: -28.2% 

School St from CR 201 to SR 146 (116005) Traffic Volume



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

Depot Rd from Hennessey Rd to Meadowdale Rd (118361) Traffic Volume

17-Major Urban Collector

April 2017

April 2022

AADT: 2,378

AADT: 2,765

Percent Change: 16.3%



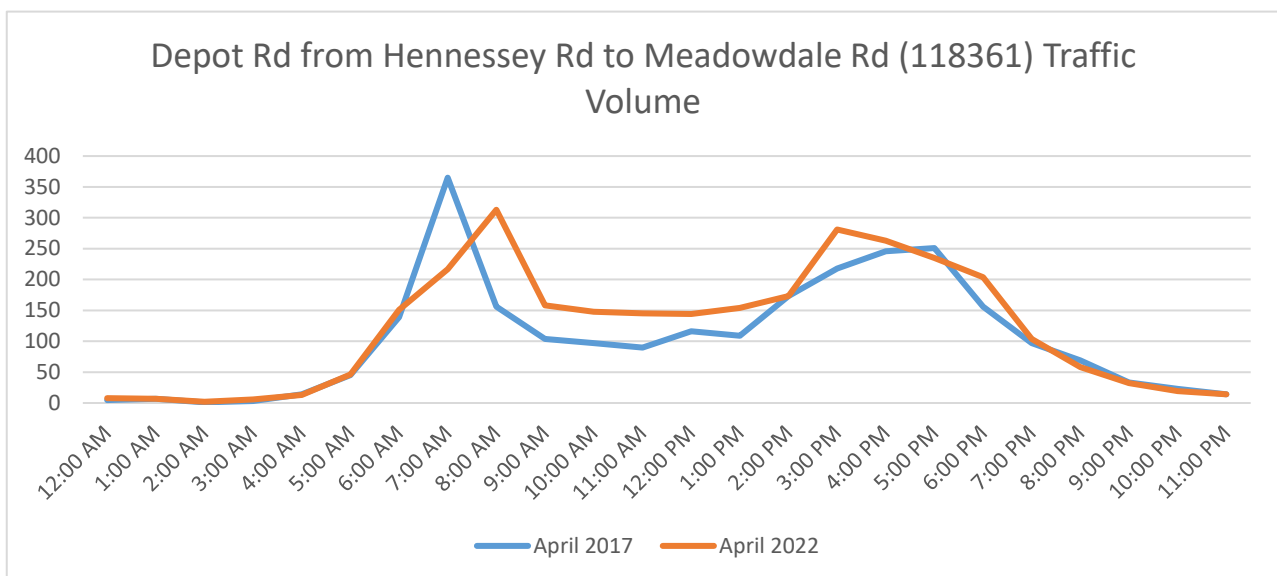
Peak Hour: 7am-8am

Peak Hour: 8am-9am

Peak Hour Volume: 365

Peak Hour Volume: 313

Percent Change: -14.2%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

NY 2 from Rt 351 to Grafton State Pk Acc (140059) Traffic Volume

06-Minor Rural Arterial

August 2016

April 2022

AADT: 4,488

AADT: 5,953

Percent Change: 32.6%



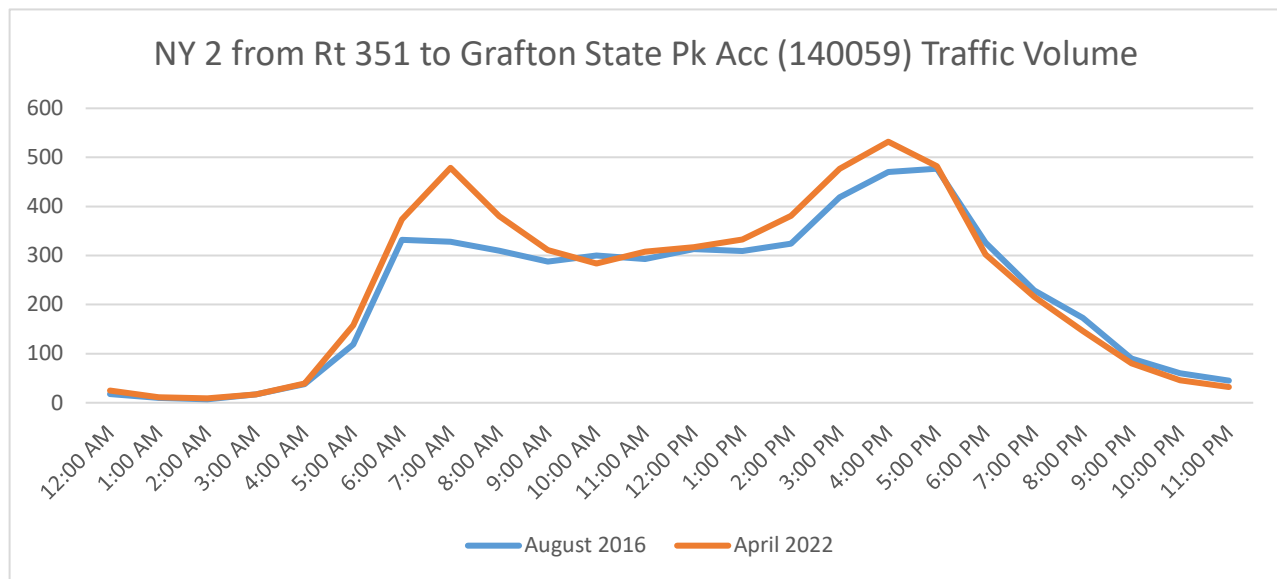
Peak Hour: 5pm-6pm

Peak Hour: 4pm-5pm

Peak Hour Volume: 477

Peak Hour Volume: 532

Percent Change: 11.5%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

NY 136 from Rt 4 to Winter St (140083) Traffic Volume

17-Major Urban Collector

November 2018

April 2022

AADT: 9,800

AADT: 10,592

Percent Change: 8.1% 

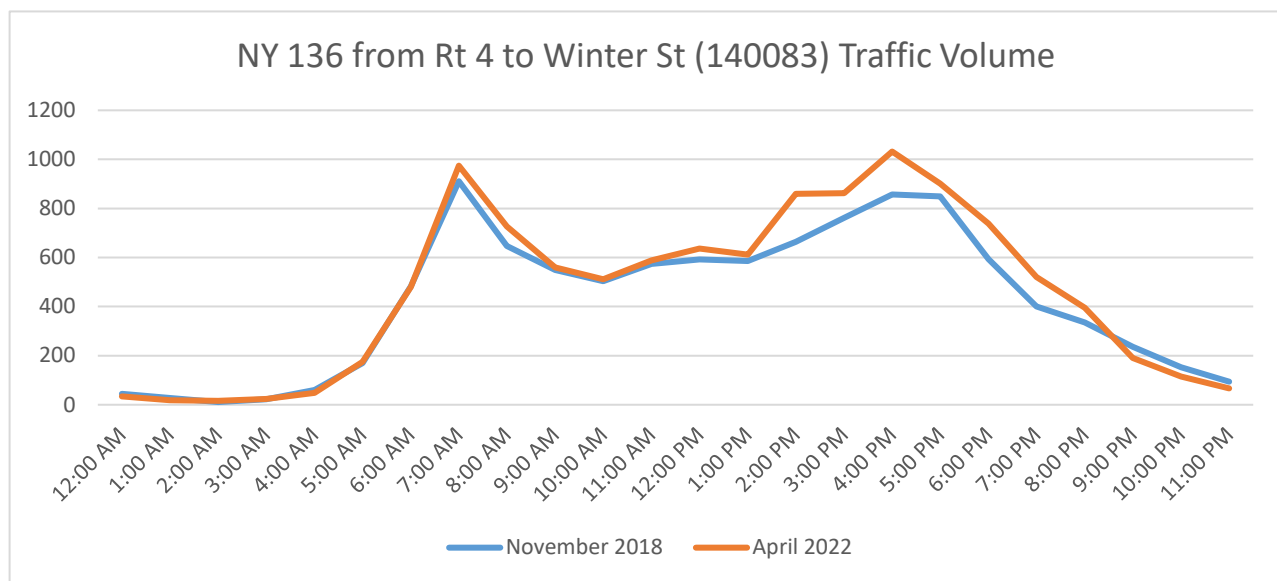
Peak Hour: 7am-8am

Peak Hour: 4pm-5pm

Peak Hour Volume: 911

Peak Hour Volume: 1,032

Percent Change: 13.3% 



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

US 4 from I-90 to Third Ave (140125) Traffic Volume

14-Principal Urban Arterial

December 2019

April 2022

AADT: 23,639

AADT: 15,304

Percent Change: -35.3% 

