

2016 New York City Screenline Traffic Flow



Bill de Blasio
Mayor



Henry Gutman
Commissioner

A member of the New York Metropolitan Transportation Council

2016 New York City Screenline Traffic Flow

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2016
NEW YORK CITY
SCREENLINE TRAFFIC FLOW

2,262,402

**daily vehicles crossed the
32 monitored City border
screenline locations in
2016.**

0.8% Increase

**from the 2,243,627 daily
vehicles recorded in 2015.**

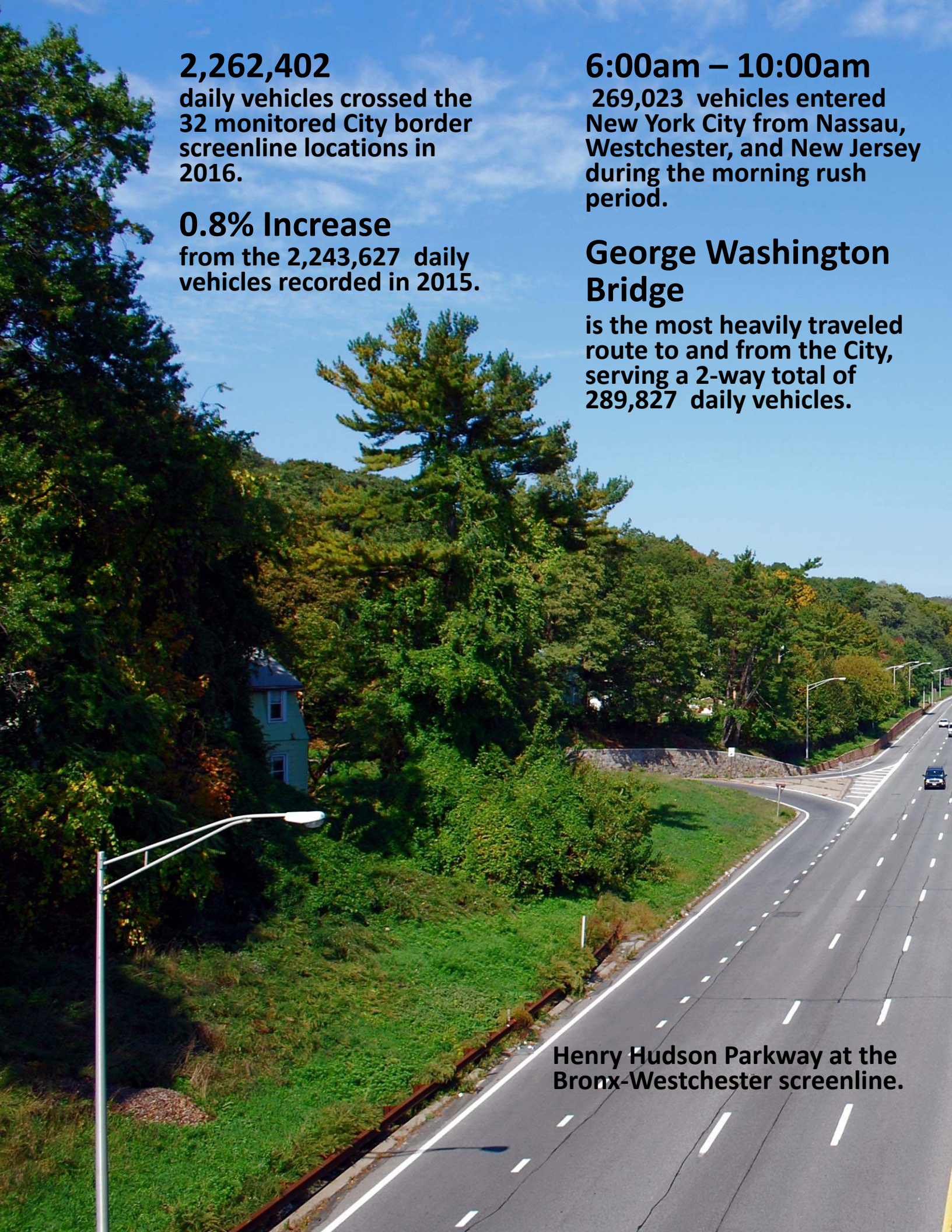
6:00am – 10:00am

**269,023 vehicles entered
New York City from Nassau,
Westchester, and New Jersey
during the morning rush
period.**

**George Washington
Bridge**

**is the most heavily traveled
route to and from the City,
serving a 2-way total of
289,827 daily vehicles.**

**Henry Hudson Parkway at the
Bronx-Westchester screenline.**



Queens-Nassau

The highest volumes were at the 15 monitored Queens-Nassau border locations: 958,616 daily vehicles in 2016 (42.4% of total monitored traffic at the City borders).

Manhattan-New Jersey

492,614 daily vehicles crossed the Hudson River between Manhattan and New Jersey (21.8%).

Bronx-Westchester

642,188 daily vehicles crossed the 11 monitored Bronx-Westchester border locations (28.4% of the total monitored traffic at the City borders).

Staten Island-New Jersey

168,984 daily vehicles traveled between Staten Island and New Jersey (7.5%).

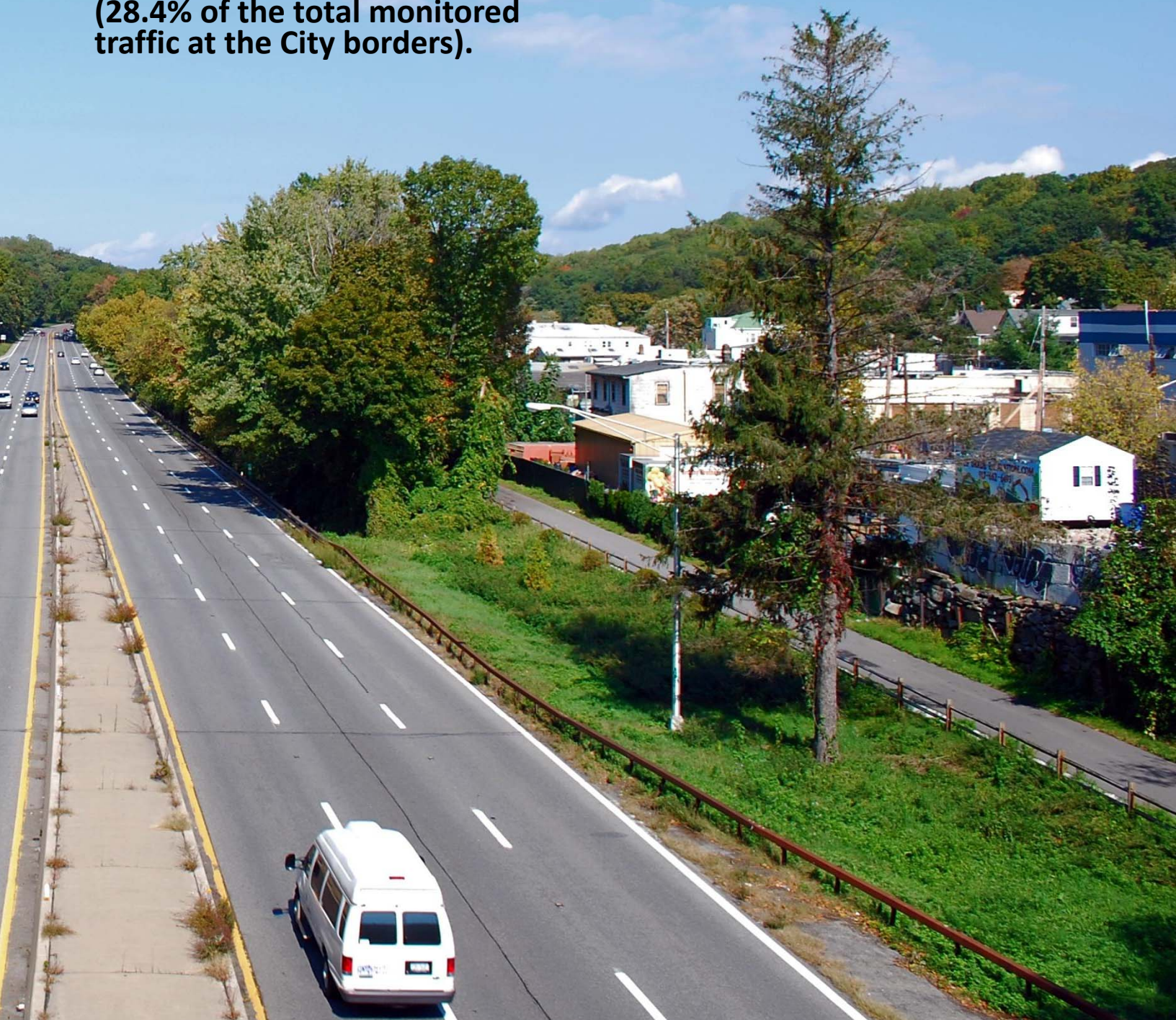


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Introduction



**South Conduit Avenue Eastbound & Sunrise Highway Westbound
at Queens-Nassau Screenline
Looking West**

INTRODUCTION

The 2016 *New York City Screenline Traffic Flow* report is an annual publication prepared by the New York City Department of Transportation (NYCDOT), and funded by the Unified Planning Work Program (UPWP) under the Planning Program of the Moving Ahead for Progress (MAP-21) Act.

The report presents vehicular volumes and historical comparisons across the Bronx–Westchester, Queens–Nassau, Manhattan–New Jersey, Staten Island–New Jersey, and Brooklyn–Queens screenlines.

The average hourly volumes by direction for 2016 are presented in tabular form and in histograms for each monitored roadway facility. Historical comparisons are based on screenline data collected in 1963, 1973, 1982, 1986, and 1993-2014. The statistical analysis presented in the report was performed by staff of NYCDOT during the 2016–2017 and 2017–2018 program years.

Each of the 47 screenline monitoring locations has been classified under a highway functional classification system. Functional classification is the method by which streets and highways are grouped into classes, or systems, according to the character of service each roadway provides.

The five functional classifications are defined as follows:

1. Interstate - connects population centers across state lines.
2. Principal Arterial - serves major centers of activity of an urban area and carries a high proportion of the total urban area travel on a minimum of mileage.
3. Minor Arterial - interconnects with and augments urban principal arterials; provides service for trips of moderate length at a somewhat lower level of travel mobility than principal arterials; distributes travel to geographic areas smaller than those identified with the higher system.
4. Collector Street - provides both land access service and traffic circulation within residential neighborhoods, and commercial and industrial areas. Differs from the arterial systems in that facilities on the collector system may penetrate residential neighborhoods, distributing trips from arterials to the ultimate destination. Conversely, collector streets also collect traffic from local streets in residential neighborhoods and channel it into the arterial system.
5. Local Street - comprises all facilities not on one of the higher systems. Serves primarily to provide direct access to abutting land and access to the higher order systems. Offers the lowest level of mobility and usually contains no bus or truck route.

Note: NYCDOT uses the averages of vehicular volumes from selected representative weekdays. Publications from other sources may be based on alternative computation methodologies for some facilities, notably the tolled bridges and tunnels, possibly yielding different results for those facilities.

Summary



**Major Deegan Expressway at Bronx-Westchester Screenline
Looking South**

SUMMARY

2016 Daily Traffic

- 2,262,402 motor vehicles crossed the 32 New York City border screenline monitoring locations on a typical weekday in 2016, an increase of 0.8% from the 2,243,627 daily vehicles recorded in 2015.
 - 42.4% of recorded vehicles were at the Queens–Nassau border (958,616 daily vehicles).
 - 28.4% at the Bronx–Westchester border (642,188 daily vehicles).
 - 21.8% at the three Manhattan–New Jersey river crossings operated by the Port Authority of New York and New Jersey (492,614 daily vehicles).
 - 7.5% at the three Port Authority Staten Island–New Jersey bridges (168,984 daily vehicles).
- During the 6-7 am inbound morning peak hour, 75,286 vehicles entered the City limits from Nassau, Westchester, and New Jersey. Between 6-10 am, a total of 269,023 vehicles entered the City.
- During the 5-6 pm outbound evening peak hour, 75,578 vehicles left the City. Between 3-7 pm, 297,506 left.
- Traffic crossing the City boundaries was heavy throughout the day. The combined total of entries and departures exceeded 100,000 vehicles per hour continuously from 6 am until 9 pm.

Bronx - Westchester

- On a typical 2016 weekday, 642,188 vehicles crossed the eleven Bronx-Westchester screenline monitoring locations, 3.2% more than the 622,479 daily vehicles recorded in 2015.
- 87.9% of the recorded vehicles (564,682 per day) were on the five limited access highways (interstate and principal arterials) that cross the screenline. The breakdown among the five limited access facilities was as follows.
 - Heaviest volume on the New England Thruway: 134,117 daily vehicles, 20.9% of the Bronx-Westchester screenline total.
 - 130,048 on the Major Deegan Expressway and service roads, 20.3%.
 - 105,765 on the Henry Hudson Parkway, 16.5%.
 - 101,831 on the Bronx River Parkway, 15.9%.
 - 92,921 on the Hutchinson River Parkway, 14.5%.
- Boston Road is the busiest principal arterial monitored, with 22,063 vehicles per day, 3.4% of the screenline total.

- During the 6-7 am inbound morning peak hour, 22,698 vehicles entered The Bronx from Westchester, with 88.6% (19,739 vehicles) using the five limited access facilities according to the following breakdown.
 - 4,613 on the Henry Hudson Parkway.
 - 4,450 on the Major Deegan Expressway and its service road.
 - 3,547 on the New England Thruway.
 - 2,961 on the Hutchinson River Parkway.
 - 4,168 on the Bronx River Parkway.
- Between 6-10 am, 80,615 vehicles entered The Bronx, with 88.1% (71,053 vehicles) using the five limited access facilities as follows.
 - 15,768 on the Major Deegan Expressway and its service road.
 - 16,802 on the Henry Hudson Parkway.
 - 12,186 on the New England Thruway.
 - 14,424 on the Bronx River Parkway.
 - 11,873 on the Hutchinson River Parkway.
- During the 4-5 pm outbound evening peak hour, 22,048 vehicles crossed from The Bronx into Westchester. A total of 19,126 (86.7% of the total) used the five limited access highways as follows.
 - 4,688 on the Major Deegan Expressway and its service road.
 - 3,747 on the Henry Hudson Parkway.
 - 4,207 on the Bronx River Parkway.
 - 3,899 on the New England Thruway.
 - 2,585 on the Hutchinson River Parkway.
- Between 3-7 pm, 85,234 vehicles left The Bronx, with 74,779 (87.7%) using the five limited access facilities as follows.
 - 18,435 on the Major Deegan Expressway and its service road.
 - 14,864 on the New England Thruway.
 - 14,888 on the Henry Hudson Parkway.
 - 15,775 on the Bronx River Parkway.
 - 10,817 on the Hutchinson River Parkway.

Queens - Nassau

- A total of 958,616 motor vehicles crossed the fifteen Queens-Nassau screenline monitoring locations on a typical 2016 weekday, 0.1% fewer than the 959,660 daily vehicles recorded in 2015
- The three limited access highways that cross the screenline accommodated more than half (57.6%) of the recorded vehicles (552,536 per day).
 - 224,901 on the Long Island Expressway and its service roads (23.5%).
 - 168,555 on the Laurelton Parkway (17.6%).
 - 159,080 on the Grand Central Parkway and its service road (16.6%).
- Busiest Queens-Nassau Screenline arterials:
 - Rockaway Boulevard, 75,716 vehicles per day.
 - Sunrise Highway/South Conduit Avenue, 67,177 vehicles per day.
 - Northern Boulevard, 39,201 per day.
 - Hempstead Avenue, 45,962 vehicles per day.
- During the 6-7 am inbound morning peak hour, 27,905 vehicles entered Queens from Nassau. A total of 16,178 of those vehicles (58.0% of the total) were on the three limited access facilities.
 - 6,472 on the Long Island Expressway and service road.
 - 5,298 on the Laurelton Parkway.
 - 4,408 on the Grand Central Parkway and service road.
- Between 8-9 am, 30,373 vehicles entered Nassau from Queens, including 17,513 (57.7% of the total) using the three limited access facilities.
 - 6,875 on the Long Island Expressway and service road.
 - 5,871 on the Grand Central Parkway and service road.
 - 4,767 on the Laurelton Parkway.
- During the 6-10 am rush period, 103,483, vehicles entered Queens from Nassau, and 104,347 entered Nassau from Queens. The three limited access facilities served 56,999 of the Queens-bound vehicles, and 63,575 of the Nassau-bound vehicles.
 - Long Island Expressway and service roads: 22,572 to Queens; 25,109 to Nassau.
 - Laurelton Parkway: 16,225 to Queens; 17,911 to Nassau.
 - Grand Central Parkway and its service road: 18,202 to Queens; 20,555 to Nassau.
- The evening outbound peak hour occurred between 6-7 pm, when 31,022 vehicles entered Nassau from Queens. The three limited access facilities were used by 16,880 of these Nassau-bound vehicles.
 - 6,344 on the Long Island Expressway and service road.
 - 5,801 on the Laurelton Parkway.

- 4,735 on the Grand Central Parkway and service road.
- The evening inbound peak hour occurred between 5-6 pm, when 30,170 vehicles entered Queens from Nassau. The three limited access facilities were used by 16,306 of these Queens-bound vehicles.
 - 6,644 on the Long Island Expressway and service road.
 - 4,400 on the Laurelton Parkway.
 - 5,262 on the Grand Central Parkway and service road.
- During the 3-7 pm rush period, 123,277 vehicles entered Nassau from Queens, and 114,047 entered Queens from Nassau. The three limited access facilities were used by 64,607 of the Nassau-bound vehicles and 62,323 of the Queens-bound vehicles.
 - Long Island Expressway and service roads: 25,254 to Nassau; 24,850 to Queens.
 - Laurelton Parkway: 22,700 to Nassau; 16,881 to Queens.
 - Grand Central Parkway and service road: 16,653 to Nassau; 20,592 to Queens.
- Volumes were heavy throughout the day between Queens and Nassau, with 2-way traffic exceeding 40,000 vehicles per hour continuously between 6 am and 9 pm.

New York – New Jersey

- On a fall 2016 weekday, 661,598 motor vehicles traveled between New York City and New Jersey via the six bridges and tunnels operated by the Port Authority of New York and New Jersey (PANYNJ), 0.02% more than the 661,488 daily vehicles recorded in 2015.
- Manhattan-New Jersey traffic decreased 1.1%, to 492,614 daily vehicles in 2016 from 498,270 in 2015.
 - George Washington Bridge traffic decreased 1.8%, to 289,827 daily vehicles in 2016 from 295,120 in 2015. This is the busiest of all New York City screenline locations, carrying 43.8% of total New York City-New Jersey traffic, and 58.8% of Manhattan-New Jersey traffic.
 - Holland Tunnel traffic increased 0.5%, to 89,792 daily vehicles in 2016 from 89,367 in 2015.
 - Lincoln Tunnel traffic decreased 0.7%, to 112,995 daily vehicles in 2016 from 113,783 in 2015.
- 19,073 vehicles entered Manhattan from New Jersey during the 6-7 am morning peak hour. The George Washington Bridge was used by 11,474 (60.2%) of those Manhattan-bound peak hour vehicles.
- During the 6-10 am inbound rush period, Manhattan vehicle entries from New Jersey amounted to 65,137. The George Washington Bridge was the route for 57.9% of these 6-10 am entries (37,705 vehicles).
- 17,535 vehicles departed Manhattan for New Jersey during the 5-6 pm evening peak hour, with the George Washington Bridge accommodating 10,864 (62.0%) of those departing vehicles.

- During the 3-7 pm evening rush period, 67,475 vehicles crossed the Hudson River from Manhattan to New Jersey. The George Washington Bridge carried 60.2% of that departing traffic (40,601 vehicles).
- Staten Island-New Jersey traffic increased 4.9%, to 168,984 daily vehicles in 2016 from 163,218 in 2015.
 - Bayonne Bridge traffic decreased 16.7%, to 9,025 daily vehicles in 2016 from 10,840 in 2015.
 - Goethals Bridge traffic increased 5.4%, to 82,852 daily vehicles in 2016 from 78,605 in 2015.
 - Outerbridge Crossing traffic increased 4.5%, to 77,107 daily vehicles in 2016 from 73,773 in 2015.
- Between 6-10 am, 20,058 vehicles crossed from Staten Island to New Jersey while 19,788 vehicles entered Staten Island.
- Between 3-7 pm, traffic entering Staten Island from New Jersey amounted to 24,757 vehicles, while traffic bound for New Jersey totaled 21,520 vehicles.

Brooklyn - Queens

- On a typical 2016 weekday, 592,046 vehicles crossed the fifteen monitored Brooklyn-Queens screenline locations, 0.4% fewer than the 594,534 daily vehicles recorded in 2015.
- Except for the four bridges over Newtown Creek (monitored annually in the New York City Bridge Traffic Volumes report), traffic volumes at the Brooklyn-Queens screenline were analyzed for the first time in 1993.
- Over two-thirds (67.5%) of the vehicles (399,797 per day) crossing the Brooklyn-Queens screenline used the three limited access (interstate and principal arterial) facilities that cross the screenline: Jackie Robinson Parkway (formerly Interborough Parkway), Kosciuszko Bridge (Brooklyn-Queens Expressway), and Shore (Belt) Parkway.
- Some 41.4% (245,138 per day) were crossing Newtown Creek via the Grand Street, J.J. Byrne, Kosciuszko, and Pulaski Bridges.
- The Shore Parkway (Belt) is the busiest Brooklyn-Queens screenline highway, with two-way daily volume of 164,820 daily vehicles, 27.8% of all traffic on the monitored thoroughfares and 41.2% of the three limited access (interstate and principal arterial) facilities that cross the screenline: Jackie Robinson Parkway (formerly Interborough Parkway), Kosciuszko Bridge (Brooklyn-Queens Expressway), and Shore (Belt) Parkway.
- Busiest Brooklyn-Queens Screenline arterials in 2016:
 - Kosciuszko Bridge, 162,581 vehicles per day.
 - Jackie Robinson Parkway, 72,396 vehicles per day.
 - Linden Boulevard, 52,916 vehicles per day.
 - Pulaski Bridge, 40,722 vehicles per day.
 - J.J. Byrne Memorial Bridge (Greenpoint Avenue Bridge), 31,622 vehicles per day.

- Atlantic Avenue, 23,099 vehicles per day.
- Morning traffic to Brooklyn peaked between 7-8 am, when 18,439 vehicles entered Brooklyn.
 - 4,408 on the Kosciuszko Bridge.
 - 4,951 on the Belt Parkway (Shore Parkway).
- Morning traffic to Queens peaked also between 7-8 am, at 15,821 vehicles.
 - 3,986 on the Kosciuszko Bridge.
 - 4,576 on the Belt Parkway (Shore Parkway).
- During the 6-10 am rush period, 68,712 vehicles entered Brooklyn and 59,140 entered Queens.
 - Kosciuszko Bridge: 16,065 to Brooklyn; 15,342 to Queens.
 - Belt Parkway (Shore Parkway): 18,846 to Brooklyn; 17,415 to Queens.
- Evening traffic to Brooklyn peaked between 3-4 pm, with 16,276 vehicles entering Brooklyn from Queens.
 - 3,468 on Kosciuszko Bridge.
 - 4,377 on Belt Parkway (Shore Parkway).
- Evening traffic to Queens peaked between 5-6 pm, with 17,881 vehicles entering Queens from Brooklyn.
 - 4,281 on Kosciuszko Bridge.
 - 4,696 on Belt Parkway (Shore Parkway).
- During the 3-7 pm rush period, 70,056 vehicles entered Queens and 63,227 entered Brooklyn.
 - Kosciuszko Bridge: 16,365 to Queens; 14,384 to Brooklyn.
 - Belt Parkway (Shore Parkway): 18,666 to Queens; 17,503 to Brooklyn.

2015 vs. 2016
Screenline Traffic Volume Trends
Both Directions
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BRONX-WESTCHESTER	Highway Functional Classification	2015	2016	Percent Change
Boston Road	Principal Arterial	23,114	22,063	- 4.5 %
Broadway	Principal Arterial	14,837	15,250	2.8 %
Bronx River Parkway	Principal Arterial	97,157	101,831	4.8 %
Henry Hudson Parkway	Principal Arterial	99,338	105,765	6.5 %
Hutchinson River Parkway	Principal Arterial	87,678	92,921	6.0 %
Major Deegan Expressway *	Interstate	125,157	130,048	3.9 %
New England Thruway	Interstate	135,565	134,117	- 1.1 %
Riverdale Avenue	Principal Arterial	9,671	9,023	- 6.7 %
Van Cortlandt Park East	Minor Arterial	8,153	8,512	4.4 %
Webster Avenue	Local	9,691	10,306	6.3 %
White Plains Road	Principal Arterial	12,118	12,352	1.9 %
Total Bronx-Westchester Screenline		622,479	642,188	3.2 %

QUEENS-NASSAU

Beach Channel Drive	Minor Arterial	21,973	22,343	1.7 %
Central Avenue	Minor Arterial	13,409	11,764	- 12.3 %
Grand Central Parkway *	Principal Arterial	164,941	159,080	- 3.6 %
Hempstead Avenue	Principal Arterial	40,078	45,962	14.7 %
Hillside Avenue	Principal Arterial	26,166	26,652	1.9 %
Jamaica Avenue	Principal Arterial	29,192	27,075	- 7.3 %
Laurelton Parkway	Principal Arterial	166,150	168,555	1.4 %
Linden Boulevard	Principal Arterial	26,933	26,610	- 1.2 %
Long Island Expressway *	Interstate	220,988	224,901	1.8 %
Merrick Boulevard	Minor Arterial	21,907	20,280	- 7.4 %
Northern Boulevard	Principal Arterial	40,690	39,201	- 3.7 %
Rockaway Boulevard	Principal Arterial	75,001	75,716	1.0 %
Seagirt Boulevard	Principal Arterial	22,775	21,269	- 6.6 %
Sunrise Highway	Principal Arterial	67,725	67,177	- 0.8 %
Union Turnpike	Principal Arterial	21,732	22,031	1.4 %
Total Queens-Nassau Screenline		959,660	958,616	- 0.1 %

* Includes Service Roads.

2015 vs. 2016

Screenline Traffic Volume Trends

Both Directions

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NEW YORK - NEW JERSEY	Highway Functional Classification	2015	2016	Percent Change
Manhattan - New Jersey				
George Washington Bridge	Interstate	295,120	289,827	- 1.8 %
Holland Tunnel	Interstate	89,367	89,792	0.5 %
Lincoln Tunnel	Principal Arterial	113,783	112,995	- 0.7 %
Subtotal, Manhattan - New Jersey		498,270	492,614	- 1.1 %
Staten Island - New Jersey				
Bayonne Bridge	Principal Arterial	10,840	9,025	- 16.7 %
Goethals Bridge	Interstate	78,605	82,852	5.4 %
Outerbridge Crossing	Principal Arterial	73,773	77,107	4.5 %
Subtotal, Staten Island - New Jersey		163,218	168,984	3.5 %
Total New York - New Jersey Screenline		661,488	661,598	0.0 %

NEW YORK CITY BORDERS TOTAL

Bronx - Westchester	622,479	642,188	
Queens - Nassau	959,660	958,616	
Manhattan - New Jersey	498,270	492,614	
Staten Island - New Jersey	163,218	168,984	
Total New York City Border Screenlines		2,243,627	2,262,402
			0.8 %

2015 vs. 2016 Screenline Traffic Volume Trends Both Directions

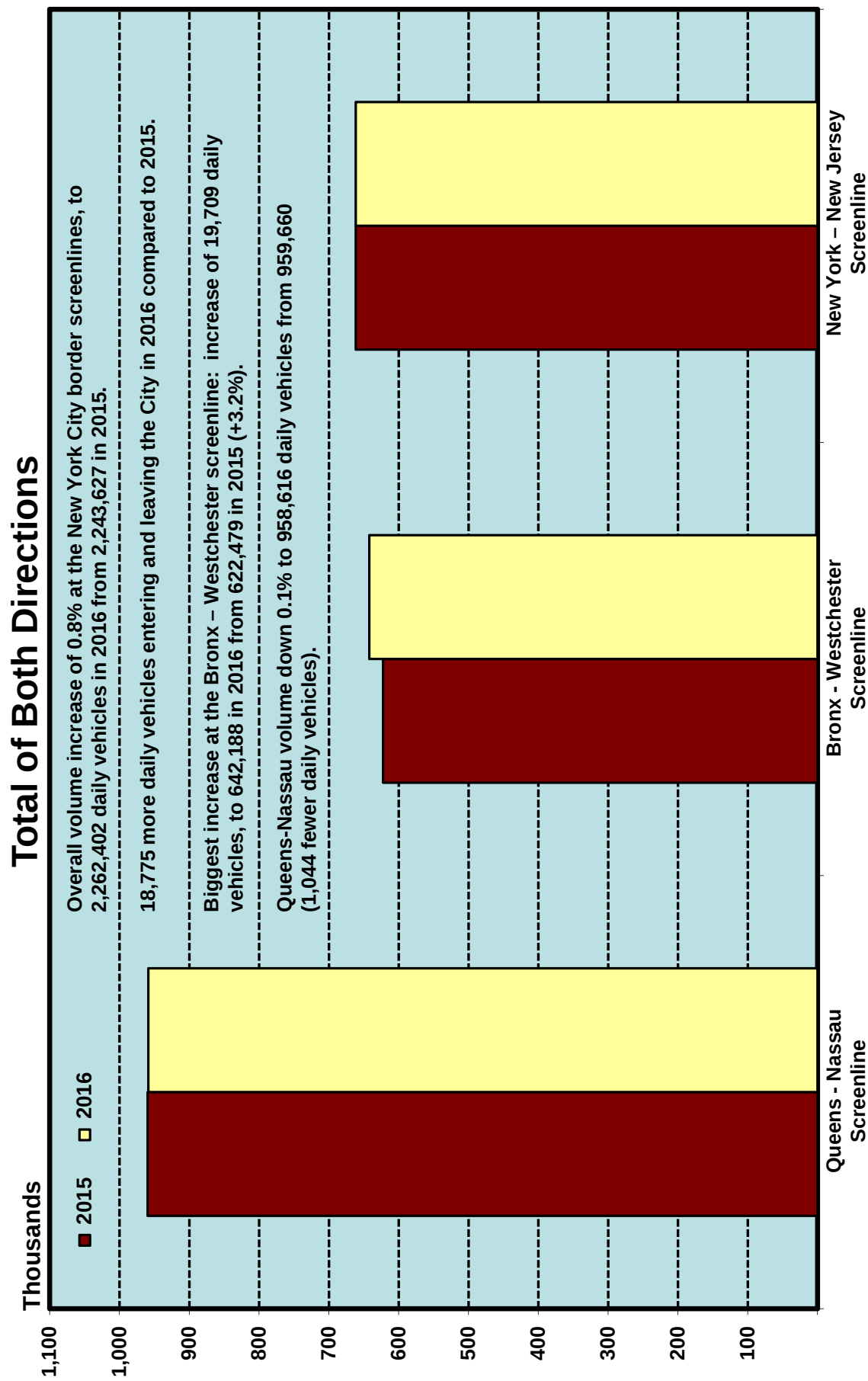
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BROOKLYN - QUEENS	Highway Functional Classification	2015	2016	Percent Change
Newtown Creek Bridges				
Grand Street Bridge	Principal Arterial	12,546	10,213	- 18.6 %
J.J. Byrne Memorial Bridge *	Principal Arterial	28,361	31,622	11.5 %
Kosciuszko Bridge	Interstate	179,137	162,581	- 9.2 %
Pulaski Bridge	Principal Arterial	40,485	40,722	0.6 %
Subtotal, Newtown Creek Bridges		260,529	245,138	- 5.9 %
Other Facilities				
Atlantic Avenue	Principal Arterial	23,359	23,099	- 1.1 %
Cooper Street	Minor Arterial	9,953	9,066	- 8.9 %
Cornelia Street	Local	1,952	1,969	0.9 %
Decatur Street	Collector	2,418	2,588	7.0 %
DeKalb Avenue	Minor Arterial	4,633	4,512	- 2.6 %
Greene Avenue	Minor Arterial	1,459	1,527	4.7 %
Jackie Robinson Parkway	Principal Arterial	68,017	72,396	6.4 %
Linden Boulevard	Principal Arterial	43,183	52,916	22.5 %
Linden Street	Collector	2,017	2,278	12.9 %
Shore Parkway	Principal Arterial	166,331	164,820	- 0.9 %
Sutter Avenue	Minor Arterial	10,683	11,737	9.9 %
Subtotal, Other Facilities		334,005	346,908	3.9 %
Total Brooklyn - Queens Screenline		594,534	592,046	- 0.4 %

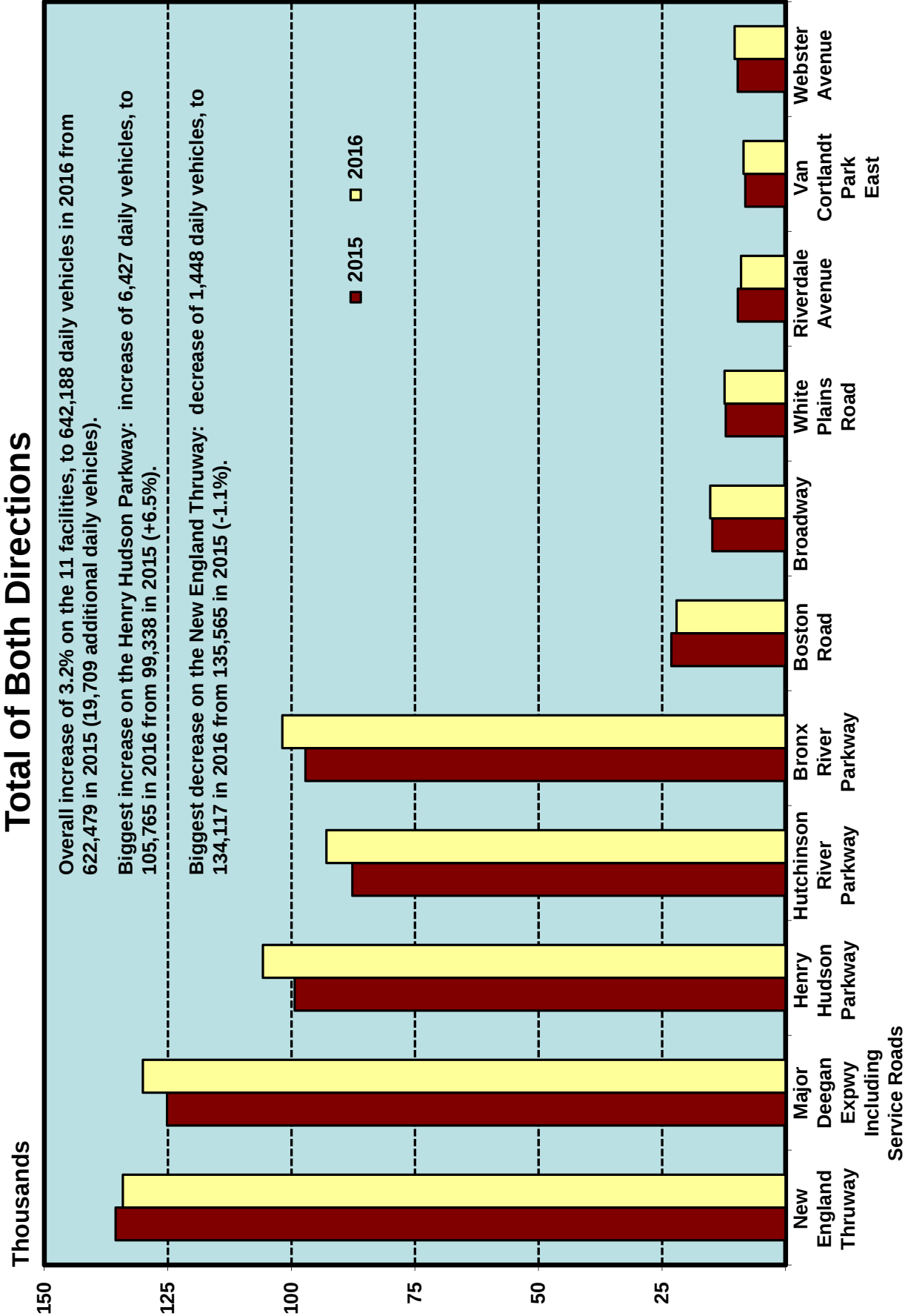
* J.J. Byrne Memorial Bridge also known as Greenpoint Avenue Bridge.

New York City Screenlines ~ Daily Volumes

2016 vs. 2015

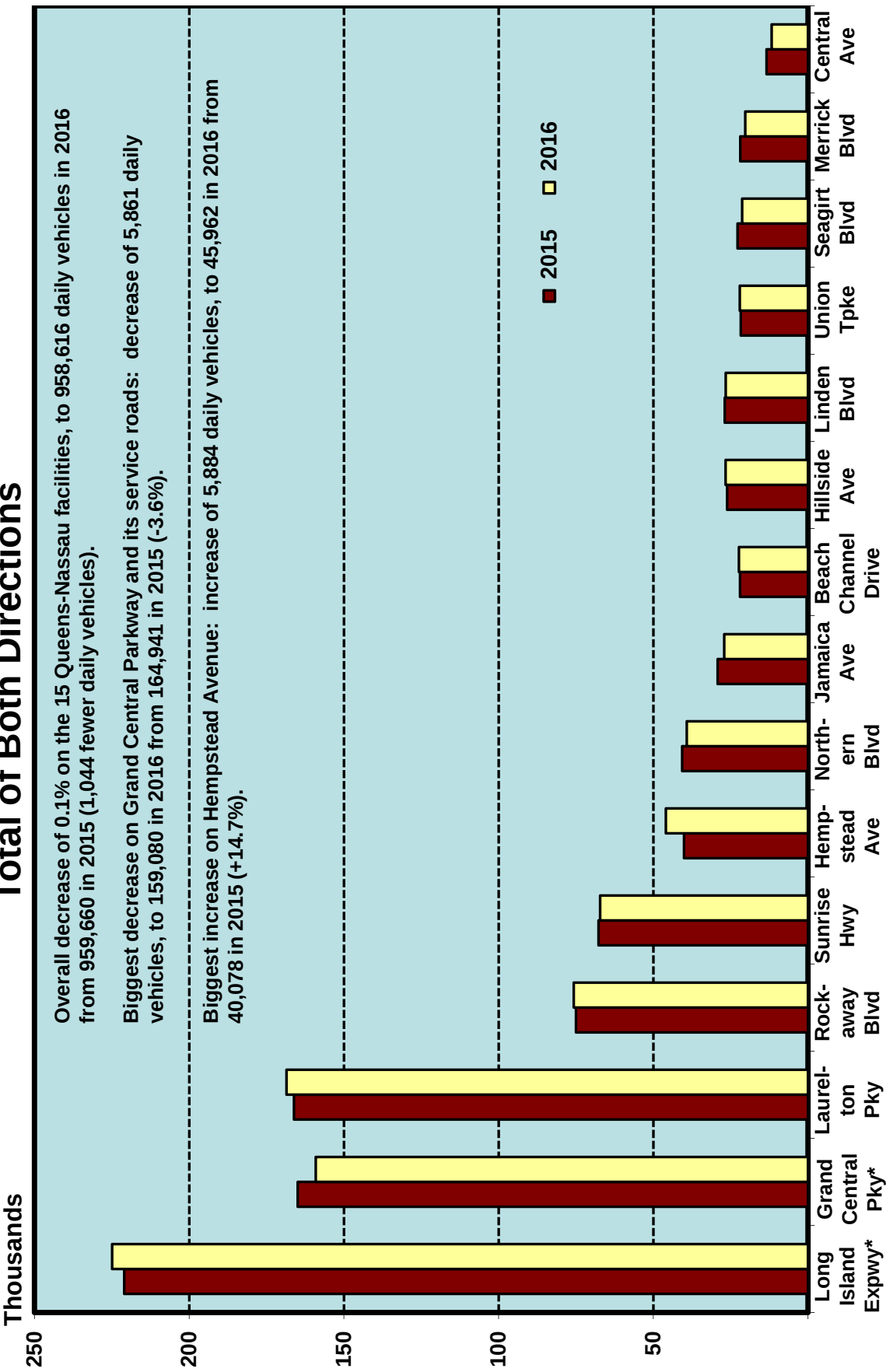


Bronx – Westchester Screenline Daily Volumes 2016 vs. 2015



Queens – Nassau Screenline Daily Volumes 2016 vs. 2015

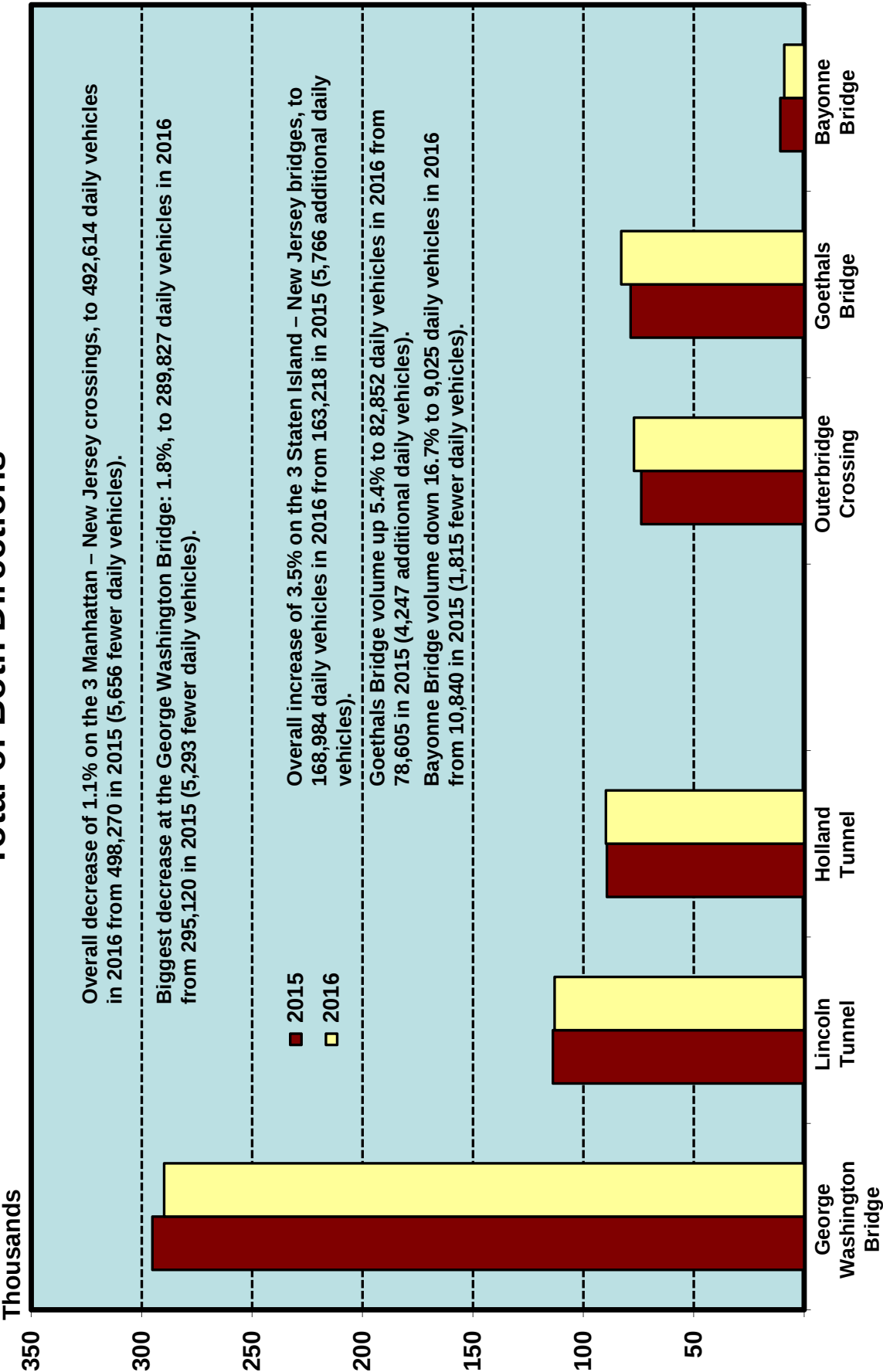
Total of Both Directions



* Includes service roads.

New York – New Jersey Screenline Daily Volumes 2016 vs. 2015

Total of Both Directions

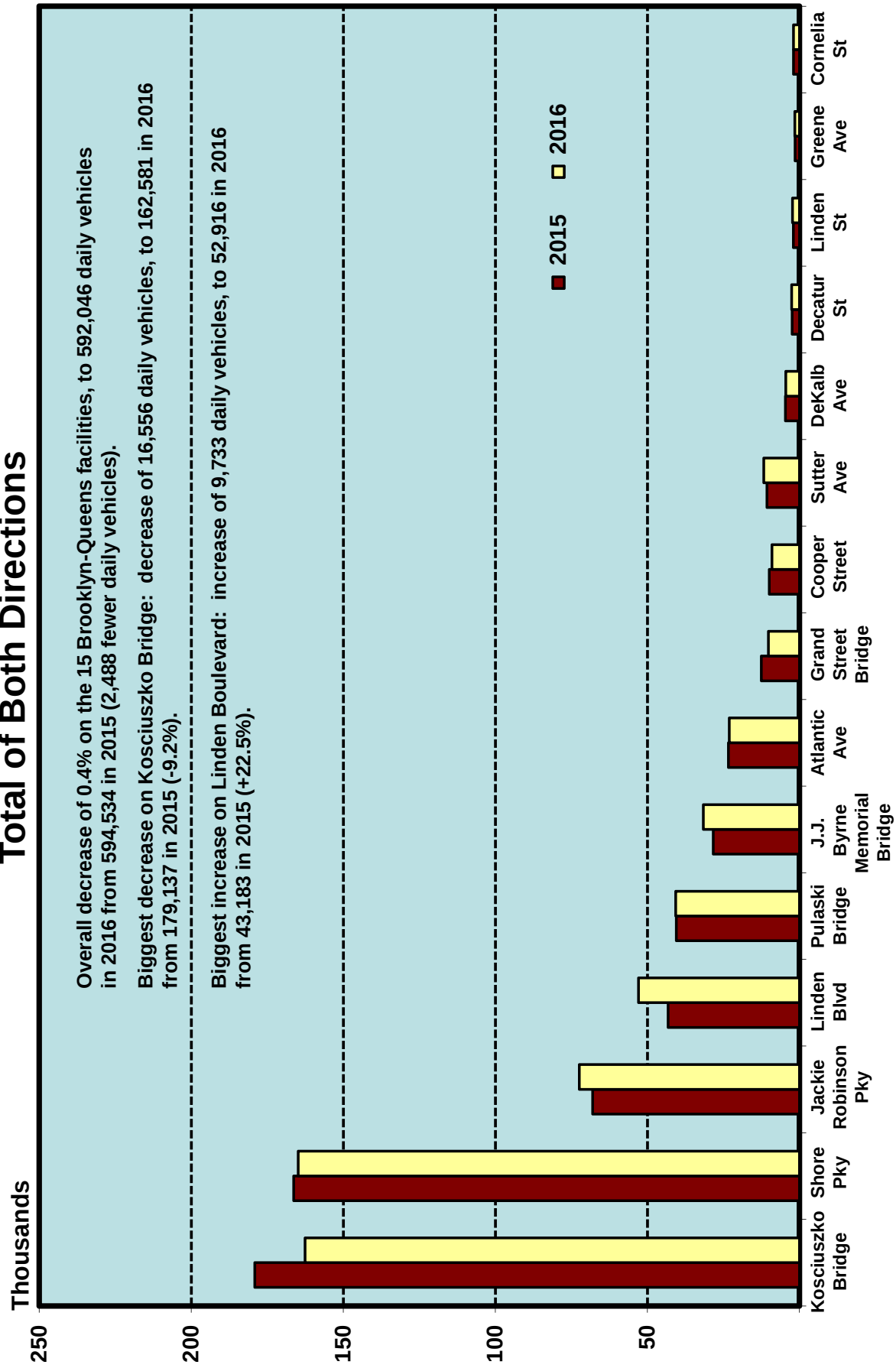


Manhattan – New Jersey Crossings

Staten Island – New Jersey Bridges

Brooklyn - Queens Screenline Daily Volumes 2016 vs. 2015

Total of Both Directions



10-Year Trends ~ 2006-2016



**Jackie Robinson Parkway at Brooklyn-Queens Screenline
Looking East**

TEN-YEAR TRENDS: 2006-2016

Total monitored traffic volume at the City boundaries decreased 0.5% during this ten-year period, to 2,262,402 daily vehicles in 2016 from 2,272,769 in 2006 (10,367 fewer daily vehicles).

Bronx – Westchester Screenline

- Overall increase of 2.8% at the eleven Bronx-Westchester screenline monitoring sites, to 642,188 daily vehicles in 2016 from 624,558 in 2006 (17,630 more daily vehicles).
- Volume decreases on six of the eleven monitored facilities.
- Largest decrease on Riverdale Avenue: down by -2,447 daily vehicles, to 9,023 daily vehicles in 2016 from 11,470 in 2006 (-21.3%).
- Largest increase on the Bronx River Parkway: up 10.5% to 101,831 daily vehicles in 2016 from 92,123 in 2006 (+9,708 daily vehicles).

Queens – Nassau Screenline

- Overall increase of 2.6%, at the fifteen Queens-Nassau screenline monitoring locations, to 958,616 daily vehicles in 2016 from 934,549 in 2006 (24,067 additional daily vehicles).
- Largest increase on the Long Island Expressway and its service roads: up 17.2% to 224,901 daily vehicles in 2016 from 191,900 in 2006 (33,001 additional daily vehicles).
- Largest decrease on the Grand Central Parkway and its service road: decrease of 6,714 daily vehicles to 159,080 in 2016 from 165,794 in 2006 (-4.0%).

Manhattan – New Jersey Screenline

- Overall decrease of 8.4% on the three Hudson River crossings between Manhattan and New Jersey, to 492,614 daily vehicles in 2016 from 537,748 in 2006 (45,134 fewer daily vehicles).
- Decreases on all three Manhattan-New Jersey crossings.
- Largest decrease at the George Washington Bridge: decrease of 22,251 daily vehicles, to 289,827 in 2016 from 312,078 in 2006 (-7.1%).

Staten Island – New Jersey Screenline

- Overall decrease of 3.9% on the three Staten Island-New Jersey bridges, to 168,984 daily vehicles in 2016 from 175,914 in 2006 (6,930 fewer daily vehicles).
- Largest decrease on the Bayonne Bridge: -62.8%, to 9,025 daily vehicles in 2016 from 24,230 in 2006 (15,205 fewer daily vehicles).
- Only increase on the Goethals Bridge: increase of 26.7% to 82,852 daily vehicles in 2016 from 65,378 in 2006.

Brooklyn – Queens Screenline

- Overall decrease of 1.5% at the fifteen monitored Brooklyn-Queens screenline locations, to 592,046 daily vehicles in 2016 from 601,236 in 2006 (9,190 fewer daily vehicles).
- Largest decrease on the Kosciuszko Bridge: decrease of 21,760 daily vehicles, to 162,581 in 2016 from 184,341 in 2006 (-11.8%).
- Largest increase on Shore Parkway: increase of 7,011 daily vehicles, to 164,820 in 2016 from 157,809 in 2006 (+4.4%).

10-Year Volume Trends ~ 2006 - 2016

New York City Screenline Traffic Volumes

Both Directions

Page 1 of 2

BRONX-WESTCHESTER	Highway Functional Classification	2006	2016	Percent Change
Boston Road	Principal Arterial	24,403	22,063	- 9.6 %
Broadway	Principal Arterial	15,938	15,250	- 4.3 %
Bronx River Parkway	Principal Arterial	92,123	101,831	10.5 %
Henry Hudson Parkway	Principal Arterial	99,344	105,765	6.5 %
Hutchinson River Parkway	Principal Arterial	88,445	92,921	5.1 %
Major Deegan Expressway *	Interstate	124,176	130,048	4.7 %
New England Thruway	Interstate	135,159	134,117	- 0.8 %
Riverdale Avenue	Principal Arterial	11,470	9,023	- 21.3 %
Van Cortlandt Park East	Minor Arterial	10,675	8,512	- 20.3 %
Webster Avenue	Local	10,535	10,306	- 2.2 %
White Plains Road	Principal Arterial	12,290	12,352	0.5 %
Total Bronx-Westchester Screenline		624,558	642,188	2.8 %

QUEENS-NASSAU

Beach Channel Drive	Minor Arterial	25,801	22,343	- 13.4 %
Central Avenue	Minor Arterial	15,570	11,764	- 24.4 %
Grand Central Parkway *	Principal Arterial	165,794	159,080	- 4.0 %
Hempstead Avenue	Principal Arterial	40,965	45,962	12.2 %
Hillside Avenue	Principal Arterial	23,123	26,652	15.3 %
Jamaica Avenue	Principal Arterial	29,614	27,075	- 8.6 %
Laurelton Parkway	Principal Arterial	168,859	168,555	- 0.2 %
Linden Boulevard	Principal Arterial	28,298	26,610	- 6.0 %
Long Island Expressway *	Interstate	191,900	224,901	17.2 %
Merrick Boulevard	Minor Arterial	19,033	20,280	6.6 %
Northern Boulevard	Principal Arterial	41,360	39,201	- 5.2 %
Rockaway Boulevard	Principal Arterial	73,767	75,716	2.6 %
Seagirt Boulevard	Principal Arterial	22,557	21,269	- 5.7 %
Sunrise Highway	Principal Arterial	66,819	67,177	0.5 %
Union Turnpike	Principal Arterial	21,089	22,031	4.5 %
Total Queens-Nassau Screenline		934,549	958,616	2.6 %

* Includes Service Roads.

10-Year Volume Trends ~ 2006 - 2016

New York City Screenline Traffic Volumes

Both Directions

Page 2 of 2

NEW YORK - NEW JERSEY	Highway Functional Classification	2006	2016	Percent Change
George Washington Bridge	Interstate	312,078	289,827	- 7.1 %
Holland Tunnel	Interstate	98,425	89,792	- 8.8 %
Lincoln Tunnel	Principal Arterial	127,245	112,995	- 11.2 %
Bayonne Bridge	Principal Arterial	24,230	9,025	- 62.8 %
Goethals Bridge	Interstate	65,378	82,852	26.7 %
Outerbridge Crossing	Principal Arterial	86,306	77,107	- 10.7 %
Total New York - New Jersey Screenline		713,662	661,598	- 7.3 %

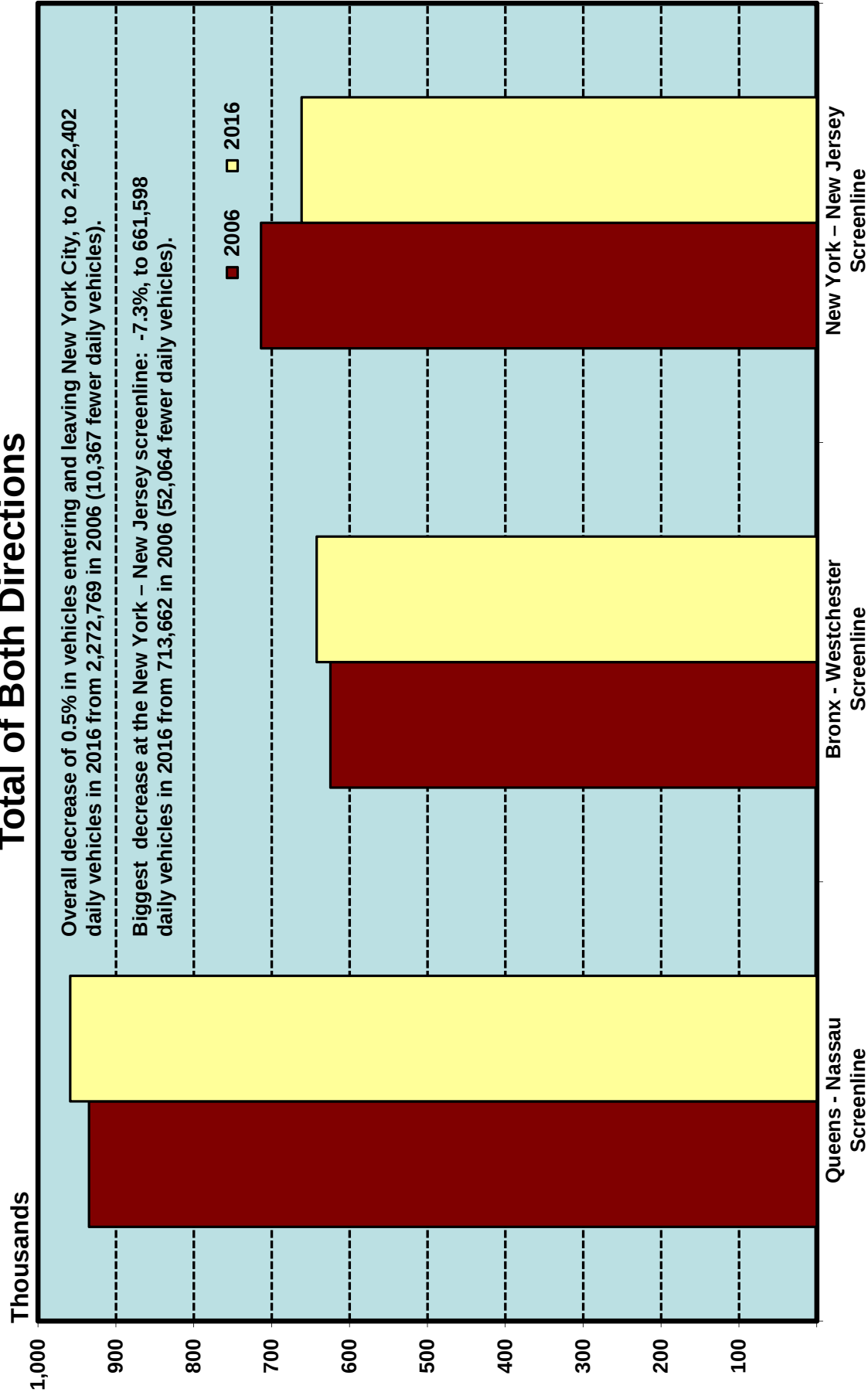
BROOKLYN - QUEENS	Highway Functional Classification	2006	2016	Percent Change
Newtown Creek Bridges				
Grand Street Bridge	Principal Arterial	12,893	10,213	- 20.8 %
J.J. Byrne Memorial Bridge *	Principal Arterial	29,840	31,622	6.0 %
Kosciuszko Bridge	Interstate	184,341	162,581	- 11.8 %
Pulaski Bridge	Principal Arterial	38,224	40,722	6.5 %
Subtotal, Newtown Creek Bridges		265,298	245,138	- 7.6 %
Other Facilities				
Atlantic Avenue	Principal Arterial	24,056	23,099	- 4.0 %
Cooper Street	Minor Arterial	9,293	9,066	- 2.4 %
Cornelia Street	Local	1,660	1,969	18.6 %
Decatur Street	Collector	2,247	2,588	15.2 %
DeKalb Avenue	Minor Arterial	5,306	4,512	- 15.0 %
Greene Avenue	Minor Arterial	1,854	1,527	- 17.6 %
Jackie Robinson Parkway	Principal Arterial	70,833	72,396	2.2 %
Linden Boulevard	Principal Arterial	52,069	52,916	1.6 %
Linden Street	Collector	2,192	2,278	3.9 %
Shore Parkway	Principal Arterial	157,809	164,820	4.4 %
Sutter Avenue	Minor Arterial	8,619	11,737	36.2 %
Subtotal, Other Facilities		335,938	346,908	3.3 %
Total Brooklyn - Queens Screenline		601,236	592,046	- 1.5 %

* J.J. Byrne Memorial Bridge also known as Greenpoint Avenue Bridge.

10-Year Volume Changes ~ 2006 - 2016

New York City Screenlines Daily Volumes

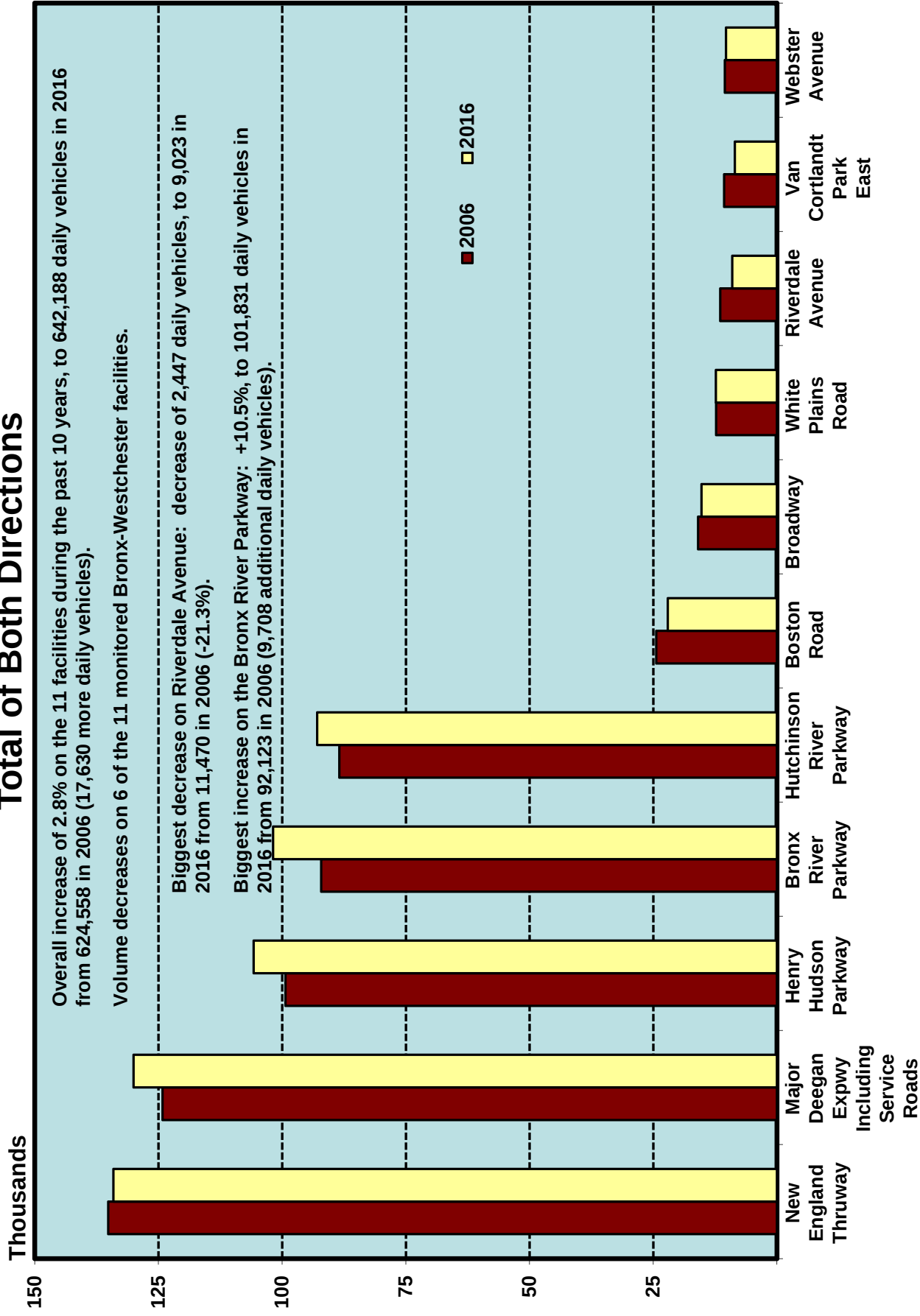
Total of Both Directions



10-Year Volume Changes ~ 2006 - 2016

Bronx – Westchester Screenline Daily Volumes

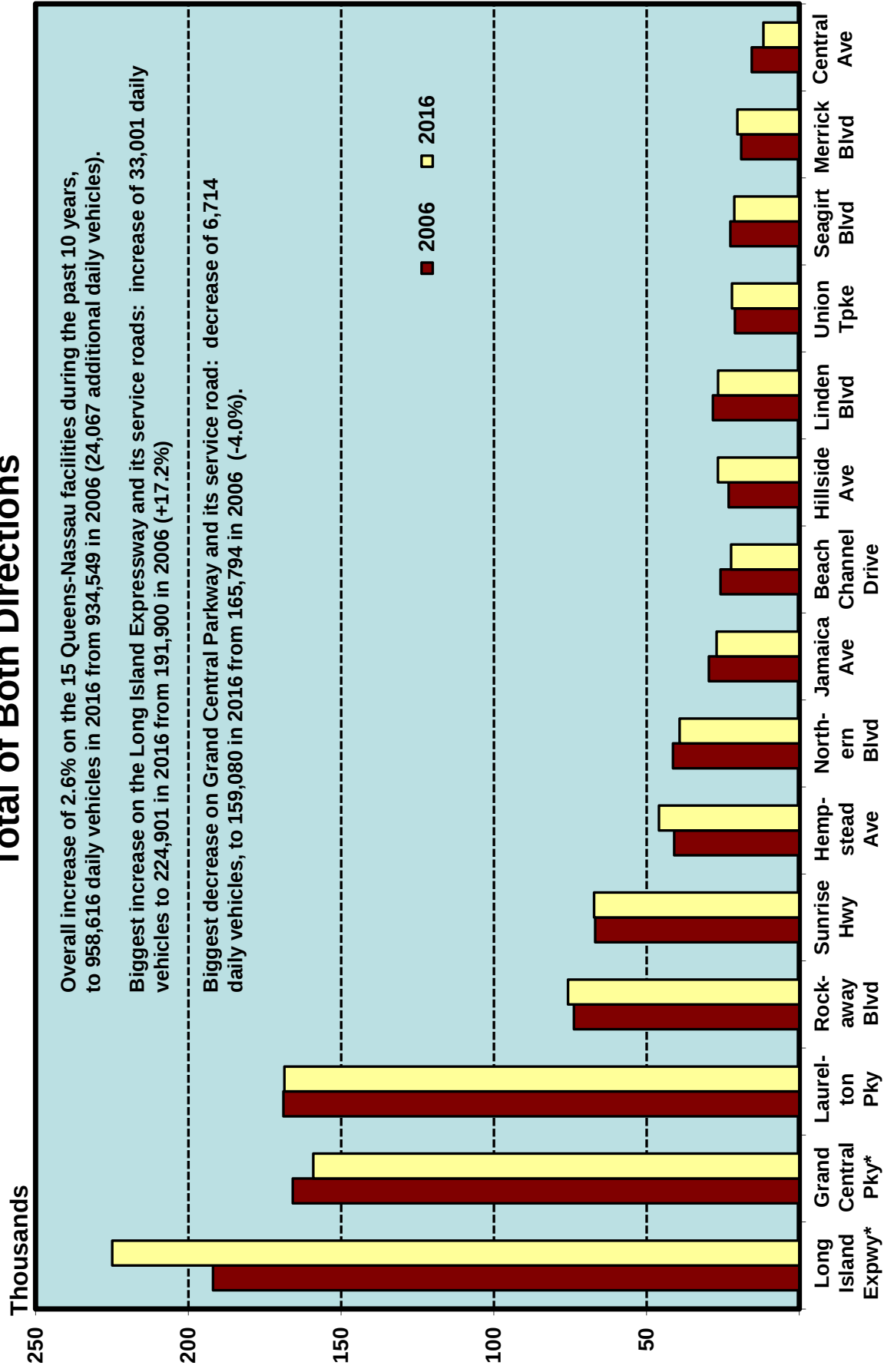
Total of Both Directions



10-Year Volume Changes ~ 2006 - 2016

Queens – Nassau Screenline Daily Volumes

Total of Both Directions

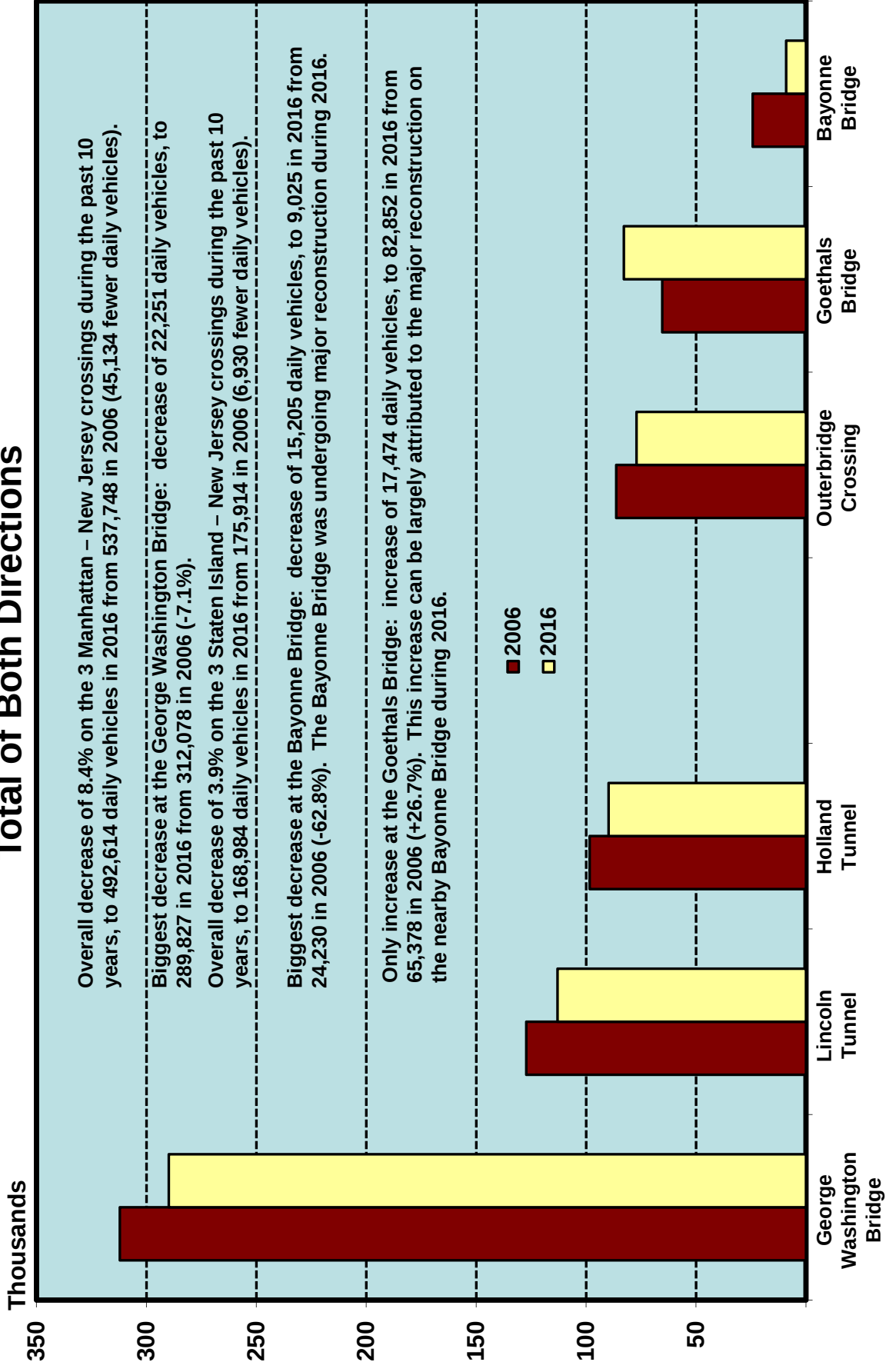


* Includes service roads.

10-Year Volume Changes ~ 2006 – 2016

New York – New Jersey Screenline Daily Volumes

Total of Both Directions



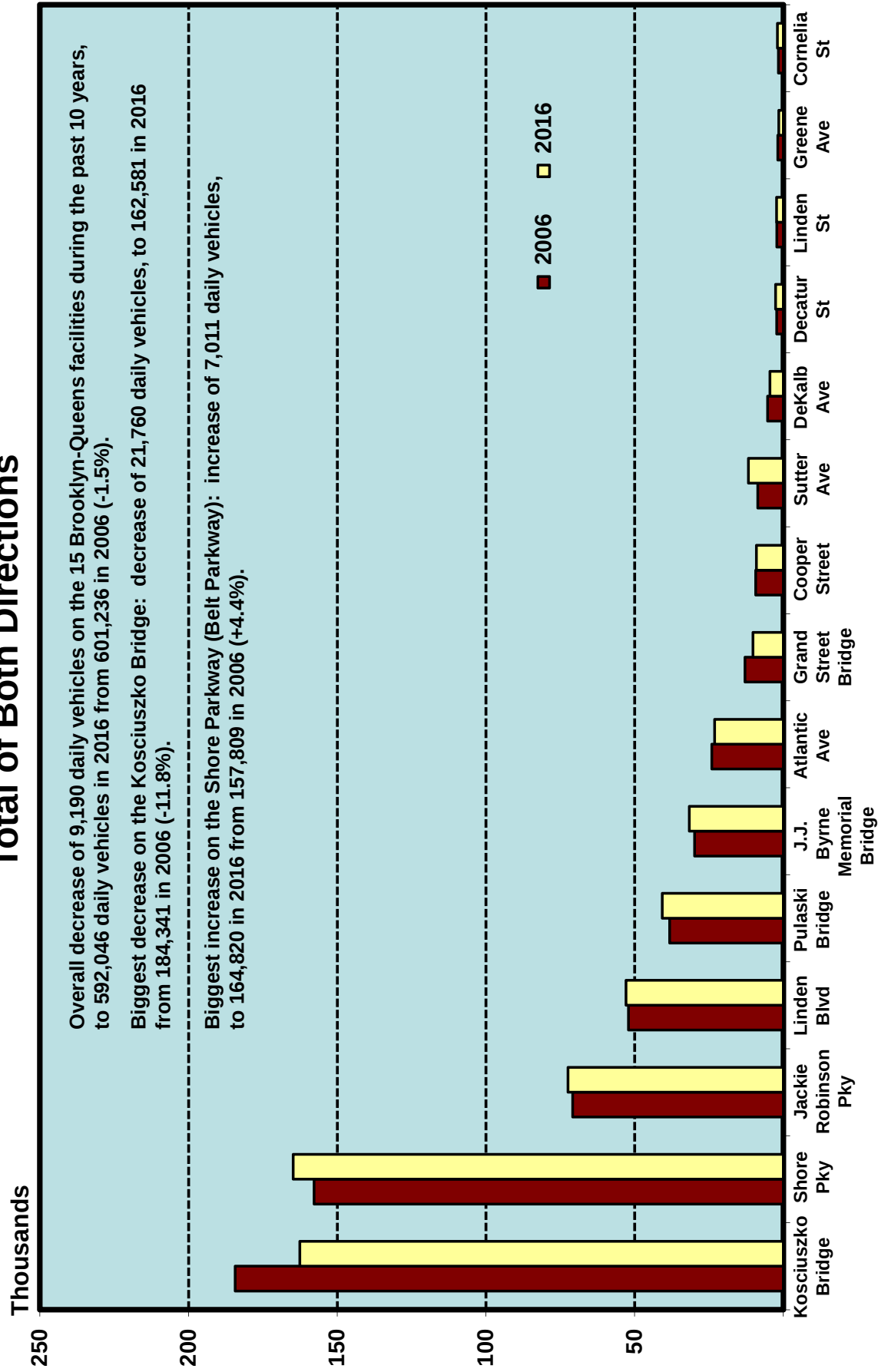
Manhattan – New Jersey Crossings

Staten Island – New Jersey Bridges

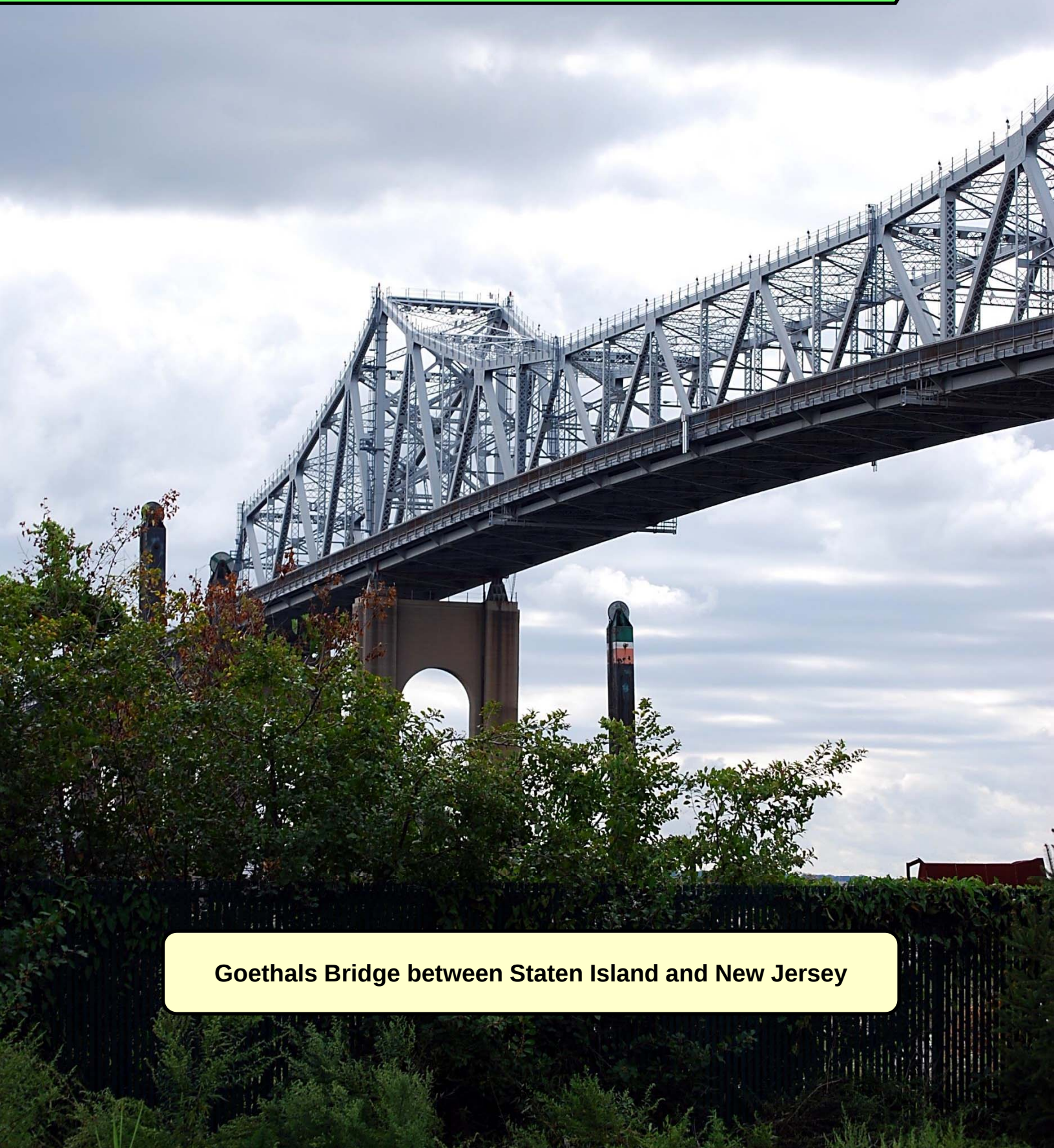
10-Year Volume Changes ~ 2006 - 2016

Brooklyn - Queens Screenline Daily Volumes

Total of Both Directions



New York City Screenline



Goethals Bridge between Staten Island and New Jersey

NEW YORK CITY SCREENLINE

In 1963, when the first comprehensive New York City border screenline data were collected, average daily two-way volume at the 29 locations studied was 1,109,201.

- Queens - Nassau screenline: 546,550 daily vehicles, 49.3% of total monitored New York City border screenlines volume.
- Bronx – Westchester screenline: 269,650 daily vehicles, 24.3%.
- Manhattan - New Jersey screenline: 265,603 daily vehicles, 23.9%.
- Staten Island – New Jersey screenline: 27,398 daily vehicles, 2.5%.
- Volumes on Van Cortlandt Park East in The Bronx, and Central Avenue and Seagirt Boulevard in Queens, were not collected prior to 1986.

1963 - 1973

Traffic volume recorded at the City borders rose 36.2%, to an average of 1,510,653 vehicles per day in 1973 from 1,109,201 in 1963 (401,452 additional daily vehicles).

- Increases exceeded 20% at all City border screenlines.
- Volume on the three Staten Island – New Jersey bridges nearly tripled, to 81,034 daily vehicles in 1973 from 27,398 in 1963.
- Largest numerical increase at the Manhattan – New Jersey screenline, where daily volume increased to 397,203 daily vehicles in 1973 from 265,603 in 1963 (+49.5%, or 131,600 additional daily vehicles).
- Bronx – Westchester traffic increased 34.1% to 361,714 daily vehicles from 269,650.
- Queens - Nassau traffic increased 22.7% to 670,702 daily vehicles from 546,550.

1973 - 1982

Growth slowed during this nine-year period, with volume recorded at the City borders rising 10.4% to 1,667,312 daily vehicles 1982 from 1,510,653 in 1973.

- Traffic continued to increase at all City boundaries.
- Staten Island – New Jersey traffic increased 31.6% to 106,672 daily vehicles in 1982 from 81,034 in 1973.
- Bronx – Westchester traffic increased 14.4% to 413,750 daily vehicles from 361,714.
- Manhattan – New Jersey traffic increased 9.2% to 433,744 daily vehicles from 397,203.
- Queens - Nassau traffic increased 6.3% to 713,146 daily vehicles from 670,702.

1982 - 1986

Faster growth resumed, as monitored traffic at the City borders increased 14.8% during this four-year period, to 1,914,827 daily vehicles in 1986 from 1,667,312 in 1982 (excluding Van Cortlandt Park East in The Bronx, and Central Avenue and Seagirt Boulevard in Queens where traffic was not counted in 1982).

- Staten Island – New Jersey traffic increased 29.8%, to 138,436 daily vehicles in 1986 from 106,672 in 1982.
- Bronx – Westchester traffic increased 14.6% to 474,013 daily vehicles from 413,750.
- Queens – Nassau traffic increased 14.5% to 816,627 daily vehicles from 713,146.
- Manhattan – New Jersey traffic increased 12.0% to 485,751 daily vehicles from 433,744.

1986 - 1996

Monitored traffic at the New York City boundaries increased 6.8% during this ten-year period, to 2,083,875 daily vehicles in 1996 from 1,950,977 in 1986 (including Van Cortlandt Park East in The Bronx, and Central Avenue and Seagirt Boulevard in Queens where traffic was counted for the first time in 1986).

- Bronx – Westchester traffic increased 13.4%, to 547,972 daily vehicles in 1996 from 483,252 in 1986.
- Queens - Nassau traffic increased 6.2%, to 896,144 daily vehicles from 843,538.
- Staten Island – New Jersey traffic increased 5.9%, to 146,565 daily vehicles from 138,436.
- Traffic between Manhattan and New Jersey increased 1.5%, to 493,194 daily vehicles in 1996 from 485,751 in 1986.

1996 - 2006

From 1996 to 2006, monitored traffic at the New York City boundaries increased 9.1%, to 2,272,769 daily vehicles in 2006 from 2,083,875 in 1996.

- Bronx – Westchester traffic increased 14.0%, to 624,558 daily vehicles in 2006 from 547,972 in 1996.
- Queens - Nassau traffic increased 4.3%, to 934,549 daily vehicles 2006 from 896,144 in 1996.
- Staten Island – New Jersey daily volume increased 20.0%, to 175,914 from 146,565.
- Manhattan - New Jersey daily volume increased 9.0%, to 537,748 from 493,194.

2006 - 2016

During the most recent ten-year period, from 2006 to 2016, monitored traffic at the New York City boundaries decreased 0.5%, to 2,262,402 daily vehicles in 2016 from 2,272,769 in 2006.

- Bronx – Westchester traffic increased 2.8%, to 642,188 daily vehicles in 2016 from 624,558 in 2006.

- Manhattan - New Jersey traffic decreased 8.4%, to 492,614 daily vehicles from 537,748.
- Staten Island - New Jersey traffic decreased 3.9%, to 168,984 daily vehicles from 175,914.
- Queens - Nassau traffic increased 2.6%, to 958,616 daily vehicles in 2016 from 934,549 in 2006.

1963 - 2016

From 1963 to 2016, daily two-way traffic at the 29 City border locations monitored throughout the period nearly doubled, to 2,220,857 in 2016 from 1,109,201 in 1963.

- Staten Island – New Jersey traffic skyrocketed by 516.8%, to 168,984 daily vehicles in 2016 from 27,398 in 1963, largely as a result of the opening of the Verrazano–Narrows Bridge in 1964.
- Manhattan – New Jersey traffic increased 85.5%, to 492,614 daily vehicles in 2016 from 265,603 in 1963, fostered in part by the opening of the George Washington Bridge's lower level in 1962 and the Alexander Hamilton Bridge/Trans-Manhattan Expressway route in 1963 which facilitated travel between Bronx/Queens/Long Island/New England and New Jersey via upper Manhattan. From 1962 to 1966, George Washington Bridge traffic increased 50.6% to 167,304 daily vehicles from 111,090.
- During the 53-year period from 1963 to 2016, continuously monitored daily traffic increased 135% between The Bronx and Westchester (to 633,676 from 269,650), and 69.4% between Queens and Nassau (to 925,583 from 546,550).

New York City Screenline

2016 Daily Volumes



**New York City Screenline
Historical Comparisons
Average Daily Traffic Volumes**

Entering New York City

	1963	1973	1982	1986	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Bronx - Westchester	131,910	179,678	206,402	244,083	258,711	262,045	269,207	276,672	285,235	287,874	297,196	298,464	308,307	314,460	315,038
Queens - Nassau	272,360	334,940	373,479	417,005	448,046	450,332	448,742	445,915	452,167	457,372	473,858	472,861	473,363	468,813	485,332
NJ - Manhattan	N/A	196,532	215,979	240,921	234,479	235,840	239,529	246,107	250,864	257,725	263,502	265,463	222,389	254,895	260,117
NJ - Staten Island	N/A	40,517	53,336	69,218	75,601	77,266	77,173	78,703	81,449	83,209	86,553	87,705	94,413	90,510	92,108
Totals	N/A	751,667	849,196	971,227	1,016,837	1,025,483	1,034,651	1,047,397	1,069,715	1,086,180	1,121,109	1,124,493	1,098,472	1,128,678	1,152,595

Entering New York City

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Bronx - Westchester	320,086	323,025	314,134	325,814	304,452	312,818	313,603	305,764	305,217	309,307	315,416	316,524	325,963
Queens - Nassau	480,260	473,349	462,916	469,587	477,437	473,526	480,213	475,313	483,838	486,161	478,260	480,729	471,144
NJ - Manhattan	262,050	256,289	261,612	258,412	247,975	249,308	247,690	236,301	238,204	234,628	233,180	236,859	241,283
NJ - Staten Island	90,852	89,928	91,340	92,438	88,392	89,461	90,442	88,053	87,004	84,411	84,320	86,796	89,870
Totals	1,153,248	1,142,591	1,130,002	1,146,251	1,118,256	1,125,113	1,131,948	1,105,431	1,114,263	1,114,507	1,111,176	1,120,908	1,128,260

* Actual 24 hour westbound volumes from Staten Island to New Jersey not available for 1973, 1982, and 1986; estimated to be the same as eastbound volumes to Staten Island obtained from toll records.

* 1963 NY - NJ volumes not available by direction.

**New York City Screenline
Historical Comparisons
Average Daily Traffic Volumes
(Continued)**

Leaving New York City

	1963	1973	1982	1986	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Bronx - Westchester	137,740	182,036	207,348	239,169	247,480	253,808	262,734	271,300	269,448	277,872	286,819	292,558	298,359	305,478	304,411
Queens - Nassau	274,190	335,762	339,667	426,533	444,272	446,843	444,001	450,229	454,964	462,031	473,185	467,286	473,364	475,193	483,362
NJ - Manhattan	N/A	200,671	217,765	244,830	238,590	237,959	242,569	247,087	253,924	264,787	285,850	283,002	236,555	277,944	287,332
NJ - Staten Island	N/A	40,517	53,336	69,218	65,174	66,609	66,484	67,862	70,129	73,577	80,337	76,963	82,838	88,630	82,474
Totals	N/A	758,986	818,116	979,750	995,516	1,005,219	1,015,788	1,036,478	1,048,465	1,078,267	1,126,191	1,119,809	1,091,116	1,147,245	1,157,579

Leaving New York City

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Bronx - Westchester	307,208	310,325	310,424	310,024	294,146	296,486	303,875	295,745	299,420	301,025	304,760	305,955	316,225
Queens - Nassau	485,345	485,740	471,633	482,622	474,068	482,075	483,455	482,345	480,382	483,843	478,931	478,931	487,472
NJ - Manhattan	274,346	271,428	276,136	255,562	260,294	255,552	258,856	254,808	244,353	245,191	244,632	261,411	251,331
NJ - Staten Island	83,416	81,725	84,574	77,790	77,384	76,043	77,690	81,483	76,702	73,856	71,298	76,422	79,114
Totals	1,150,315	1,149,218	1,142,767	1,125,998	1,105,892	1,110,156	1,123,876	1,114,381	1,100,857	1,103,915	1,099,621	1,122,719	1,134,142

* Actual 24 hour westbound volumes from Staten Island to New Jersey not available for 1973, 1982, and 1986; estimated to be the same as eastbound volumes to Staten Island obtained from toll records.

* 1963 NY - NJ volumes not available by direction.