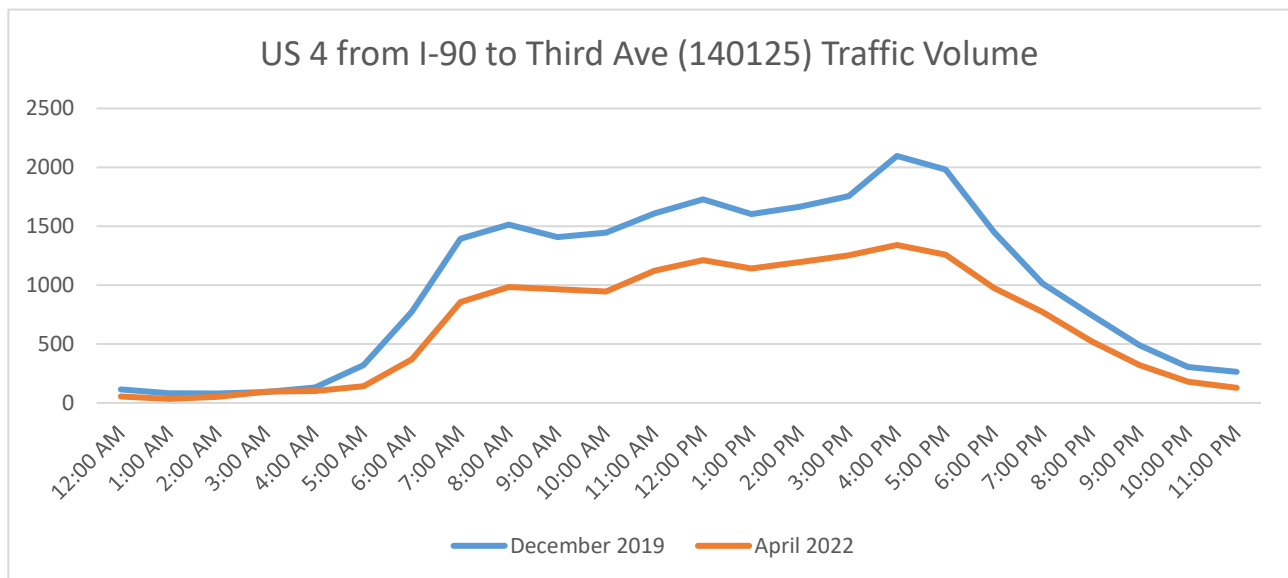
Peak Hour: 4pm-5pm

Peak Hour: 4pm-5pm

Peak Hour Volume: 2,060

Peak Hour Volume: 1,341

Percent Change: -34.9% 



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

US 4 from Third Ave to RT 43 (140131) Traffic Volume

14-Principal Urban Arterial

December 2012

April 2022

AADT: 21,464

AADT: 18,917

Percent Change: -11.9%



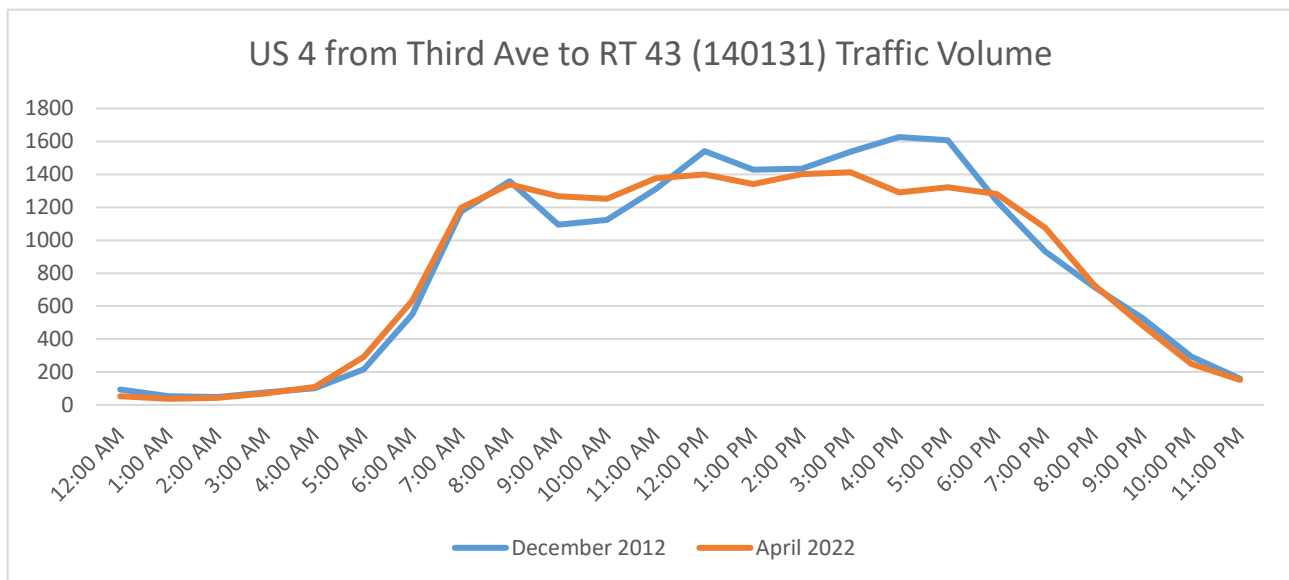
Peak Hour: 4pm-5pm

Peak Hour: 3pm-4pm

Peak Hour Volume: 1,627

Peak Hour Volume: 1,413

Percent Change: -13.2%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

US 9 from I-90 to US 20 (140413) Traffic Volume

16-Minor Urban Arterial

November 2017

April 2022

AADT: 6,221

AADT: 6,364

Percent Change: 2.3%

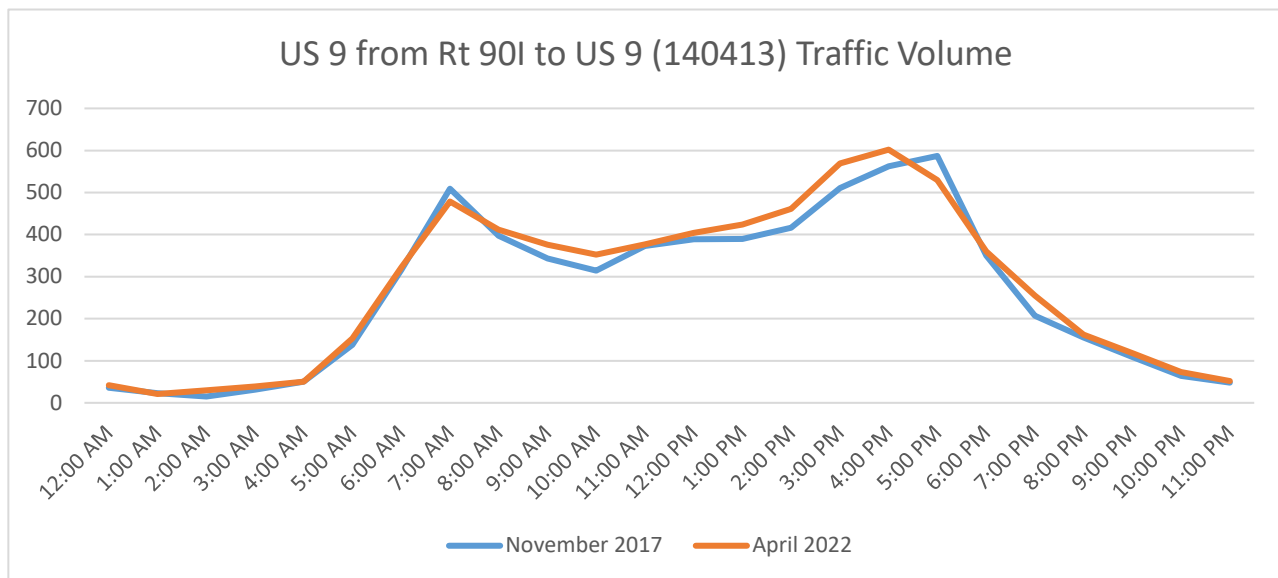
Peak Hour: 5pm-6pm

Peak Hour: 4pm-5pm

Peak Hour Volume: 587

Peak Hour Volume: 602

Percent Change: 2.6%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

NY 7 from NY 278 to Reservoir Lake Rd (140416) Traffic Volume

04-Principal Rural Arterial

November 2016

April 2022

AADT: 11,176

AADT: 11,755

Percent Change: 5.2% 

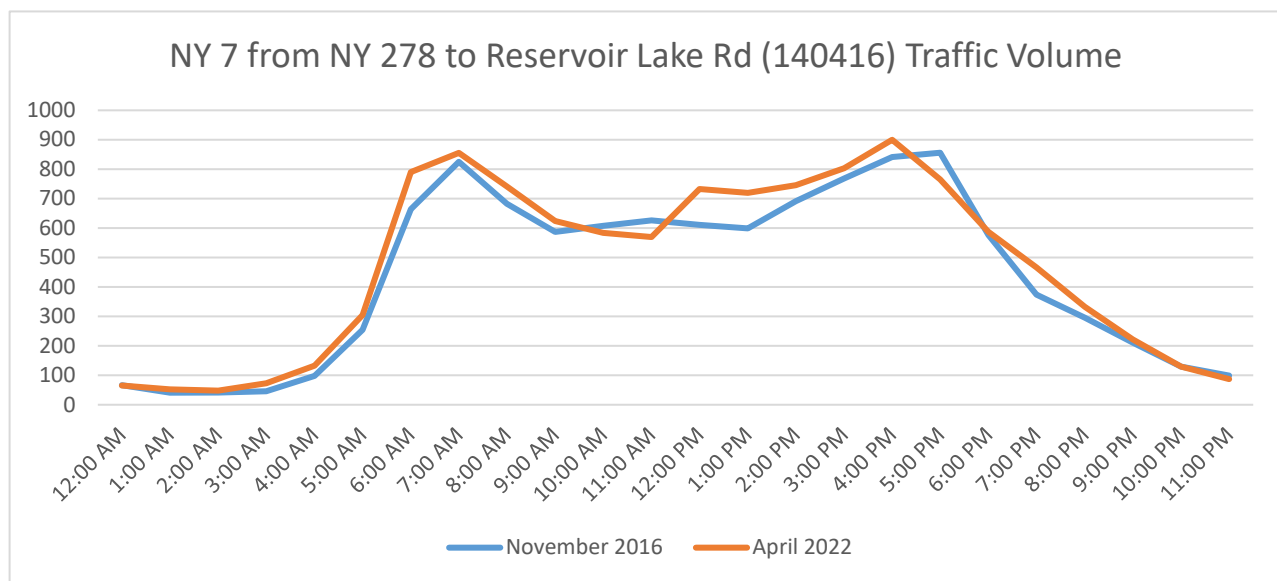
Peak Hour: 5pm-6pm

Peak Hour: 4pm-5pm

Peak Hour Volume: 856

Peak Hour Volume: 900

Percent Change: 5.1% 



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

15th St from Hoosick St to Congress St (141105) Traffic Volume