**New York City Screenline
Historical Comparisons
Average Daily Traffic Volumes
(Continued)**

Both Directions

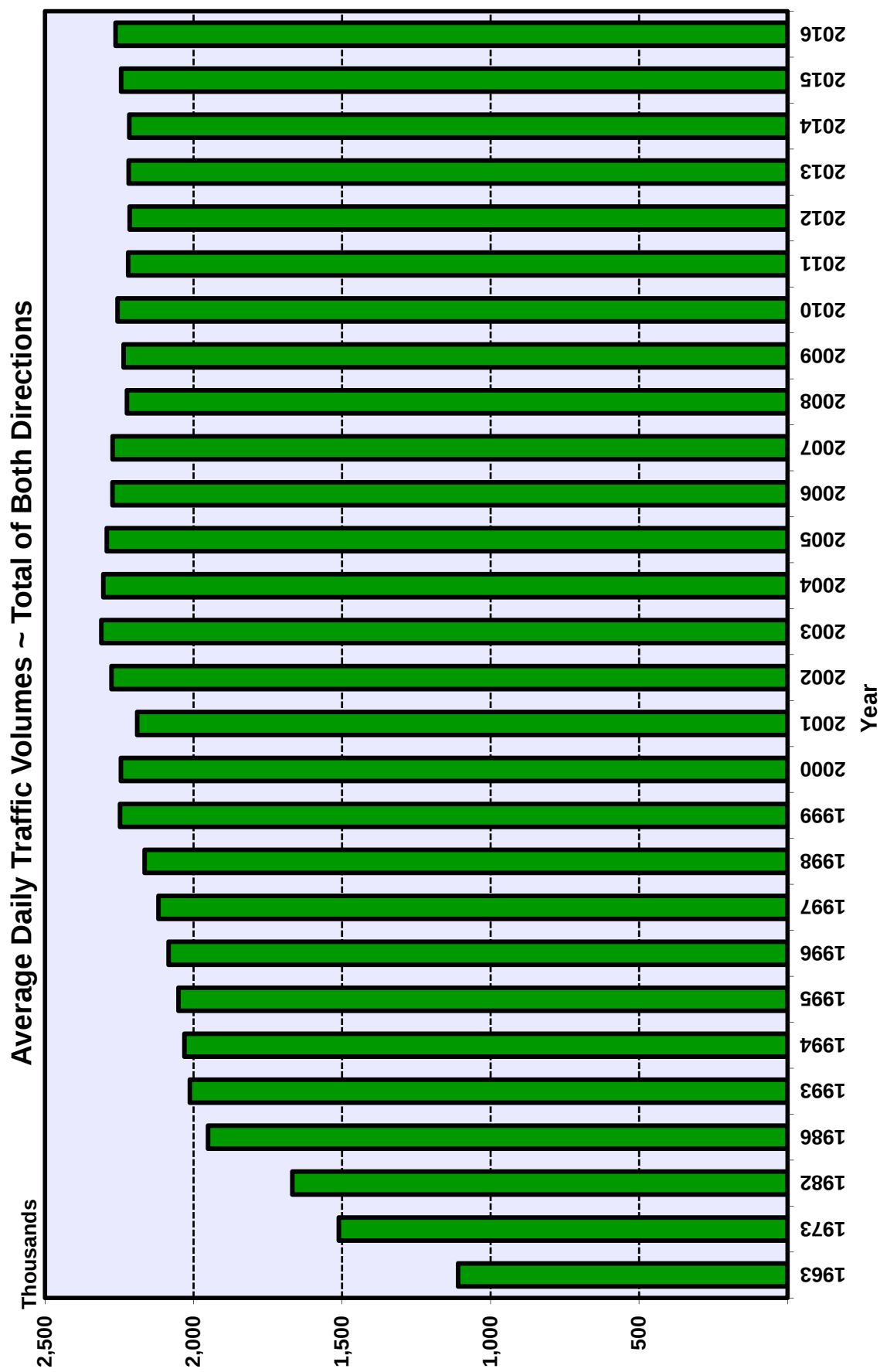
	1963	1973	1982	1986	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Bronx - Westchester	269,650	361,714	413,750	483,252	506,191	515,853	531,941	547,972	554,683	565,746	584,015	591,022	606,666	619,938	619,449
Queens - Nassau	546,550	670,702	713,146	843,538	892,318	897,175	892,743	896,144	907,131	919,403	947,043	940,147	946,727	944,006	968,694
NJ - Manhattan	265,603	397,203	433,744	485,751	473,069	473,799	482,098	493,194	504,788	522,512	549,352	548,465	458,944	532,839	547,449
NJ - Staten Island	27,398	81,034	106,672	138,436	140,775	143,875	143,657	146,565	151,578	156,786	166,890	164,668	177,251	179,140	174,582
Totals	1,109,201	1,510,653	1,667,312	1,950,977	2,012,353	2,030,702	2,050,439	2,083,875	2,118,180	2,164,447	2,247,300	2,244,302	2,189,588	2,275,923	2,310,174

Both Directions

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Bronx - Westchester	627,294	633,350	624,558	635,838	598,598	609,304	617,478	601,509	604,637	610,332	620,176	622,479	642,188
Queens - Nassau	965,605	959,089	934,549	952,209	951,505	955,601	963,668	957,658	964,220	970,004	957,191	959,660	958,616
NJ - Manhattan	536,396	527,717	537,748	513,974	508,269	504,860	506,546	491,109	482,557	479,819	477,812	498,270	492,614
NJ - Staten Island	174,268	171,653	175,914	170,228	165,776	165,504	168,132	169,536	163,706	158,267	155,618	163,218	168,984
Totals	2,303,563	2,291,809	2,272,769	2,272,249	2,224,148	2,235,269	2,255,824	2,219,812	2,215,120	2,218,422	2,210,797	2,243,627	2,262,402

* Actual 24 hour westbound volumes from Staten Island to New Jersey not available for 1973, 1982, and 1986; estimated to be the same as eastbound volumes to Staten Island obtained from toll records.

New York City Border Screenline Historical Comparisons



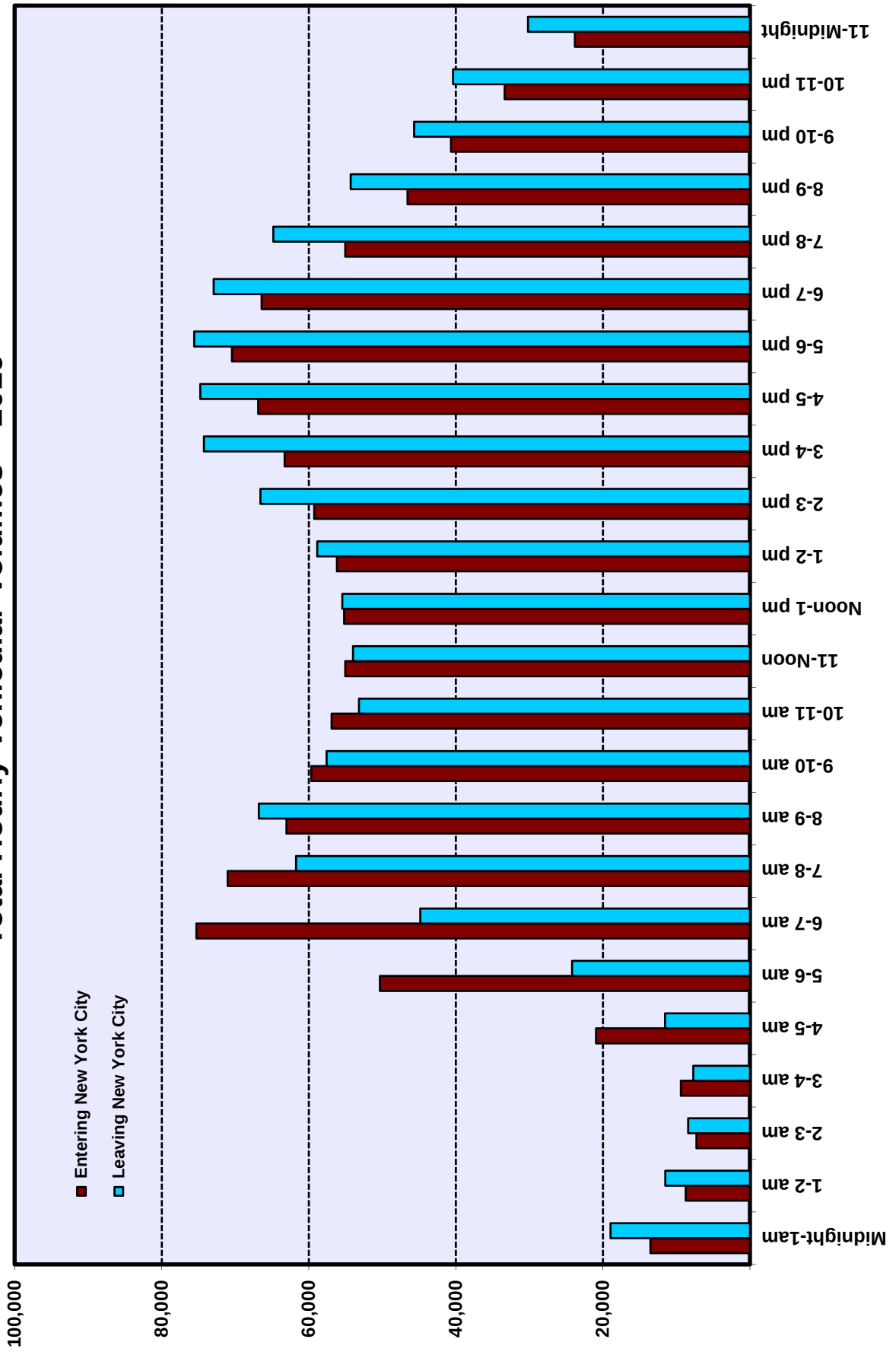
Includes Bronx-Westchester, Queens-Nassau, and New York-New Jersey Screenlines.

New York City Border Screenline Traffic Volumes ~ 2016

	Bronx-Westchester		Queens-Nassau		Manhattan		Staten Island		NYC Totals	
	To Bronx	To W'chstr	To Qns.	To Nas.	To Manh.	To N.J.	To S.I.	To N.J.	To N.Y.C.	From N.Y.C.
Mid-1am	3,845	4,707	4,925	7,963	3,508	5,410	1,262	879	13,540	18,959
1-2am	2,509	2,782	2,971	4,525	2,450	3,688	806	512	8,736	11,507
2-3am	2,004	2,136	2,630	3,205	1,968	2,637	666	425	7,268	8,403
3-4am	2,419	2,315	3,897	2,796	2,285	2,207	799	389	9,400	7,707
4-5am	4,726	3,477	10,601	4,278	4,118	2,985	1,492	808	20,937	11,548
5-6am	12,468	7,085	21,490	9,255	12,568	5,763	3,799	2,083	50,325	24,186
6-7am	22,698	12,895	27,905	19,237	19,073	8,922	5,610	3,782	75,286	44,836
7-8am	22,502	17,985	26,786	27,116	16,684	10,983	5,068	5,649	71,040	61,733
8-9am	18,566	18,878	24,961	30,373	14,791	11,532	4,713	6,006	63,031	66,789
9-10am	16,849	14,953	23,831	27,621	14,589	10,383	4,397	4,621	59,666	57,578
10-11am	15,651	14,423	23,330	24,388	13,810	10,186	4,114	4,170	56,905	53,167
11-Noon	15,666	14,742	23,290	24,494	12,263	10,702	3,818	4,038	55,037	53,976
Noon-1	15,730	14,979	24,308	25,540	11,336	11,260	3,817	3,670	55,191	55,449
1-2pm	15,947	16,083	24,939	26,406	11,165	12,471	4,124	3,897	56,175	58,857
2-3pm	17,237	18,832	25,905	28,985	11,624	14,210	4,502	4,559	59,268	66,586
3-4pm	18,793	21,545	27,184	30,962	11,995	16,486	5,314	5,259	63,286	74,252
4-5pm	19,948	22,048	28,930	30,741	12,045	16,339	5,948	5,620	66,871	74,748
5-6pm	21,383	21,658	30,170	30,552	12,081	17,535	6,813	5,833	70,447	75,578
6-7pm	19,615	19,983	27,763	31,022	12,349	17,115	6,682	4,808	66,409	72,928
7-8pm	15,815	17,816	23,762	28,247	10,722	15,147	4,740	3,615	55,039	64,825
8-9pm	13,316	14,940	20,670	23,394	8,864	13,022	3,726	2,947	46,576	54,303
9-10pm	11,690	12,742	17,552	18,639	8,200	12,065	3,211	2,222	40,653	45,668
10-11pm	9,517	11,201	13,929	15,992	7,347	11,286	2,571	1,904	33,364	40,383
11-Mid	7,069	8,020	9,415	11,741	5,448	8,997	1,878	1,418	23,810	30,176
24 hr Total	325,963	316,225	471,144	487,472	241,283	251,331	89,870	79,114	1,128,260	1,134,142
6-10am	80,615	64,711	103,483	104,347	65,137	41,820	19,788	20,058	269,023	230,936
10am-1pm	47,047	44,144	70,928	74,422	37,409	32,148	11,749	11,878	167,133	162,592
1-3pm	33,184	34,915	50,844	55,391	22,789	26,681	8,626	8,456	115,443	125,443
3-7pm	79,739	85,234	114,047	123,277	48,470	67,475	24,757	21,520	267,013	297,506
6am-7pm	240,585	229,004	339,302	357,437	173,805	168,124	64,920	61,912	818,612	816,477

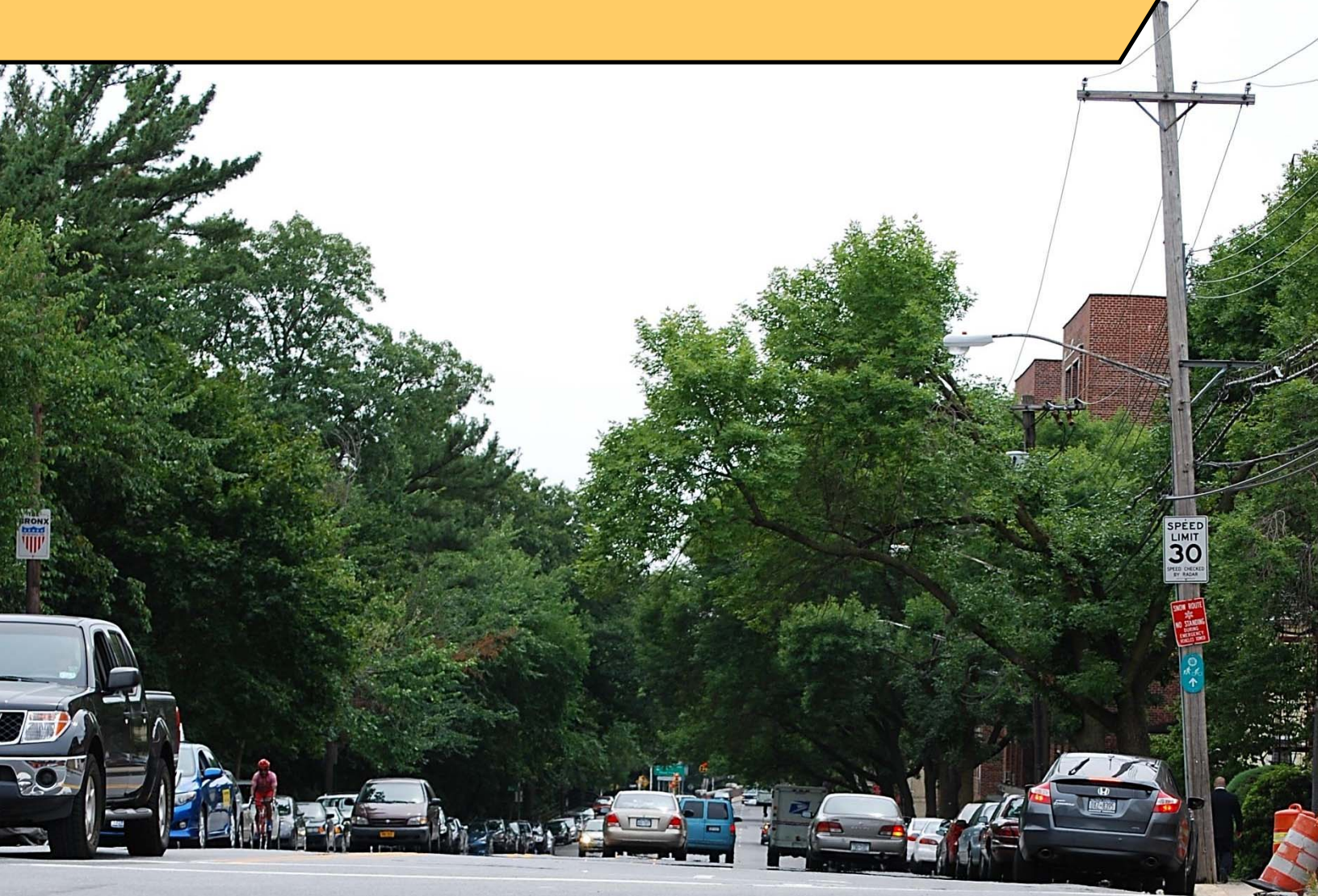
New York City Border Screenline Volumes

Total Hourly Vehicular Volumes ~ 2016



Includes Bronx-Westchester, Queens-Nassau, and New York-New Jersey Screenlines.

Bronx-Westchester Screenline



**Webster Avenue at Bronx-Westchester Screenline
Looking South**

BRONX - WESTCHESTER SCREENLINE

In 1963, the first year that Bronx - Westchester screenline data were analyzed, average daily two-way volume on the ten roadways studied was 269,650 vehicles.

- The Major Deegan Expressway (including service roads) was the most-traveled facility, serving 68,280 vehicles per day, 25.3% of total monitored Bronx - Westchester traffic.
- The New England Thruway carried 56,070 vehicles per day, 20.8% of the total.
- Volumes on Van Cortlandt Park East were not collected prior to 1986.

1963 - 1973

Traffic crossing the Bronx – Westchester screenline increased 34.1%, to an average of 361,714 vehicles per day in 1973 from 269,650 in 1963 (92,064 additional daily vehicles).

- Major Deegan Expressway traffic (including service roads) increased 33.2%, to 90,920 daily vehicles in 1973 from 68,280 in 1963.
- New England Thruway traffic increased 47.4%, to 82,620 daily vehicles in 1973 from 56,070 in 1963.
- Hutchinson River Parkway traffic increased 80.1%, 29,090 daily vehicles from 16,150.
- Traffic on Boston Road doubled, to 22,813 daily vehicles from 10,980.

1973 - 1982

Growth moderated during this nine-year period, as average daily traffic recorded at the Bronx – Westchester screenline increased 14.4% to 413,750 daily vehicles in 1982 from 361,714 in 1973.

- Hutchinson River Parkway had the largest increase, +65.9% to 48,263 daily vehicles in 1982 from 29,090 in 1973.

1982 - 1986

Growth accelerated between 1982 and 1986, increasing Bronx - Westchester traffic to 474,013 daily vehicles, an increase of 14.6% over the four-year period (excluding Van Cortlandt Park East where traffic was not counted in 1982).

- Henry Hudson Parkway traffic increased 27.5%, to 53,263 daily vehicles in 1986 from 41,776 in 1982.
- On the Major Deegan Expressway and its service roads, traffic increased 27.0%, to 124,872 daily vehicles in 1986 from 98,288 in 1982.
- Bronx River Parkway daily traffic increased 20.3% to 79,194 from 65,843.

1986 - 1996

During this ten-year period, traffic crossing the Bronx - Westchester border increased by 13.4%, to 547,972 daily vehicles in 1996 from 483,252 in 1986 (including Van Cortlandt Park East, where traffic was counted for the first time in 1986).

- Henry Hudson Parkway traffic increased 48.1%, to 78,869 daily vehicles in 1996 from 53,263 in 1986 (25,606 additional daily vehicles).
- Hutchinson River Parkway traffic increased 52.3%, to 82,688 daily vehicles from 54,287 (28,401 additional daily vehicles).

1996 - 2006

Bronx - Westchester screenline traffic volume increased 14.0%, to 624,558 in 2006 from 547,972 in 1996.

- Henry Hudson Parkway traffic increased 26.0% to 99,344 daily vehicles in 2006 from 78,869 in 1996.
- New England Thruway traffic increased 23.2% to 135,159 daily vehicles from 109,749.
- Hutchinson River Parkway traffic increased 7.0%, to 88,445 daily vehicles from 82,688.
- Bronx River Parkway traffic increased 12.5%, to 92,123 daily vehicles from 81,879.

2006 - 2016

During the most recent ten-year period, from 2006 to 2016, Bronx - Westchester screenline traffic overall has decreased by 2.8%, to 642,188 daily vehicles in 2016 from 624,558 in 2006.

- Decreases occurred on six of the eleven monitored facilities.
- The largest decrease occurred on the Riverdale Avenue, where daily volume decreased by 2,447 vehicles, to 9,023 in 2016 from 11,470 in 2006 (-21.3%).
- The largest increase was on the Bronx River Parkway, where traffic increased by 10.5%, to 101,831 daily vehicles in 2016 from 92,123 in 2006 (9,708 additional daily vehicles).

1963 - 2016

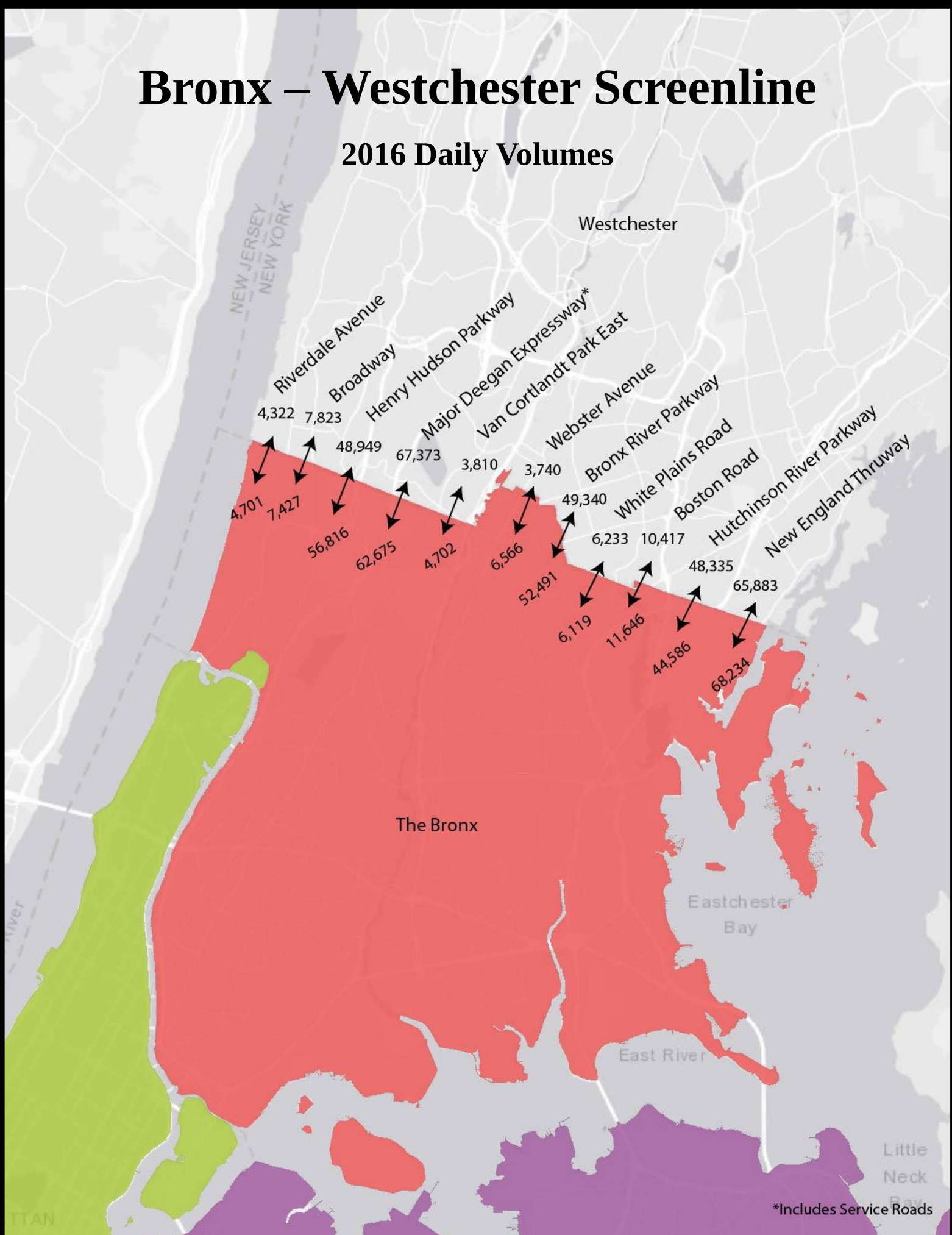
During the 53 years from 1963 to 2016, total daily traffic on the ten Bronx – Westchester facilities monitored throughout the period more than doubled, to 633,676 from 269,650.

- Most of the growth in Bronx - Westchester traffic since 1963 has occurred on the five limited access highways crossing the screenline.
- Of the 364,026 additional daily vehicles on the ten continuously-monitored facilities, 351,052 (96.4% of the total increase) are on the limited access highways.
- The fastest growth occurred on the Hutchinson River Parkway, where traffic volume soared 475%, to 92,921 daily vehicles in 2016 from 16,150 in 1963.
- Henry Hudson Parkway volume more than tripled, to 105,765 daily vehicles in 2016 from 29,010 in 1963.

- New England Thruway Traffic volume climbed 139%, to 134,117 daily vehicles from 56,070.
- Bronx River Parkway daily traffic volume more than doubled, to 101,831 from 44,120.
- Traffic volume on the Major Deegan Expressway and its service roads was up 91%, to 130,048 daily vehicles from 68,280.
- Boston Road exhibited the largest change of any arterial facility since 1963, with daily traffic volume rising 101%, to 22,063 from 10,980.

Bronx – Westchester Screenline

2016 Daily Volumes



**Bronx-Westchester Screenline
Historical Comparisons
Average Daily Traffic Volumes**

To Bronx

	1963	1973	1982	1986	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Boston Rd	5,080	11,026	9,737	10,514	12,140	11,609	11,068	11,429	12,868	12,443	13,258	11,514	13,262	12,997	13,839
Broadway	6,570	7,169	4,465	7,679	8,017	8,074	8,114	8,113	8,020	8,331	8,096	8,292	8,143	7,989	8,117
Bronx River Pky	23,060	28,100	34,908	40,561	39,855	40,684	41,902	43,106	42,330	41,526	44,719	45,296	46,681	49,382	47,061
Henry Hudson Pky	16,170	18,300	19,728	29,720	34,445	36,721	39,857	41,537	44,136	40,811	46,359	47,922	51,091	52,378	51,151
Hutch River Pky	7,110	13,690	23,515	26,737	32,980	34,226	35,461	40,124	40,584	40,878	41,242	41,359	44,624	46,446	44,690
Major Deegan Exp*	28,780	45,520	46,396	59,902	59,934	55,397	54,819	52,995	54,548	55,106	54,438	53,403	54,052	56,811	59,430
New England Thruway	29,460	40,770	51,683	47,288	50,172	53,462	55,084	56,690	59,817	65,314	65,302	67,655	66,091	64,042	66,454
Riverdale Ave	5,130	5,523	4,789	5,878	6,044	5,615	5,794	5,961	6,191	5,994	5,904	5,539	5,816	5,643	5,490
Van Cortlandt Pk E*	N/A	N/A	N/A	4,806	4,721	4,554	4,770	4,569	4,686	4,974	5,623	5,015	5,399	5,816	5,874
Webster Ave	5,950	3,650	5,119	5,447	6,393	5,943	6,300	6,289	6,343	6,318	6,093	6,378	6,605	6,736	6,804
White Plains Rd	4,600	5,930	6,062	5,551	4,010	5,760	6,038	5,859	5,712	6,179	6,162	6,091	6,543	6,220	6,128
Totals	131,910	179,678	206,402	244,083	258,711	262,045	269,207	276,672	285,235	287,874	297,196	298,464	308,307	314,460	315,038

To Bronx

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Boston Rd	13,016	12,370	12,537	12,418	12,210	11,578	11,788	12,445	12,361	11,877	12,884	12,584	11,646
Broadway	8,125	8,196	8,327	7,971	7,641	7,560	7,612	7,172	7,808	7,329	6,979	7,343	7,427
Bronx River Pky	47,666	48,587	47,918	47,563	46,292	48,112	48,391	45,340	48,709	48,235	48,457	49,872	52,491
Henry Hudson Pky	51,983	54,310	52,413	55,925	50,068	50,862	52,077	50,327	49,260	51,631	52,990	52,338	56,816
Hutch River Pky	48,534	46,537	42,783	47,698	45,313	45,184	46,677	44,321	42,048	42,742	43,006	43,354	44,586
Major Deegan Exp*	58,735	58,734	59,856	61,525	57,220	59,121	57,429	54,972	55,165	57,627	59,506	60,646	62,675
New England Thruway	66,869	68,815	65,776	68,247	62,231	67,328	66,730	69,032	66,234	68,478	69,775	69,089	68,234
Riverdale Ave	6,098	6,167	5,965	6,160	5,550	4,835	5,001	5,523	5,217	4,655	4,828	5,026	4,701
Van Cortlandt Pk E*	6,193	5,952	6,012	5,388	5,636	5,842	5,443	4,811	5,389	4,795	4,555	4,283	4,702
Webster Ave	6,885	7,003	6,634	6,412	6,214	6,349	6,232	5,913	6,234	5,678	5,994	6,037	6,566
White Plains Rd	5,982	6,354	5,913	6,507	6,077	6,047	6,223	5,908	6,792	6,260	6,442	5,952	6,119
Totals	320,086	323,025	314,134	325,814	304,452	312,818	313,603	305,764	305,217	309,307	315,416	316,524	325,963

* Includes service roads.

* Van Cortlandt Park East not counted prior to 1986

**Bronx-Westchester Screenline
Historical Comparisons
Average Daily Traffic Volumes
(continued)**

To Westchester

	1963	1973	1982	1986	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Boston Rd	5,900	11,787	13,073	10,057	10,424	10,366	10,299	12,030	12,227	11,913	11,386	11,627	12,825	12,296	13,198
Broadway	9,130	8,562	7,845	7,905	8,578	8,739	8,122	8,409	8,227	8,182	8,297	8,045	8,152	8,005	8,353
Bronx River Pky	21,060	26,111	30,935	38,633	35,678	36,559	37,672	38,773	37,772	38,693	40,645	41,174	42,812	45,596	43,908
Henry Hudson Pky	12,840	17,090	22,048	23,543	28,644	30,548	37,396	37,332	38,360	37,743	40,962	42,520	44,236	45,624	47,583
Hutch River Pky	9,040	15,400	24,748	27,550	33,450	35,807	38,148	42,564	42,444	41,910	43,371	44,356	44,027	47,490	44,858
Major Deegan Exp*	39,500	45,400	51,892	64,970	65,325	63,181	59,176	57,953	54,584	59,612	58,887	60,781	62,772	62,022	64,285
New England Thruway	26,610	41,850	46,771	45,574	44,789	47,810	50,441	53,059	55,179	58,906	62,468	63,289	61,554	62,469	61,103
Riverdale Ave	4,850	5,198	5,032	5,893	5,877	5,636	5,751	5,851	5,731	5,656	5,014	5,235	6,143	5,187	5,464
Van Cortlandt Pk E*	N/A	N/A	N/A	4,433	4,261	4,234	4,321	4,430	4,543	4,497	5,010	4,885	4,961	4,801	4,625
Webster Ave	4,200	4,478	2,719	4,363	4,088	4,281	4,112	4,154	3,977	4,272	4,181	3,866	4,236	4,811	4,630
White Plains Rd	4,610	6,160	2,285	6,248	6,366	6,647	7,296	6,745	6,404	6,488	6,598	6,780	6,641	7,177	6,404
Totals	137,740	182,036	207,348	239,169	247,480	253,808	262,734	271,300	269,448	277,872	286,819	292,558	298,359	305,478	304,411

To Westchester

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Boston Rd	11,596	12,099	11,866	11,932	10,897	10,124	12,144	12,156	11,307	10,641	10,969	10,530	10,417
Broadway	7,778	8,256	7,611	7,848	7,745	7,646	7,705	7,354	7,653	7,246	7,127	7,494	7,823
Bronx River Pky	46,473	45,883	44,205	44,441	41,385	41,516	43,302	40,710	42,665	44,690	44,185	47,285	49,340
Henry Hudson Pky	46,067	46,797	46,931	48,400	43,637	45,120	45,809	43,261	45,713	44,565	46,833	47,000	48,949
Hutch River Pky	47,731	45,718	45,662	42,052	45,660	46,478	46,568	46,023	45,812	45,395	47,023	44,324	48,335
Major Deegan Exp*	63,451	62,823	64,320	64,498	62,438	62,827	62,988	61,650	61,463	63,910	65,891	64,511	67,373
New England Thruway	63,168	67,393	69,383	69,530	62,241	63,167	66,065	65,744	65,179	66,119	64,723	66,476	65,883
Riverdale Ave	5,261	5,636	5,505	5,581	5,355	4,703	4,591	4,875	5,005	4,375	3,998	4,645	4,322
Van Cortlandt Pk E*	4,577	4,779	4,663	4,537	4,738	4,810	4,714	4,311	4,369	4,339	4,055	3,870	3,810
Webster Ave	4,523	4,321	3,901	4,301	3,649	3,764	3,579	3,561	3,682	3,353	3,529	3,654	3,740
White Plains Rd	6,583	6,620	6,377	6,904	6,401	6,331	6,410	6,100	6,572	6,392	6,427	6,166	6,233
Totals	307,208	310,325	310,424	310,024	294,146	296,486	303,875	295,745	299,420	301,025	304,760	305,955	316,225

* Includes service roads.

* Van Cortlandt Park East not counted prior to 1986

**Bronx-Westchester Screenline
Historical Comparisons
Average Daily Traffic Volumes
(continued)**

Both Directions

	1963	1973	1982	1986	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Boston Rd	10,980	22,813	22,810	20,571	22,564	21,975	21,367	23,459	25,095	24,356	24,644	23,141	26,087	25,293	27,037
Broadway	15,700	15,731	12,310	15,584	16,595	16,813	16,236	16,522	16,247	16,513	16,393	16,337	16,295	15,994	16,470
Bronx River Pky	44,120	54,211	65,843	79,194	75,533	77,243	79,574	81,879	80,102	80,219	85,364	86,470	89,493	94,978	90,969
Henry Hudson Pky	29,010	35,390	41,776	53,263	63,089	67,269	77,253	78,869	82,496	78,554	87,321	90,442	95,327	98,002	98,734
Hutch River Pky	16,150	29,090	48,263	54,287	66,430	70,033	73,609	82,688	83,028	82,788	84,613	85,715	88,651	93,936	89,548
Major Deegan Exp*	68,280	90,920	98,288	124,872	125,259	118,578	113,995	110,948	109,132	114,718	113,325	114,184	116,824	118,833	123,715
New England Thruway	56,070	82,620	98,454	92,862	94,961	101,272	105,525	109,749	114,996	124,220	127,770	130,944	127,645	126,511	127,557
Riverdale Ave	9,980	10,721	9,821	11,771	11,921	11,251	11,545	11,812	11,922	11,650	10,918	10,774	11,959	10,830	10,954
Van Cortlandt Pk E*	N/A	N/A	N/A	9,239	8,982	8,788	9,091	8,999	9,229	9,471	10,633	9,900	10,360	10,617	10,499
Webster Ave	10,150	8,128	7,838	9,810	10,481	10,224	10,412	10,443	10,320	10,590	10,274	10,244	10,841	11,547	11,434
White Plains Rd	9,210	12,090	8,347	11,799	10,376	12,407	13,334	12,604	12,116	12,667	12,760	12,871	13,184	13,397	12,532
Totals	269,650	361,714	413,750	483,252	506,191	515,853	531,941	547,972	554,683	565,746	584,015	591,022	606,666	619,938	619,449

Both Directions

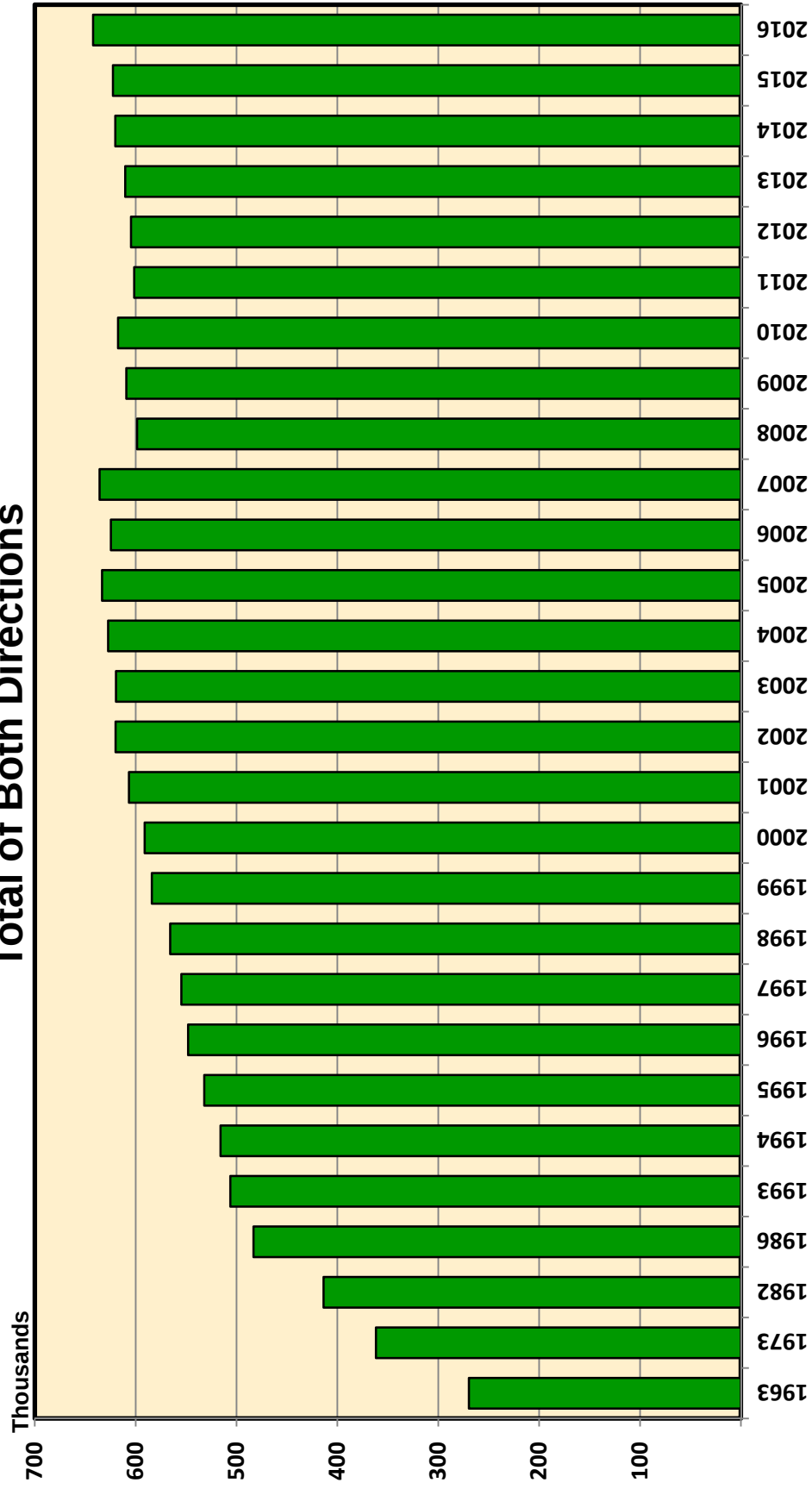
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Boston Rd	24,612	24,469	24,403	24,350	23,107	21,702	23,932	24,601	23,668	22,518	23,853	23,114	22,063
Broadway	15,903	16,452	15,938	15,819	15,386	15,206	15,317	14,526	15,461	14,575	14,106	14,837	15,250
Bronx River Pky	94,139	94,470	92,123	92,004	87,677	89,628	91,693	86,050	91,374	92,925	92,642	97,157	101,831
Henry Hudson Pky	98,050	101,107	99,344	104,325	93,705	95,982	97,886	93,588	94,973	96,196	99,823	99,338	105,765
Hutch River Pky	96,265	92,255	88,445	89,750	90,973	91,662	93,245	90,344	87,860	88,137	90,029	87,678	92,921
Major Deegan Exp*	122,186	121,557	124,176	126,023	119,658	121,948	120,417	116,622	116,628	121,537	125,397	125,157	130,048
New England Thruway	130,037	136,208	135,159	137,777	124,472	130,495	132,795	134,776	131,413	134,597	134,498	135,565	134,117
Riverdale Ave	11,359	11,803	11,470	11,741	10,905	9,538	9,592	10,398	10,222	9,030	8,826	9,671	9,023
Van Cortlandt Pk E*	10,770	10,731	10,675	9,925	10,374	10,652	10,157	9,122	9,758	9,134	8,610	8,153	8,512
Webster Ave	11,408	11,324	10,535	10,713	9,863	10,113	9,811	9,474	9,916	9,031	9,523	9,691	10,306
White Plains Rd	12,565	12,974	12,290	13,411	12,478	12,378	12,633	12,008	13,364	12,652	12,869	12,118	12,352
Totals	627,294	633,350	624,558	635,838	598,598	609,304	617,478	601,509	604,637	610,332	620,176	622,479	642,188

* Includes service roads.