14-Principal Urban Arterial

April 2018

April 2022

AADT: 7,248

AADT: 5,632

Percent Change: -22.3% 

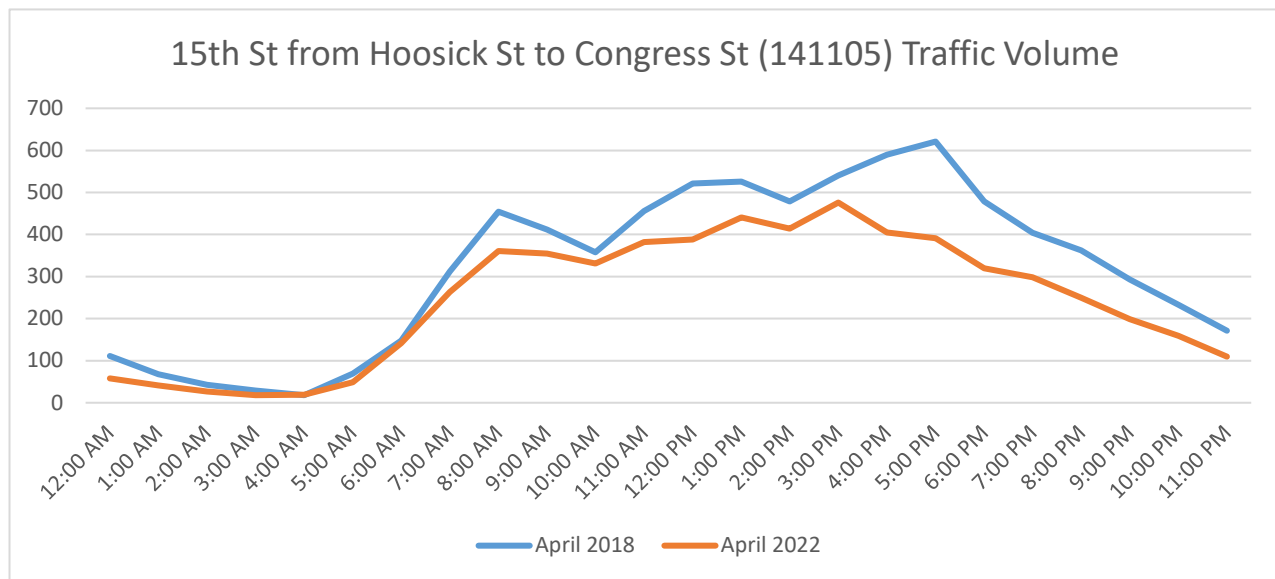
Peak Hour: 5pm-6pm

Peak Hour: 5pm-6pm

Peak Hour Volume: 621

Peak Hour Volume: 476

Percent Change: -23.3% 



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

8th St from Congress St to Federal St (142000) Traffic Volume

17-Major Urban Collector

December 2019

April 2022

AADT: 8,361

AADT: 7,797

Percent Change: -6.8%



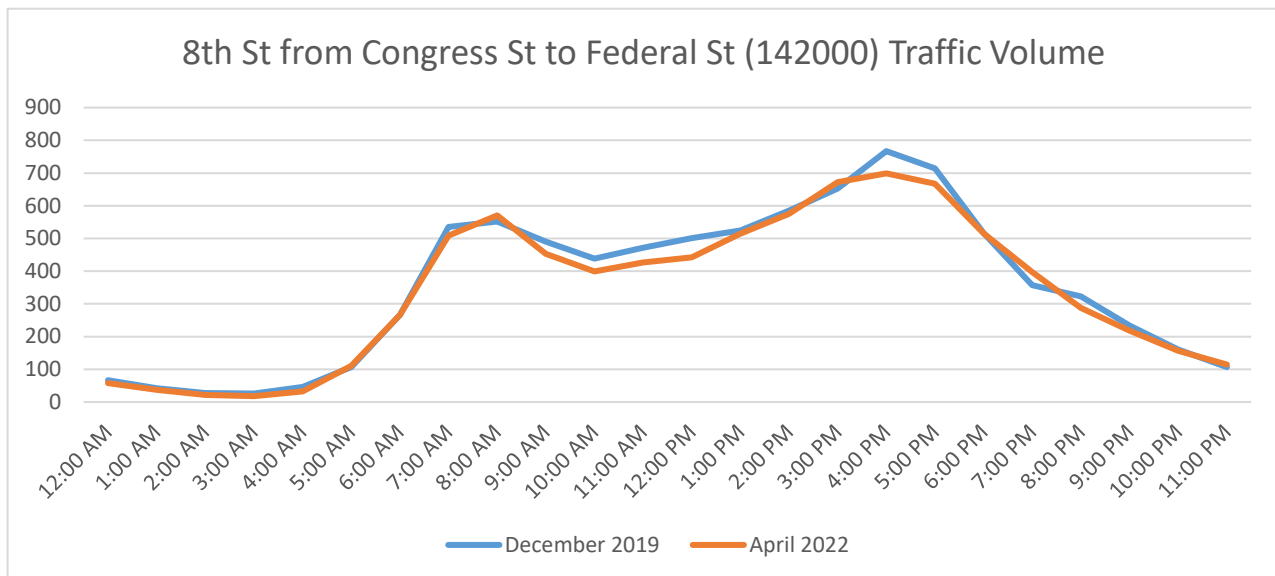
Peak Hour: 4pm-5pm

Peak Hour: 4pm-5pm

Peak Hour Volume: 767

Peak Hour Volume: 699

Percent Change: -8.9%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

Tamarac Rd from NY 2 to Brunswick Town Line (148137) Traffic Volume

07-Major Rural Connector

November 2017

April 2022

AADT: 2,813

AADT: 2,778

Percent Change: -1.3%

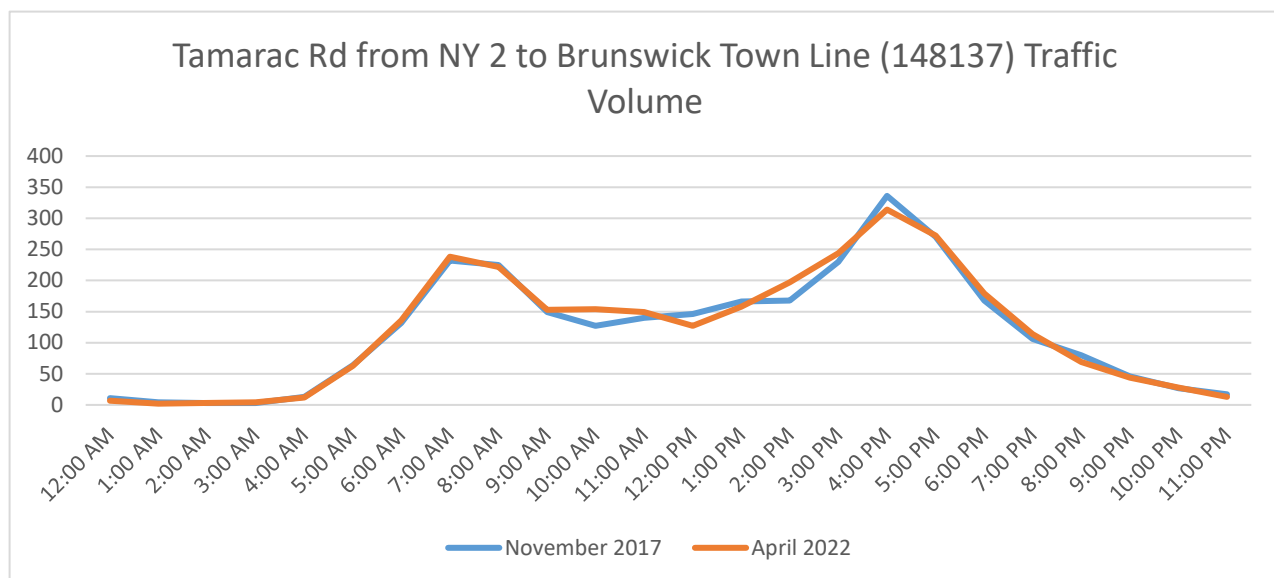
Peak Hour: 4pm-5pm

Peak Hour: 4pm-5pm

Peak Hour Volume: 336

Peak Hour Volume: 314

Percent Change: -6.5%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

NY 236 from Rt 9 to Rt 146 (150297) Traffic Volume

16-Minor Urban Arterial

May 2019

April 2022

AADT: 9,089

AADT: 9,637

Percent Change: 6.0%



Peak Hour: 7am-8am

Peak Hour: 5pm-6pm

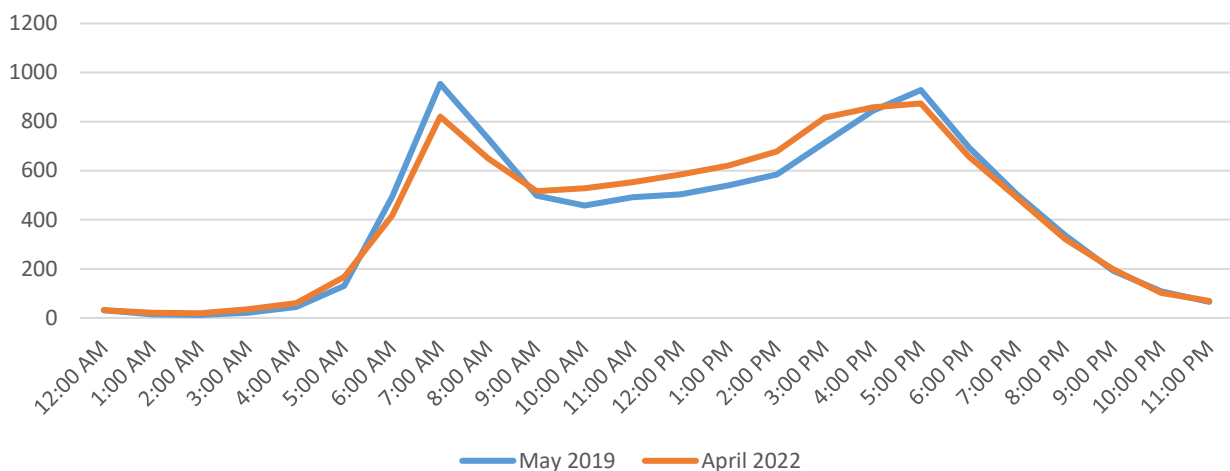
Peak Hour Volume: 954

Peak Hour Volume: 874

Percent Change: -8.4%



NY 236 from Rt 9 to Rt 146 (150297) Traffic Volume



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

NY 67 from Rt 9 to Stillwater Town Line (150310) Traffic Volume

16-Minor Urban Arterial

April 2019

April 2022

AADT: 4,595

AADT: 4,612

Percent Change: 0.4%

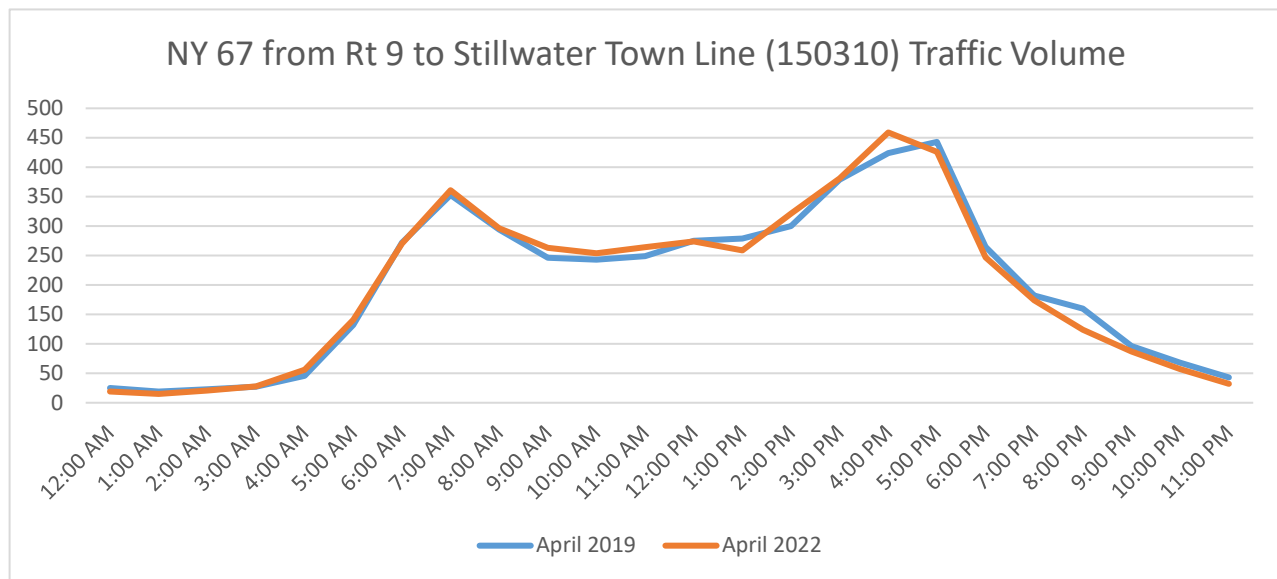
Peak Hour: 5pm-6pm

Peak Hour: 4pm-5pm

Peak Hour Volume: 443

Peak Hour Volume: 459

Percent Change: 3.6%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

Ballston Ave from Geyser Rd to E Congress St (150340) Traffic Volume

14-Principal Urban Arterial

November 2017

April 2022

AADT: 11,592

AADT: 11,876

Percent Change: 2.4%

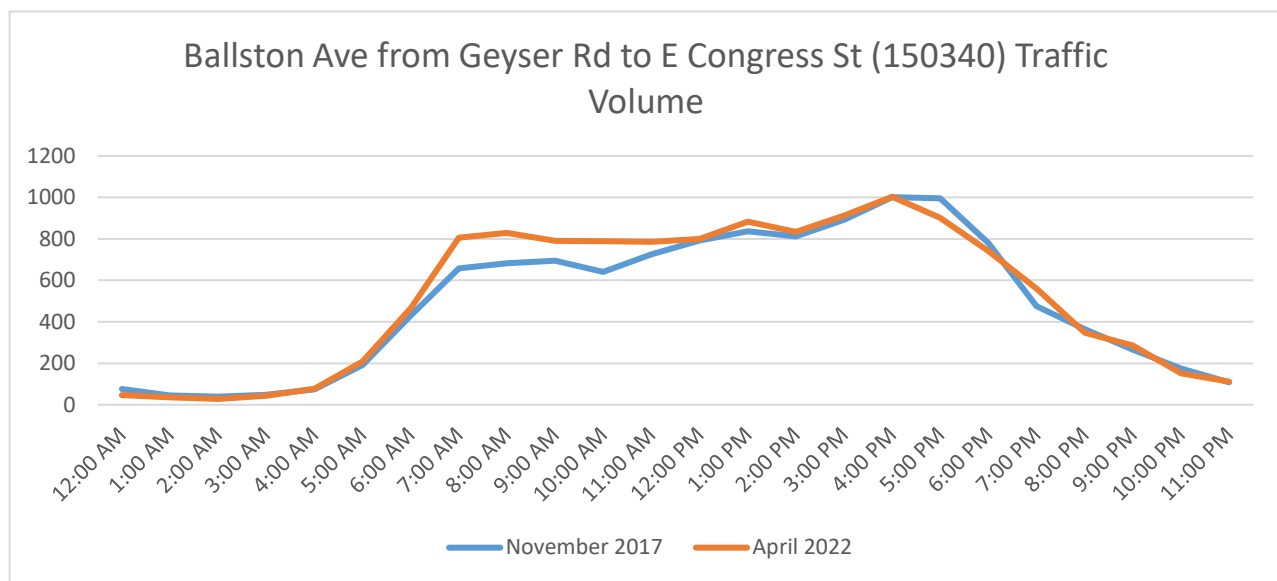
Peak Hour: 4pm-5pm

Peak Hour: 4pm-5pm

Peak Hour Volume: 1,001

Peak Hour Volume: 1,003

Percent Change: 0.2%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

NY 29 from NY 147 to Rocky City Rd (150425) Traffic Volume

04-Principal Rural Arterial

May 2016

April 2022

AADT: 6,796

AADT: 6,446

Percent Change: -5.1%



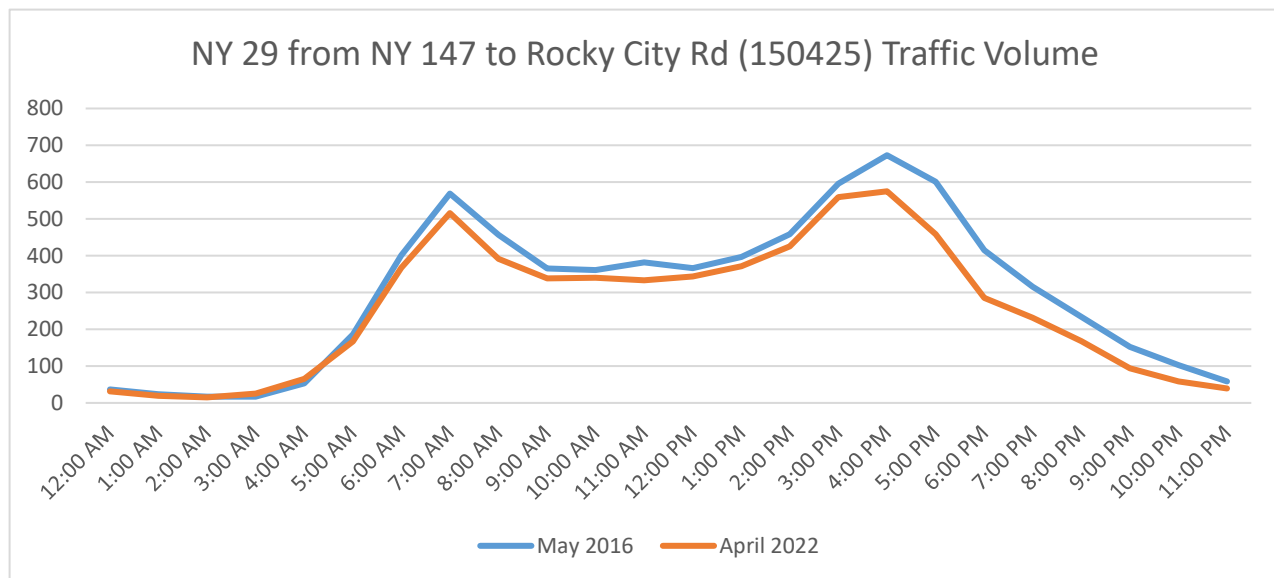
Peak Hour: 4pm-5pm

Peak Hour: 4pm-5pm

Peak Hour Volume: 673

Peak Hour Volume: 575

Percent Change: -14.6%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

NY 67 from Saratoga County Line to NY 147 (150494) Traffic Volume

04-Principal Rural Arterial

July 2018

April 2022

AADT: 6,109

AADT: 7,079

Percent Change: 15.9%



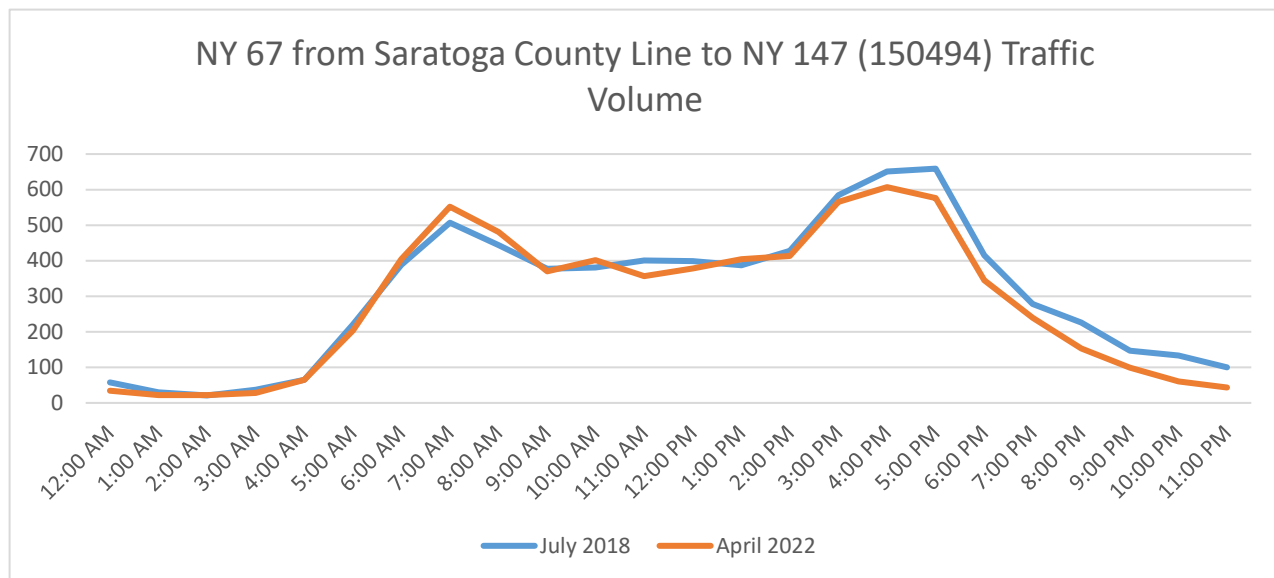