* Van Cortlandt Park East not counted prior to 1986

Bronx – Westchester Screenline

Historical Comparisons
Average Daily Traffic Volumes
Total of Both Directions



2016 Screenline Volumes Bronx - Westchester

	Boston Rd		Broadway		Bronx River Parkway		Henry Hudson Parkway		Hutchinson River Parkway		Major Deegan Expressway		Major Deegan (Service Rd)	
	S/B*	N/B	S/B*	N/B	S/B*	N/B	S/B*	N/B	S/B*	N/B	S/B*	N/B	S/B*	N/B
Mid-1am	49	48	62	101	642	532	383	669	461	731	946	1,266	42	137
1-2am	43	34	47	69	305	275	190	338	219	320	639	790	37	85
2-3am	59	39	50	48	215	177	135	202	151	196	490	500	21	51
3-4am	72	67	88	60	251	200	142	139	191	179	539	529	24	34
4-5am	209	161	217	103	467	317	383	199	523	377	996	735	40	33
5-6am	364	317	406	219	1,622	803	1,689	521	1,543	1,234	2,742	1,365	149	80
6-7am	676	464	696	311	4,168	1,832	4,613	1,443	2,961	2,564	4,201	2,458	249	175
7-8am	655	527	536	408	4,101	2,909	4,697	2,653	3,486	2,985	3,928	3,005	402	255
8-9am	655	582	399	350	3,292	3,366	3,961	2,967	2,936	2,678	3,417	2,999	307	318
9-10am	601	535	332	342	2,863	2,229	3,531	1,951	2,490	2,606	3,028	2,608	236	284
10-11am	674	640	351	342	2,437	1,952	3,114	1,826	2,206	2,607	2,674	2,632	194	277
11-Noon	704	723	371	355	2,247	1,912	2,807	1,983	2,136	2,589	2,588	2,799	200	307
Noon-1	754	751	366	361	2,290	2,100	2,734	2,126	2,150	2,459	2,643	2,740	200	290
1-2pm	742	706	437	407	2,360	2,375	2,689	2,367	2,074	2,695	2,612	2,878	211	324
2-3pm	773	749	423	471	2,692	3,459	3,135	2,991	2,237	2,677	2,780	3,330	203	347
3-4pm	816	720	420	545	2,899	4,122	3,460	3,647	2,504	2,684	2,971	4,047	223	454
4-5pm	842	757	437	633	3,092	4,207	3,694	3,747	2,639	2,585	3,252	4,135	245	553
5-6pm	812	712	411	597	3,532	3,987	3,782	3,832	2,792	2,638	3,699	4,238	244	575
6-7pm	680	582	364	537	3,322	3,459	3,397	3,662	2,621	2,910	3,321	3,929	213	504
7-8pm	558	475	262	449	2,634	2,817	2,450	3,333	2,366	2,755	2,656	3,546	180	381
8-9pm	393	325	277	373	2,205	2,116	1,933	2,681	1,890	2,414	2,452	3,078	149	331
9-10pm	268	225	218	317	1,998	1,747	1,688	2,220	1,632	2,018	2,356	2,756	124	287
10-11pm	226	167	157	249	1,609	1,461	1,318	1,995	1,384	1,985	2,091	2,540	113	212
11-Mid	111	111	100	176	1,248	986	891	1,457	994	1,449	1,566	1,979	82	197
24 hr Total	11,646	10,417	7,427	7,823	52,491	49,340	56,816	48,949	44,586	48,335	58,587	60,882	4,088	6,491
6-10am	2,497	2,108	1,963	1,411	14,424	10,336	16,802	9,014	11,873	10,833	14,574	11,070	1,194	1,032
10am-1pm	2,132	2,114	1,088	1,058	6,974	5,964	8,655	5,935	6,492	7,655	7,905	8,171	594	874
1-3pm	1,515	1,455	860	878	5,052	5,834	5,824	5,358	4,311	5,372	5,392	6,208	414	671
3-7pm	3,150	2,771	1,632	2,312	12,845	15,775	14,333	14,888	10,556	10,817	13,243	16,349	925	2,086
6am-7pm	9,294	8,448	5,543	5,659	39,295	37,909	45,614	35,195	33,232	34,677	41,114	41,798	3,127	4,663

* To Bronx

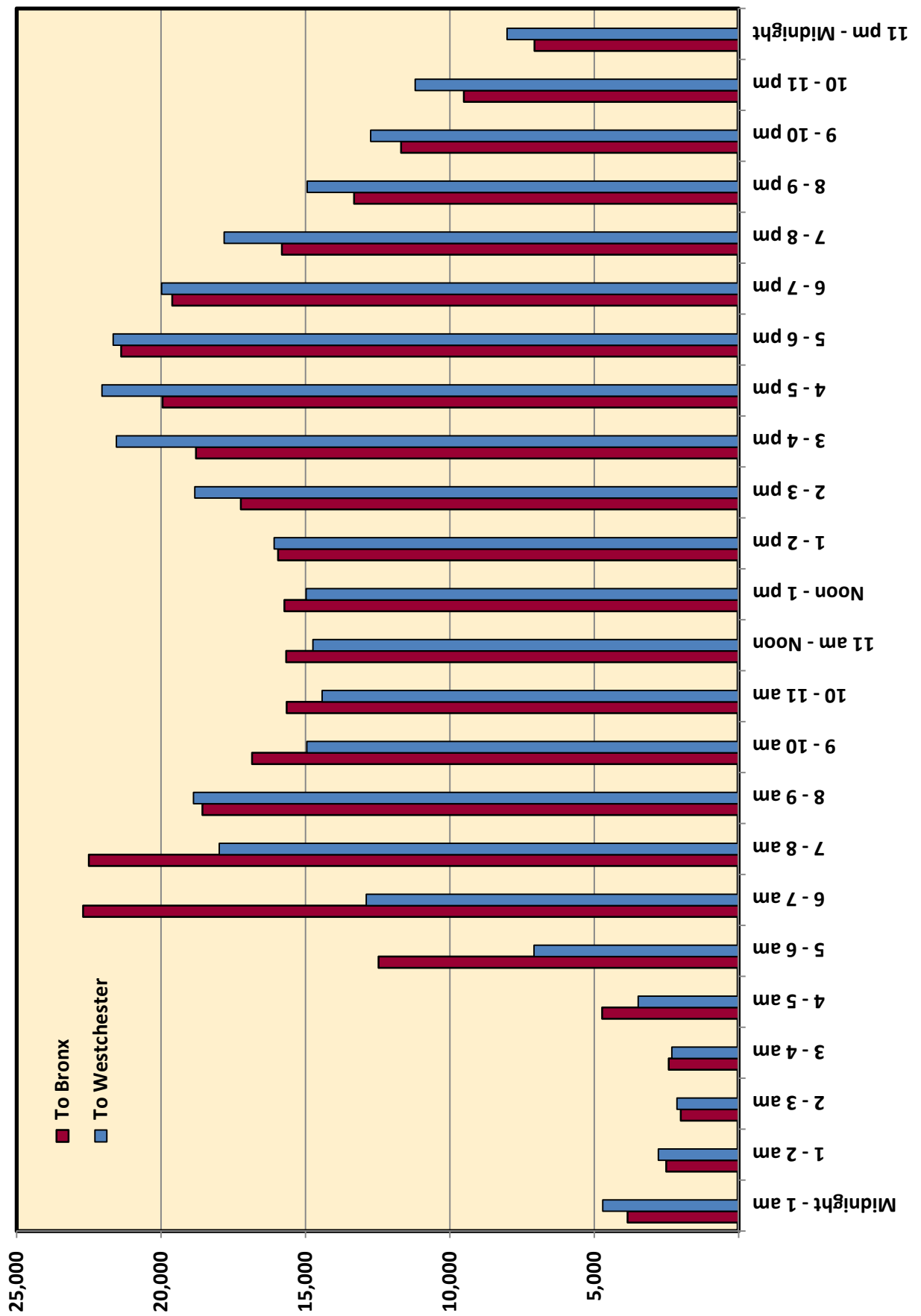
2016 Screenline Volumes Bronx - Westchester (cont'd)

	New England		Riverdale Ave		Van Cortlandt		Webster Ave		White Plains Rd		Totals	
	S/B*	N/B	S/B*	N/B	S/B*	N/B	S/B*	N/B	S/B*	N/B	To Bronx	To Westchester
Mid-1am	1,091	1,059	20	29	33	30	44	30	72	75	3,845	4,707
1-2am	901	755	13	15	25	18	40	26	50	57	2,509	2,782
2-3am	766	824	11	14	21	13	35	16	50	56	2,004	2,136
3-4am	919	976	22	15	33	27	54	19	84	70	2,419	2,315
4-5am	1,374	1,296	97	39	101	51	160	37	159	129	4,726	3,477
5-6am	2,899	1,976	249	127	174	100	371	90	260	253	12,468	7,085
6-7am	3,547	2,785	424	196	279	173	543	160	341	334	22,698	12,895
7-8am	3,321	4,223	344	259	284	197	433	208	315	356	22,502	17,985
8-9am	2,593	4,773	263	218	218	159	339	174	276	294	18,566	18,878
9-10am	2,725	3,574	235	193	214	169	314	172	280	290	16,849	14,953
10-11am	2,924	3,274	234	209	241	206	312	163	290	295	15,651	14,423
11-Noon	3,443	3,164	261	257	253	205	330	183	326	265	15,666	14,742
Noon-1	3,392	3,182	252	238	247	205	363	198	339	329	15,730	14,979
1-2pm	3,454	3,221	335	274	291	264	396	216	346	356	15,947	16,083
2-3pm	3,550	3,594	342	318	313	261	405	253	384	382	17,237	18,832
3-4pm	3,981	3,932	330	306	335	336	413	333	441	419	18,793	21,545
4-5pm	4,212	3,899	314	377	352	325	439	381	430	449	19,948	22,048
5-6pm	4,690	3,716	264	318	335	300	423	332	399	413	21,383	21,658
6-7pm	4,591	3,317	222	261	292	230	310	225	282	367	19,615	19,983
7-8pm	3,826	3,211	153	208	229	190	246	166	255	285	15,815	17,816
8-9pm	3,278	2,969	111	161	168	119	214	128	246	245	13,316	14,940
9-10pm	2,777	2,644	106	131	124	95	184	91	215	211	11,690	12,742
10-11pm	2,191	2,165	66	101	77	75	122	81	163	170	9,517	11,201
11-Mid	1,789	1,354	33	58	63	62	76	58	116	133	7,069	8,020
24 hr Total	68,234	65,883	4,701	4,322	4,702	3,810	6,566	3,740	6,119	6,233	325,963	316,225
6-10am	12,186	15,355	1,266	866	995	698	1,629	714	1,212	1,274	80,615	64,711
10am-1pm	9,759	9,620	747	704	741	616	1,005	544	955	889	47,047	44,144
1-3pm	7,004	6,815	677	592	604	525	801	469	730	738	33,184	34,915
3-7pm	17,474	14,864	1,130	1,262	1,314	1,191	1,585	1,271	1,552	1,648	79,739	85,234
6am-7pm	46,423	46,654	3,820	3,424	3,654	3,030	5,020	2,998	4,449	4,549	240,585	229,004