Peak Hour: 5pm-6pm

Peak Hour: 4pm-5pm

Peak Hour Volume: 659

Peak Hour Volume: 607

Percent Change: -7.9%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

N Broadway from MacAdam to Van Dam St (152029) Traffic Volume

17-Major Urban Collector

August 2019

April 2022

AADT: 2,424

AADT: 1,914

Percent Change: -21.0% 

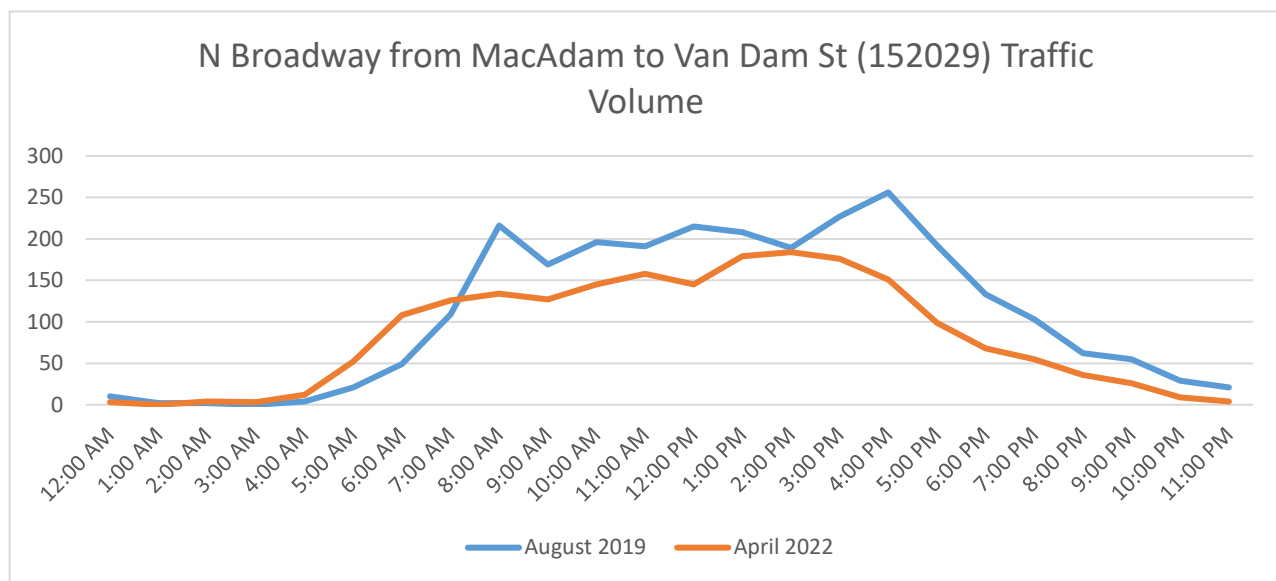
Peak Hour: 4pm-5pm

Peak Hour: 2pm-3pm

Peak Hour Volume: 256

Peak Hour Volume: 184

Percent Change: -28.1% 



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

Clinton St from Daniels Rd to Saratoga Town Line (156024) Traffic Volume

19-Urban Local

November 2017

April 2022

AADT: 3,689

AADT: 3,177

Percent Change: -13.9%



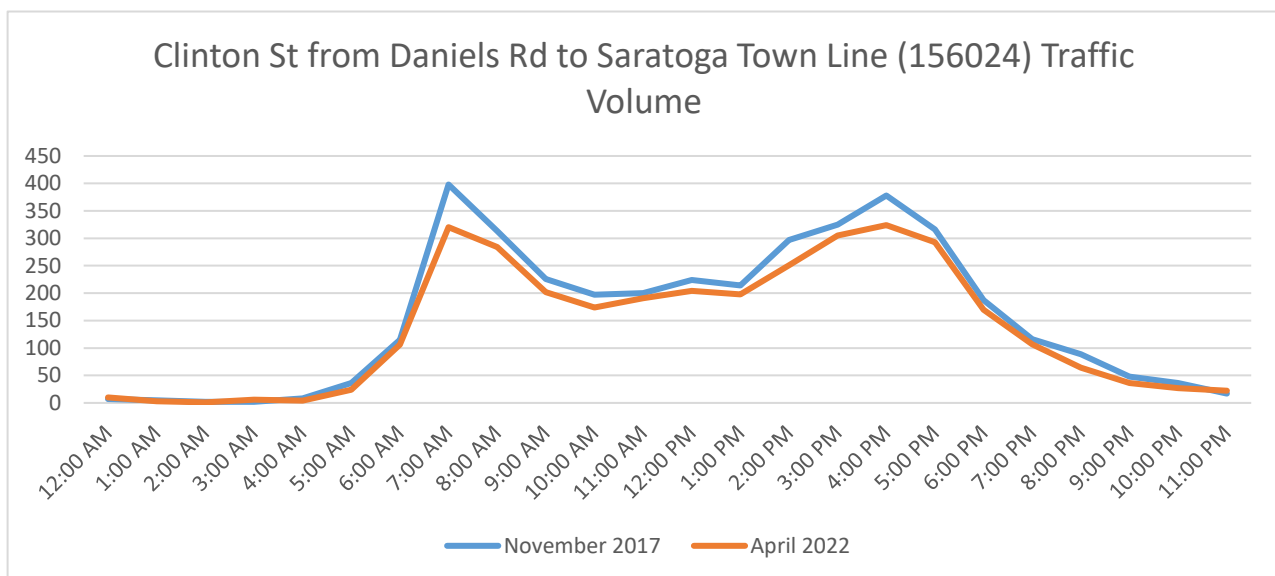
Peak Hour: 7am-8am

Peak Hour: 4pm-5pm

Peak Hour Volume: 398

Peak Hour Volume: 324

Percent Change: -18.6%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

Luther Forest B from NY 67 to Stillwater Town Line (156052) Traffic Volume

19-Urban Local

October 2014

April 2022

AADT: 4,579

AADT: 2,427

Percent Change: -47.0%



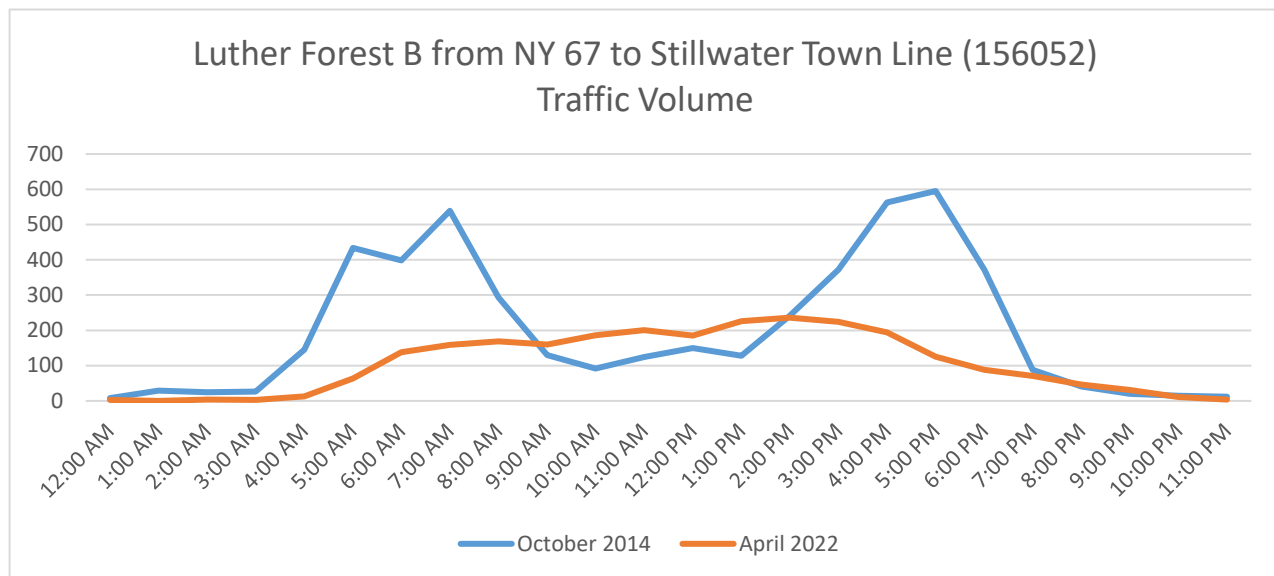
Peak Hour: 5pm-6pm

Peak Hour: 2pm-3pm

Peak Hour Volume: 595

Peak Hour Volume: 236

Percent Change: -60.3%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

Grooms Rd from I-87 Ramp to NY 9 (158080) Traffic Volume

16-Minor Urban Arterial

August 2018

April 2022

AADT: 13,820

AADT: 12,234

Percent Change: -11.5%



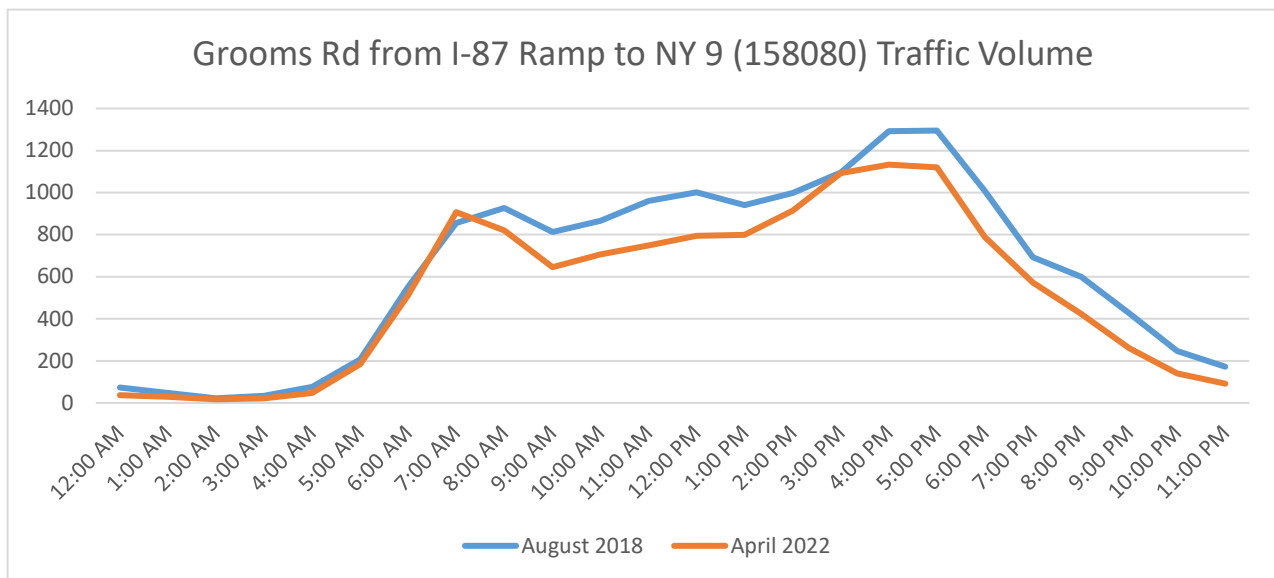
Peak Hour: 5pm-6pm

Peak Hour: 4pm-5pm

Peak Hour Volume: 1,295

Peak Hour Volume: 1,133

Percent Change: -12.5%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

Rockwell St from S Shore Rd to Stony Creek Rd (158200) Traffic Volume

08-Minor Rural Collector

May 2017

April 2022

AADT: 1,111

AADT: 998

Percent Change: -10.2%



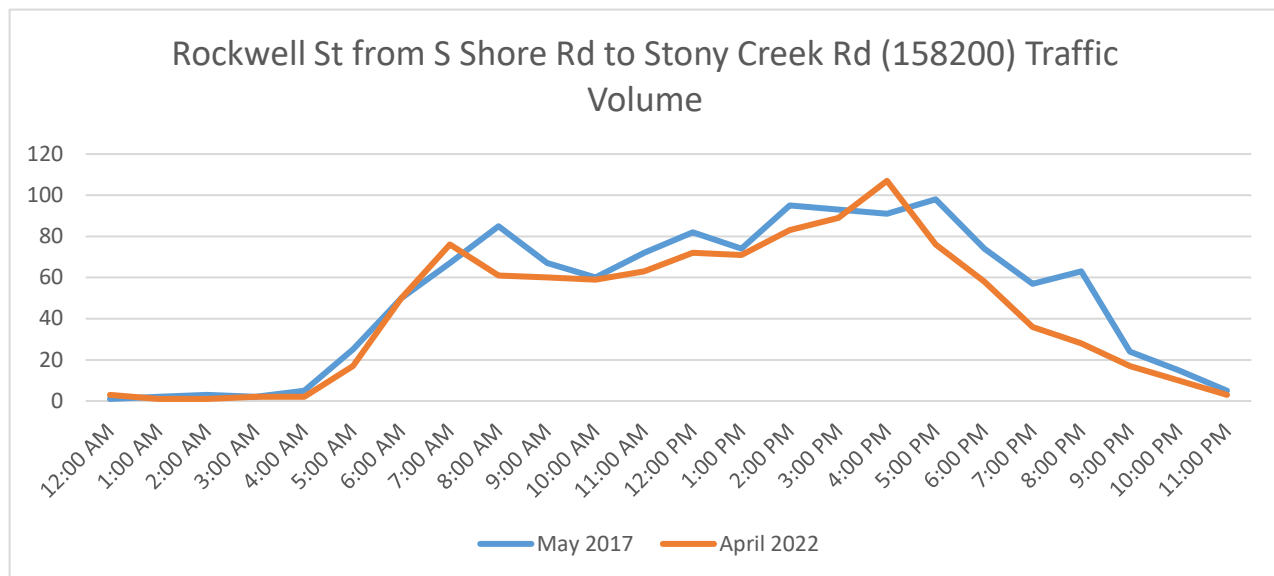
Peak Hour: 5pm-6pm

Peak Hour: 4pm-5pm

Peak Hour Volume: 98

Peak Hour Volume: 107

Percent Change: 9.2%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

S Shore Rd from Batch Bridge to W Mountain Rd (158215) Traffic Volume

08-Minor Rural Collector

May 2017

April 2022

AADT: 744

AADT: 299

Percent Change: -59.8%



Peak Hour: 4pm-5pm

Peak Hour: 4pm-5pm

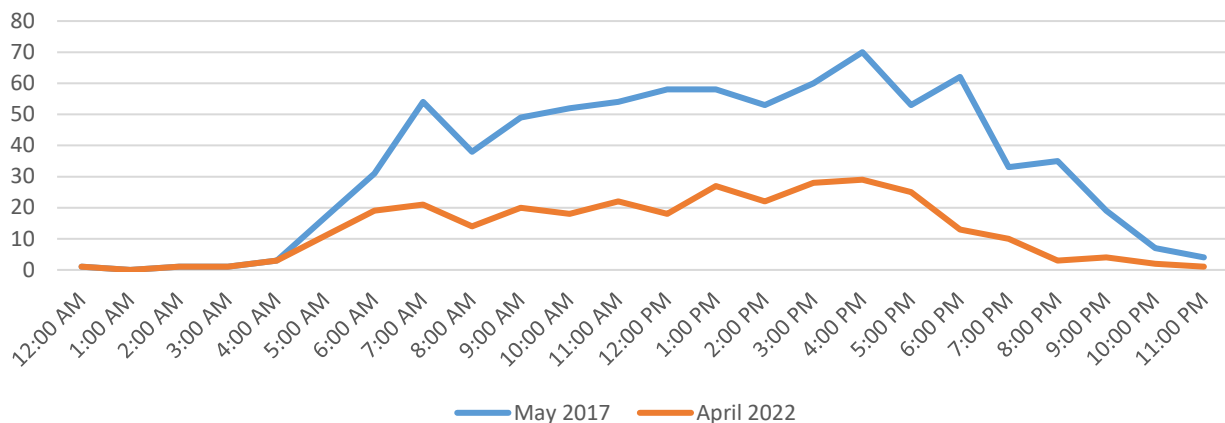
Peak Hour Volume: 70

Peak Hour Volume: 29

Percent Change: -58.6%



S Shore Rd from Batch Bridge to W Mountain Rd (158215) Traffic Volume



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

Daniels Rd from Rt 9N to Wilton Town Line (158306) Traffic Volume

17-Major Urban Collector

May 2016

April 2022

AADT: 2,294

AADT: 2,245

Percent Change: -2.2%

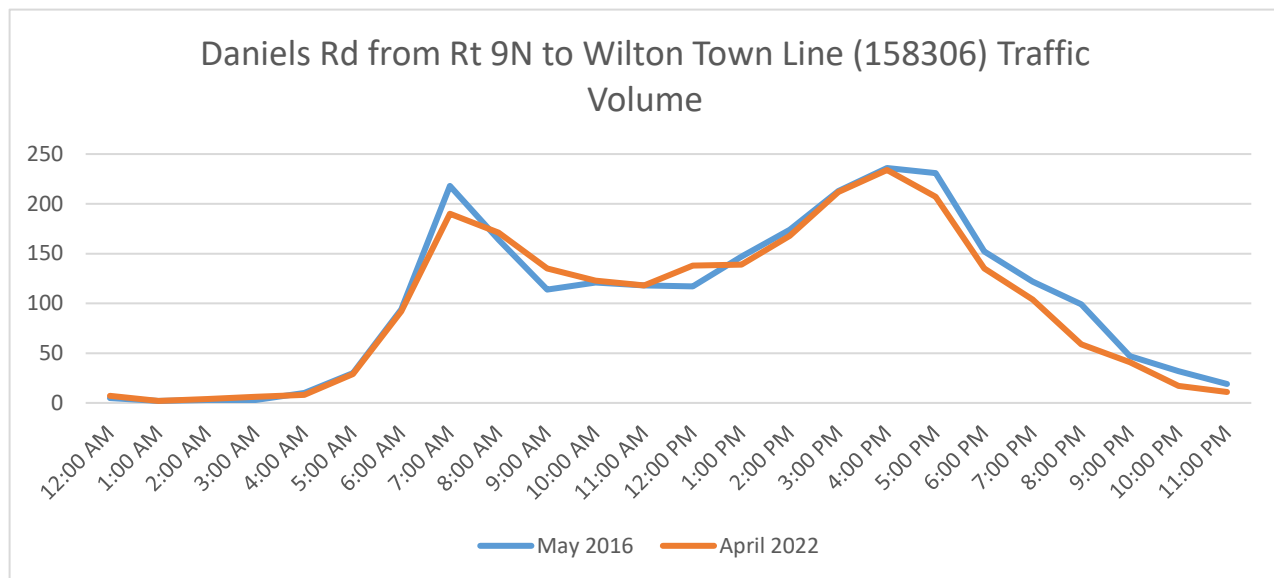
Peak Hour: 4pm-5pm

Peak Hour: 4pm-5pm

Peak Hour Volume: 236

Peak Hour Volume: 234