* To Bronx

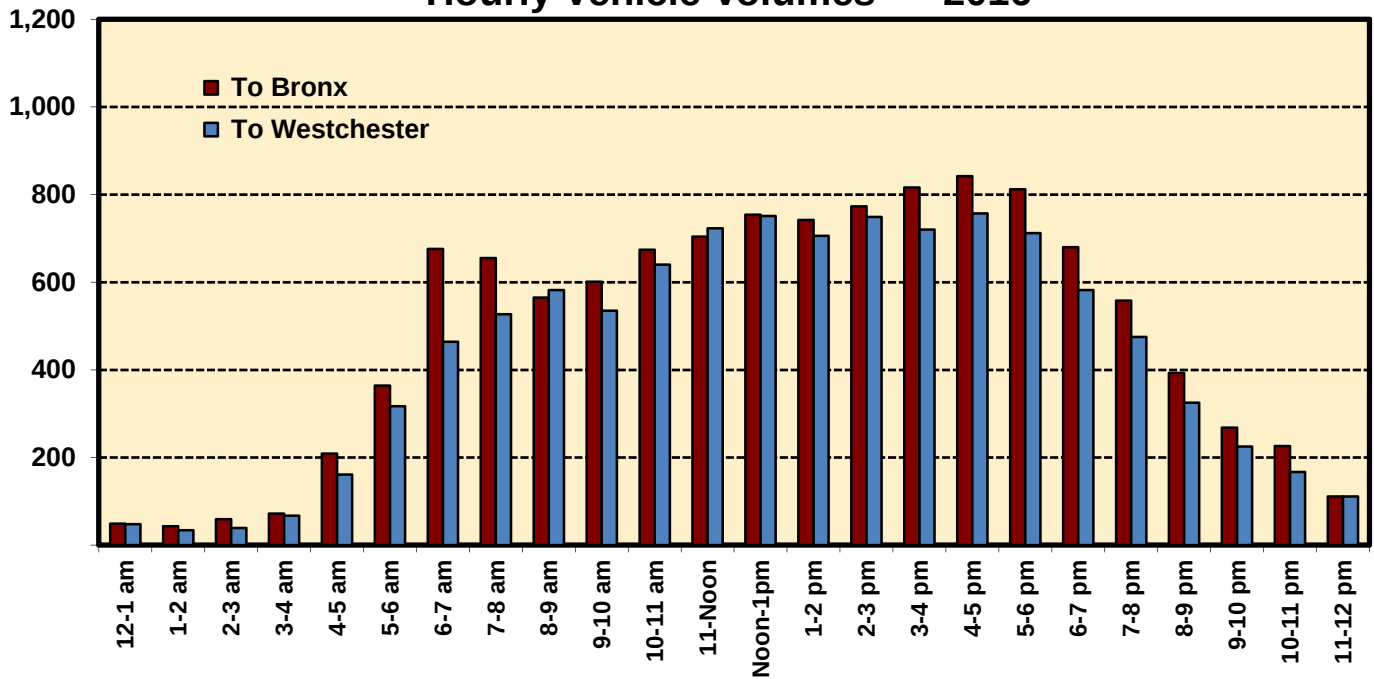
Bronx - Westchester Screenline

Total Hourly Vehicle Volumes ~ 2016

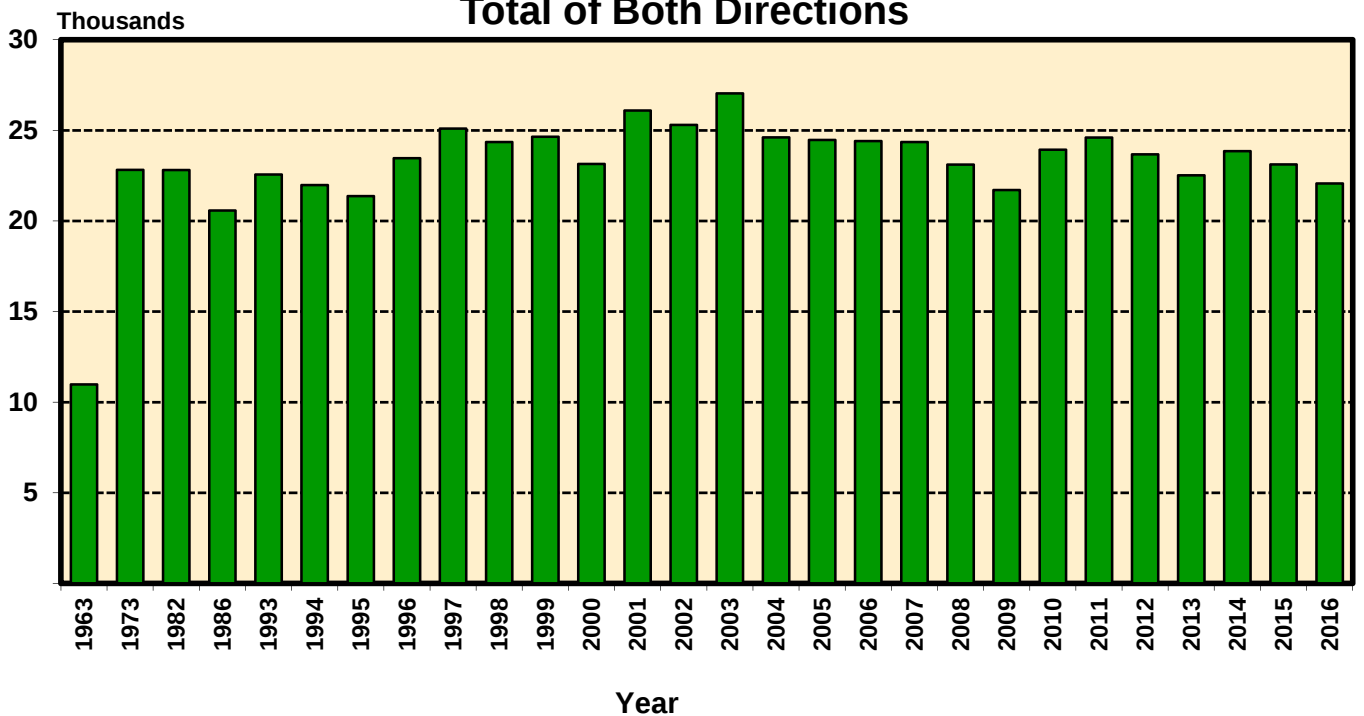


Bronx – Westchester Screenline Volumes

Boston Road Hourly Vehicle Volumes ~ 2016

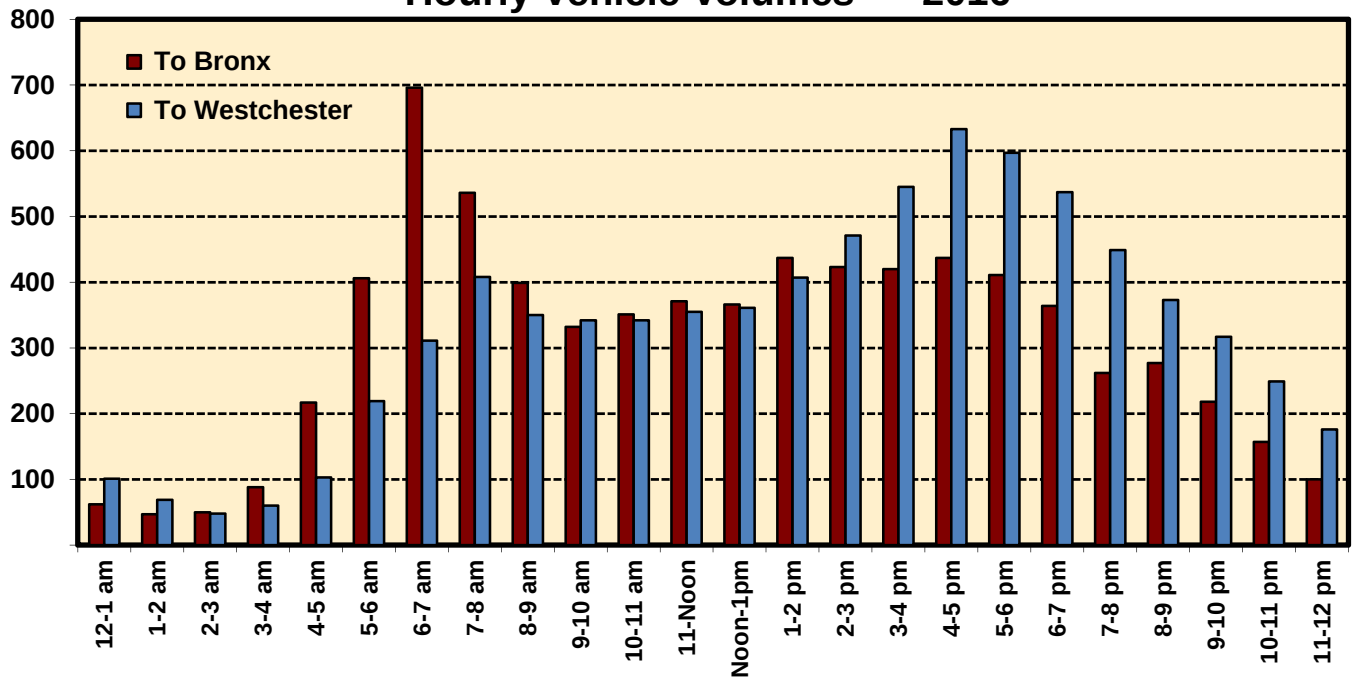


Boston Road Average Daily Traffic Volumes Total of Both Directions

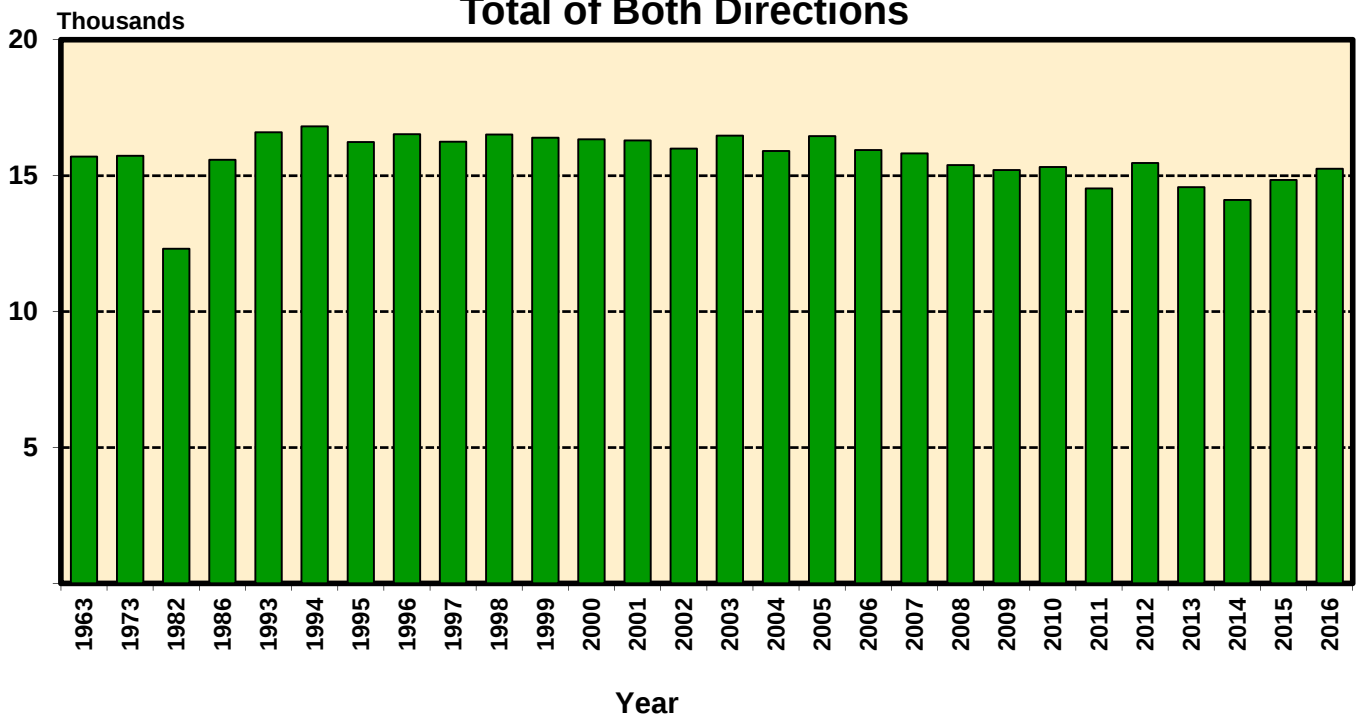


Bronx – Westchester Screenline Volumes

Broadway
Hourly Vehicle Volumes ~ 2016

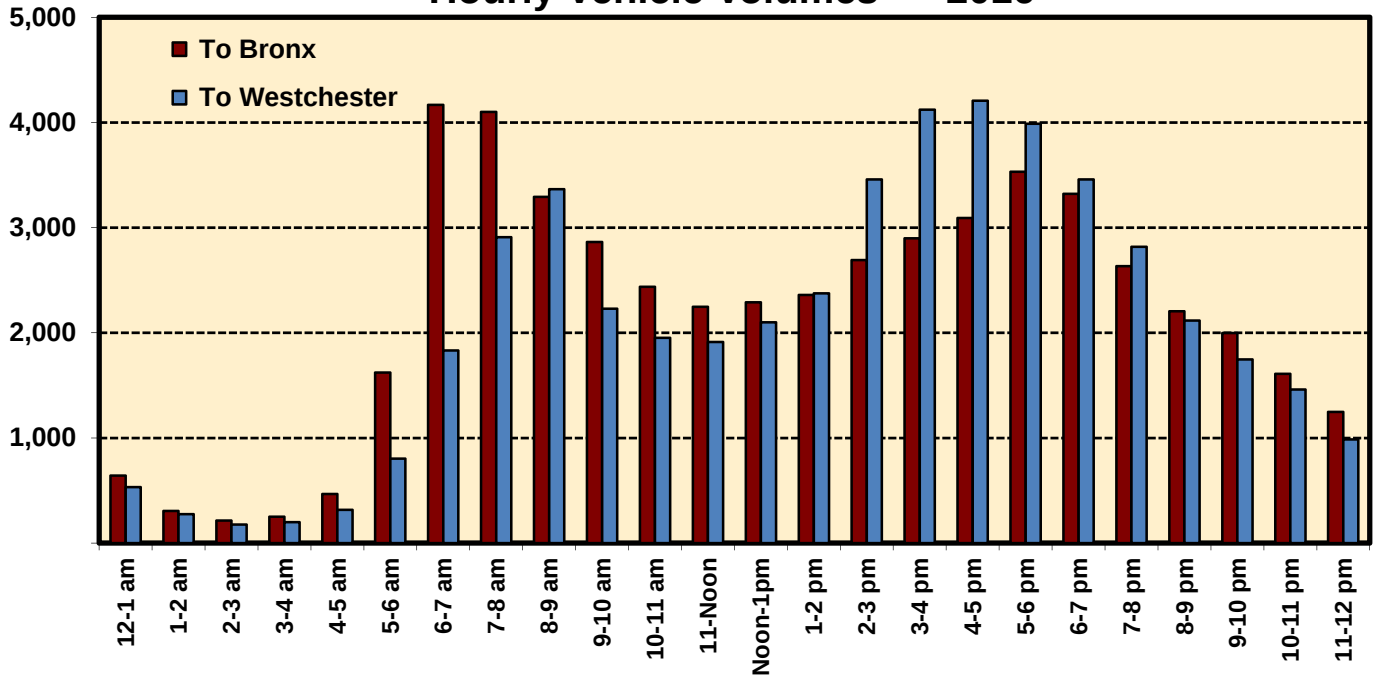


Broadway
Average Daily Traffic Volumes
Total of Both Directions

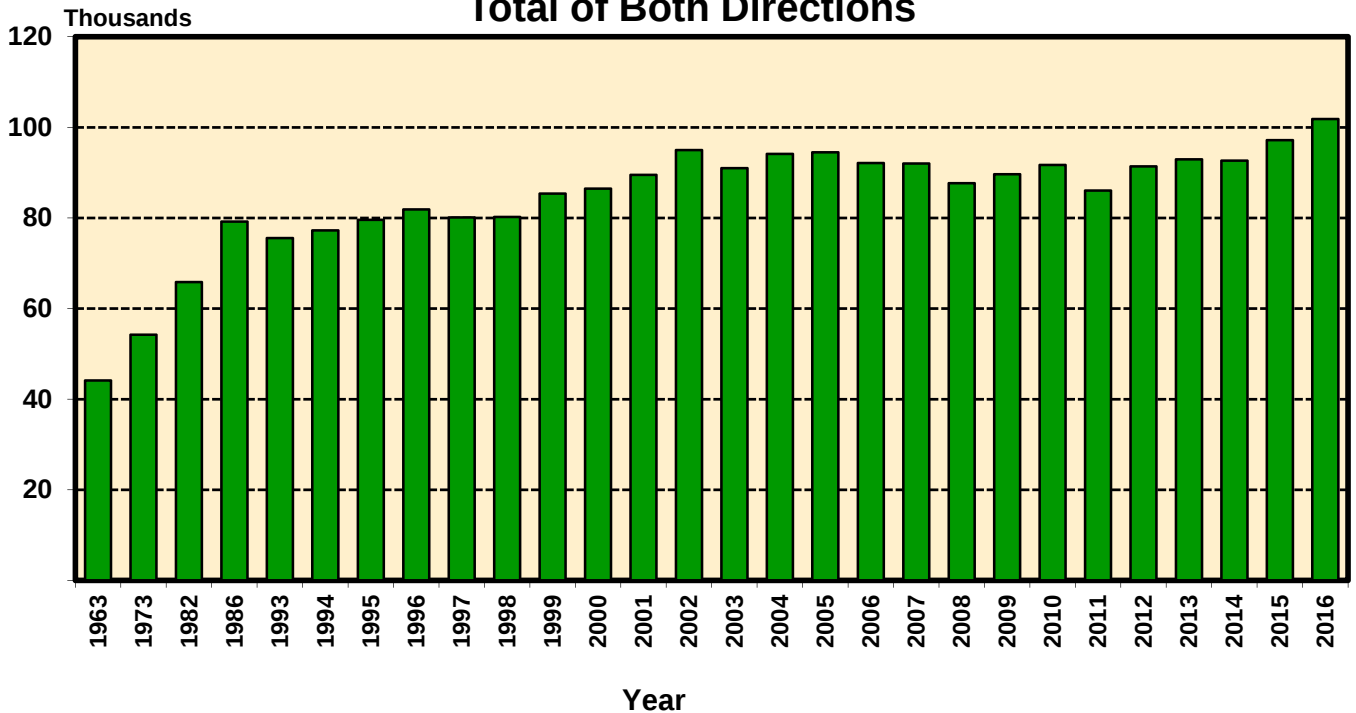


Bronx – Westchester Screenline Volumes

**Bronx River Parkway
Hourly Vehicle Volumes ~ 2016**

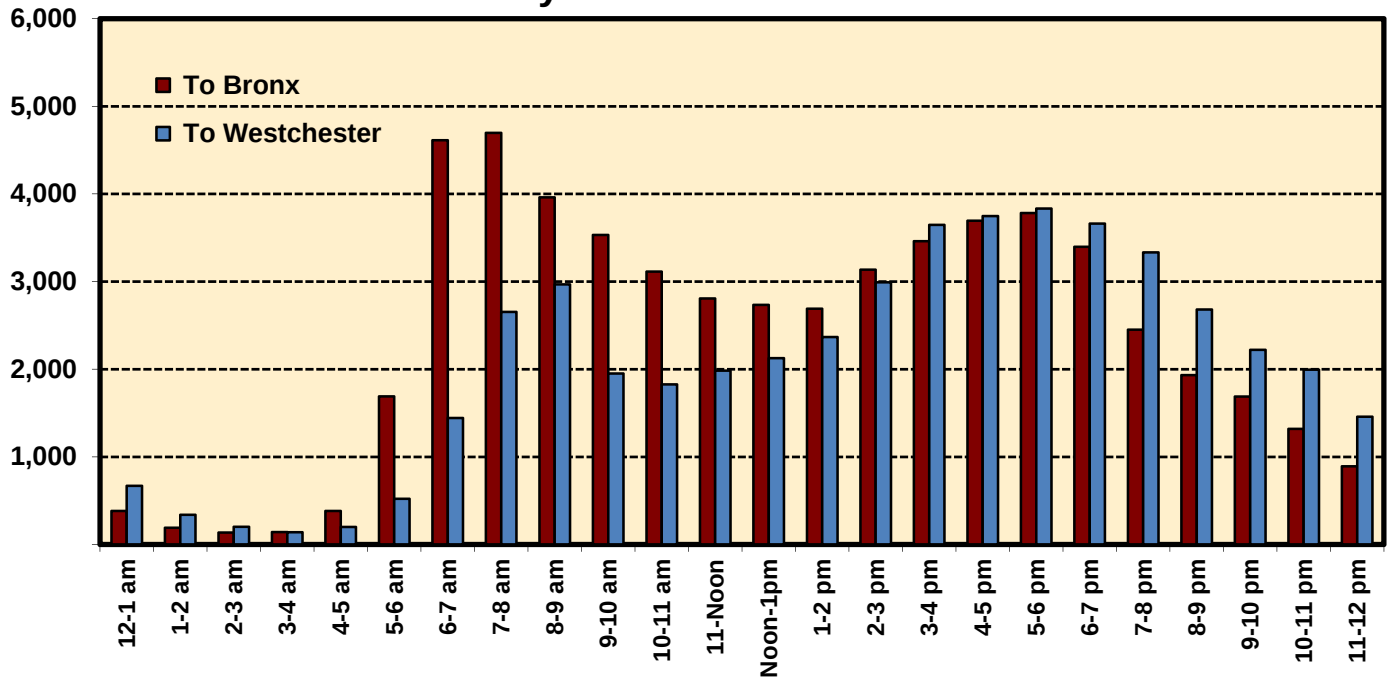


**Bronx River Parkway
Average Daily Traffic Volumes
Total of Both Directions**

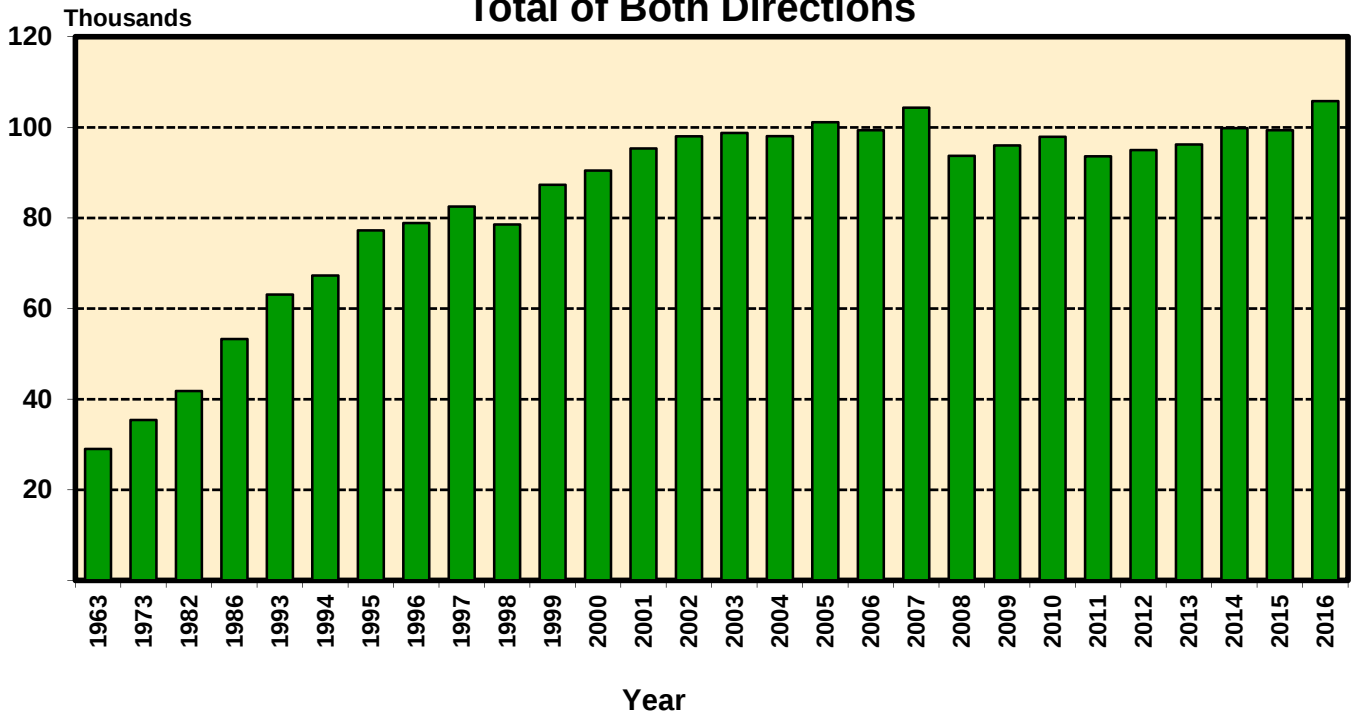


Bronx – Westchester Screenline Volumes

Henry Hudson Parkway Hourly Vehicle Volumes ~ 2016

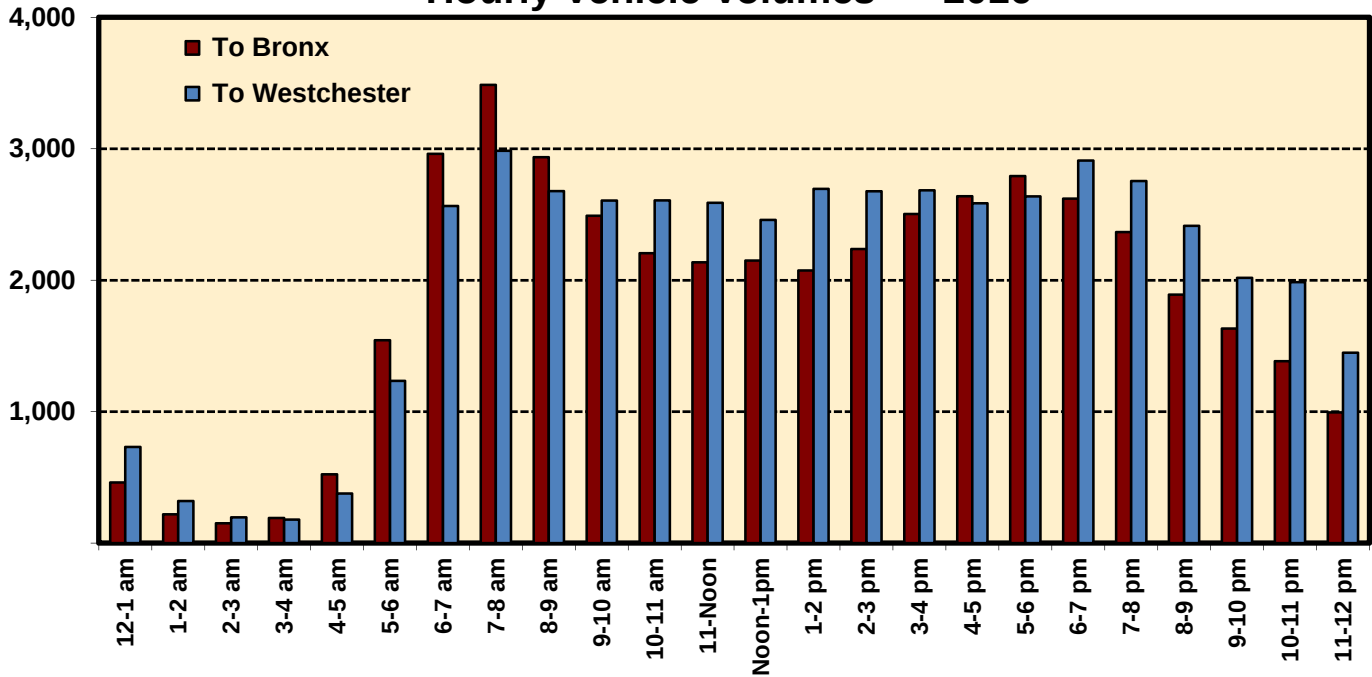


Henry Hudson Parkway Average Daily Traffic Volumes Total of Both Directions

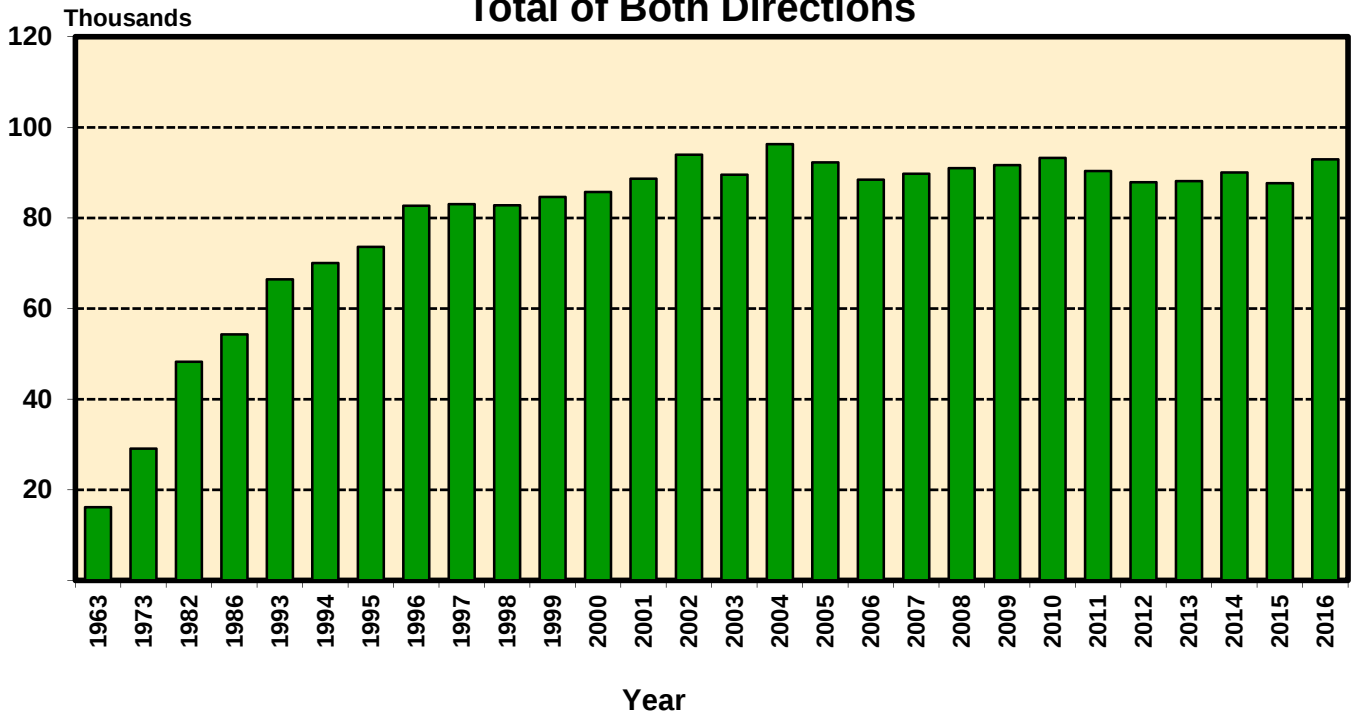


Bronx – Westchester Screenline Volumes

Hutchinson River Parkway Hourly Vehicle Volumes ~ 2016

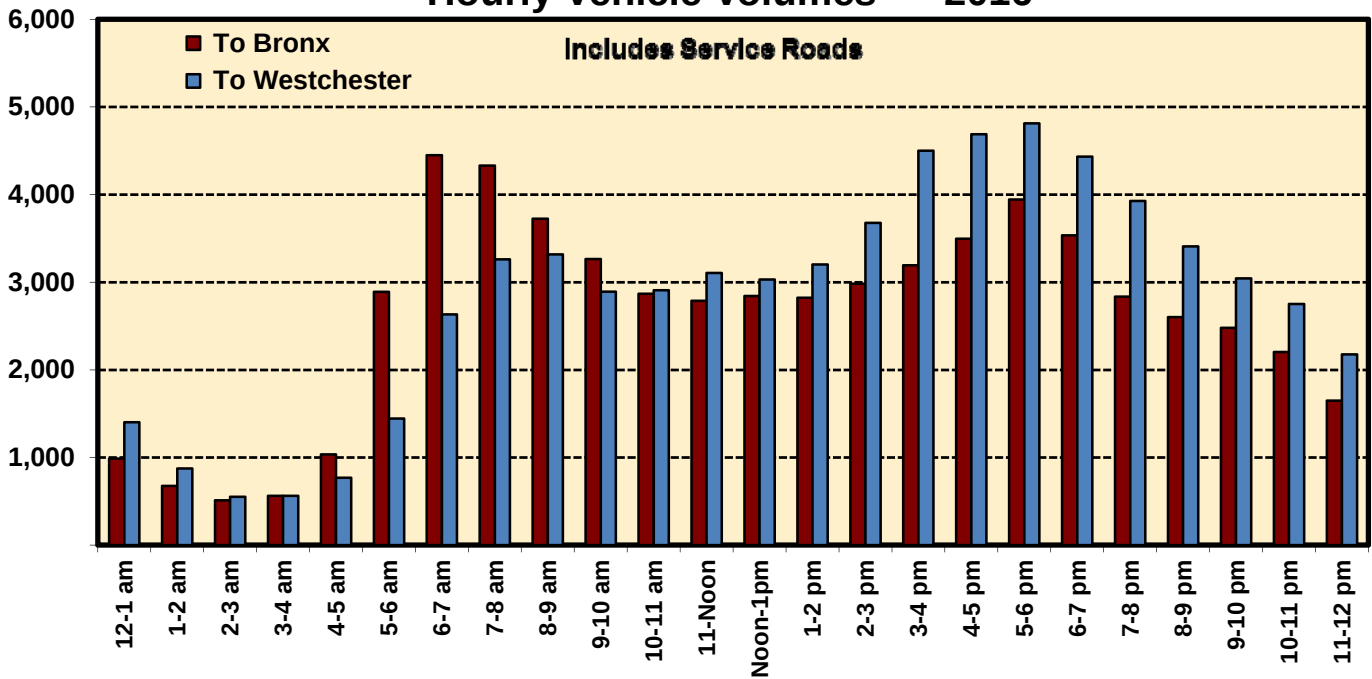


Hutchinson River Parkway Average Daily Traffic Volumes Total of Both Directions

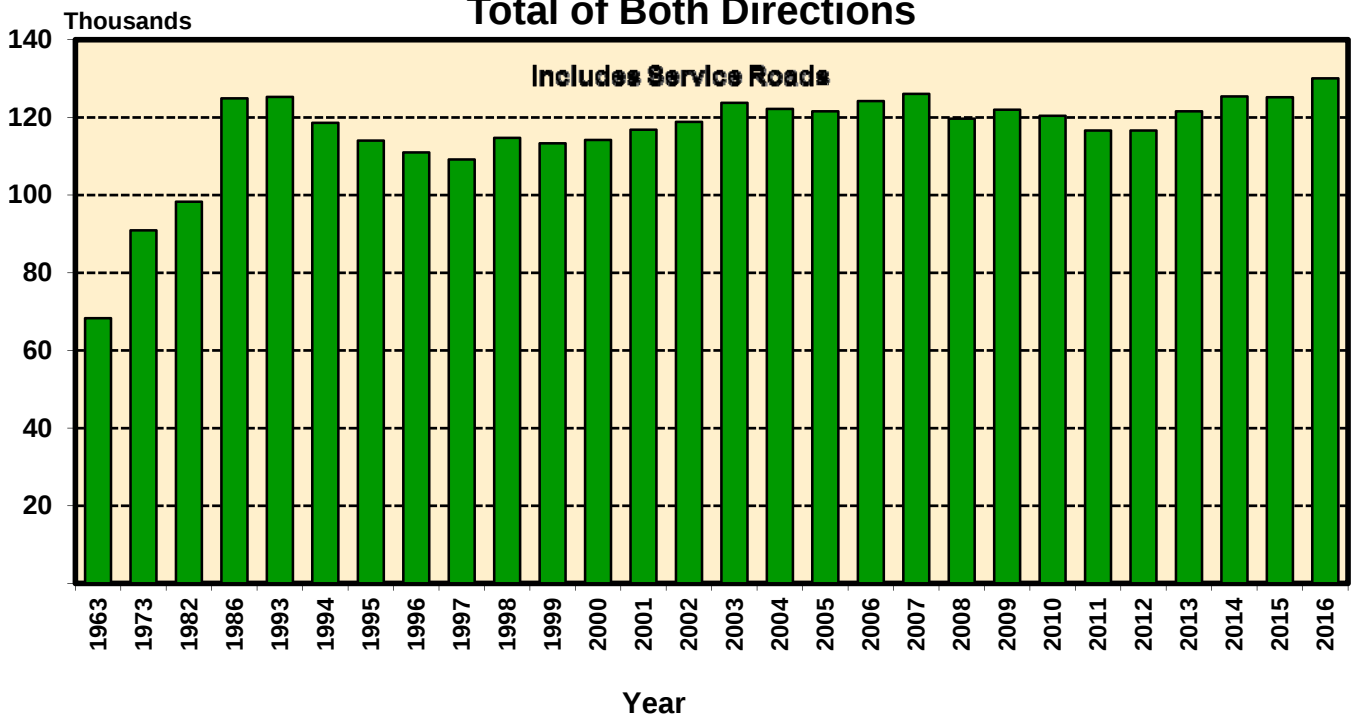


Bronx – Westchester Screenline Volumes

Major Deegan Expressway Hourly Vehicle Volumes ~ 2016

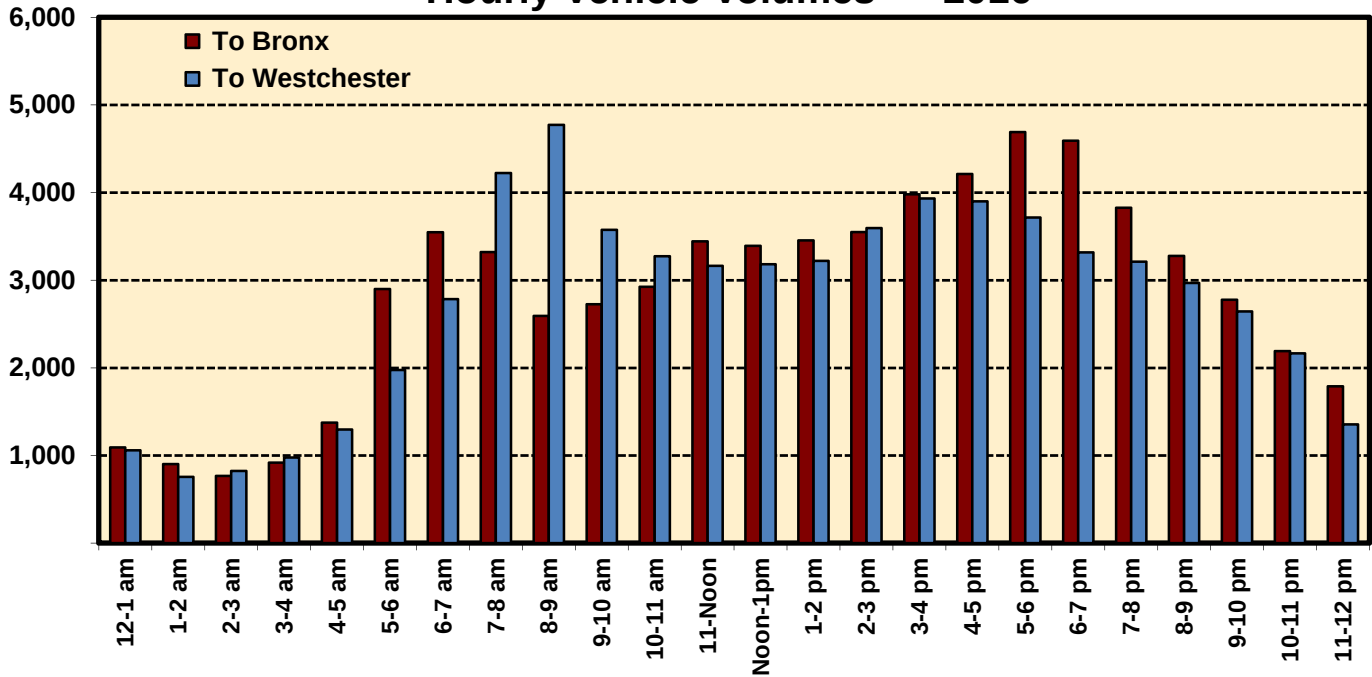


Major Deegan Expressway Average Daily Traffic Volumes Total of Both Directions

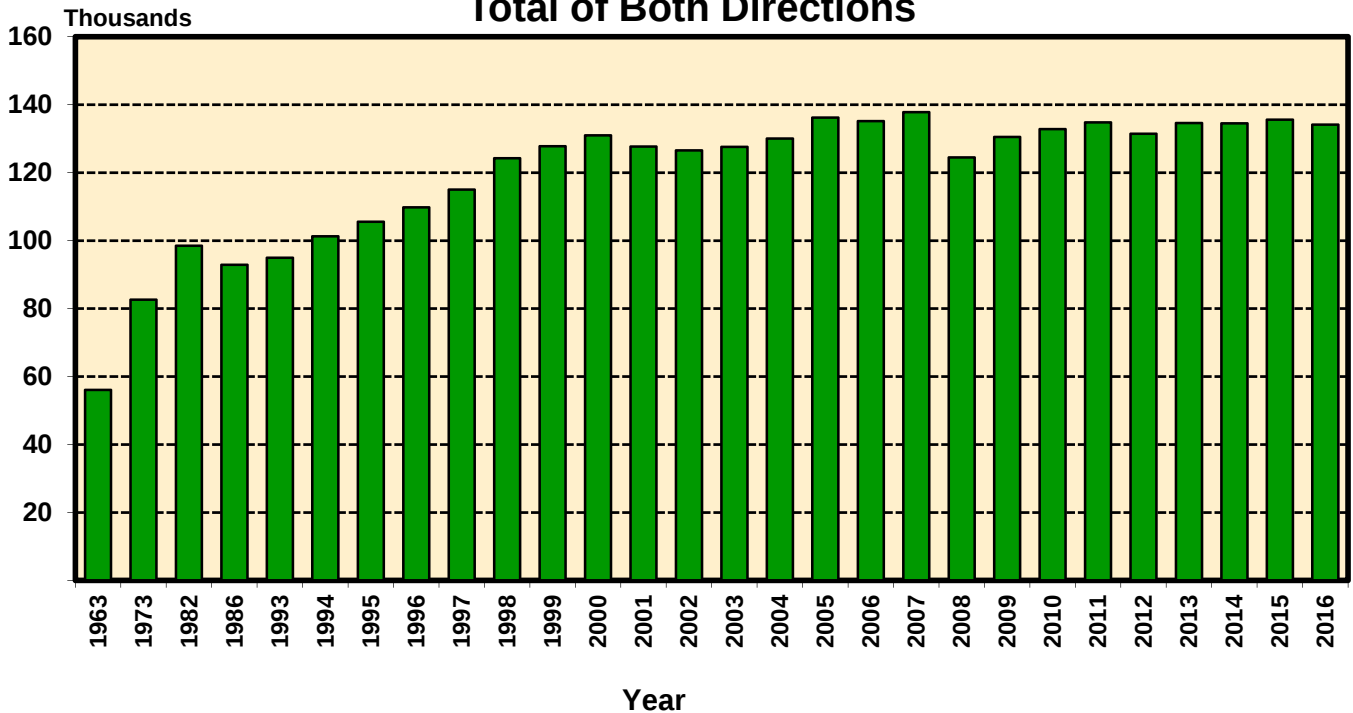


Bronx – Westchester Screenline Volumes

New England Thruway Hourly Vehicle Volumes ~ 2016

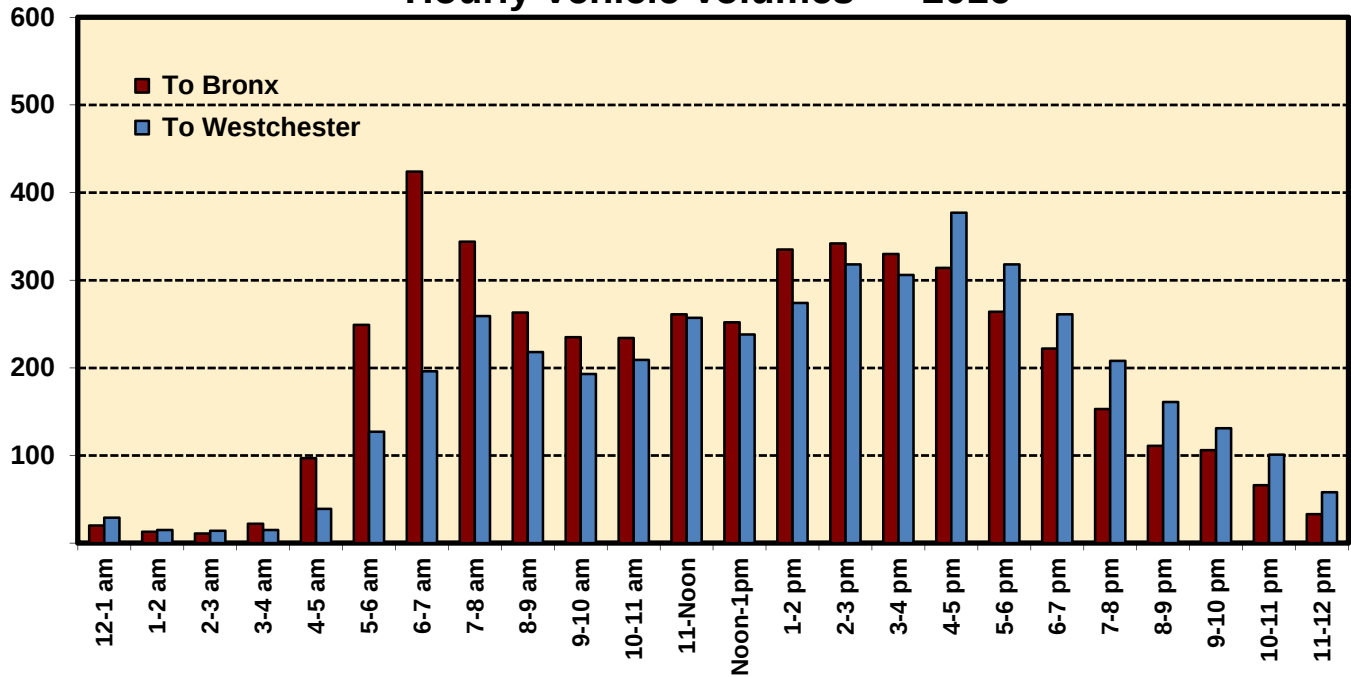


New England Thruway Average Daily Traffic Volumes Total of Both Directions

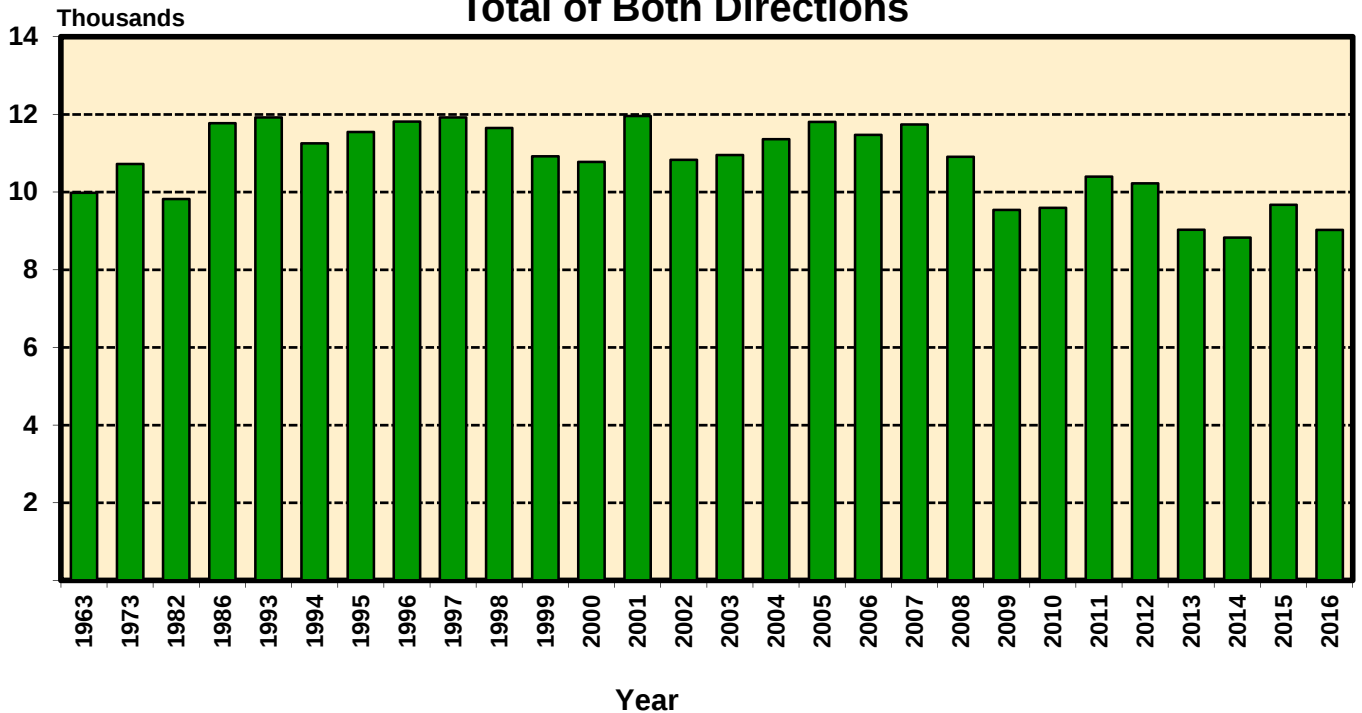


Bronx – Westchester Screenline Volumes

Riverdale Avenue Hourly Vehicle Volumes ~ 2016

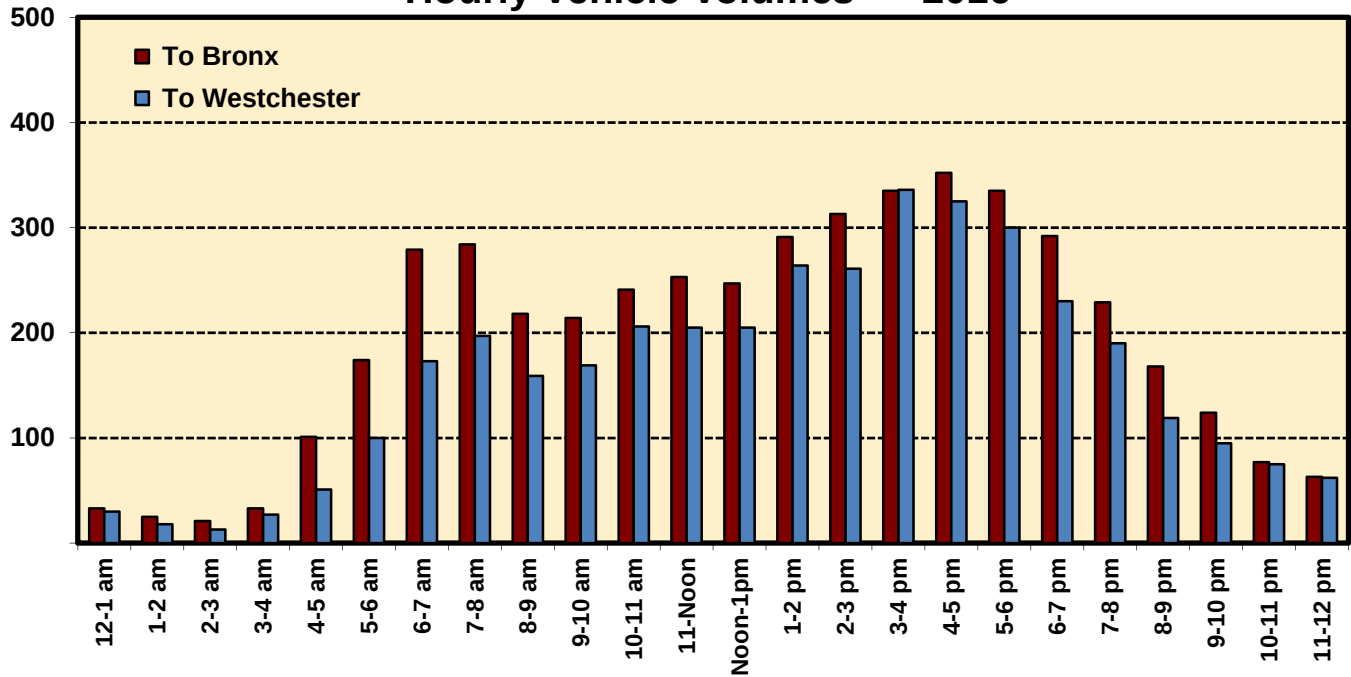


Riverdale Avenue Average Daily Traffic Volumes Total of Both Directions

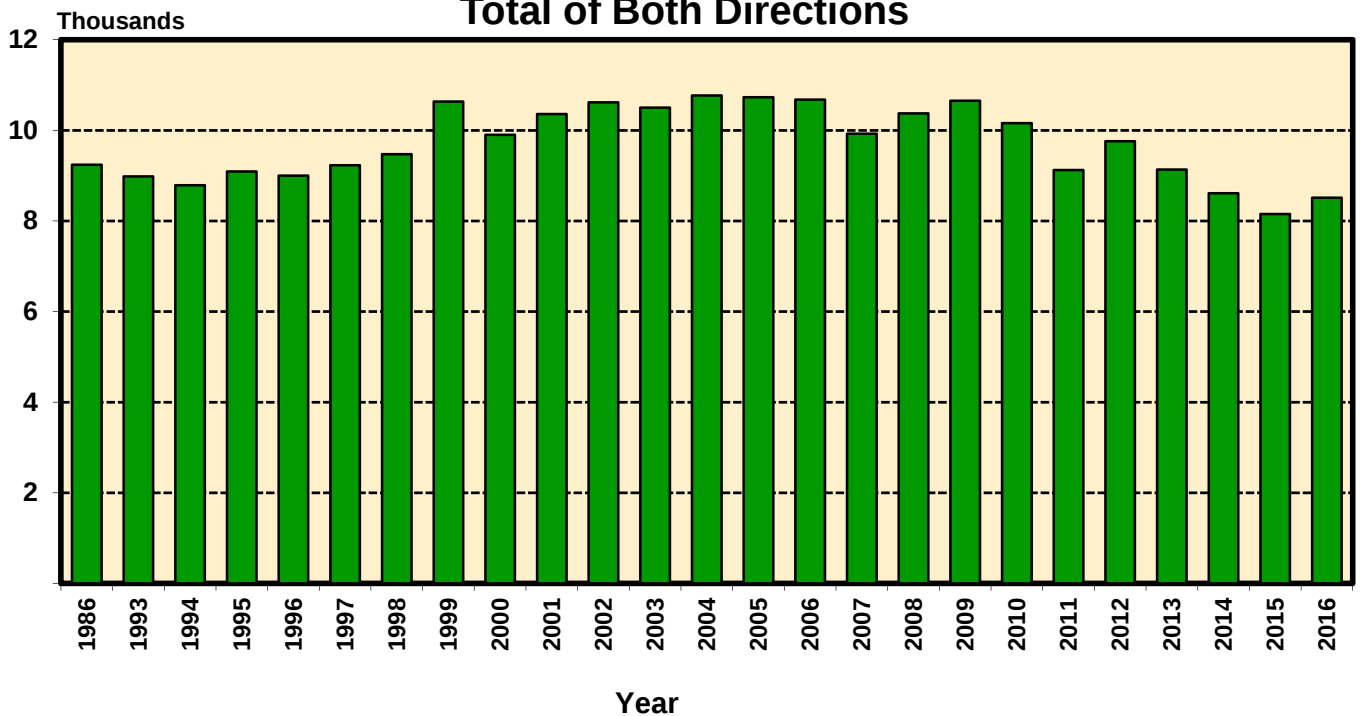


Bronx – Westchester Screenline Volumes

Van Cortlandt Park East
Hourly Vehicle Volumes ~ 2016

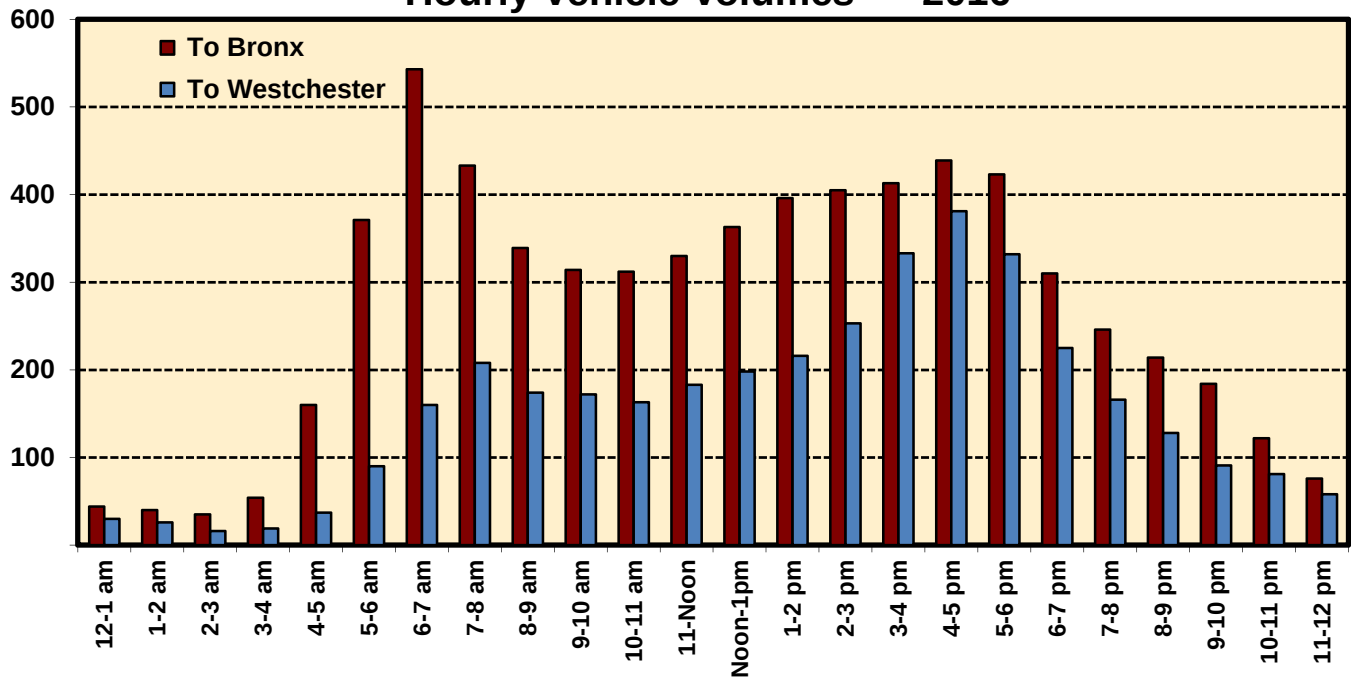


Van Cortlandt Park East
Average Daily Traffic Volumes
Total of Both Directions

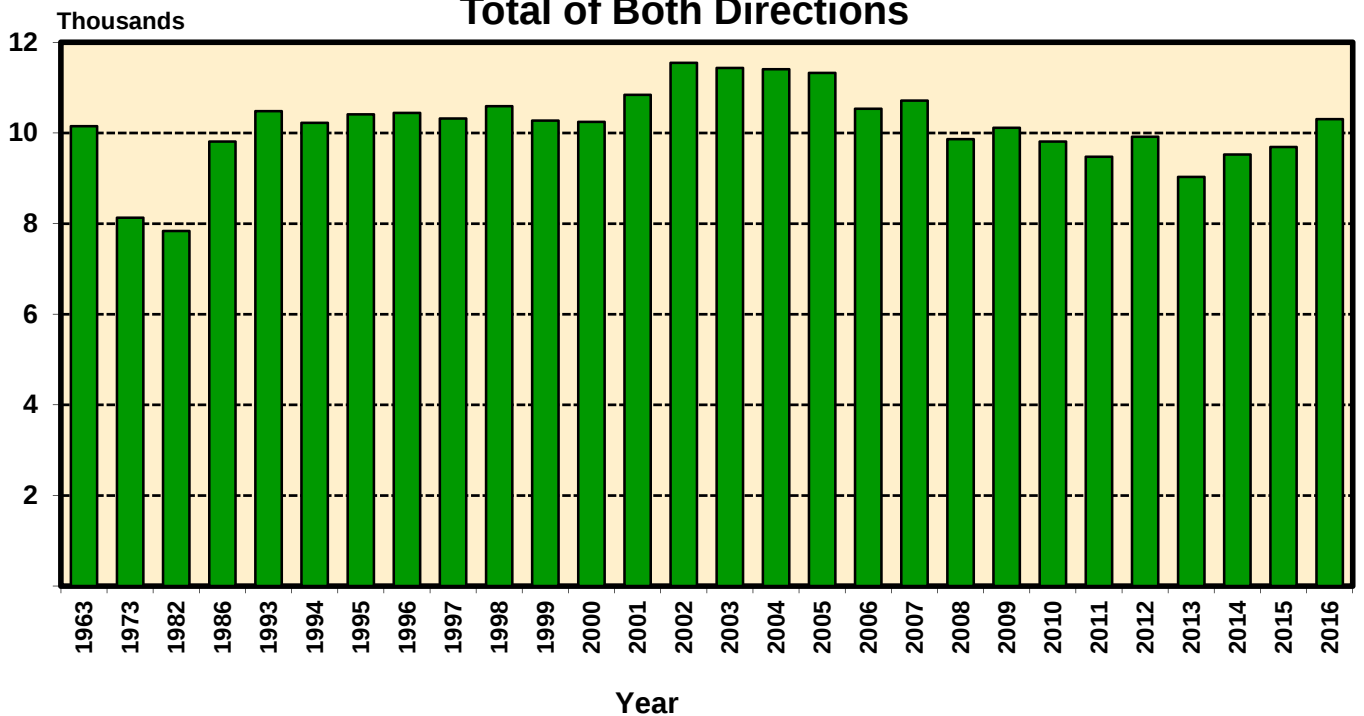


Bronx – Westchester Screenline Volumes

Webster Avenue Hourly Vehicle Volumes ~ 2016

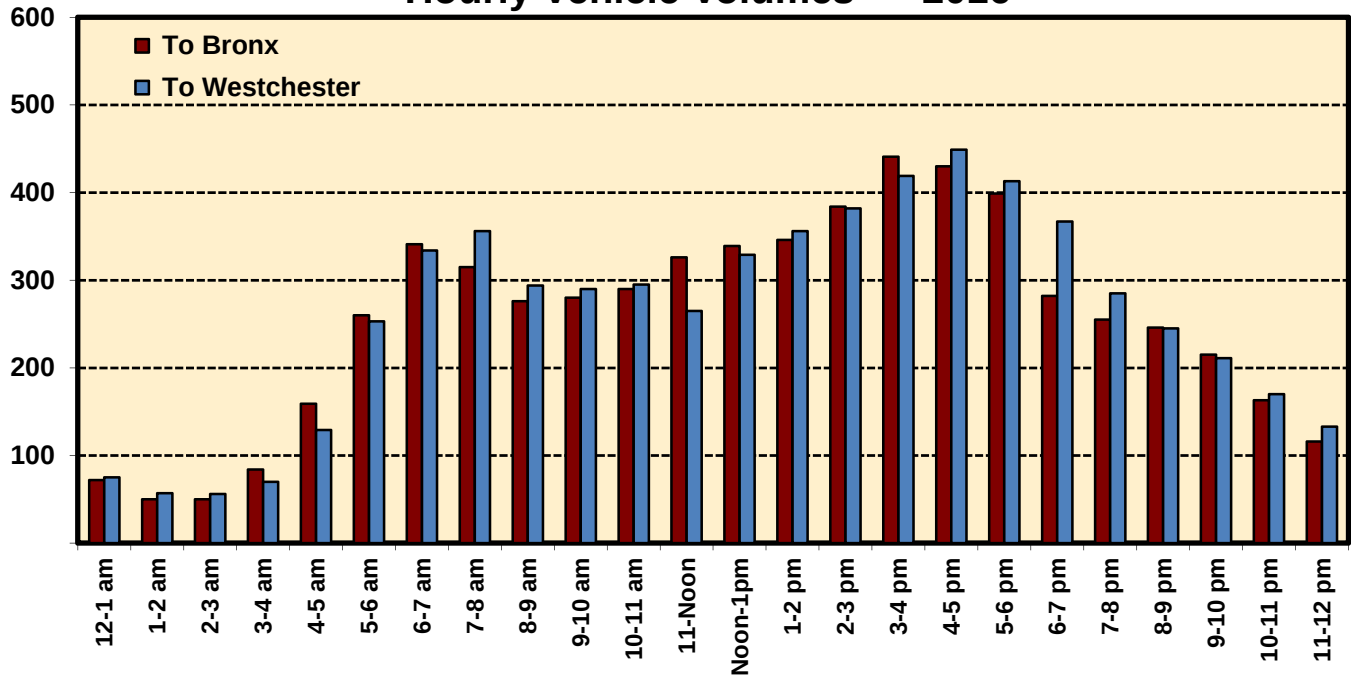


Webster Avenue Average Daily Traffic Volumes Total of Both Directions

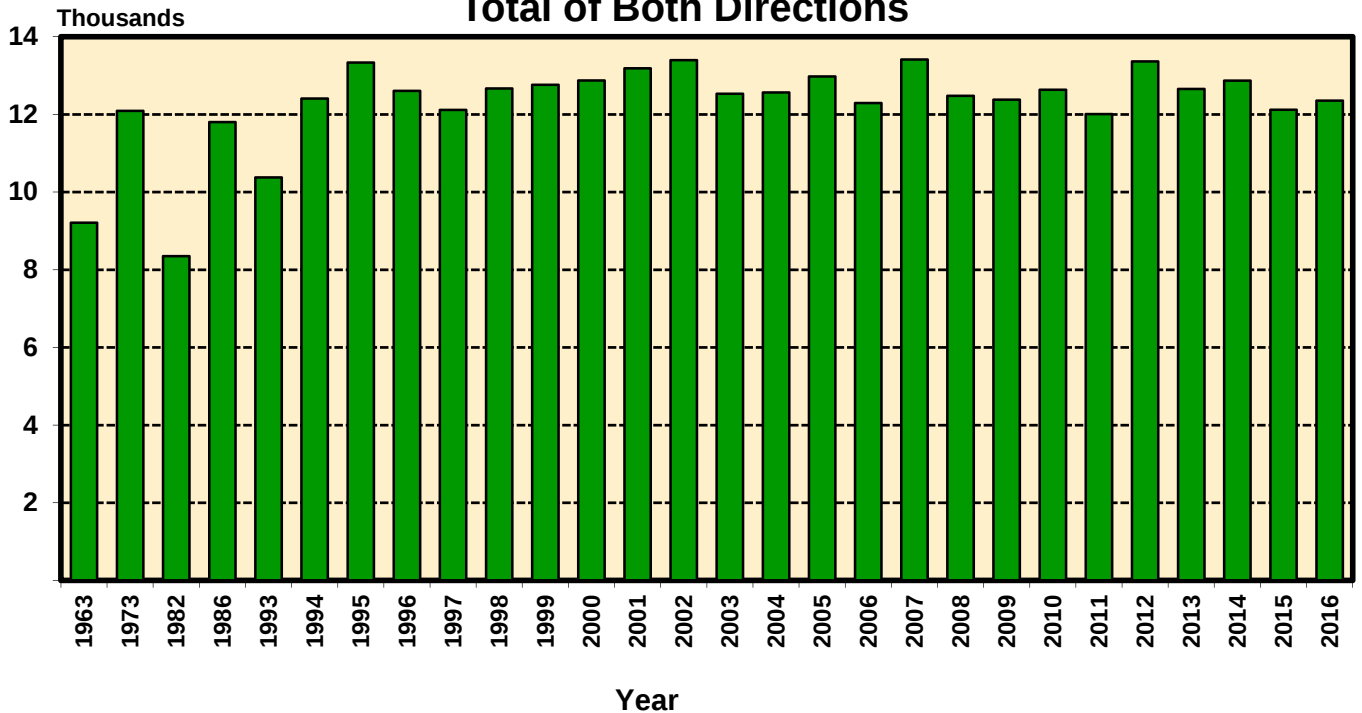


Bronx – Westchester Screenline Volumes

**White Plains Road
Hourly Vehicle Volumes ~ 2016**



**White Plains Road
Average Daily Traffic Volumes
Total of Both Directions**



Queens-Nassau Screenline



**Jamaica Avenue at Queens-Nassau Screenline
Looking West**

QUEENS - NASSAU SCREENLINE

In 1963, the first year that Queens - Nassau screenline data were analyzed, average two-way traffic volume on the thirteen roadways studied was 546,550 vehicles per day.

- The Long Island Expressway (including service roads) was the most-traveled facility, serving 143,750 vehicles per day, 26.3% of total monitored Queens - Nassau traffic.
- Laurelton Parkway carried 85,440 vehicles per day, 15.6% of the total.
- Sunrise Highway served 59,470 daily vehicles, 10.9%.
- Grand Central Parkway and its service road accommodated 51,720 daily vehicles, 9.5%.
- Traffic volumes on Central Avenue and Seagirt Boulevard were not collected prior to 1986.

1963 - 1973

Traffic crossing the Queens – Nassau screenline increased 22.7%, to an average of 670,702 vehicles per day in 1973 from 546,550 in 1963 (124,152 additional daily vehicles).

- Grand Central Parkway traffic (including service road) doubled, to 104,836 daily vehicles in 1973 from 51,720 in 1963.
- Long Island Expressway traffic (including service roads) increased 19.8%, to 172,152 daily vehicles in 1973 from 143,750 in 1963.
- Laurelton Parkway traffic increased 15.6%, to 98,797 daily vehicles from 85,440.
- Jamaica Avenue traffic increased 49.0%, to 22,799 daily vehicles from 15,300.
- Rockaway Boulevard traffic increased 20.5%, to 43,921 daily vehicles from 36,460.

1973 - 1982

Between 1973 and 1982, growth slowed, as volume increased 6.3% to 713,146 daily vehicles from 670,702.

- The largest numerical increase occurred on Laurelton Parkway, where traffic increased by 22,877 daily vehicles, to 121,674 in 1982 from 98,797 in 1973 (+23.2%).
- The largest percentage increase occurred on Northern Boulevard where traffic increased 26.4%, to 42,033 daily vehicles from 33,244.
- The largest numerical and percentage decrease occurred on Sunrise Highway, where traffic decreased by 8.5%, to 57,397 daily vehicles in 1982 from 62,704 in 1973 (5,307 fewer daily vehicles).

1982 - 1986

Growth intensified between 1982 and 1986, as Queens – Nassau traffic increased 14.5%, to 816,627 daily vehicles, (excluding 14,520 on Central Avenue and 12,391 on Seagirt Boulevard where volumes were not counted in 1982).

- Grand Central Parkway traffic (including service road) increased 30.8%, to 143,966 daily vehicles in 1986 from 110,038 in 1982.
- Laurelton Parkway traffic increased 22.0%, to 148,408 daily vehicles from 121,674.
- Long Island Expressway traffic (including service roads) increased 12.8%, to 188,996 daily vehicles from 167,558.
- Rockaway Boulevard traffic increased 22.0%, to 56,735 daily vehicles from 46,514.

1986 - 1996

Growth was moderate during this period, as Queens - Nassau screenline volume increased 6.2%, to 896,144 daily vehicles in 1996 from 843,538 in 1986 (including Central Avenue and Seagirt Boulevard which were added to the monitoring schedule as of 1986).

- The largest volume increase was on Grand Central Parkway (including service road) where traffic increased by 14,691 daily vehicles, to 158,657 in 1996 from 143,966 in 1986 (+10.2%).
- The largest percentage increase was on Seagirt Boulevard (up 34.7%, to 16,687 daily vehicles from 12,391).
- The biggest decline was on Laurelton Parkway (decrease of 4,673 daily vehicles, or 3.1%, to 143,735 from 148,408).

1996 - 2006

Growth remained moderate from 1996 to 2006, as Queens - Nassau screenline traffic on the fifteen monitored facilities increased 4.3%, to 934,549 daily vehicles from 896,144.

- The largest volume increase occurred on the Laurelton Parkway (increase of 25,124 daily vehicles, or 17.5%, to 168,859 from 143,735).
- The largest percentage increase occurred on Seagirt Boulevard, where daily traffic increased 35.2%, to 22,557 daily vehicles in 2006 from 16,687 in 1996 (5,870 additional daily vehicles).
- The biggest decline was on the Long Island Expressway and its service roads (decrease of 9,044 daily vehicles, or 4.5%, to 191,900 from 200,944).

2006 - 2016

The past ten years, from 2006 to 2016, have been characterized by a small overall increase in daily Queens-Nassau traffic, with total volume on the fifteen monitored facilities increasing less than 3%, to 958,616 daily vehicles in 2016 from 934,549 in 2006.

- The largest increase was on the Long Island Expressway and its service roads, an increase of 33,001 daily vehicles, to 224,901 in 2016 from 191,900 in 2006 (+17.2%).

- The largest decrease was on the Grand Central Parkway and its service road, a decrease of 6,714 daily vehicles, to 159,080 in 2016 from 165,794 in 2006 (-4.0%).

1963 - 2016

During the 53 years from 1963 to 2016, daily traffic on the thirteen Queens - Nassau thoroughfares monitored throughout the period increased 69.4%, to 925,583 from 546,550. Traffic increased on all thirteen facilities.

- Most of the growth in Queens - Nassau traffic since 1963 has occurred on the three limited access facilities crossing the screenline.
- Of the 379,033 additional daily vehicles on the thirteen continuously-monitored facilities, 271,626 (71.7% of the total increase) are on the three limited access routes.
- The Grand Central Parkway alone (including service road) absorbed over one-fourth the total screenline traffic increase, its daily volume more than tripling, to 159,080 in 2016 from 51,720 in 1963.
- Laurelton Parkway traffic nearly doubled, to 168,555 daily vehicles from 85,440.
- On the Long Island Expressway and its service roads, traffic increased 56.5%, to 224,901 daily vehicles from 143,750.
- Rockaway Boulevard traffic more than doubled, to 75,716 daily vehicles from 36,460.
- Jamaica Avenue traffic increased 77% to 27,075 daily vehicles from 15,300.
- Linden Boulevard traffic increased 85.7% to 26,610 daily vehicles from 14,330.

Queens – Nassau Screenline

2016 Daily Volumes

Queens

Nassau

20,428	Northern Boulevard	18,773
110,148	Long Island Expressway*	114,753
80,789	Grand Central Parkway	78,291
12,815	Union Turnpike	9,216
13,283	Hillside Avenue	13,369
12,990	Jamaica Avenue	14,085
24,997	Hempstead Avenue	20,965
12,328	Linden Boulevard	14,282
76,580	Laurelton Parkway	91,975
9,930	Merrick Boulevard	10,350
32,259	Sunrise Highway	34,918
34,226	Rockaway Boulevard	41,490
11,202	Beach Channel Drive	11,141
8,260	Central Avenue	3,504
10,909	Seagirt Boulevard	10,360

*Includes Service Roads

**Queens - Nassau Screenline
Historical Comparisons
Average Daily Traffic Volumes**

To Queens

	1963	1973	1982	1986	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Beach Channel Dr	10,610	11,954	12,411	12,510	11,817	11,609	11,980	11,830	12,317	12,220	12,794	13,845	13,128	13,403	13,844
Central Ave	n/a	n/a	n/a	7,396	8,367	7,848	8,189	8,421	8,181	8,780	8,095	8,647	8,014	9,231	9,319
Grand Cent Pky *	25,280	47,495	61,614	71,775	85,261	82,431	79,189	76,571	77,853	78,916	82,978	87,617	91,225	89,054	94,792
Hempstead Ave	18,720	19,167	22,230	19,671	21,008	21,512	21,103	21,294	21,568	21,561	27,530	24,487	22,474	19,797	26,866
Hillside Ave	12,230	11,728	9,799	11,485	12,333	13,149	12,635	12,967	13,087	13,836	16,828	14,070	14,049	13,735	12,140
Jamaica Ave	7,370	11,473	13,984	14,081	14,090	13,775	13,339	13,950	13,149	13,822	14,769	14,921	14,504	15,324	15,044
Laurelton Pky	42,980	48,873	67,940	72,147	64,216	69,082	68,967	68,838	75,601	77,315	76,246	76,654	82,194	77,076	72,783
Linden Blvd	6,840	10,470	11,863	12,767	18,190	19,846	19,517	12,870	12,431	12,961	13,717	12,782	11,565	12,485	12,904
Long Island Exp *	70,340	85,294	83,656	90,553	101,193	101,972	100,335	101,602	100,402	100,310	96,711	97,412	90,205	97,818	99,694
Merrick Blvd	7,880	8,140	10,631	9,708	8,803	9,633	9,694	9,478	9,255	9,517	9,563	9,434	9,833	9,559	10,538
Northern Blvd	14,450	17,659	20,288	20,232	21,275	21,375	21,011	22,350	21,962	21,149	22,897	22,912	24,221	22,943	23,695
Rockaway Blvd	18,470	22,448	21,300	26,676	28,200	30,587	31,508	31,914	31,392	33,930	35,957	36,447	36,893	33,865	34,633
Seagirt Blvd	n/a	n/a	n/a	6,161	8,025	8,412	8,687	8,426	8,767	8,410	7,656	8,765	8,044	10,341	11,263
Sunrise Hwy	28,730	31,403	28,592	30,256	32,839	26,643	30,314	32,806	33,980	32,638	35,872	36,606	34,519	30,922	34,542
Union Tpke	8,460	8,836	9,171	11,587	12,429	12,458	12,274	12,598	12,222	12,007	12,245	8,262	12,495	13,260	13,275
Totals	272,360	334,940	373,479	417,005	448,046	450,332	448,742	445,915	452,167	457,372	473,858	472,861	473,363	468,813	485,332

To Queens

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Beach Channel Dr	12,542	11,997	12,347	15,377	12,685	12,010	12,515	11,927	12,244	12,583	10,853	10,937	11,202
Central Ave	8,681	8,909	9,308	8,321	9,051	8,778	8,833	8,839	9,133	8,968	9,802	8,762	8,260
Grand Cent Pky *	92,464	92,993	80,941	77,918	78,423	75,454	77,447	80,288	79,276	78,594	82,032	82,169	80,789
Hempstead Av	20,781	19,270	18,731	22,786	24,705	22,303	19,701	19,196	23,311	22,193	18,358	19,136	24,997
Hillside Ave	13,697	13,472	12,558	12,170	12,489	12,481	12,862	11,768	14,004	13,865	13,976	12,962	13,283
Jamaica Ave	15,601	15,903	14,954	14,524	14,433	14,318	14,947	14,285	14,625	12,774	13,262	14,759	12,990
Laurelton Pky	85,728	80,245	80,157	79,954	75,794	74,934	83,535	81,615	77,773	80,608	75,961	77,020	76,580
Linden Blvd	12,869	13,521	13,099	11,976	12,855	12,430	12,815	12,025	12,314	12,853	11,900	12,701	12,328
Long Island Exp *	91,797	92,491	97,600	101,793	115,433	119,082	115,357	113,144	114,363	116,638	117,487	115,779	110,148
Merrick Blvd	10,441	9,841	9,466	9,238	9,041	9,140	9,741	9,630	11,365	10,159	10,348	10,913	9,930
Northern Blvd	23,054	20,807	21,523	20,953	20,765	20,252	20,885	21,642	23,838	21,911	22,270	21,263	20,428
Rockaway Blvd	35,464	36,156	36,371	39,466	38,167	38,366	36,767	36,560	37,548	38,459	36,435	37,768	34,226
Seagirt Blvd	10,665	10,046	11,236	10,659	10,099	10,204	10,800	10,690	10,928	10,926	11,106	11,915	10,909
Sunrise Hwy	33,706	35,166	32,833	33,626	32,159	33,065	32,749	32,213	31,281	33,452	32,360	32,833	32,259
Union Tpke	12,770	12,532	11,792	10,826	11,338	10,709	11,259	11,491	11,835	12,178	12,110	11,812	12,815
Totals	480,260	473,349	462,916	469,587	477,437	473,526	480,213	475,313	483,838	486,161	478,260	480,729	471,144

* Includes service roads.

* Central Av & Seagirt Blvd not counted prior to 1986

**Queens - Nassau Screenline
Historical Comparisons
Average Daily Traffic Volumes
(continued)**

To Nassau

	1963	1973	1982	1986	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Beach Channel Dr	9,050	11,472	14,759	13,165	11,107	11,198	11,923	12,037	12,642	12,022	11,929	11,740	11,532	12,207	12,484
Central Ave	n/a	n/a	n/a	7,124	5,424	4,959	5,022	5,452	4,905	5,215	4,711	5,119	4,910	5,175	5,100
Grand Cent Pky *	26,440	57,341	48,424	72,191	89,073	80,438	79,481	82,086	79,934	84,576	85,888	85,579	89,640	89,813	92,426
Hempstead Ave	16,680	16,293	13,555	18,035	19,155	21,008	20,722	19,453	20,328	20,815	22,359	22,400	22,176	23,621	24,466
Hillside Ave	11,270	10,297	10,625	11,419	13,089	14,398	13,247	12,860	13,324	13,077	15,482	13,901	13,526	13,593	12,864
Jamaica Ave	7,930	11,326	13,345	13,377	13,293	12,744	12,971	13,170	13,229	13,391	13,495	13,821	13,702	14,869	14,721
Laurelton Pky	42,460	49,924	53,734	76,261	73,044	76,773	75,841	74,897	79,808	82,005	84,544	82,489	89,251	85,216	86,229
Linden Blvd	7,490	8,260	7,697	10,283	10,718	10,660	11,626	15,038	15,443	15,660	15,797	15,679	15,136	15,327	16,528
Long Island Exp *	73,410	86,858	83,902	98,443	96,937	97,860	98,271	99,342	101,200	100,938	99,919	93,967	92,593	92,794	90,940
Merrick Blvd	7,760	8,080	7,296	9,206	9,339	9,866	10,205	9,871	9,933	9,852	9,595	9,482	9,568	9,920	10,052
Northern Blvd	14,680	15,585	21,745	20,741	20,477	21,524	20,619	19,876	19,987	19,854	20,747	22,049	21,584	21,243	21,970
Rockaway Blvd	17,990	21,473	25,214	30,059	32,317	33,958	35,009	34,237	32,226	32,193	34,598	37,683	35,134	36,098	37,929
Seagirt Blvd	n/a	n/a	n/a	6,230	8,124	7,899	8,093	8,261	7,727	8,112	8,452	8,806	7,895	10,051	11,634
Sunrise Hwy	30,740	31,301	28,805	29,145	32,406	32,821	30,458	33,147	34,178	34,158	34,796	34,389	34,099	31,920	33,123
Union Tpke	8,290	7,552	10,566	10,854	9,769	10,737	10,513	10,502	10,100	10,163	10,873	10,182	12,618	13,346	12,896
Totals	274,190	335,762	339,667	426,533	444,272	446,843	444,001	450,229	454,964	462,031	473,185	467,286	473,364	475,193	483,362

To Nassau

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Beach Channel Dr	11,702	11,652	13,454	13,615	11,667	11,531	11,772	10,891	11,126	10,797	11,036	11,036	11,141
Central Ave	5,541	5,762	6,262	5,334	4,803	4,738	4,750	4,861	4,869	4,944	4,647	4,647	3,504
Grand Cent Pky *	92,233	93,399	84,853	84,831	80,185	80,967	85,415	84,211	82,991	79,923	82,772	82,772	78,291
Hempstead Av	22,881	24,757	22,234	23,292	21,910	22,191	22,005	21,470	20,996	20,801	20,942	20,942	20,965
Hillside Ave	12,676	13,055	10,565	12,158	12,411	11,080	10,673	10,404	12,161	13,086	13,204	13,204	13,369
Jamaica Ave	15,126	15,717	14,660	14,479	14,641	13,953	14,203	13,928	14,414	13,411	14,433	14,433	14,085
Laurelton Pky	89,675	88,909	88,702	93,700	83,373	87,118	86,706	88,528	86,570	88,803	89,130	89,130	91,975
Linden Blvd	15,619	16,123	15,199	13,996	11,912	13,919	14,815	13,708	16,081	13,884	14,232	14,232	14,282
Long Island Exp *	92,065	92,333	94,300	99,602	114,971	119,870	112,483	117,334	113,868	114,800	105,209	105,209	114,753
Merrick Blvd	10,565	9,694	9,567	9,421	10,467	9,426	10,581	9,804	11,398	10,701	10,994	10,994	10,350
Northern Blvd	21,748	21,067	19,837	18,072	18,718	18,372	18,253	18,291	19,557	19,417	19,427	19,427	18,773
Rockaway Blvd	38,468	37,188	37,396	38,293	37,293	36,742	37,297	38,157	38,475	39,409	37,233	37,233	41,490
Seagirt Blvd	11,379	9,805	11,321	11,783	9,808	10,064	10,498	10,143	10,338	11,090	10,860	10,860	10,360
Sunrise Hwy	34,421	35,842	33,986	35,272	32,835	33,329	34,963	32,411	29,316	33,385	34,892	34,892	34,918
Union Tpke	12,246	10,437	9,297	8,774	9,074	8,775	9,041	8,204	8,222	9,392	9,920	9,920	9,216
Totals	485,345	485,740	471,633	482,622	474,068	482,075	483,455	482,345	480,382	483,843	478,931	478,931	487,472

* Includes service roads.