Percent Change: -0.8%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

Mohawk Ave from Rt 50 Scotia to Washington Ave (160010) Traffic Volume

14-Principal Urban Arterial

October 2017

April 2022

AADT: 23,366

AADT: 21,457

Percent Change: -8.2%



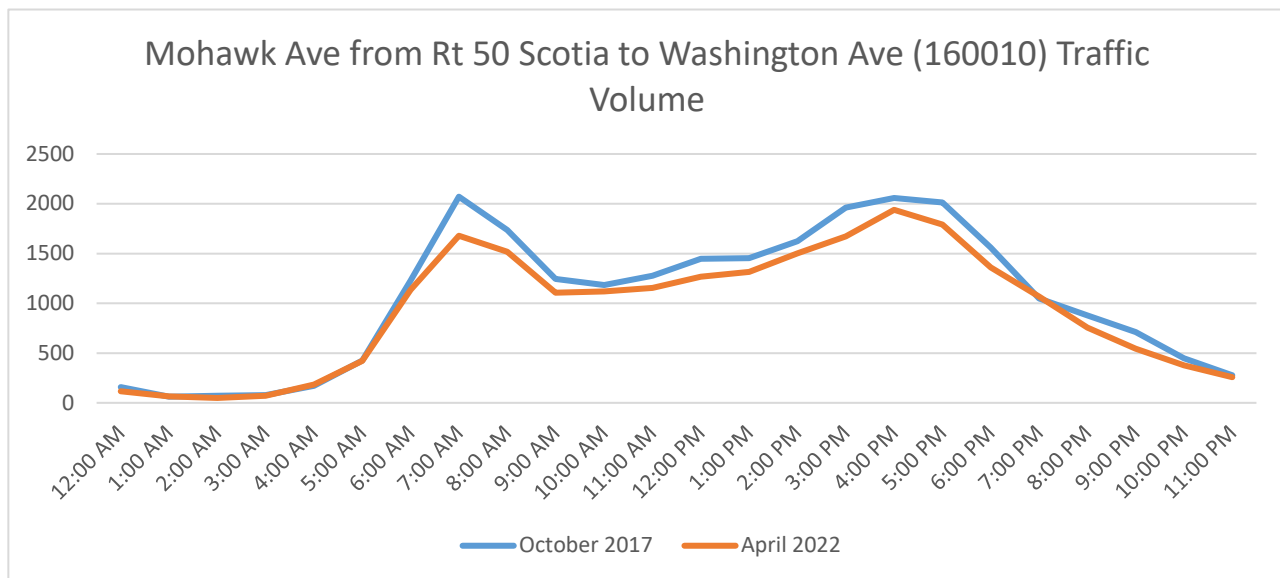
Peak Hour: 7am-8am

Peak Hour: 4pm-5pm

Peak Hour Volume: 2,071

Peak Hour Volume: 1,939

Percent Change: -6.4%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

NY 890 from Exit 1B Ramp to Rt 5 (160048) Traffic Volume

12-Principal Urban Arterial, Freeway/Expressway

October 2017

April 2022

AADT: 18,865

AADT: 15,604

Percent Change: -17.3% 

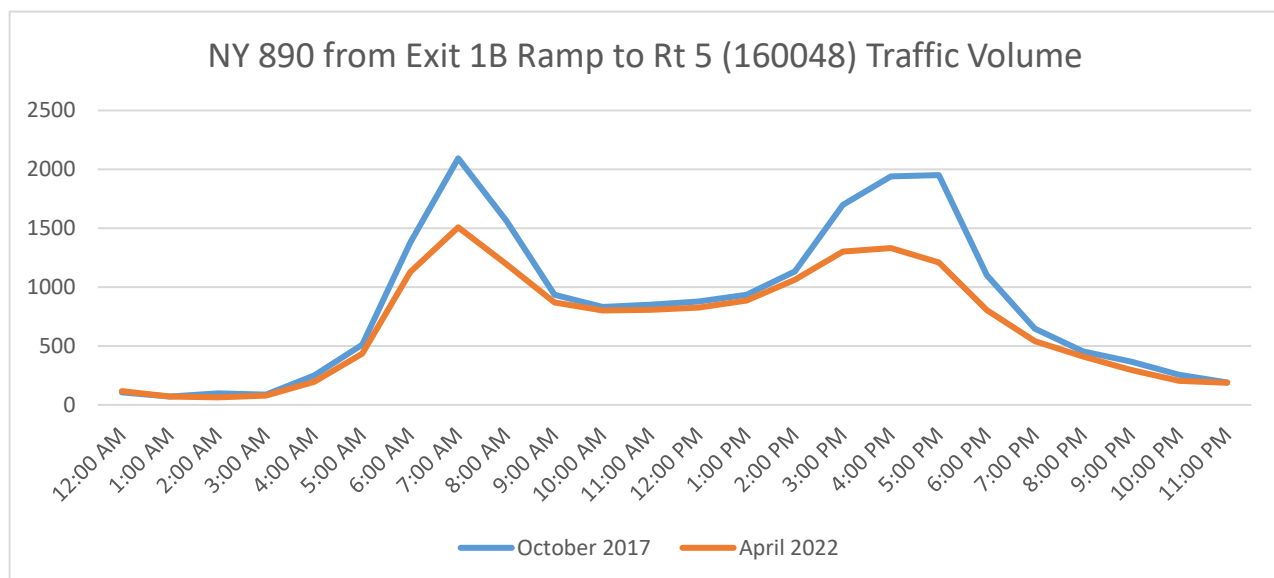
Peak Hour: 7am-8am

Peak Hour: 7am-8am

Peak Hour Volume: 2,094

Peak Hour Volume: 1,508

Percent Change: -28.0% 



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

NY 7 from I-88 Access to Rt 337 (160233) Traffic Volume

14-Principal Urban Arterial

November 2015

April 2022

AADT: 12,555

AADT: 11,452

Percent Change: -8.8%



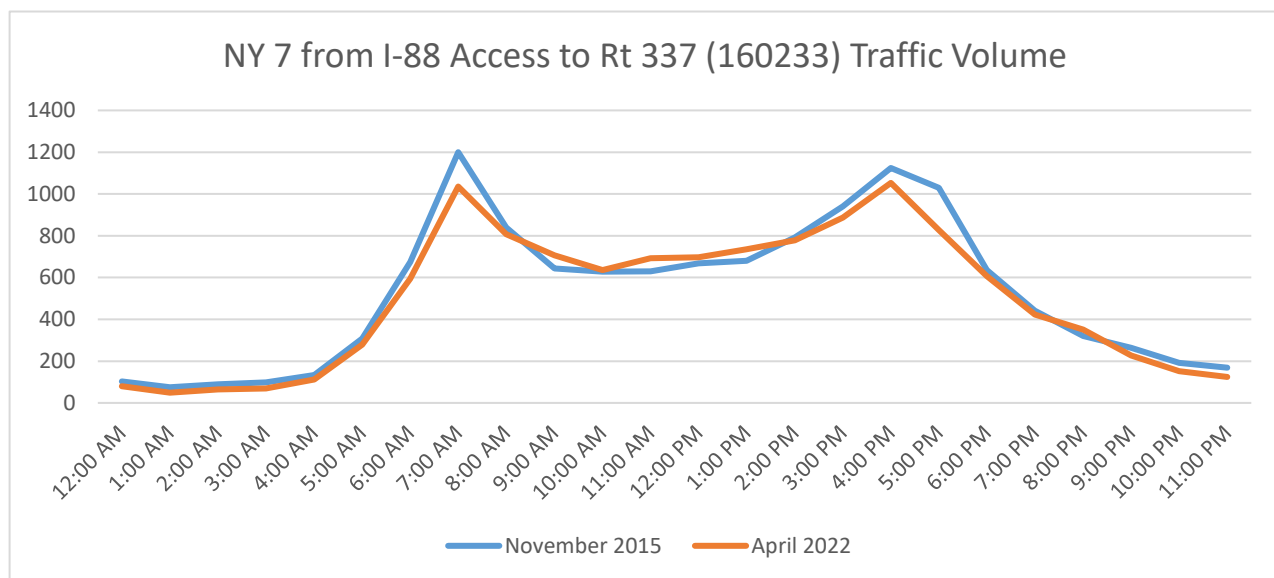
Peak Hour: 7am-8am

Peak Hour: 4pm-5pm

Peak Hour Volume: 1,200

Peak Hour Volume: 1,053

Percent Change: -12.3%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

NY 5 from Rt 890 to Rt 147 (160278) Traffic Volume

14-Principal Urban Arterial

July 2018

April 2022

AADT: 4,550

AADT: 3,912

Percent Change: -14.0%