* Central Av & Seagirt Blvd not counted prior to 1986

**Queens - Nassau Screenline
Historical Comparisons
Average Daily Traffic Volumes
(continued)**

Both Directions

	1963	1973	1982	1986	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Beach Channel Dr	19,660	23,426	27,170	25,675	22,924	22,807	23,903	23,867	24,959	24,242	24,723	25,585	24,660	25,610	26,328
Central Ave	n/a	n/a	n/a	14,520	13,791	12,807	13,211	13,873	13,086	13,995	12,806	13,766	12,924	14,406	14,419
Grand Cent Pky *	51,720	104,836	110,038	143,966	174,334	162,869	158,670	158,657	157,787	163,492	168,866	173,196	180,865	178,867	187,218
Hempstead Ave	35,400	35,460	35,785	37,706	40,163	42,520	41,825	40,747	41,896	42,376	49,889	46,887	44,650	43,418	51,332
Hillside Ave	23,500	22,025	20,424	22,904	25,422	27,547	25,882	25,827	26,411	26,913	32,310	27,971	27,575	27,328	25,004
Jamaica Ave	15,300	22,799	27,329	27,458	27,383	26,519	26,310	27,120	26,378	27,213	28,264	28,742	28,206	30,193	29,765
Laurelton Pky	85,440	98,797	121,674	148,408	137,260	145,855	144,808	143,735	155,409	159,320	160,790	159,143	171,445	162,292	159,012
Linden Blvd	14,330	18,730	19,560	23,050	28,908	30,506	31,143	27,908	27,874	28,621	29,514	28,461	26,701	27,812	29,432
Long Island Exp *	143,750	172,152	167,558	188,996	198,130	199,832	198,606	200,944	201,602	201,248	196,630	191,379	182,798	190,612	190,634
Merrick Blvd	15,640	16,220	17,927	18,914	18,142	19,499	19,899	19,349	19,188	19,369	19,158	18,916	19,401	19,479	20,590
Northern Blvd	29,130	33,244	42,033	40,973	41,752	42,899	41,630	42,226	41,949	41,003	43,644	44,961	45,805	44,186	45,665
Rockaway Blvd	36,460	43,921	46,514	56,735	60,517	64,545	66,517	66,151	63,618	66,123	70,555	74,130	72,027	69,963	72,562
Seagirt Blvd	n/a	n/a	n/a	12,391	16,149	16,311	16,780	16,687	16,494	16,522	16,108	17,571	15,939	20,392	22,897
Sunrise Hwy	59,470	62,704	57,397	59,401	65,245	59,464	60,772	65,953	68,158	66,796	70,668	70,995	68,618	62,842	67,665
Union Tpke	16,750	16,388	19,737	22,441	22,198	23,195	22,787	23,100	22,322	22,170	23,118	18,444	25,113	26,606	26,171
Totals	546,550	670,702	713,146	843,538	892,318	897,175	892,743	896,144	907,131	919,403	947,043	940,147	946,727	944,006	968,694

Both Directions

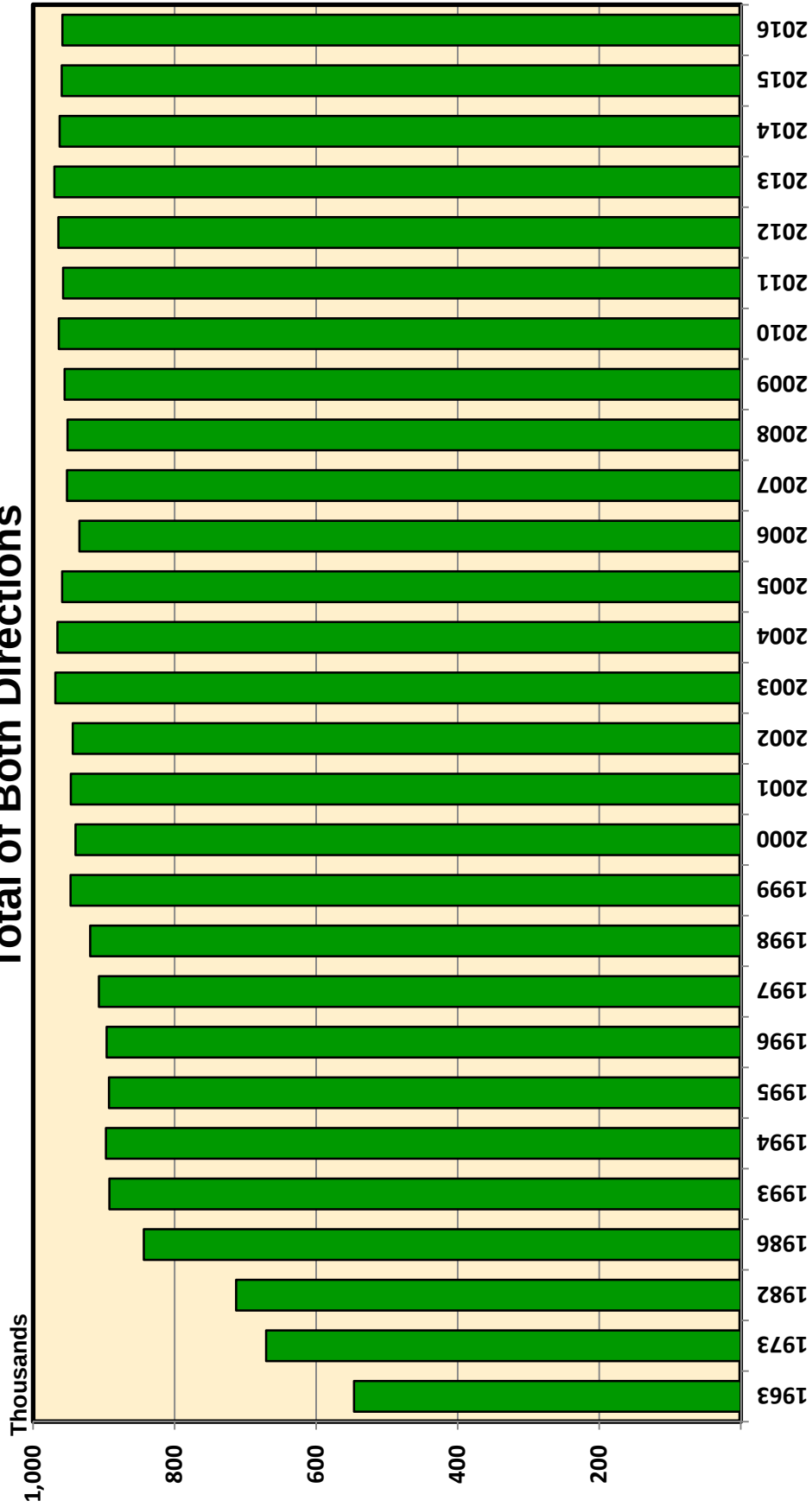
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Beach Channel Dr	24,244	23,649	25,801	28,992	24,352	23,541	24,287	22,818	23,370	23,380	21,889	21,973	22,343
Central Ave	14,222	14,671	15,570	13,655	13,854	13,516	13,583	13,700	14,002	13,912	14,449	13,409	11,764
Grand Cent Pky *	184,697	186,392	165,794	162,749	158,608	156,421	162,862	164,499	162,267	158,517	164,804	164,941	159,080
Hempstead Av	43,662	44,027	40,965	46,078	46,615	44,494	41,706	40,666	44,307	42,994	39,300	40,078	45,962
Hillside Ave	26,373	26,527	23,123	24,328	24,900	23,561	23,535	22,172	26,165	26,951	27,180	26,166	26,652
Jamaica Ave	30,727	31,620	29,614	29,003	29,074	28,271	29,150	28,213	29,039	26,185	27,695	29,192	27,075
Laurelton Pky	175,403	169,154	168,859	173,654	159,167	162,052	170,241	170,143	164,343	169,411	165,091	166,150	168,555
Linden Blvd	28,488	29,644	28,298	25,972	24,767	26,349	27,630	25,733	28,395	26,737	26,132	26,933	26,610
Long Island Exp *	183,862	184,824	191,900	201,395	230,404	238,952	227,840	230,478	228,231	231,438	222,696	220,988	224,901
Merrick Blvd	21,006	19,535	19,033	18,659	19,508	18,566	20,322	19,434	22,763	20,860	21,342	21,907	20,280
Northern Blvd	44,802	41,874	41,360	39,025	39,483	38,624	39,138	39,933	43,395	41,328	41,697	40,690	39,201
Rockaway Blvd	73,932	73,344	73,767	77,759	75,460	75,108	74,064	74,717	76,023	77,868	73,668	75,001	75,716
Seagirt Blvd	21,044	19,851	22,557	22,442	19,907	20,268	21,298	20,833	21,266	22,016	21,966	22,775	21,269
Sunrise Hwy	68,127	71,008	66,819	68,898	64,994	66,394	67,712	64,624	60,597	66,837	67,252	67,725	67,177
Union Tpke	25,016	22,969	21,089	19,600	20,412	19,484	20,300	19,695	20,057	21,570	22,030	21,732	22,031
Totals	965,605	959,089	934,549	952,209	951,505	955,601	963,668	957,658	964,220	970,004	957,191	959,660	958,616

* Includes service roads.

* Central Av & Seagirt Blvd not counted prior to 1986

Queens – Nassau Screenline

Historical Comparisons
Average Daily Traffic Volumes
Total of Both Directions



2016 Screenline Volumes

Queens - Nassau

	<i>Beach Channel Drive</i>		<i>Central Ave</i>		<i>Grand Central Parkway</i>				<i>Hempstead Ave</i>		<i>Hillside Ave</i>	
	* S/B	N/B	* W/B	E/B	* W/B	Main Rdwy	* W/B	E/B	* W/B	E/B	* W/B	E/B
Mid-1am	228	123	121	30	282	972	18	20	306	361	100	113
1-2am	143	80	59	14	203	447	8	6	179	194	42	56
2-3am	82	68	36	12	270	275	7	4	139	131	24	35
3-4am	70	86	31	10	837	215	5	2	158	109	24	21
4-5am	84	142	41	17	4,282	420	14	6	356	179	62	41
5-6am	182	316	101	60	5,107	1,211	43	22	960	365	215	99
6-7am	460	583	293	131	4,250	3,483	158	86	1,683	620	954	248
7-8am	581	758	443	202	3,619	5,456	425	154	1,769	1,192	1,028	655
8-9am	566	666	467	222	4,244	5,726	718	145	1,564	1,330	756	915
9-10am	505	623	444	221	4,197	5,301	591	204	1,319	1,065	640	727
10-11am	498	602	403	220	3,747	4,178	355	216	1,236	960	602	610
11-Noon	497	612	391	196	3,551	4,026	343	255	1,198	964	629	654
Noon-1	558	628	429	187	3,609	4,034	353	321	1,214	1,081	718	644
1-2pm	590	645	440	215	4,100	4,237	354	300	1,294	1,139	714	727
2-3pm	628	681	487	223	4,469	4,942	393	311	1,352	1,273	736	817
3-4pm	662	697	505	233	4,712	4,159	600	364	1,303	1,361	771	1,035
4-5pm	697	662	571	229	4,716	3,102	744	496	1,369	1,365	859	1,270
5-6pm	732	667	626	269	4,529	3,302	733	495	1,468	1,381	1,102	1,272
6-7pm	711	600	592	224	3,996	4,300	562	435	1,442	1,407	980	1,089
7-8pm	722	527	501	183	2,919	4,476	201	287	1,241	1,261	768	801
8-9pm	632	433	417	141	2,501	3,436	124	204	1,112	1,063	614	653
9-10pm	563	390	343	108	1,839	2,356	74	142	972	868	447	415
10-11pm	463	311	305	86	1,234	2,200	61	75	796	718	303	295
11-Mid	348	241	214	71	666	1,454	26	33	567	578	195	177
24 hr Total	11,202	11,141	8,260	3,504	73,879	73,708	6,910	4,583	24,997	20,965	13,283	13,369
6-10am	2,112	2,630	1,647	776	16,310	19,966	1,892	589	6,335	4,207	3,378	2,545
10am-1pm	1,553	1,842	1,223	603	10,907	12,238	1,051	792	3,648	3,005	1,949	1,908
1-3pm	1,218	1,326	927	438	8,569	9,179	747	611	2,646	2,412	1,450	1,544
3-7pm	2,802	2,626	2,294	955	17,953	14,863	2,639	1,790	5,582	5,514	3,712	4,666
6am-7pm	7,685	8,424	6,091	2,772	53,739	56,246	6,329	3,782	18,211	15,138	10,489	10,663

* To Queens

2016 Screenline Volumes Queens - Nassau (cont'd)

	Jamaica Ave		Laurelton Parkway		Linden Blvd		Long Island Expressway				Merrick Blvd	
	* W/B	E/B	* W/B	E/B	* W/B	E/B	* W/B	E/B	Main Rdwy	Service Rdwy	* W/B	E/B
Mid-1am	129	120	1,050	2,159	208	223	1,359	2,345		7	86	150
1-2am	67	73	600	1,196	119	121	933	1,518		4	51	90
2-3am	51	57	495	755	81	76	971	1,222		3	37	64
3-4am	58	40	682	580	72	69	1,406	1,162		2	37	41
4-5am	103	89	1,697	813	110	129	2,782	1,639		5	62	45
5-6am	363	193	5,109	1,787	304	279	5,955	3,287	105	30	239	100
6-7am	748	463	5,298	4,032	700	489	5,454	5,316	1,018	127	724	229
7-8am	804	801	4,398	4,471	773	790	4,967	6,189	594	238	661	415
8-9am	705	1,030	3,373	4,767	689	822	4,940	6,484	193	391	577	565
9-10am	658	935	3,156	4,641	562	717	5,204	6,062	202	302	453	516
10-11am	636	759	3,348	4,141	548	649	5,565	5,507	319	217	456	509
11-Noon	642	782	3,672	4,075	559	674	5,342	5,494	253	238	478	524
Noon-1	648	784	3,674	4,307	601	730	5,477	5,698	181	228	532	569
1-2pm	641	800	3,791	4,602	651	781	5,139	5,667	158	215	570	586
2-3pm	673	846	3,898	4,859	630	896	5,431	5,917	159	308	578	635
3-4pm	732	971	4,063	5,264	692	937	5,685	5,847	207	804	607	690
4-5pm	937	1,088	4,207	5,871	713	948	5,974	5,074	405	1,146	606	774
5-6pm	871	1,064	4,400	5,764	757	929	5,784	4,905	860	1,134	701	855
6-7pm	913	917	4,211	5,801	761	926	5,023	5,563	912	781	681	840
7-8pm	758	741	3,940	5,618	720	849	5,050	5,808	441	229	538	714
8-9pm	662	563	3,470	5,004	652	725	4,757	5,330	112	108	473	540
9-10pm	540	434	3,237	4,368	580	603	4,408	4,678	63	65	370	395
10-11pm	399	316	2,819	4,030	479	565	3,760	4,165	39	46	246	302
11-Mid	252	219	1,992	3,070	367	355	2,513	3,214	27	23	167	202
24 hr Total	12,990	14,085	76,580	91,975	12,328	14,282	103,879	108,091	6,269	6,662	9,930	10,350

6-10am	2,915	3,229	16,225	17,911	2,724	2,818	20,565	24,051	2,007	1,058	2,415	1,725
10am-1pm	1,926	2,325	10,694	12,523	1,708	2,053	16,384	16,699	753	683	1,466	1,602
1-3pm	1,314	1,646	7,689	9,461	1,281	1,677	10,570	11,584	317	523	1,148	1,221
3-7pm	3,453	4,040	16,881	22,700	2,923	3,740	22,466	21,389	2,384	3,865	2,595	3,159
6am-7pm	9,608	11,240	51,489	62,595	8,636	10,288	69,985	73,723	5,461	6,129	7,624	7,707

* To Queens

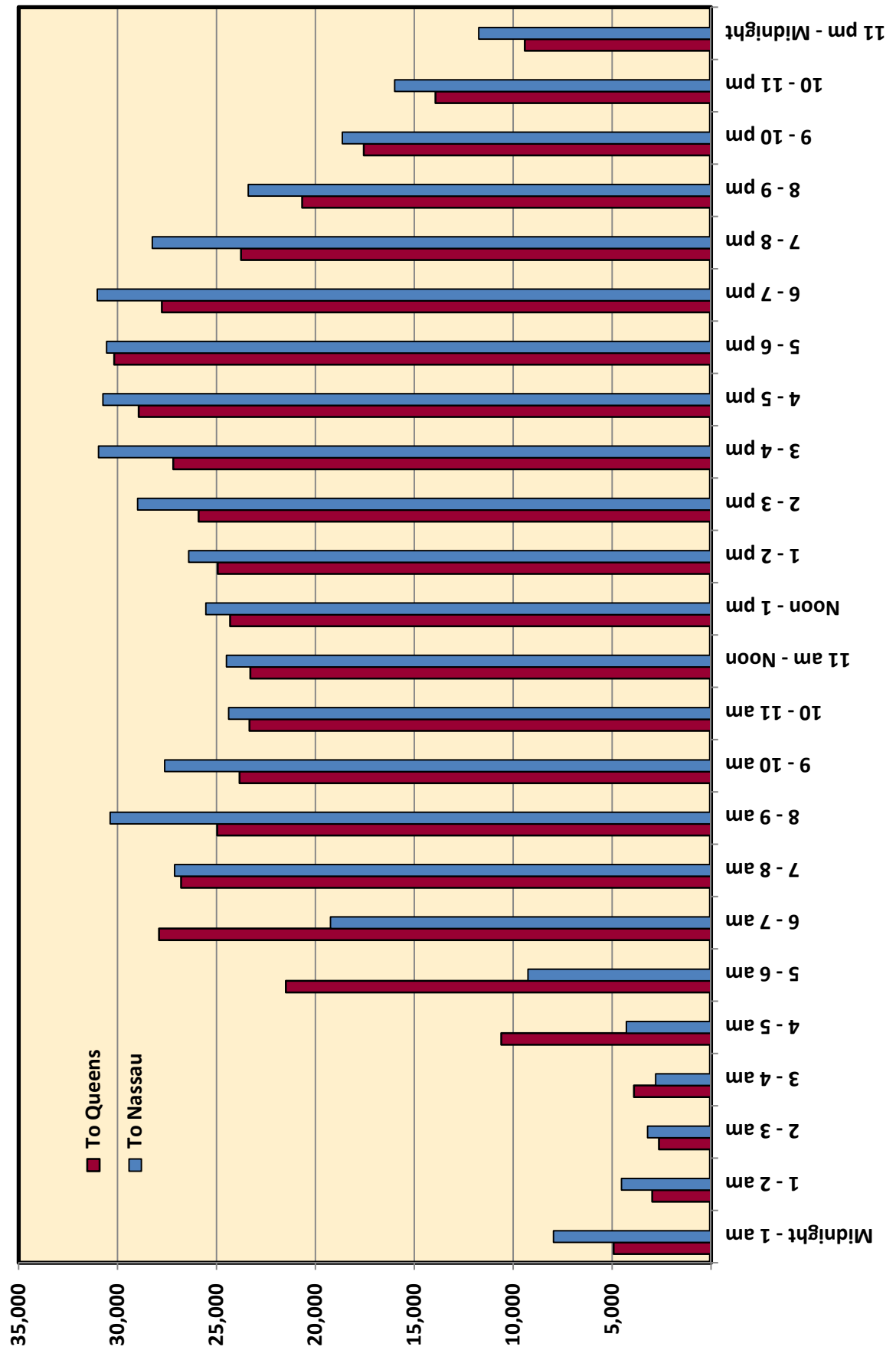
2016 Screenline Volumes Queens - Nassau (cont'd)

	Northern Blvd		Rockaway Blvd		Seagirt Blvd		Sunrise Hwy		Union Tpke		Totals	
	* W/B	E/B	* N/B	S/B	* W/B	E/B	* W/B	E/B	* W/B	E/B	To Queens	To Nassau
Mid-1am	90	103	388	771	162	88	310	326	81	47	4,925	7,963
1-2am	42	57	237	419	87	46	155	178	42	25	2,971	4,525
2-3am	35	40	191	277	49	35	127	137	32	13	2,630	3,205
3-4am	26	27	235	243	39	50	189	123	26	14	3,897	2,796
4-5am	69	40	485	362	49	94	377	224	23	31	10,601	4,278
5-6am	278	144	1,185	613	145	222	1,106	448	93	79	21,490	9,255
6-7am	1,254	423	2,082	1,451	559	456	1,829	913	441	187	27,905	19,237
7-8am	1,466	1,126	2,140	2,072	840	666	1,703	1,457	575	474	26,786	27,116
8-9am	1,317	1,439	2,062	2,362	680	673	1,631	2,014	479	822	24,961	30,373
9-10am	1,269	1,319	1,987	1,940	537	550	1,605	1,866	502	632	23,831	27,621
10-11am	1,171	1,093	1,863	1,866	457	497	1,555	1,866	571	498	23,330	24,388
11-Noon	940	972	1,904	2,086	461	507	1,679	1,931	751	504	23,290	24,494
Noon-1	1,139	1,047	1,924	2,088	489	555	1,803	2,073	959	566	24,308	25,540
1-2pm	1,166	1,094	1,957	2,195	553	555	1,892	2,038	929	610	24,939	26,406
2-3pm	1,186	1,216	1,950	2,523	608	688	1,877	2,247	850	603	25,905	28,985
3-4pm	1,301	1,326	1,988	3,040	651	902	1,868	2,590	837	742	27,184	30,962
4-5pm	1,433	1,480	2,082	2,886	686	899	1,895	2,671	1,036	780	28,930	30,741
5-6pm	1,433	1,446	2,090	2,819	795	792	1,962	2,737	1,327	721	30,170	30,552
6-7pm	1,413	1,400	1,820	2,847	784	618	1,899	2,641	1,063	633	27,763	31,022
7-8pm	1,165	1,056	1,582	2,581	657	470	1,776	2,189	783	457	23,762	28,247
8-9pm	920	791	1,396	2,051	543	336	1,680	1,681	605	335	20,670	23,394
9-10pm	606	563	1,089	1,637	449	241	1,555	1,153	417	223	17,552	18,639
10-11pm	455	342	868	1,310	361	220	1,107	876	234	135	13,929	15,992
11-Mid	254	229	721	1,051	268	200	679	539	159	85	9,415	11,741
24 hr Total	20,428	18,773	34,226	41,490	10,909	10,360	32,259	34,918	12,815	9,216	471,144	487,472
6-10am	5,306	4,307	8,271	7,825	2,616	2,345	6,768	6,250	1,997	2,115	103,483	104,347
10am-1pm	3,250	3,112	5,691	6,040	1,407	1,559	5,037	5,870	2,281	1,568	70,928	74,422
1-3pm	2,352	2,310	3,907	4,718	1,161	1,243	3,769	4,285	1,779	1,213	50,844	55,391
3-7pm	5,580	5,652	7,980	11,592	2,916	3,211	7,624	10,639	4,263	2,876	114,047	123,277
6am-7pm	16,488	15,381	25,849	30,175	8,100	8,358	23,198	27,044	10,320	7,772	339,302	357,437

* To Queens

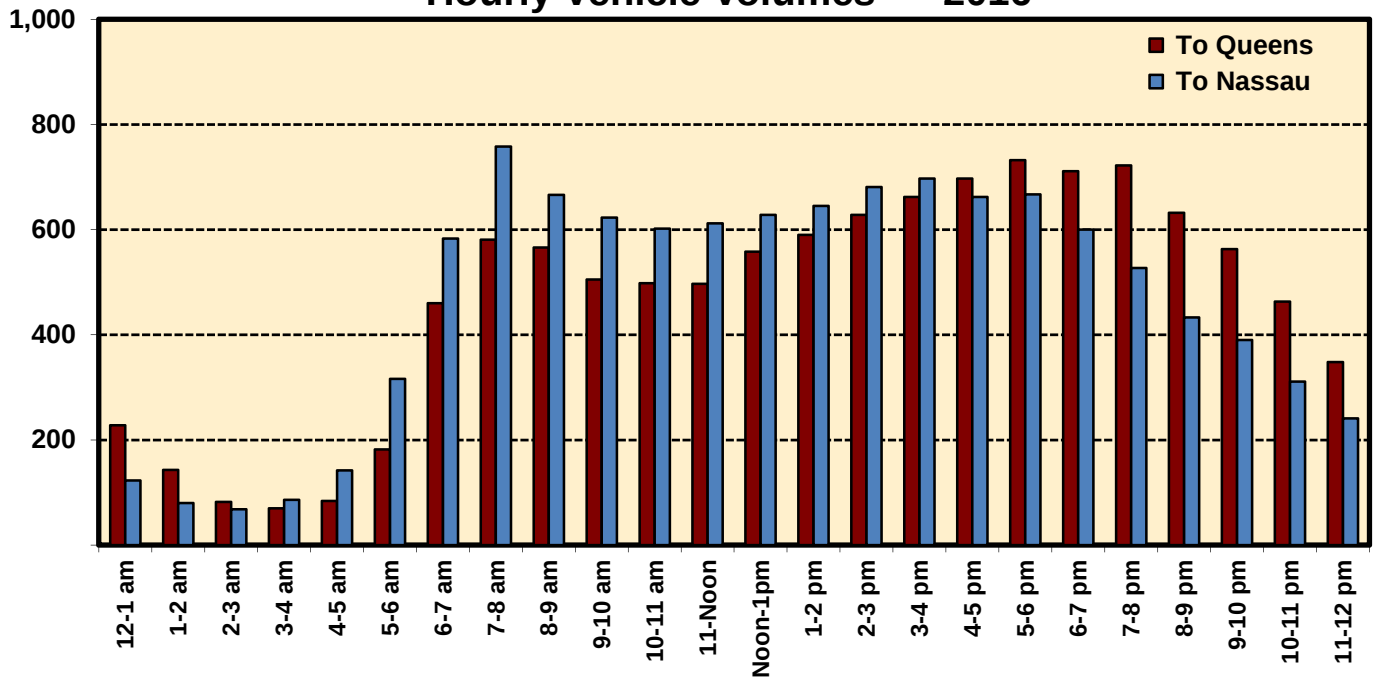
Queens - Nassau Screenline

Total Hourly Vehicle Volumes ~ 2016

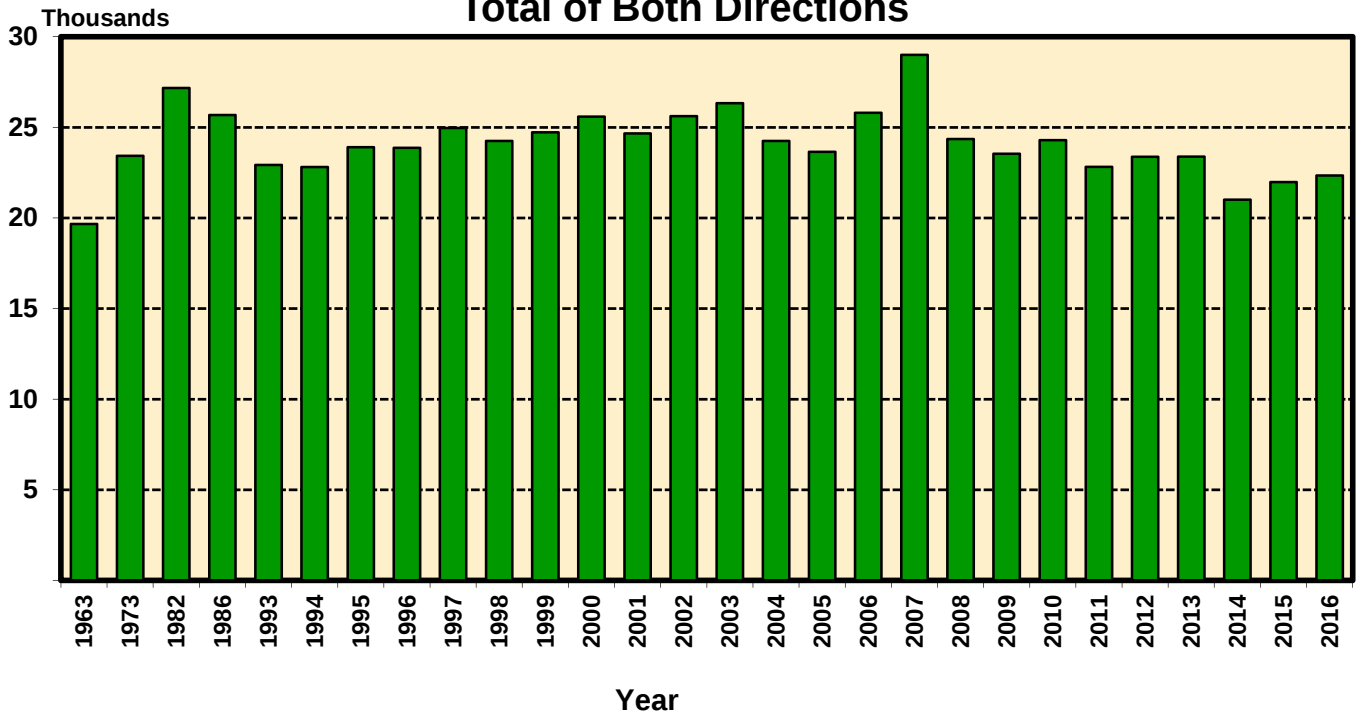


Queens – Nassau Screenline Volumes

Beach Channel Drive Hourly Vehicle Volumes ~ 2016

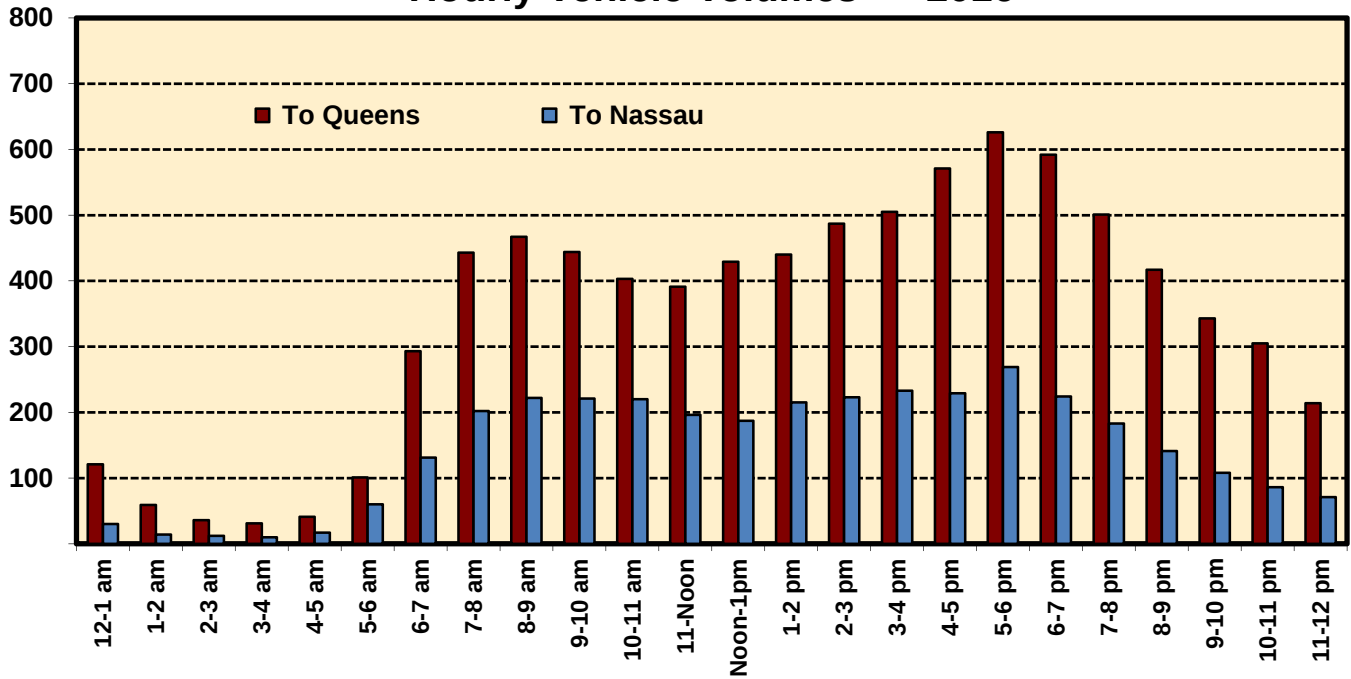


Beach Channel Drive Average Daily Traffic Volumes Total of Both Directions

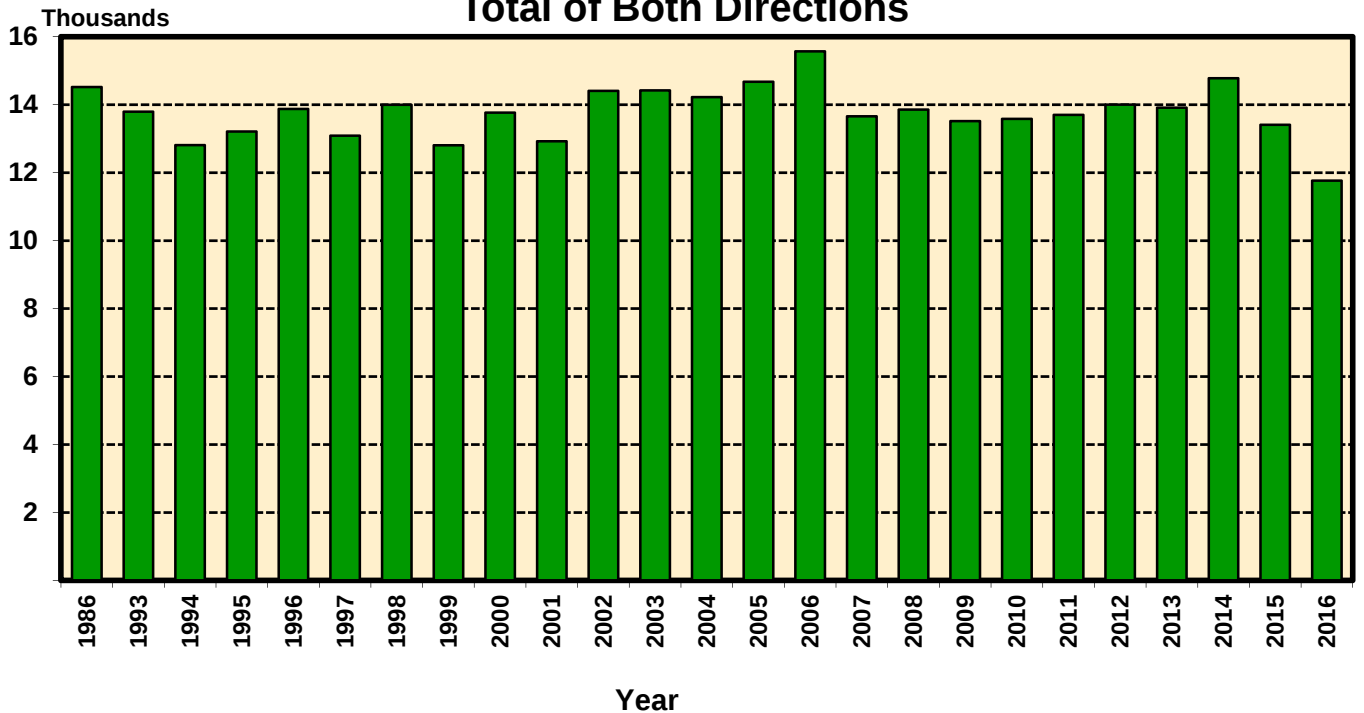


Queens – Nassau Screenline Volumes

**Central Avenue
Hourly Vehicle Volumes ~ 2016**

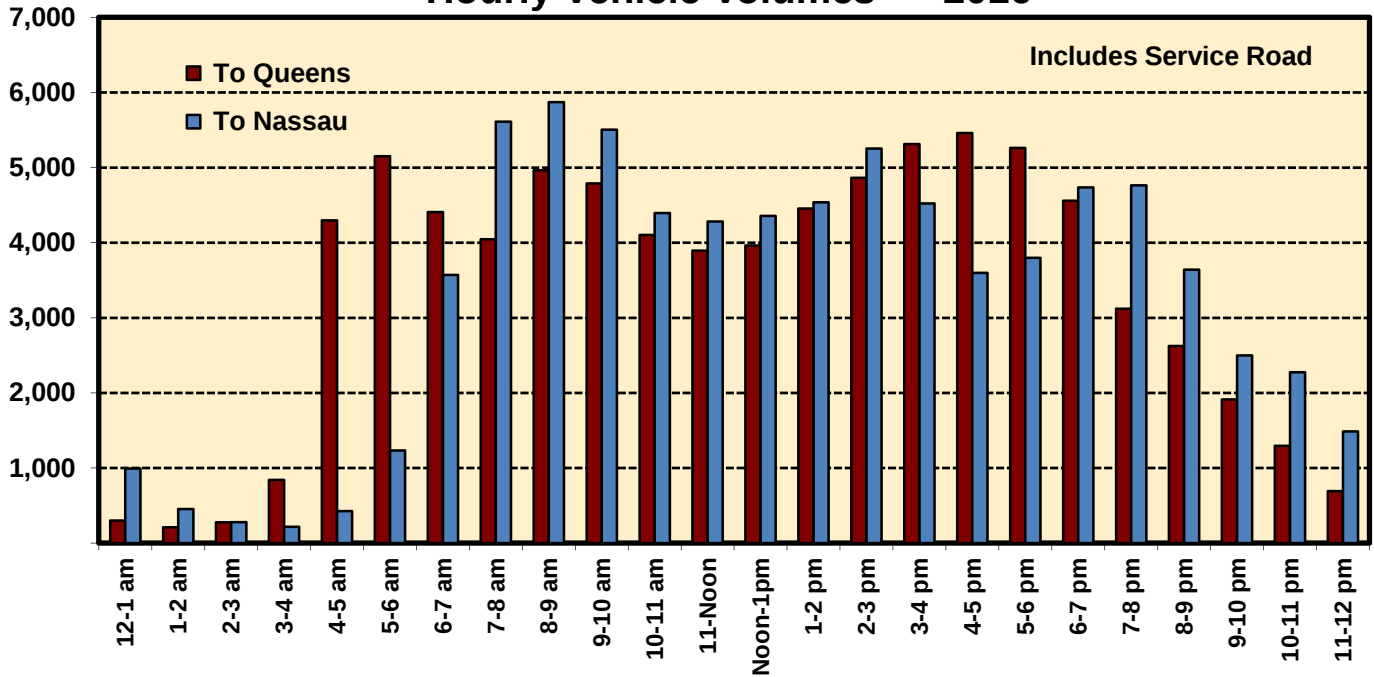


**Central Avenue
Average Daily Traffic Volumes
Total of Both Directions**

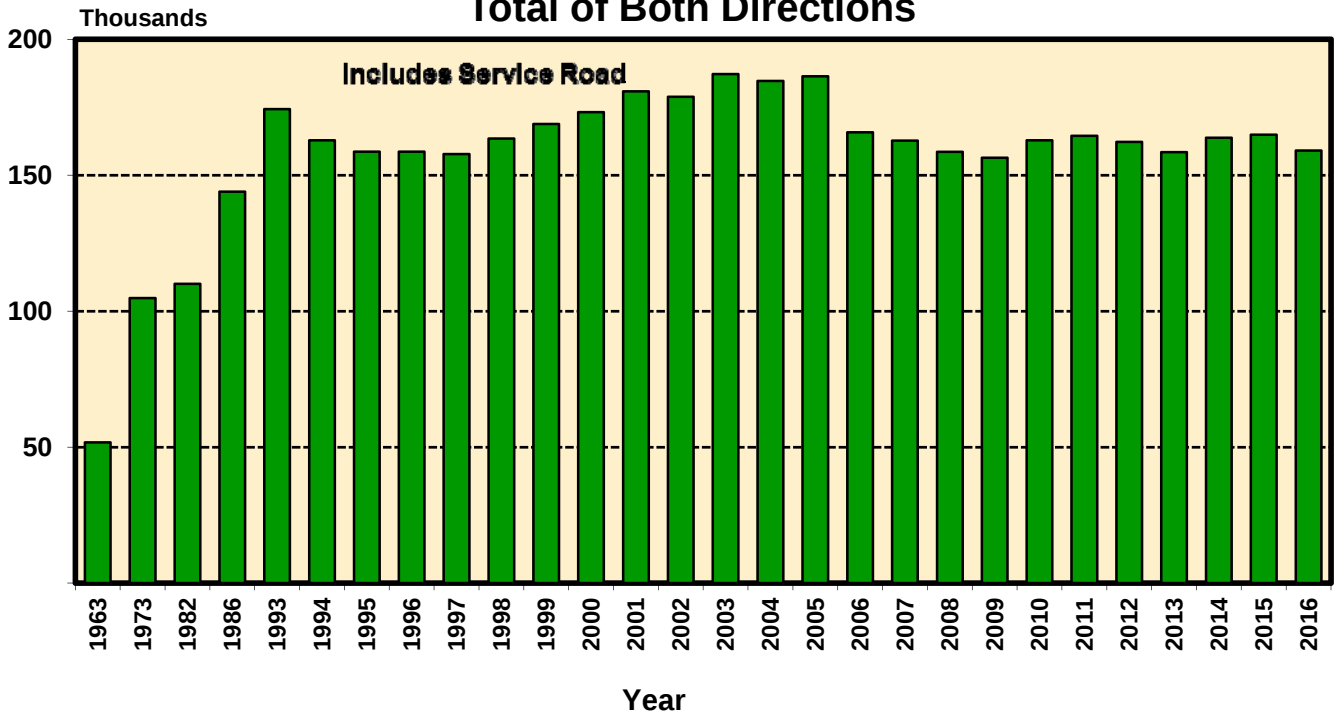


Queens – Nassau Screenline Volumes

Grand Central Parkway Hourly Vehicle Volumes ~ 2016

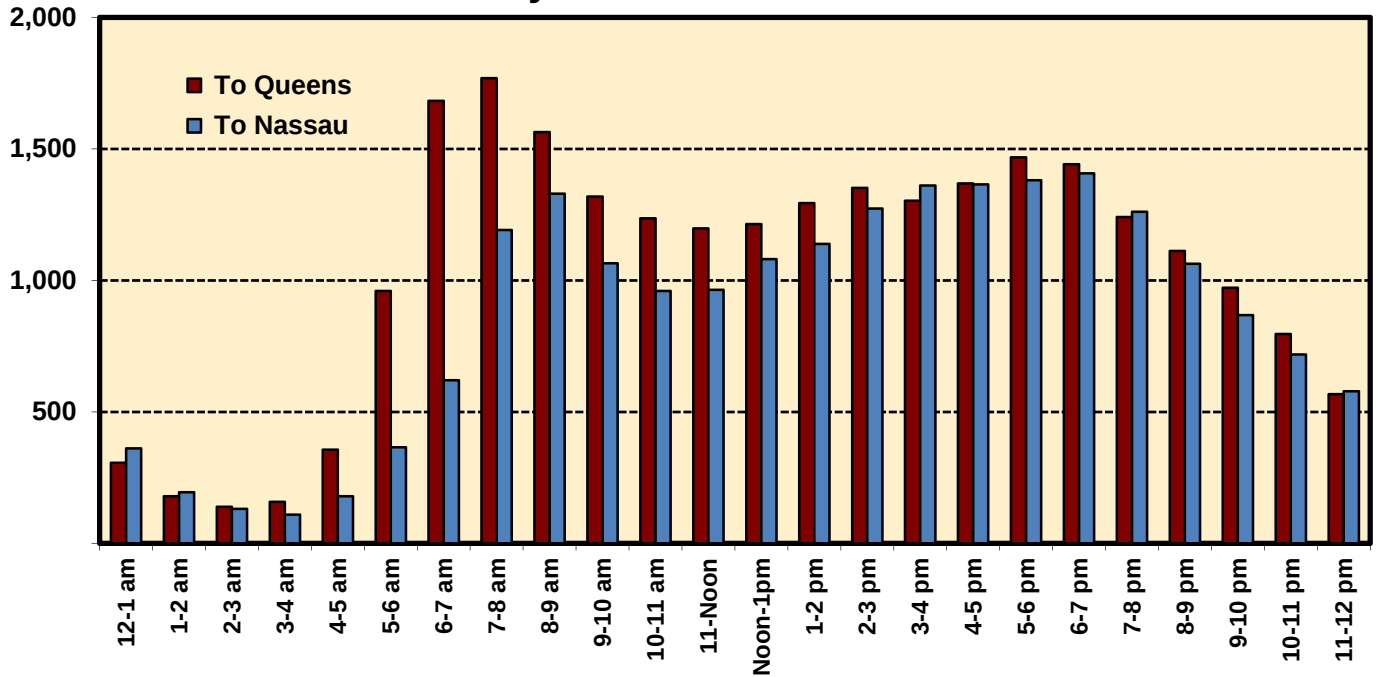


Grand Central Parkway Average Daily Traffic Volumes Total of Both Directions

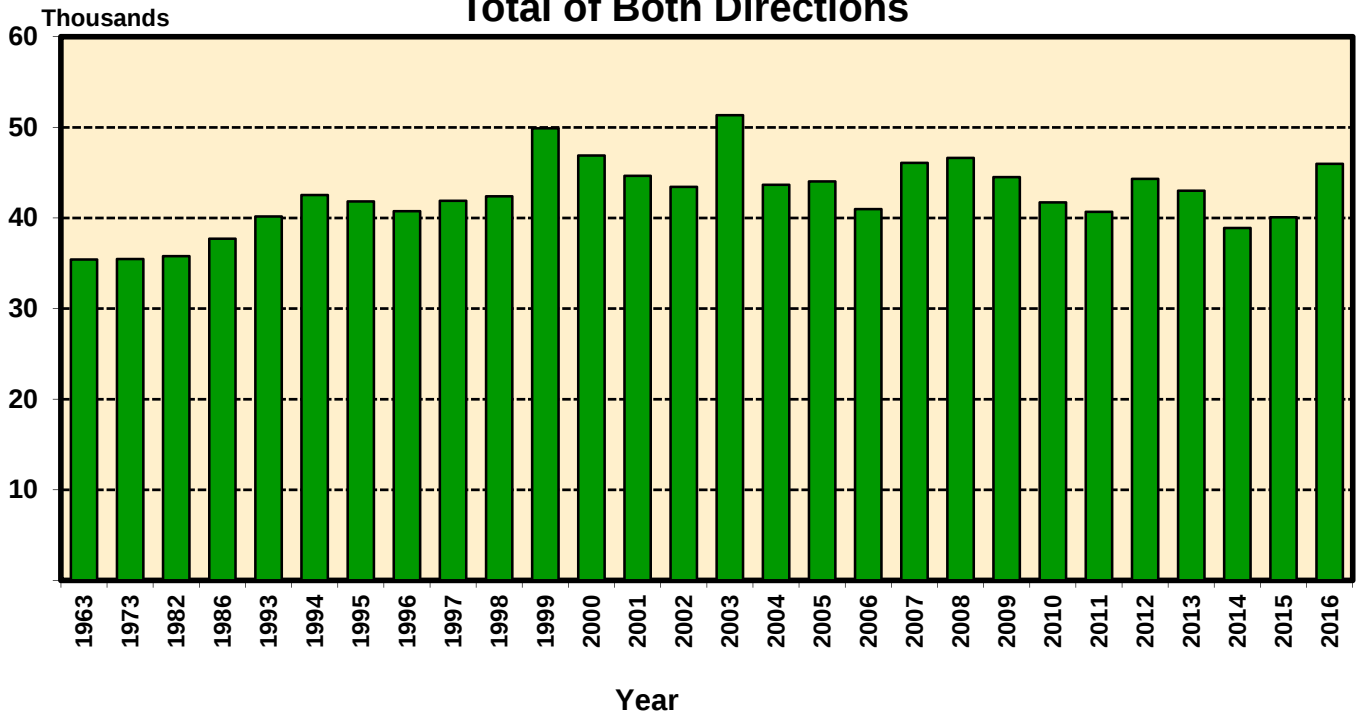


Queens – Nassau Screenline Volumes

Hempstead Avenue Hourly Vehicle Volumes ~ 2016

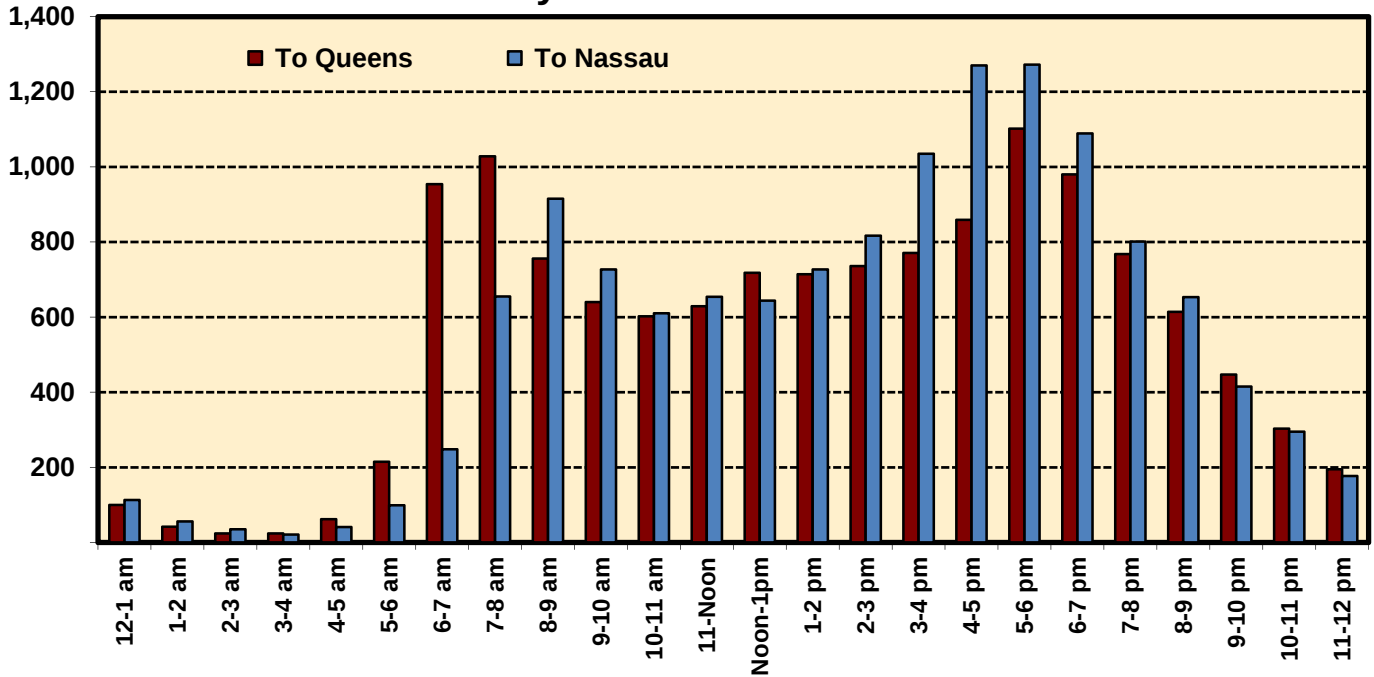


Hempstead Avenue Average Daily Traffic Volumes Total of Both Directions

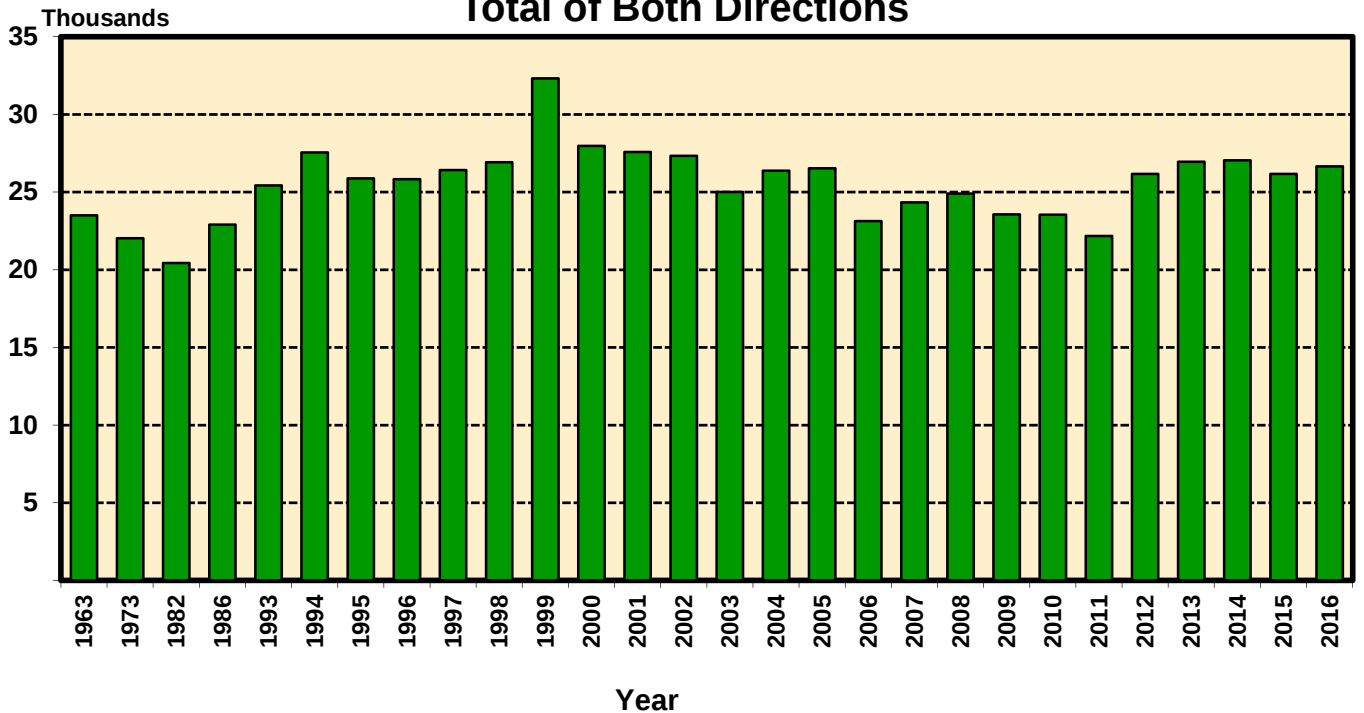


Queens – Nassau Screenline Volumes

Hillside Avenue Hourly Vehicle Volumes ~ 2016

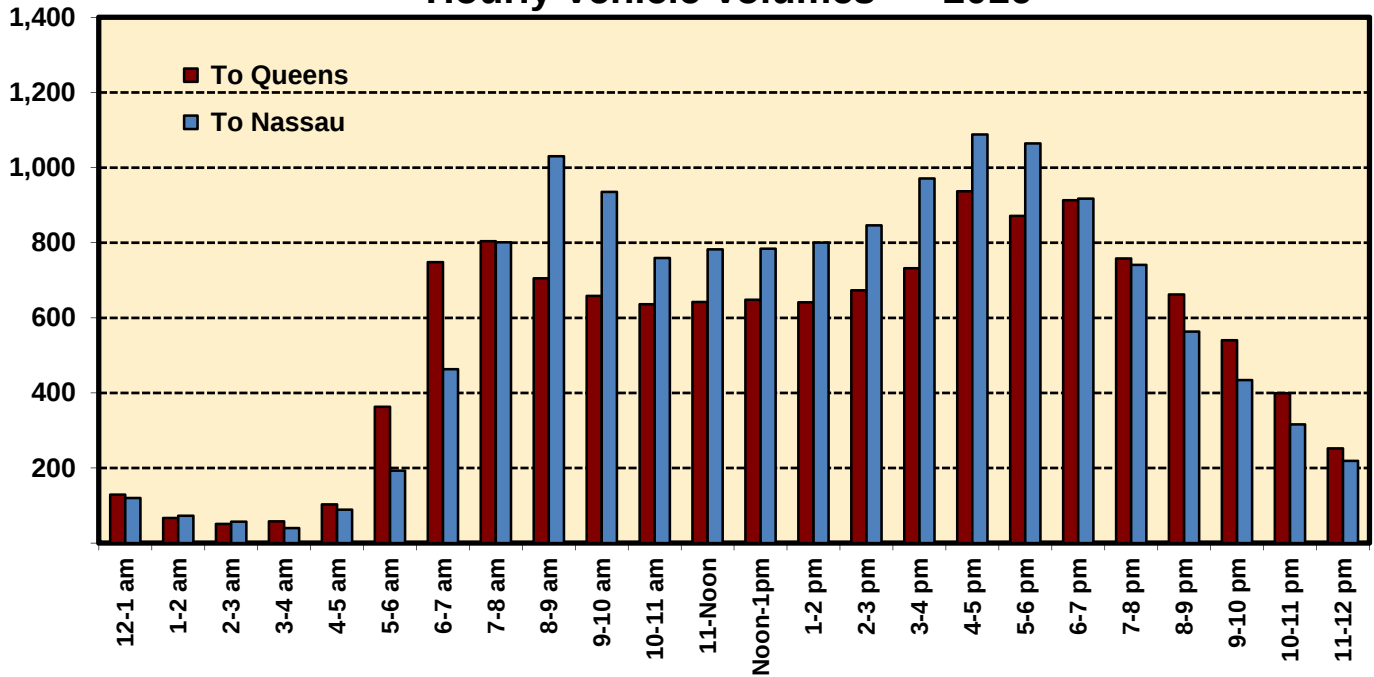


Hillside Avenue Average Daily Traffic Volumes Total of Both Directions

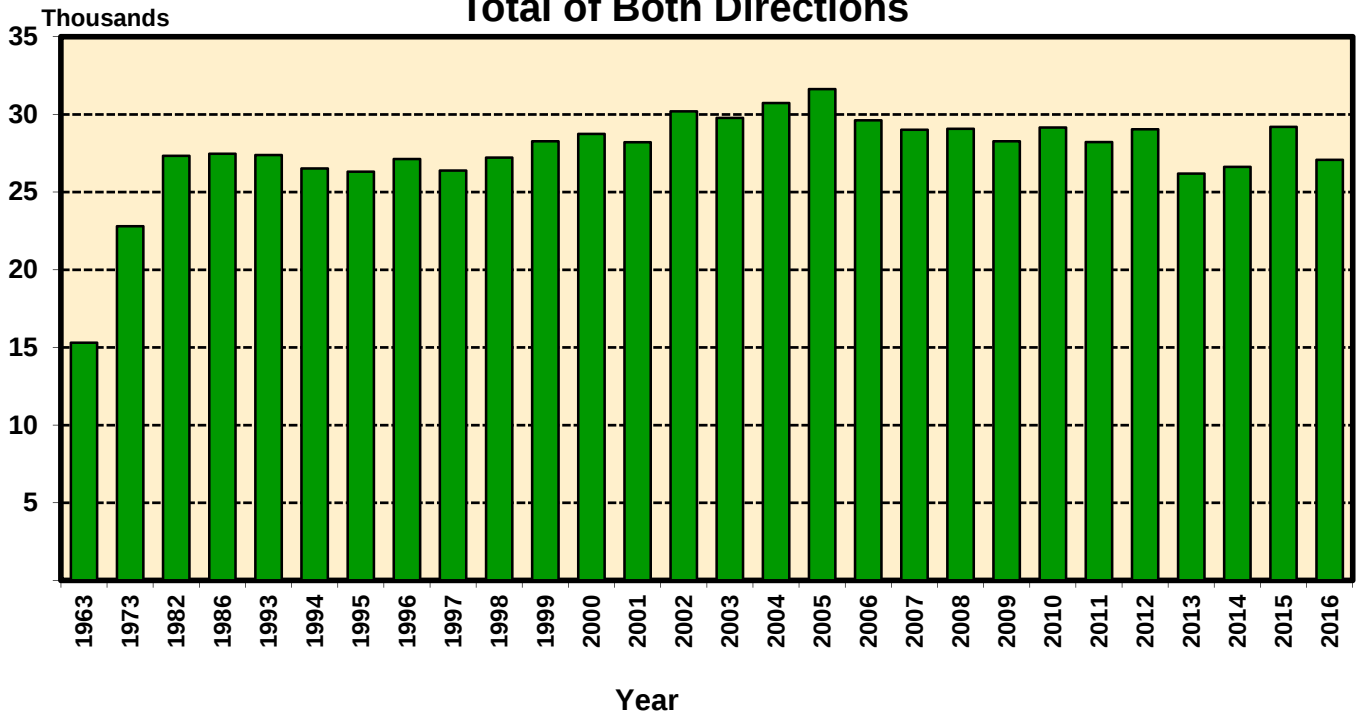


Queens – Nassau Screenline Volumes

Jamaica Avenue Hourly Vehicle Volumes ~ 2016

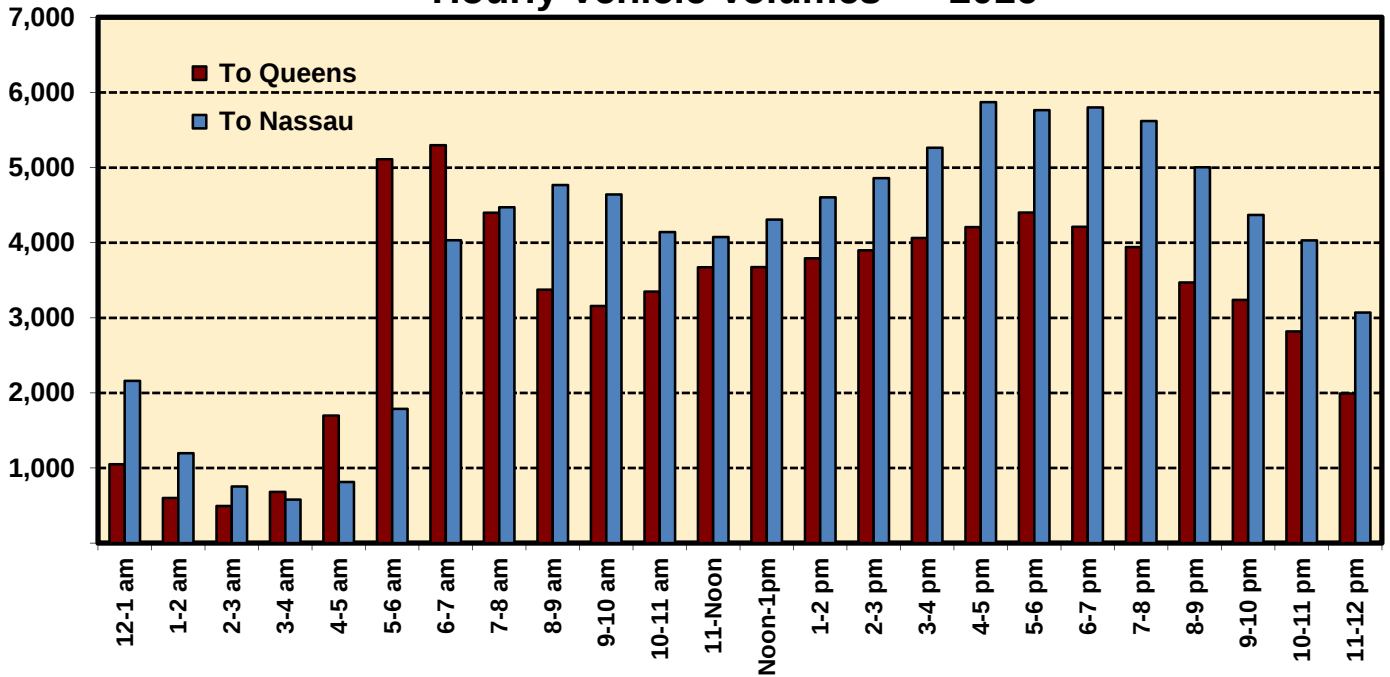


Jamaica Avenue Average Daily Traffic Volumes Total of Both Directions

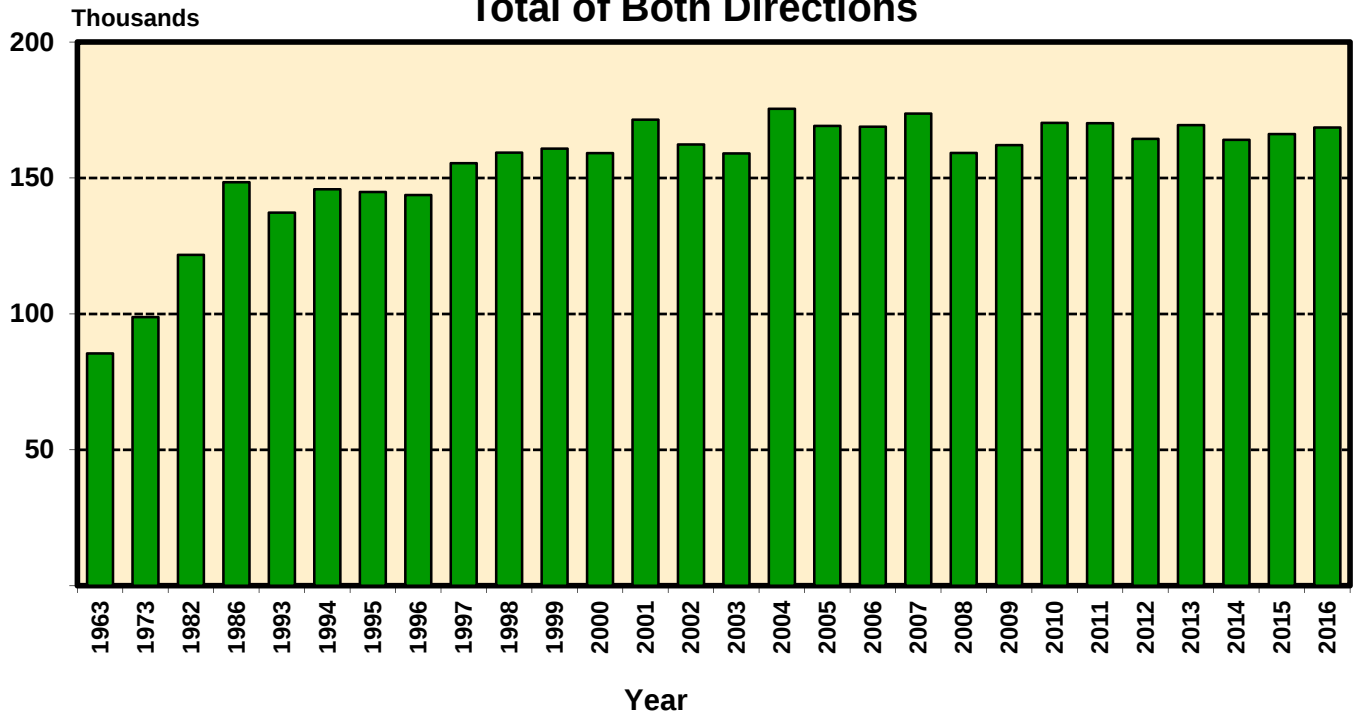


Queens – Nassau Screenline Volumes

**Laurelton Parkway
Hourly Vehicle Volumes ~ 2016**

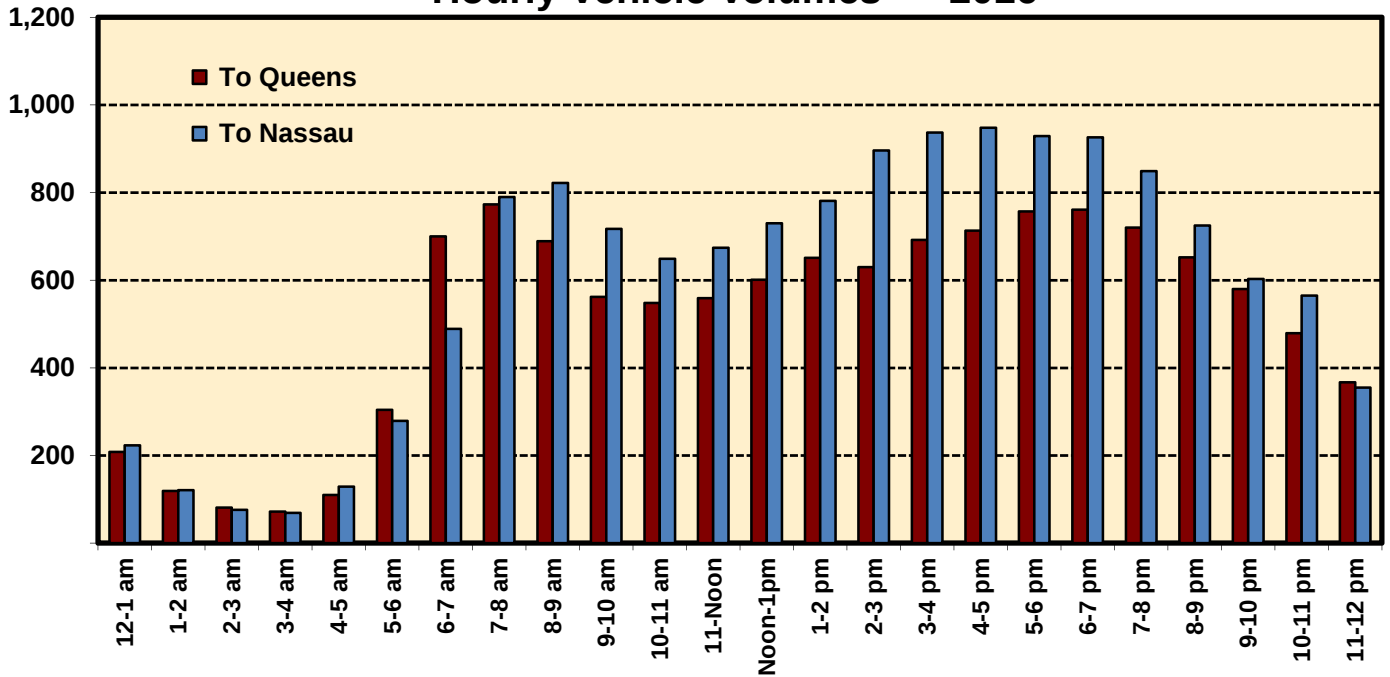


**Laurelton Parkway
Average Daily Traffic Volumes
Total of Both Directions**

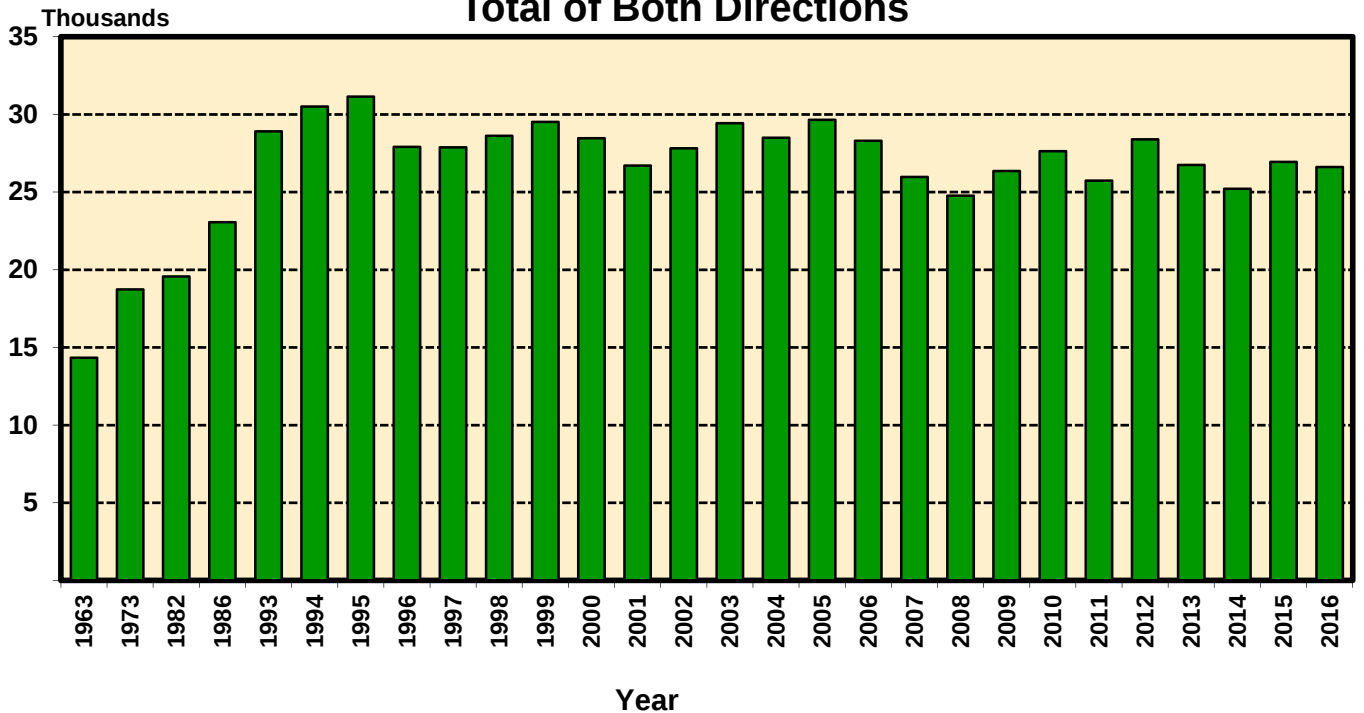


Queens – Nassau Screenline Volumes

Linden Boulevard Hourly Vehicle Volumes ~ 2016

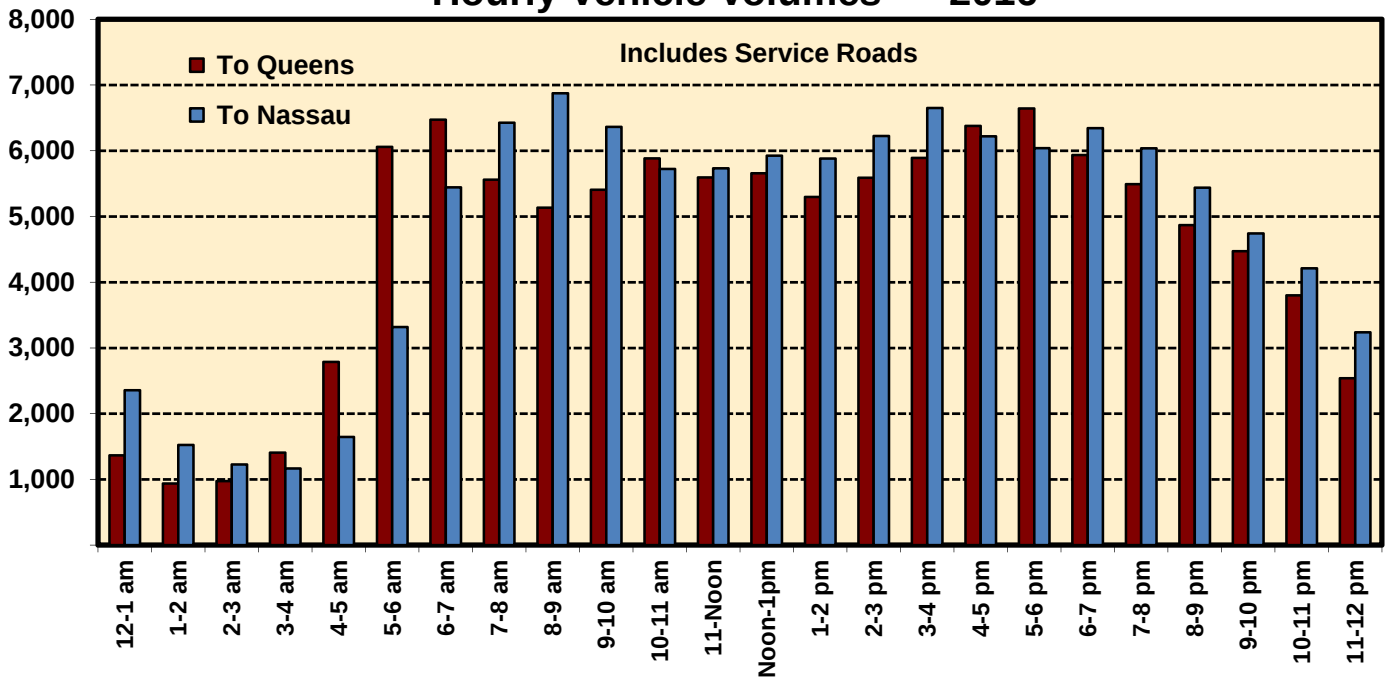


Linden Boulevard Average Daily Traffic Volumes Total of Both Directions

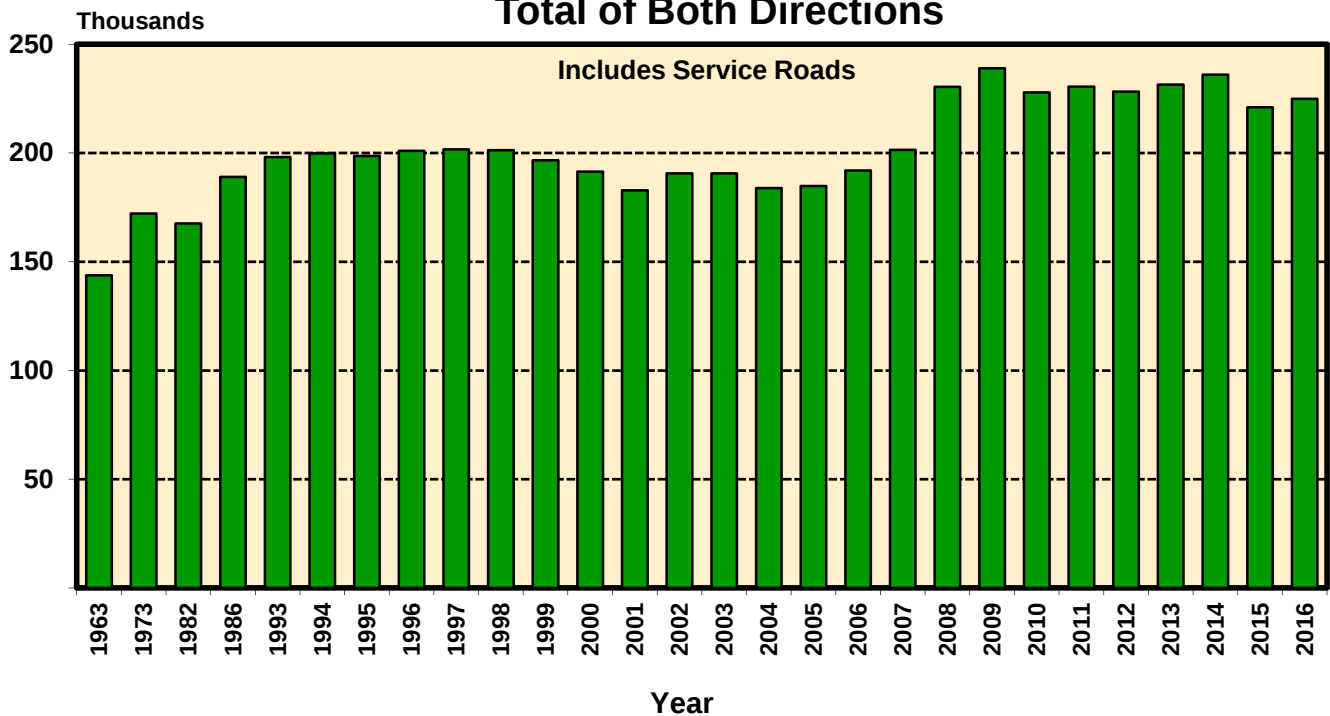


Queens – Nassau Screenline Volumes

Long Island Expressway Hourly Vehicle Volumes ~ 2016

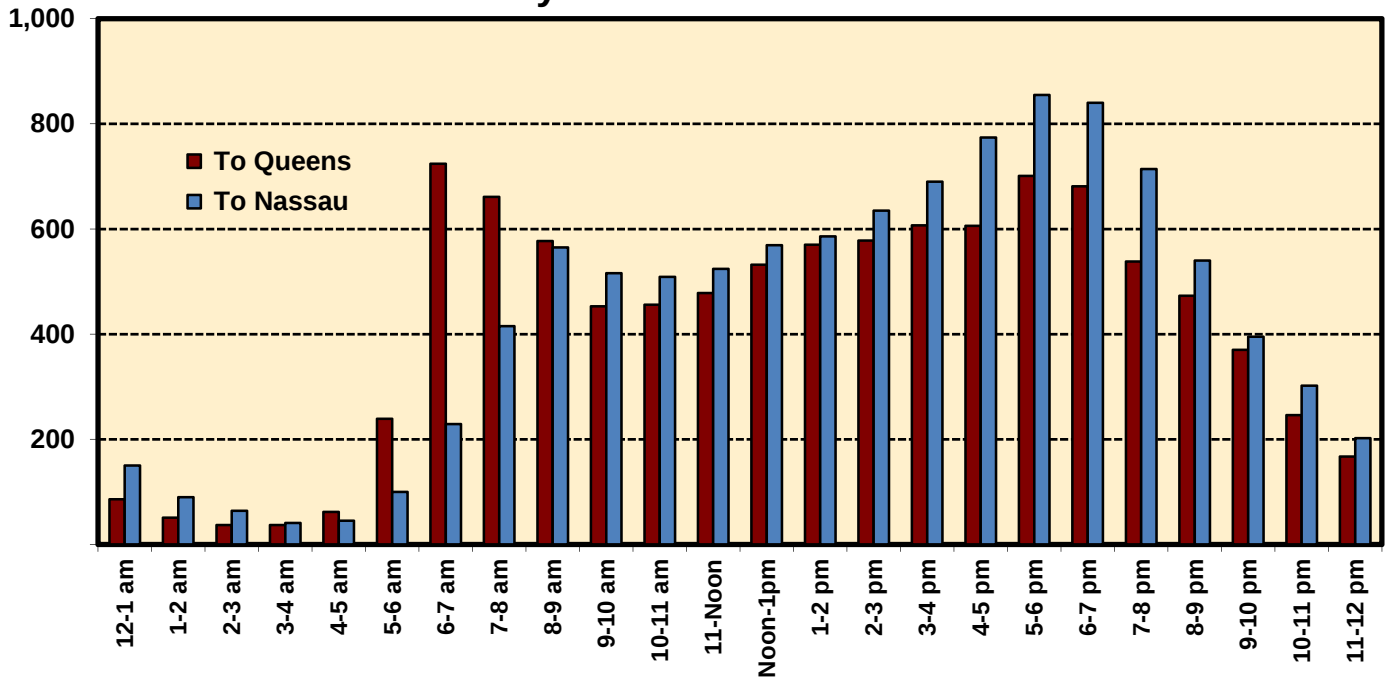


Long Island Expressway Average Daily Traffic Volumes Total of Both Directions

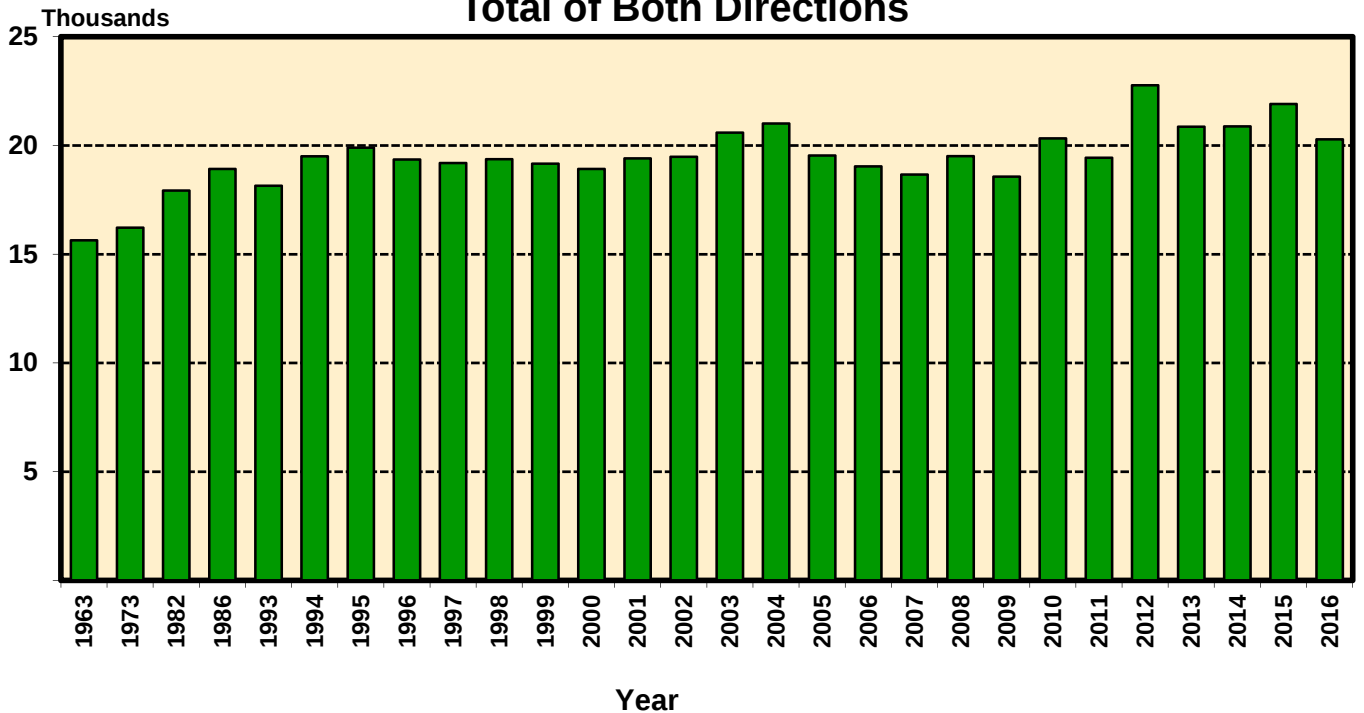


Queens – Nassau Screenline Volumes

**Merrick Boulevard
Hourly Vehicle Volumes ~ 2016**

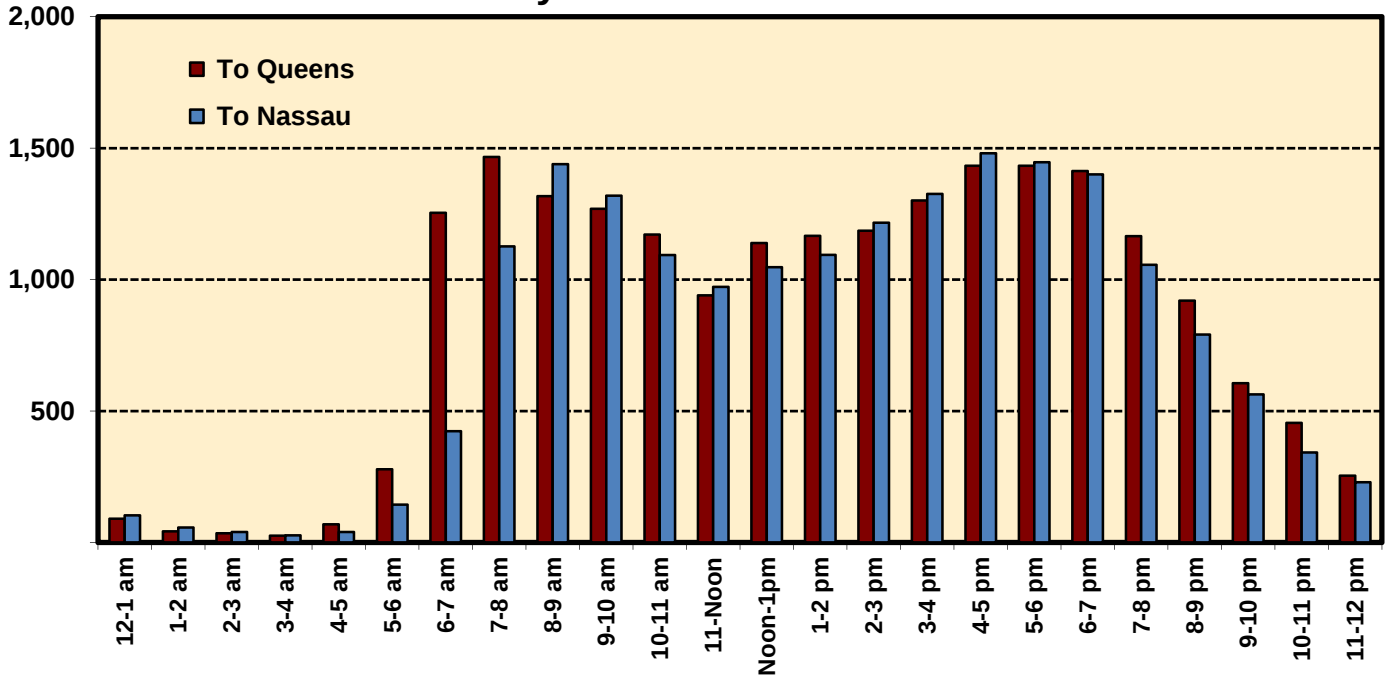


**Merrick Boulevard
Average Daily Traffic Volumes
Total of Both Directions**

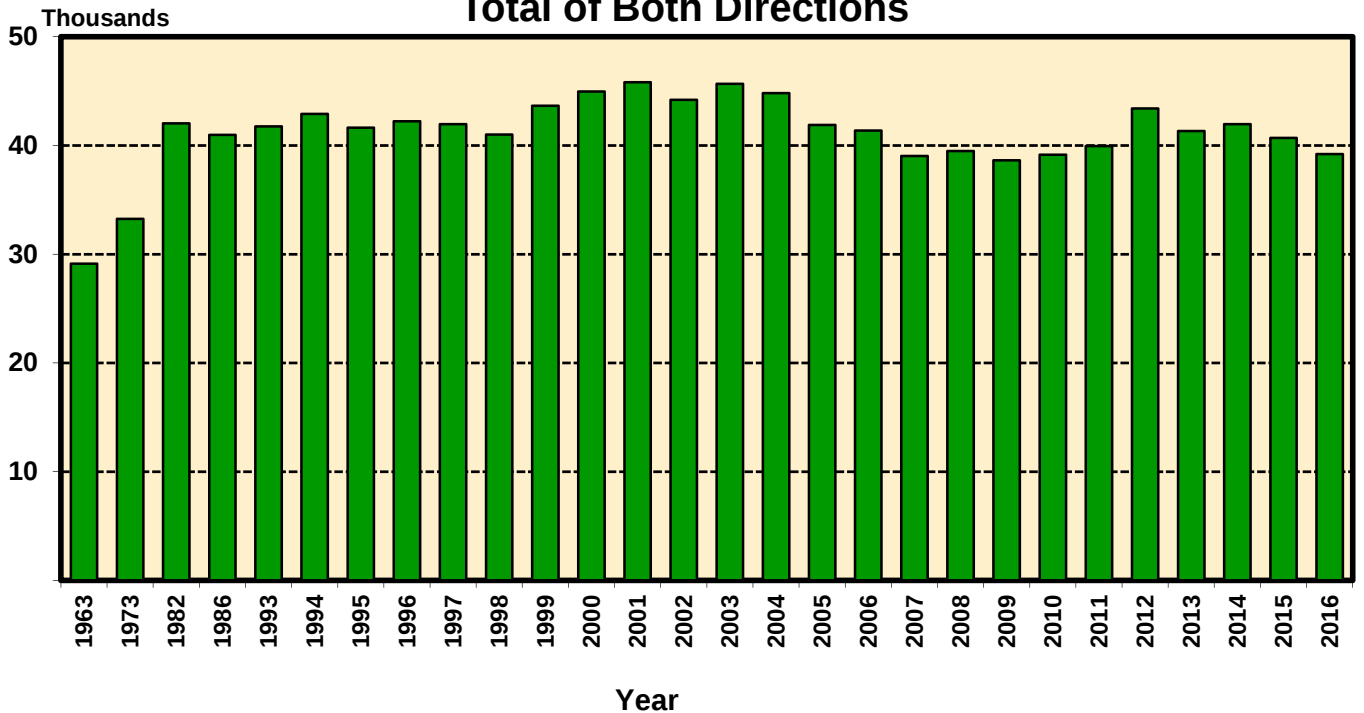


Queens – Nassau Screenline Volumes

Northern Boulevard Hourly Vehicle Volumes ~ 2016

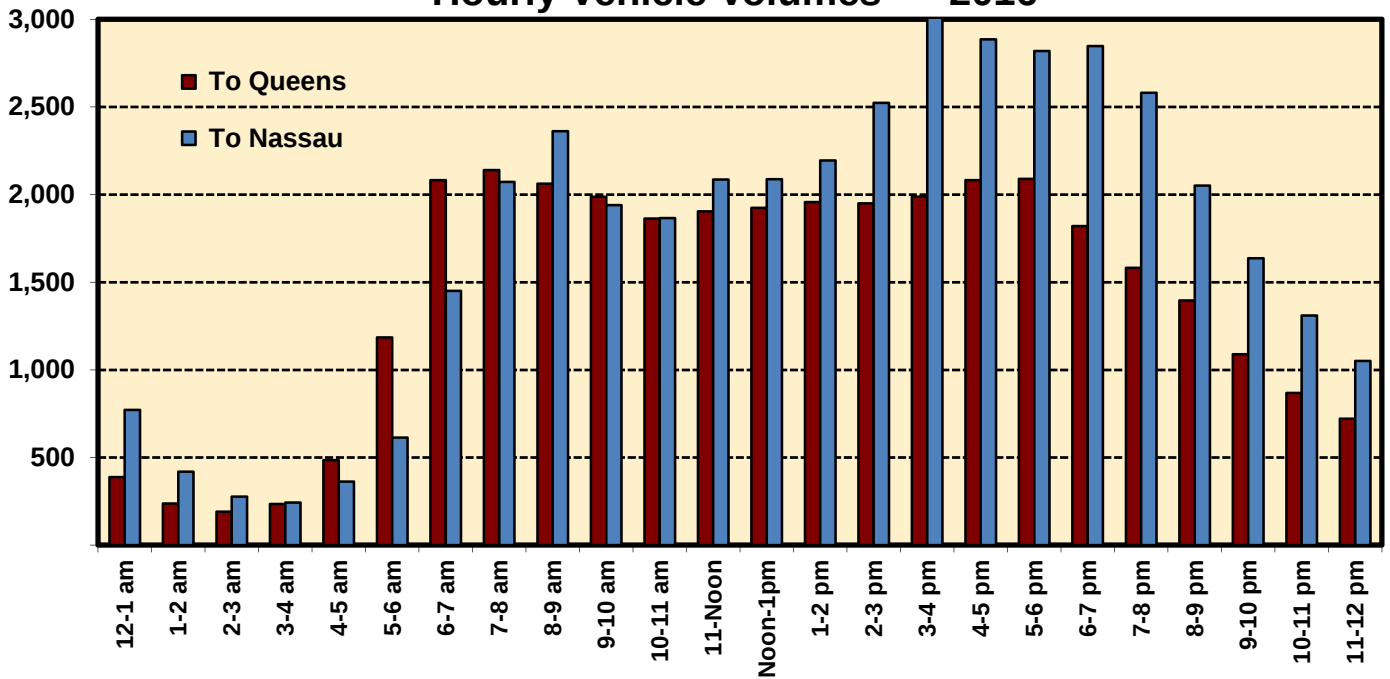


Northern Boulevard Average Daily Traffic Volumes Total of Both Directions

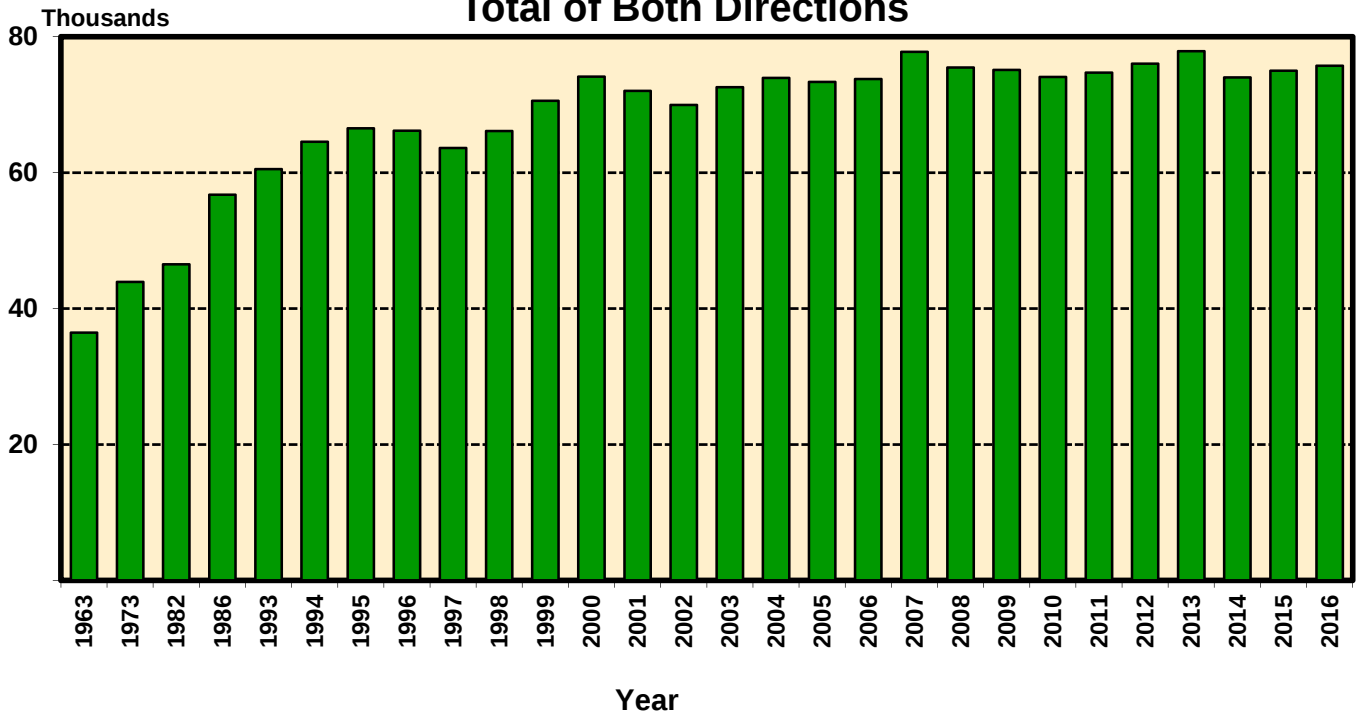


Queens – Nassau Screenline Volumes

Rockaway Boulevard Hourly Vehicle Volumes ~ 2016

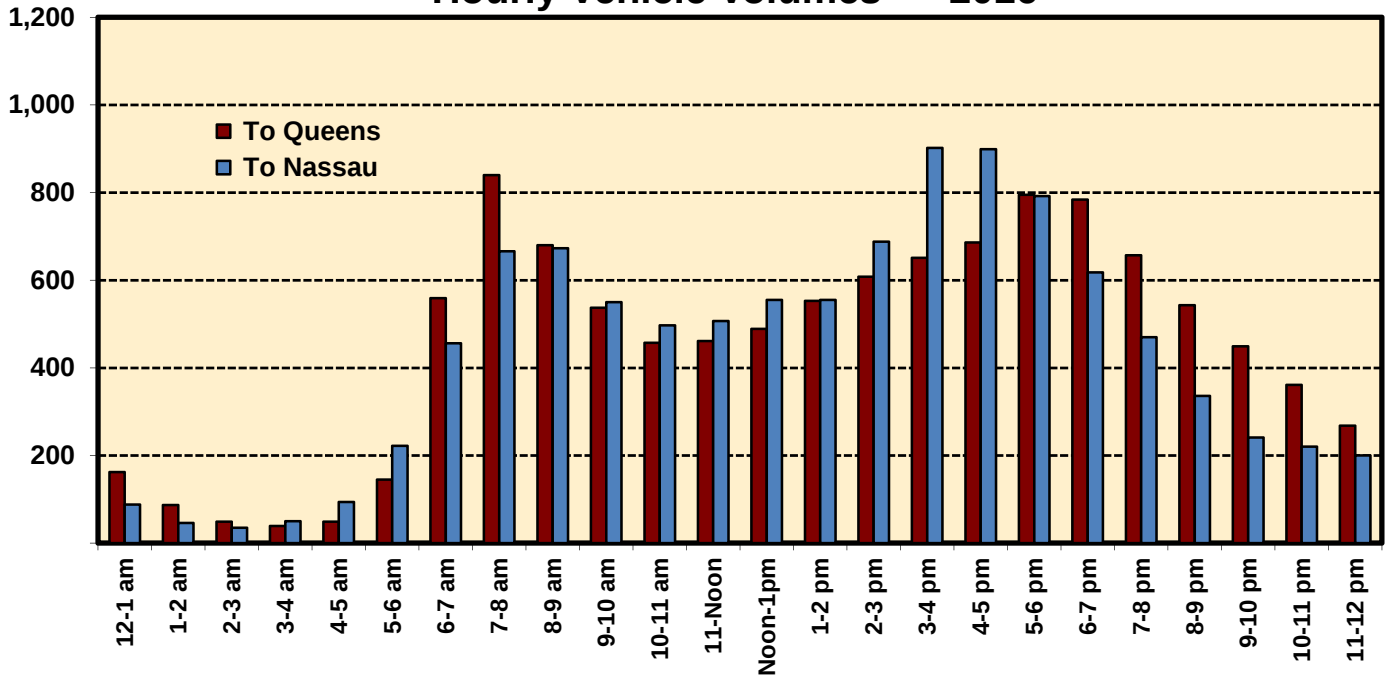


Rockaway Boulevard Average Daily Traffic Volumes Total of Both Directions

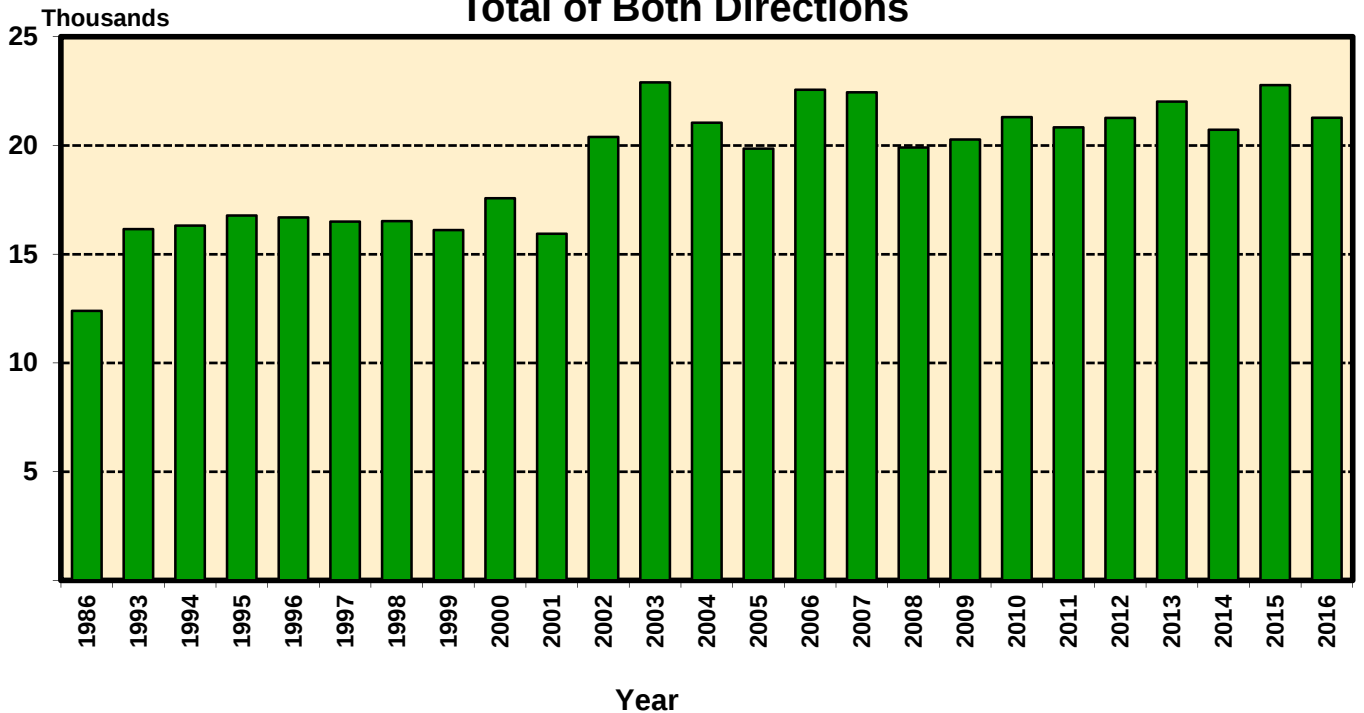


Queens – Nassau Screenline Volumes

Seagirt Boulevard Hourly Vehicle Volumes ~ 2016

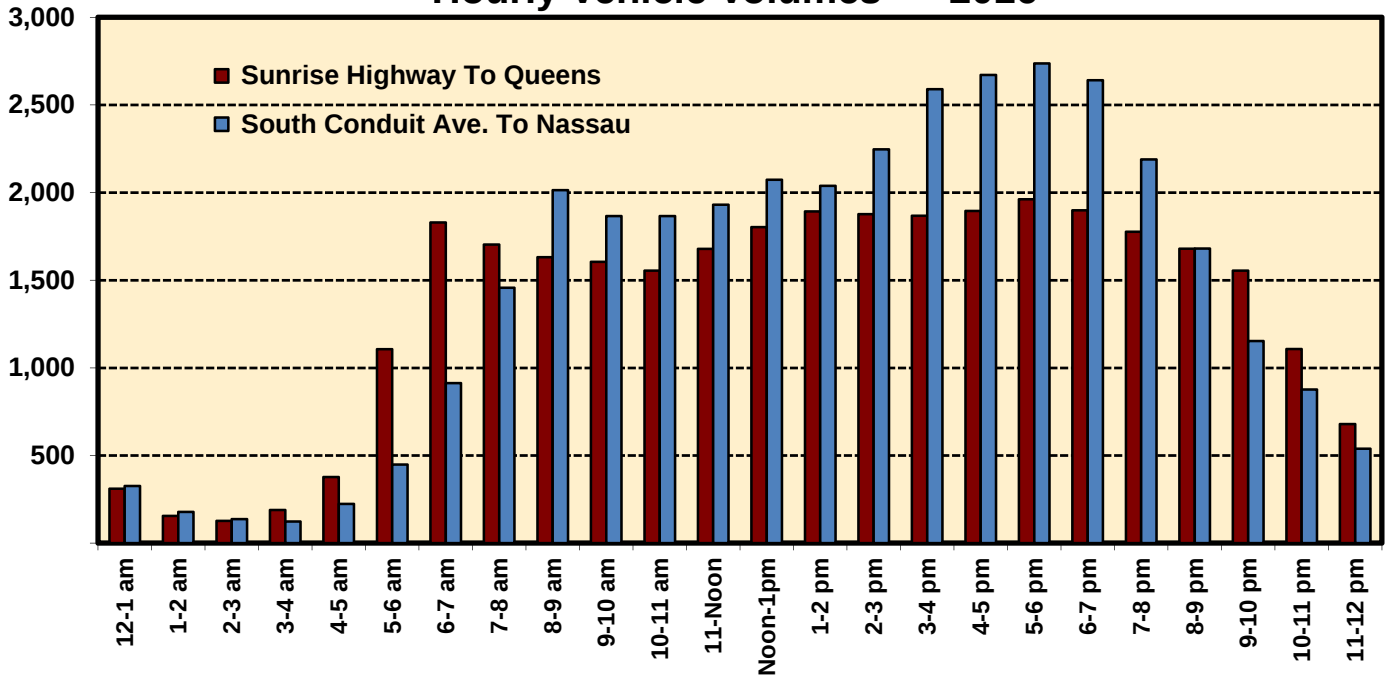


Seagirt Boulevard Average Daily Traffic Volumes Total of Both Directions

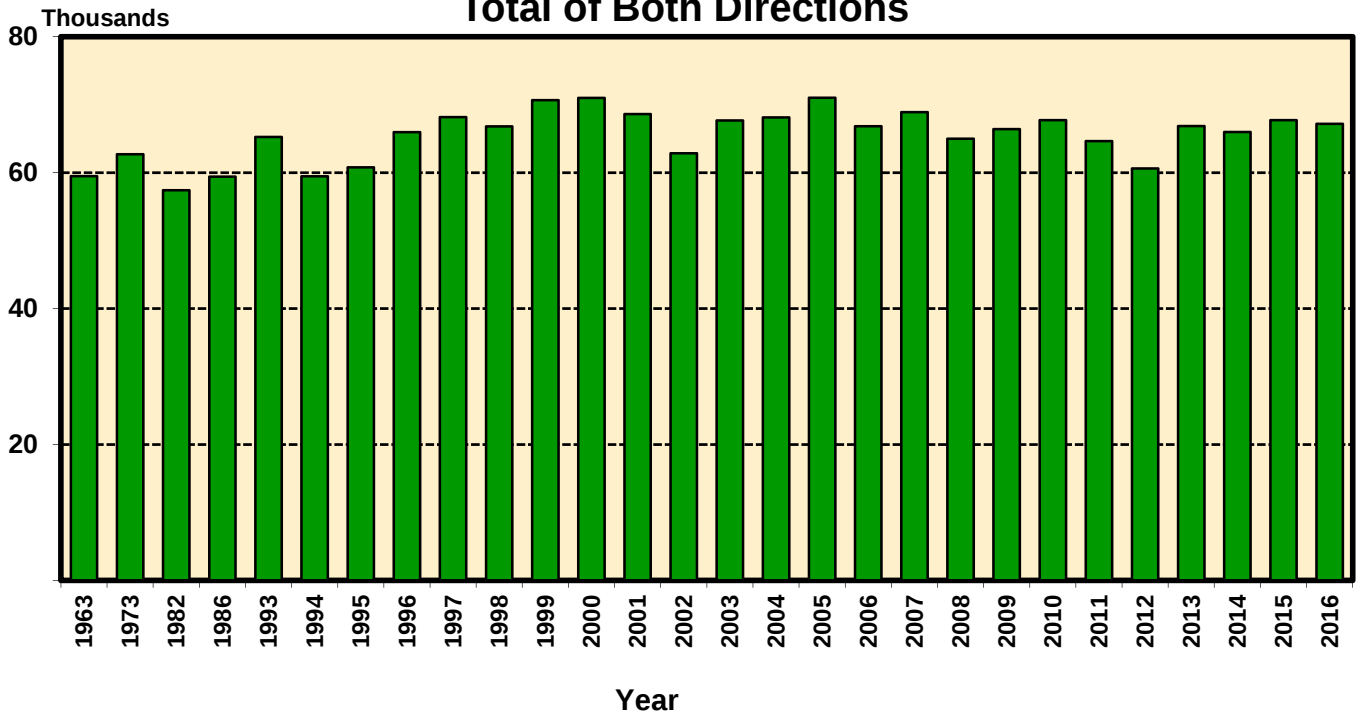


Queens – Nassau Screenline Volumes

Sunrise Highway/South Conduit Ave Hourly Vehicle Volumes ~ 2016

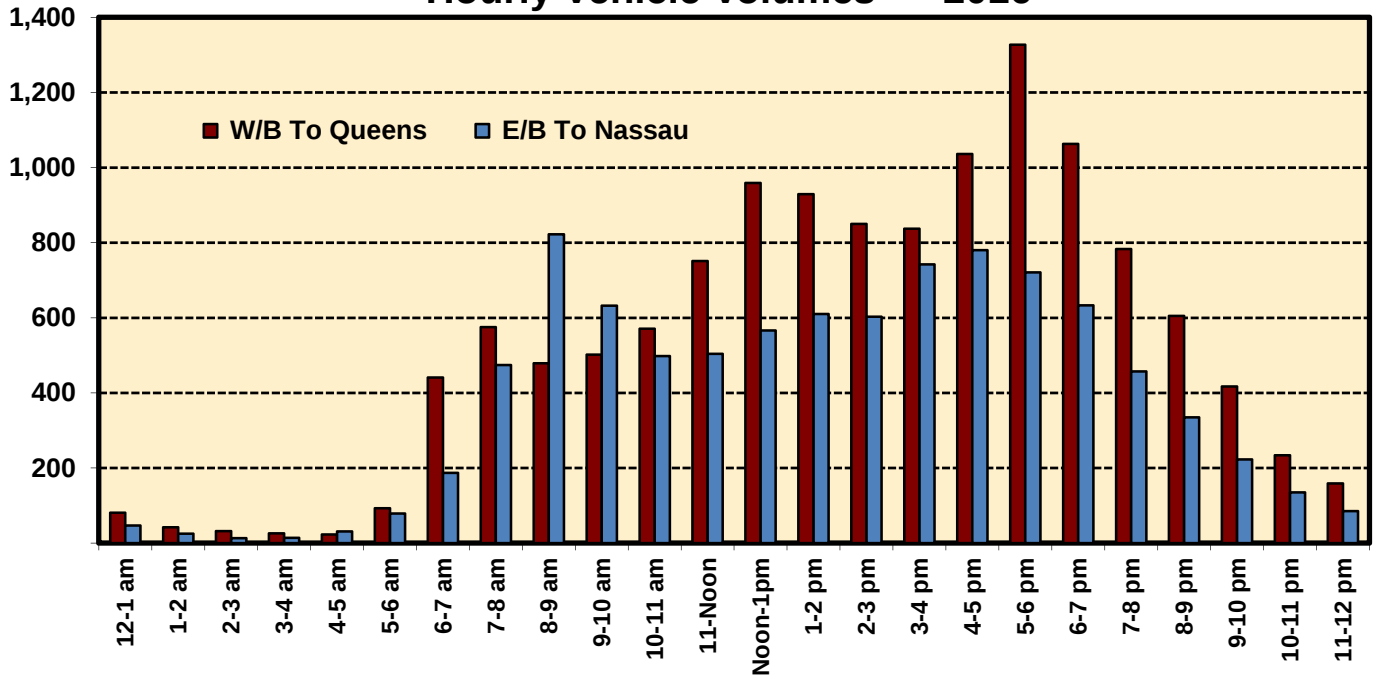


Sunrise Highway/South Conduit Ave. Average Daily Traffic Volumes Total of Both Directions

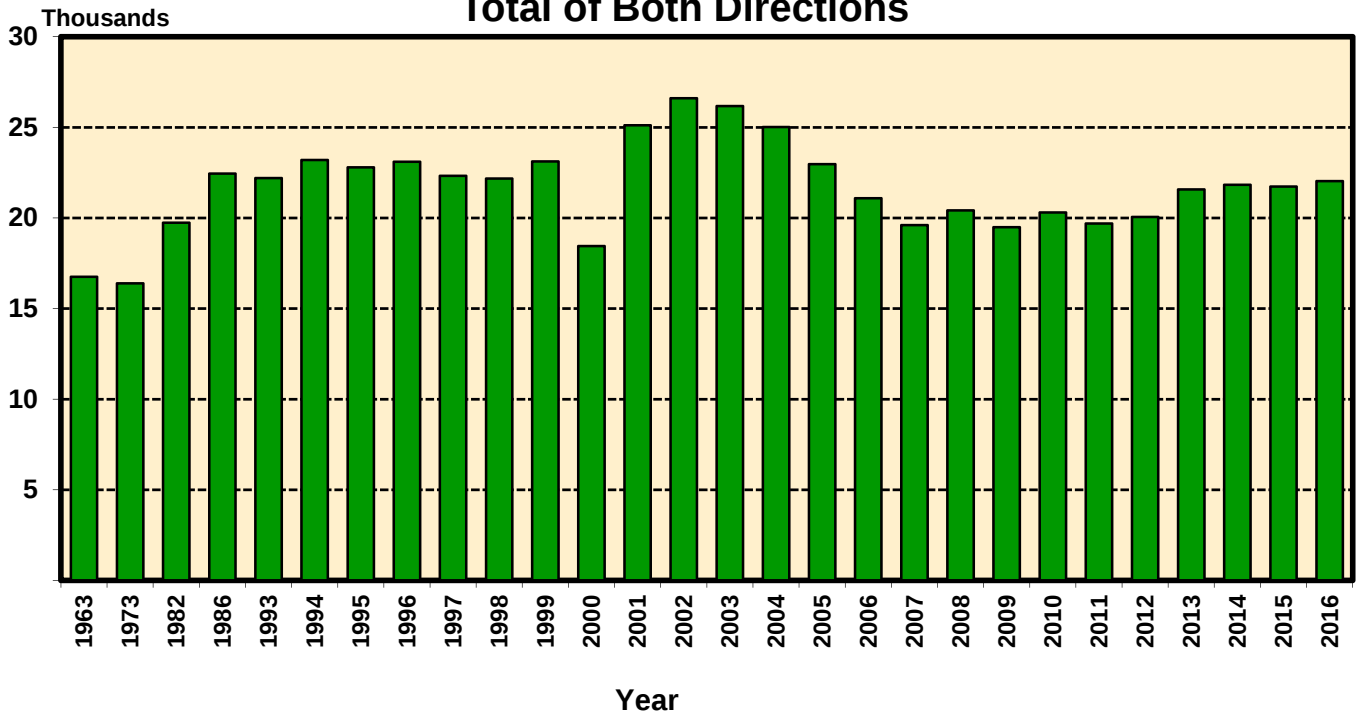


Queens – Nassau Screenline Volumes

Union Turnpike Hourly Vehicle Volumes ~ 2016



Union Turnpike Average Daily Traffic Volumes Total of Both Directions



New York – New Jersey Screenline



Bayonne Bridge

NEW YORK - NEW JERSEY SCREENLINE

Manhattan – New Jersey

In 1963, daily traffic between Manhattan and New Jersey averaged 265,603 vehicles.

- The George Washington Bridge was the most heavily-traveled crossing, serving 127,452 vehicles per day (48.0% of the total).
- The Holland Tunnel accommodated 58,814 daily vehicles.
- The Lincoln Tunnel was used by 79,337 daily vehicles.

1963 – 1973 Manhattan – New Jersey

Between 1963 and 1973, Manhattan - New Jersey traffic volume grew to 397,203 vehicles per day, an increase of 49.5% (131,600 additional daily vehicles).

- George Washington Bridge traffic increased 82.6% (to 232,686 daily vehicles in 1973 from 127,452 in 1963), partly as a result of the opening of the lower level, and the Alexander Hamilton Bridge/Trans-Manhattan Expressway route, which facilitated travel between Bronx/Queens/Long Island/New England and New Jersey via upper Manhattan.
- That increase of 105,234 daily vehicles using the George Washington Bridge accounted for 80.0% of the total 1963-1973 growth in Manhattan - New Jersey screenline traffic.
- Lincoln Tunnel traffic increased 25.8%, to 99,786 daily vehicles from 79,337.
- Holland Tunnel traffic increased 10.1%, to 64,731 vehicles per day from 58,814.

1973 – 1982 Manhattan – New Jersey

Growth slowed considerably between 1973 and 1982, with daily Manhattan - New Jersey volume increasing by 36,541 vehicles (+9.2%) to 433,744.

- George Washington Bridge traffic increased 7.1%, to 249,294 daily vehicles in 1982 from 232,686 in 1973.
- Holland Tunnel traffic increased 14.3%, to 73,997 daily vehicles from 64,731.
- Lincoln Tunnel traffic increased 10.7%, to 110,453 daily vehicles from 99,786.

1982 – 1986 Manhattan – New Jersey

Faster growth resumed between 1982 and 1986, as daily Manhattan - New Jersey traffic reached 485,751, up 12.0% over the four-year period.

- George Washington Bridge traffic increased 14.9%, to 286,398 daily vehicles in 1986 from 249,294 in 1982.
- Holland Tunnel traffic increased 4.5%, to 77,300 daily vehicles from 73,997.
- Lincoln Tunnel traffic increased 10.5%, to 122,053 daily vehicles from 110,453.

1986 – 1996 Manhattan – New Jersey

From 1986 to 1996, Manhattan - New Jersey traffic decreased 1.5%, to 493,194 daily vehicles from 485,751.

- George Washington Bridge traffic decreased 3.8%, to 275,469 daily vehicles in 1996 from 286,398 in 1986.
- The only increase was at the Holland Tunnel, where traffic increased 25.2%, to 96,798 daily vehicles from 77,300.

1996 – 2006 Manhattan – New Jersey

Manhattan - New Jersey traffic increased 9.0%, to 537,748 daily vehicles in 2006 from 493,194 in 1996.

- George Washington Bridge traffic increased 13.3%, to 312,078 daily vehicles in 2006 from 275,469 in 1996.
- Lincoln Tunnel traffic increased 5.2%, to 127,245 daily vehicles from 120,927.
- Holland Tunnel traffic increased 1.7%, to 98,425 daily vehicles from 96,798.

2006 – 2016 Manhattan – New Jersey

During the most recent ten-year period, Manhattan – New Jersey traffic decreased 8.4%, to 492,614 daily vehicles in 2016 from 537,748 in 2006.

- George Washington Bridge traffic decreased 7.1%, to 289,827 daily vehicles from 312,078.
- Lincoln Tunnel traffic decreased 11.2%, to 112,995 daily vehicles from 127,245.
- Holland Tunnel traffic decreased 8.8%, to 89,792 daily vehicles from 98,425.

1963 – 2016 Manhattan – New Jersey

During the 53 years from 1963 to 2016, traffic between Manhattan and New Jersey increased 85.5%, to 492,614 daily vehicles from 265,603.

- George Washington Bridge traffic climbed 127.4%, to 289,827 daily vehicles from 127,452.
- Holland Tunnel traffic increased 52.7%, to 89,792 daily vehicles from 58,814.
- Lincoln Tunnel traffic increased 42.4%, to 112,995 daily vehicles from 79,337.

Staten Island – New Jersey

In 1963, Staten Island-New Jersey screenline traffic was only 27,398 vehicles per day. The highest volume was on the Goethals Bridge, 12,478 vehicles per day.

1963 – 1973 Staten Island – New Jersey

By 1973, motor travel between Staten Island and New Jersey had nearly tripled, to 81,034 daily vehicles in 1973 from 27,398 in 1963.

- Growth was spurred by the opening of the Verrazano-Narrows Bridge between Brooklyn and Staten Island in 1964.
- Much of the new traffic was simply passing through Staten Island.
- Goethals Bridge traffic jumped 356%, to 56,850 daily vehicles in 1973 from 12,478 in 1963.
- Outerbridge Crossing traffic increased 64.8%, to 11,726 daily vehicles from 7,114.
- Bayonne Bridge traffic increased 59.6%, to 12,458 daily vehicles from 7,806.

1973 – 1982 Staten Island – New Jersey

Growth slowed between 1973 and 1982. Nevertheless, Staten Island - New Jersey traffic volume rose to 106,672 daily vehicles, an increase of 31.6% during the nine-year period, the highest rate of any City border screenline.

- Growth was concentrated at the Outerbridge Crossing, where volume nearly quadrupled, to 44,740 daily vehicles in 1982 from 11,726 in 1973. Completion of the West Shore Expressway provided a continuous limited access route between the Outerbridge Crossing and the Verrazano-Narrows Bridge.
- Bayonne Bridge traffic increased 9.3%, to 13,622 daily vehicles from 12,458.
- On the other hand, volume on the Goethals Bridge decreased 15.0%, to 48,310 daily vehicles from 56,850.

1982 – 1986 Staten Island – New Jersey

Renewed growth between 1982 and 1986 boosted daily Staten Island - New Jersey traffic volume to 138,436 daily vehicles, an increase of 29.8% in just four years.

- Growth was fairly evenly distributed among the three facilities.
- Goethals Bridge traffic increased 33.8%, to 64,634 daily vehicles in 1986 from 48,310 in 1982.
- Outerbridge Crossing traffic increased 29.4% to 57,896 daily vehicles from 44,740.
- Bayonne Bridge traffic increased 16.8%, to 15,906 daily vehicles from 13,622.

1986 – 1996 Staten Island – New Jersey

From 1986 to 1996, Staten Island - New Jersey traffic increased by 5.9%, to 146,565 vehicles per day from 138,436.

- All growth occurred at the Outerbridge Crossing, where daily traffic increased 18.4%, to 68,575 daily vehicles in 1996 from 57,896 in 1986.