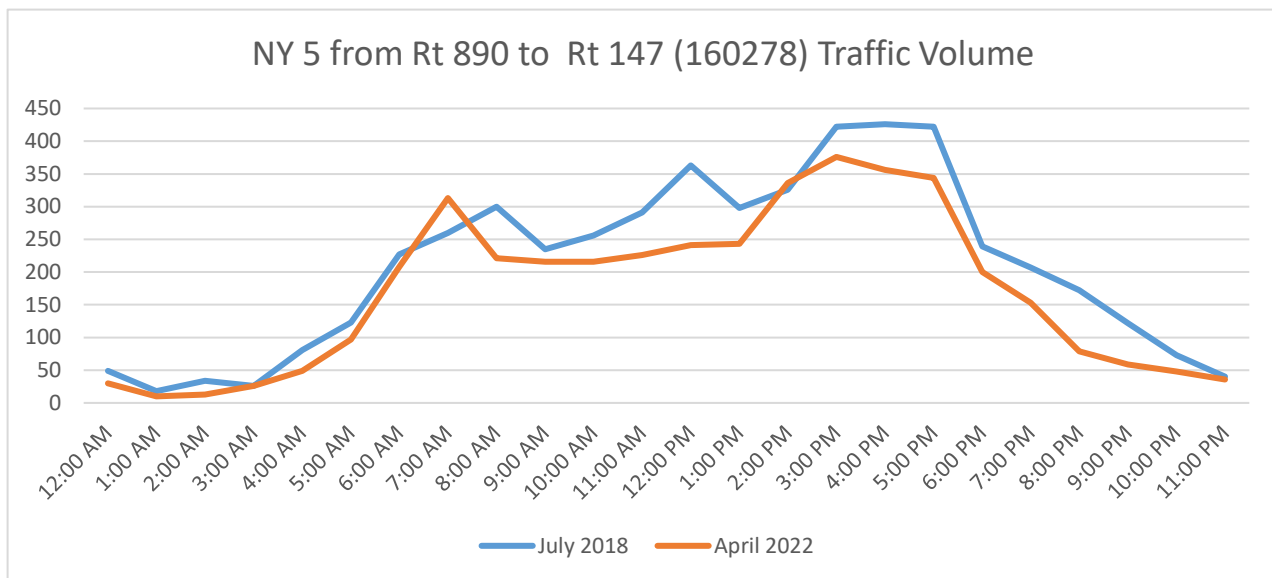
Peak Hour: 4pm-5pm

Peak Hour: 3pm-4pm

Peak Hour Volume: 426

Peak Hour Volume: 376

Percent Change: -11.7%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

Nott St from Erie Blvd to Rosa Rd (161262) Traffic Volume

16-Minor Urban Arterial

July 2018

April 2022

AADT: 10,695

AADT: 11,904

Percent Change: 11.3%



Peak Hour: 5pm-6pm

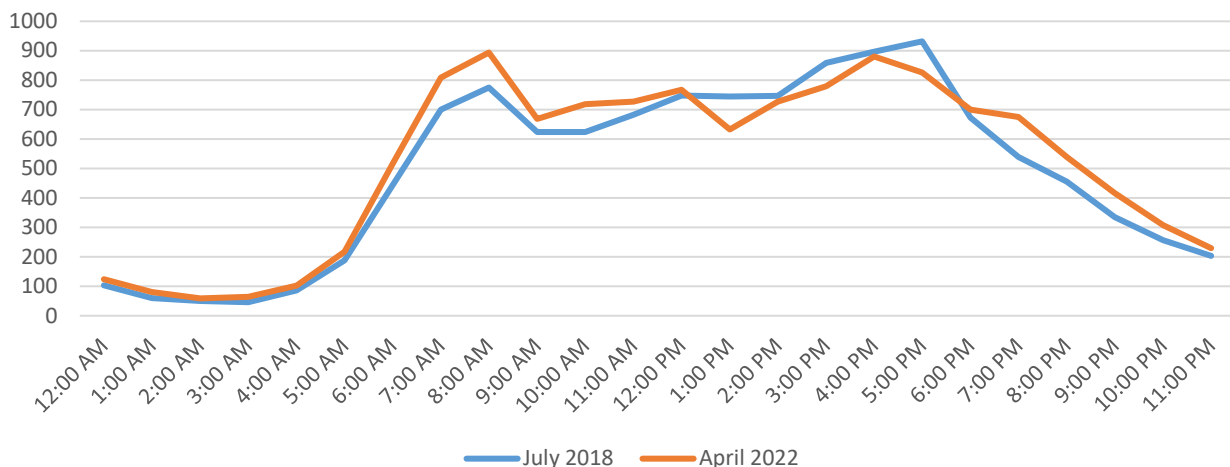
Peak Hour: 8am-9am

Peak Hour Volume: 932

Peak Hour Volume: 894

Percent Change: -4.1%

Nott St from Erie Blvd to Rosa Rd (161262) Traffic Volume



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

Union St from Seward Pl to Nott Ter (161272) Traffic Volume

16-Minor Urban Arterial

July 2010

April 2022

AADT: 11,668

AADT: 10,452

Percent Change: -10.4%



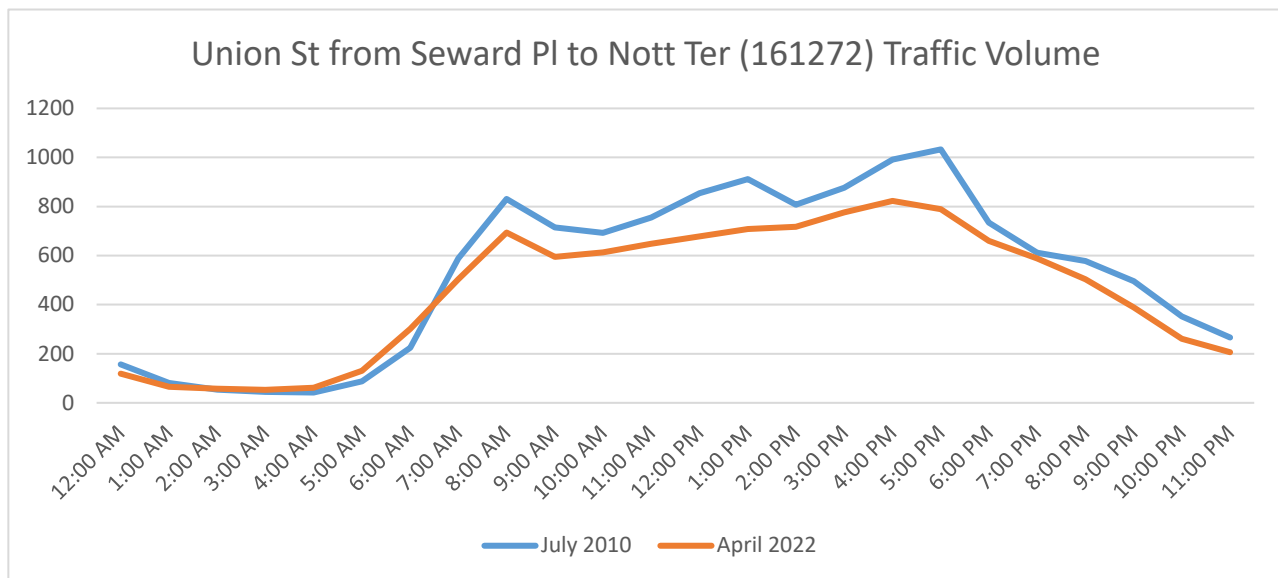
Peak Hour: 5pm-6pm

Peak Hour: 4pm-5pm

Peak Hour Volume: 1,033

Peak Hour Volume: 823

Percent Change: -20.3%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.

Hetcheltown Rd from NY 914V to NY 50 (168113) Traffic Volume

16-Minor Urban Arterial

March 2014

April 2022

AADT: 5,437

AADT: 6,686

Percent Change: 23.0%



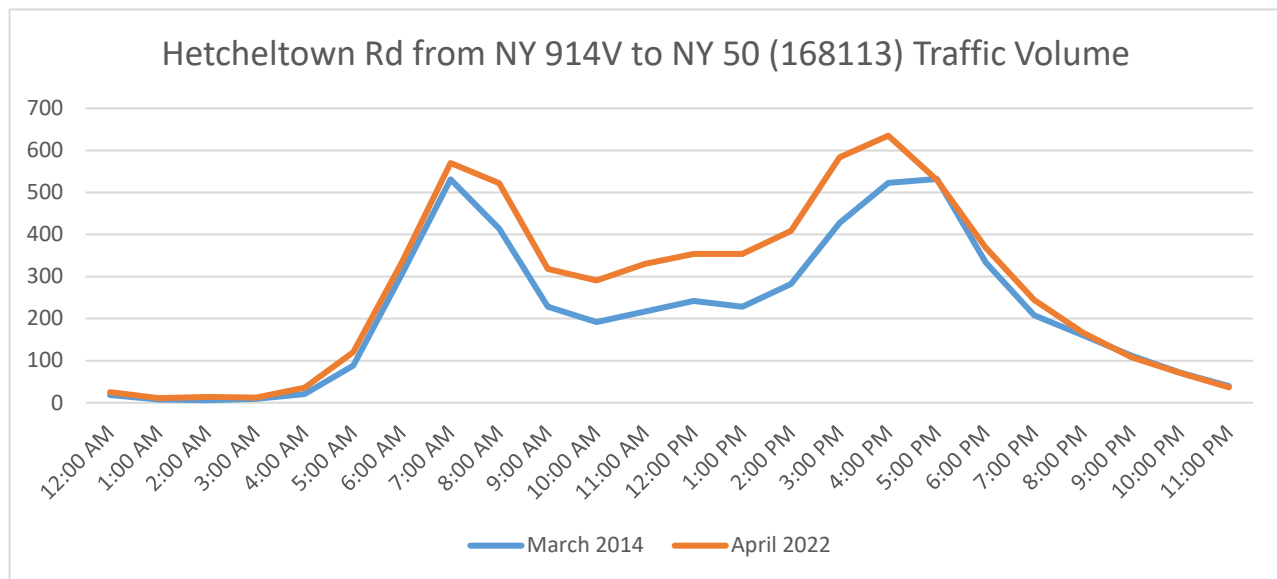
Peak Hour: 5pm-6pm

Peak Hour: 4pm-5pm

Peak Hour Volume: 532

Peak Hour Volume: 635

Percent Change: 19.4%



*AADT is adjusted for seasonality. Time of day graphs are raw data counts.