- Goethals Bridge traffic decreased 1.6%, to 63,601 daily vehicles from 64,634.
- Bayonne Bridge traffic decreased 9.5%, to 14,389 daily vehicles from 15,906.

1996 – 2006 Staten Island – New Jersey

From 1996 to 2006, Staten Island - New Jersey traffic increased 20.0%, to 175,914 daily vehicles from 146,565.

- Bayonne Bridge traffic increased 68.4%, to 24,230 daily vehicles from 14,389.
- Goethals Bridge traffic increased 2.8%, to 65,378 daily vehicles from 63,601.
- Outerbridge Crossing traffic increased 25.9%, to 86,306 daily vehicles from 68,575.

2006 – 2016 Staten Island – New Jersey

During the past ten years, Staten Island - New Jersey traffic decreased 3.9%, to 168,984 daily vehicles from 175,914.

- Bayonne Bridge traffic decreased 62.8%, to 9,025 daily vehicles from 24,230.
- Goethals Bridge traffic increased 26.7%, to 82,852 daily vehicles from 65,378.
- Outerbridge Crossing traffic decreased 10.7%, to 77,107 daily vehicles from 86,306.

1963 – 2016 Staten Island – New Jersey

During the 53 years from 1963 to 2016, daily traffic between Staten Island and New Jersey soared 516.8%, to 168,984 daily vehicles from just 27,398.

- Outerbridge Crossing traffic skyrocketed more than nine fold, to 77,107 vehicles per day in 2016 from 7,114 in 1963.
- Goethals Bridge traffic soared 564.0%, to 82,852 daily vehicles from 12,478.

New York – New Jersey Screenline

2016 Daily Volumes



**New York - New Jersey Screenline
Historical Comparisons
Average Daily Traffic Volumes**

To New York

	1963	1973	1982	1986	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
G Washington Bridge	N/A	114,286	122,932	143,199	132,527	132,086	135,219	140,018	143,487	149,093	151,685	153,461	155,233	150,758	150,233
Holland Tunnel	N/A	32,521	37,009	35,513	44,461	45,482	45,484	46,688	47,692	47,985	49,658	49,486	12,548	45,722	47,727
Lincoln Tunnel	N/A	49,725	56,038	62,209	57,491	58,272	58,826	59,401	59,685	60,647	62,159	62,516	54,608	58,415	62,157
Manhattan Totals	N/A	196,532	215,979	240,921	234,479	235,840	239,529	246,107	250,864	257,725	263,502	265,463	222,389	254,895	260,117
Bayonne Bridge	N/A	6,229	6,811	7,953	8,147	8,283	8,472	8,384	9,268	9,628	9,709	10,309	14,098	11,684	11,627
Goethals Bridge	N/A	28,425	24,155	32,317	32,325	33,416	33,726	34,024	34,884	35,547	35,900	37,919	39,315	40,419	38,828
Outerbridge X'g	N/A	5,863	22,370	28,948	35,129	35,567	34,975	36,295	37,297	38,034	40,944	39,477	41,000	38,407	41,653
Staten Is Totals	N/A	40,517	53,336	69,218	75,601	77,266	77,173	78,703	81,449	83,209	86,553	87,705	94,413	90,510	92,108
Grand Totals	N/A	237,049	269,315	310,139	310,080	313,106	316,702	324,810	332,313	340,934	350,055	353,168	316,802	345,405	352,225

To New York

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
G Washington Bridge	152,418	147,861	151,639	148,567	145,102	145,105	142,321	135,932	137,949	136,744	136,840	139,548	143,145
Holland Tunnel	46,806	46,968	48,161	48,226	46,061	46,696	47,827	45,519	46,524	45,416	43,212	43,049	43,336
Lincoln Tunnel	62,826	61,460	61,812	61,619	56,812	57,507	57,542	54,850	53,731	52,468	53,128	54,262	54,802
Manhattan Totals	262,050	256,289	261,612	258,412	247,975	249,308	247,690	236,301	238,204	234,628	233,180	236,859	241,283
Bayonne Bridge	12,275	11,933	13,290	12,469	11,094	10,985	11,248	10,460	10,672	10,503	8,591	6,032	5,181
Goethals Bridge	37,559	36,905	34,327	38,687	37,979	38,397	39,470	38,676	37,670	38,171	38,060	41,483	43,761
Outerbridge X'g	41,018	41,090	43,723	41,282	39,319	40,079	39,724	38,917	38,662	35,737	37,669	39,281	40,928
Staten Is Totals	90,852	89,928	91,340	92,438	88,392	89,461	90,442	88,053	87,004	84,411	84,320	86,796	89,870
Grand Totals	352,902	346,217	352,952	350,850	336,367	338,769	338,132	324,354	325,208	319,039	317,500	323,655	331,153

* Actual 24 hour westbound volumes from Staten Island to New Jersey not available for 1973, 1982, and 1986; estimated to be the same as eastbound volumes to Staten Island obtained from toll records.

**New York - New Jersey Screenline
Historical Comparisons
Average Daily Traffic Volumes
(continued)**

To New Jersey

	1963	1973	1982	1986	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
G Washington Bridge		118,400	126,362	143,199	128,205	127,777	130,810	135,451	138,806	148,095	165,955	164,157	154,077	160,013	168,796
Holland Tunnel		32,210	36,988	41,787	48,224	49,155	50,826	50,110	53,294	52,887	53,362	51,651	30,829	46,835	53,370
Lincoln Tunnel		50,061	54,415	59,844	62,161	61,027	60,933	61,526	61,824	63,805	66,533	67,194	51,649	71,096	65,166
Manhattan Totals		200,671	217,765	244,830	238,590	237,959	242,569	247,087	253,924	264,787	285,850	283,002	236,555	277,944	287,332
Bayonne Bridge		6,229	6,811	7,953	5,832	5,929	6,064	6,005	6,635	7,218	7,894	8,184	9,533	9,643	8,581
Goethals Bridge		28,425	24,155	32,317	28,099	29,048	29,314	29,577	30,323	31,529	34,963	34,872	38,881	40,965	36,896
Outerbridge X'g		5,863	22,370	28,948	31,243	31,632	31,106	32,280	33,171	34,830	37,480	33,907	34,424	38,022	36,997
Staten Is Totals		40,517	53,336	69,218	65,174	66,609	66,484	67,862	70,129	73,577	80,337	76,963	82,838	88,630	82,474
Grand Totals		241,188	271,101	314,048	303,764	304,568	309,053	314,949	324,053	338,364	366,187	359,965	319,393	366,574	369,806

To New Jersey

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
G Washington Bridge	162,648	156,441	160,439	142,824	147,957	144,589	149,726	143,964	138,699	140,901	143,944	155,572	146,682
Holland Tunnel	49,365	49,992	50,264	52,265	50,996	49,488	46,840	48,041	46,219	44,596	44,020	46,318	46,456
Lincoln Tunnel	62,333	64,995	65,433	60,473	61,341	61,475	62,290	62,803	59,435	59,694	56,668	59,521	58,193
Manhattan Totals	274,346	271,428	276,136	255,562	260,294	255,552	258,856	254,808	244,353	245,191	244,632	261,411	251,331
Bayonne Bridge	10,235	9,822	10,940	8,982	8,964	8,437	8,733	8,205	8,083	8,038	6,575	4,808	3,844
Goethals Bridge	33,973	31,885	31,051	34,312	34,855	32,833	34,016	36,904	35,465	34,815	32,359	37,122	39,091
Outerbridge X'g	39,208	40,018	42,583	34,496	33,565	34,773	34,941	36,374	33,154	31,003	32,364	34,492	36,179
Staten Is Totals	83,416	81,725	84,574	77,790	77,384	76,043	77,690	81,483	76,702	73,856	71,298	76,422	79,114
Grand Totals	357,762	353,153	360,710	333,352	337,678	331,595	336,546	336,291	321,055	319,047	315,930	337,833	330,445

* Actual 24 hour westbound volumes from Staten Island to New Jersey not available for 1973, 1982, and 1986; estimated to be the same as eastbound volumes to Staten Island obtained from toll records.

**New York - New Jersey Screenline
Historical Comparisons
Average Daily Traffic Volumes
(continued)**

Both Directions

	1963	1973	1982	1986	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
G Washington Bridge	127,452	232,686	249,294	286,398	260,732	259,863	266,029	275,469	282,293	297,188	317,640	317,618	309,310	310,771	319,029
Holland Tunnel	58,814	64,731	73,997	77,300	92,685	94,637	96,310	96,798	100,986	100,872	103,020	101,137	43,377	92,557	101,097
Lincoln Tunnel	79,337	99,786	110,453	122,053	119,652	119,299	119,759	120,927	121,509	124,452	128,692	129,710	106,257	129,511	127,323
Manhattan Totals	265,603	397,203	433,744	485,751	473,069	473,799	482,098	493,194	504,788	522,512	549,352	548,465	458,944	532,839	547,449
Bayonne Bridge	7,806	12,458	13,622	15,906	13,979	14,212	14,536	14,389	15,903	16,846	17,603	18,493	23,631	21,327	20,208
Goethals Bridge	12,478	56,850	48,310	64,634	60,424	62,464	63,040	63,601	65,207	67,076	70,863	72,791	78,196	81,384	75,724
Outerbridge X'g	7,114	11,726	44,740	57,896	66,372	67,199	66,081	68,575	70,468	72,864	78,424	73,384	75,424	76,429	78,650
Staten Is Totals	27,398	81,034	106,672	138,436	140,775	143,875	143,657	146,565	151,578	156,786	166,890	164,668	177,251	179,140	174,582
Grand Totals	293,001	478,237	540,416	624,187	613,844	617,674	625,755	639,759	656,366	679,298	716,242	713,133	636,195	711,979	722,031

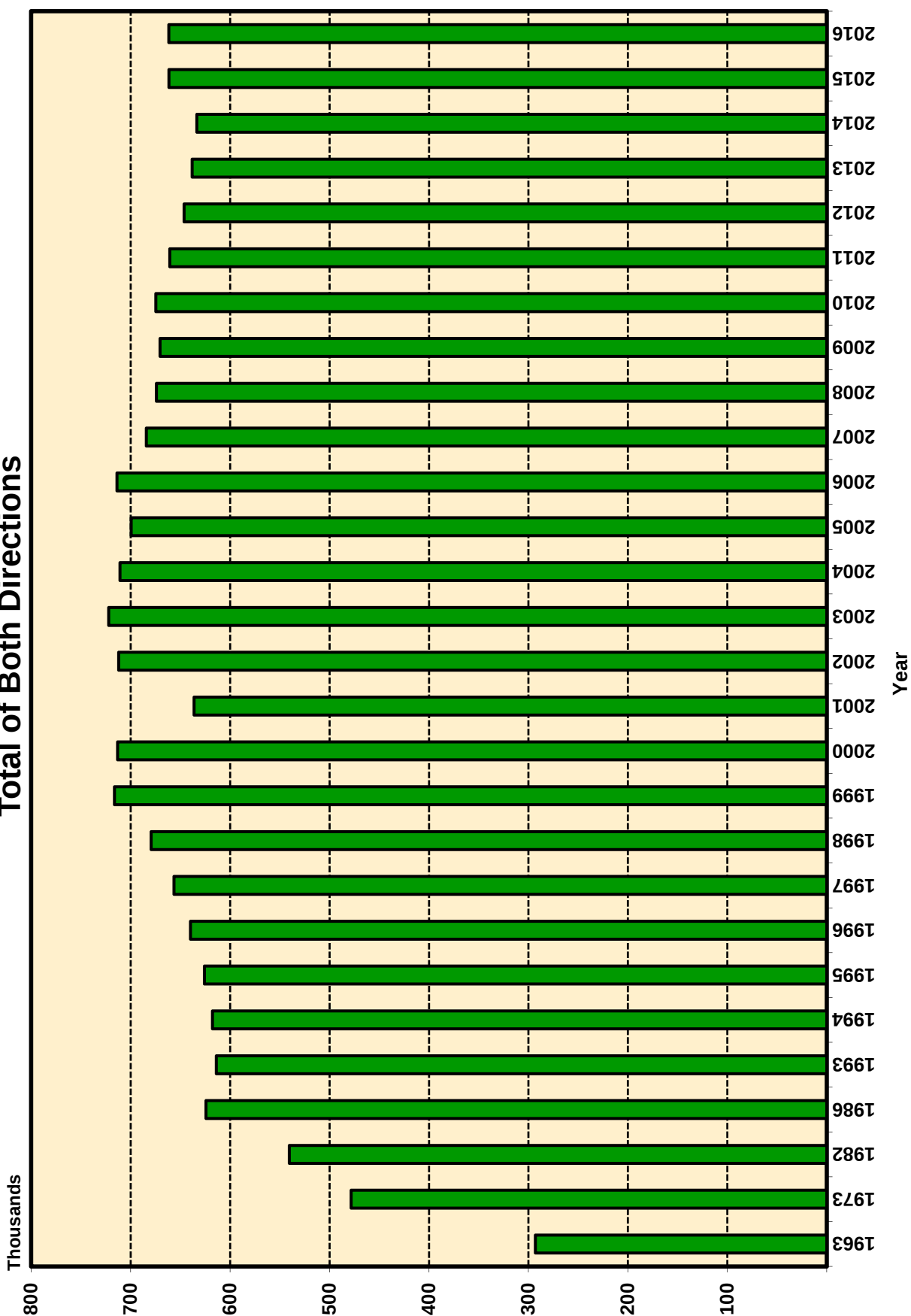
Both Directions

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
G Washington Bridge	315,066	304,302	312,078	291,391	293,059	289,694	292,047	279,896	276,648	277,645	280,784	295,120	289,827
Holland Tunnel	96,171	96,960	98,425	100,491	97,057	96,184	94,667	93,560	92,743	90,012	87,232	89,367	89,792
Lincoln Tunnel	125,159	126,455	127,245	122,092	118,153	118,982	119,832	117,653	113,166	112,162	109,796	113,783	112,995
Manhattan Totals	536,396	527,717	537,748	513,974	508,269	504,860	506,546	491,109	482,557	479,819	477,812	498,270	492,614
Bayonne Bridge	22,510	21,755	24,230	21,451	20,058	19,422	19,981	18,665	18,755	18,541	15,166	10,840	9,025
Goethals Bridge	71,532	68,790	65,378	72,999	72,834	71,230	73,486	75,580	73,135	72,986	70,419	78,605	82,852
Outerbridge X'g	80,226	81,108	86,306	75,778	72,884	74,852	74,665	75,291	71,816	66,740	70,033	73,773	77,107
Staten Is Totals	174,268	171,653	175,914	170,228	165,776	165,504	168,132	169,536	163,706	158,267	155,618	163,218	168,984
Grand Totals	710,664	699,370	713,662	684,202	674,045	670,364	674,678	660,645	646,263	638,086	633,430	661,488	661,598

* Actual 24 hour westbound volumes from Staten Island to New Jersey not available for 1973, 1982, and 1986; estimated to be the same as eastbound volumes to Staten Island obtained from toll records.

New York – New Jersey Screenline Volumes

Historical Comparisons
Average Daily Traffic Volumes
Total of Both Directions



2016 Screenline Volumes New York - New Jersey

	George Washington Bridge		Holland Tunnel		Lincoln Tunnel		Manhattan Totals	
	* E/B	W/B	* E/B	W/B	* E/B	W/B	To Manhattan	To N.J.
Mid-1am	1,926	2,840	682	876	900	1,694	3,508	5,410
1-2am	1,359	1,792	483	925	608	971	2,450	3,688
2-3am	1,144	1,293	347	732	477	612	1,968	2,637
3-4am	1,358	1,236	394	573	533	398	2,285	2,207
4-5am	2,386	1,622	750	811	982	552	4,118	2,985
5-6am	6,988	3,377	2,308	1,578	3,272	808	12,568	5,763
6-7am	11,474	5,382	2,739	2,113	4,860	1,427	19,073	8,922
7-8am	9,833	6,578	2,706	2,477	4,145	1,928	16,684	10,983
8-9am	8,156	7,287	2,641	2,369	3,994	1,876	14,791	11,532
9-10am	8,242	6,523	2,569	2,063	3,778	1,797	14,589	10,383
10-11am	8,055	6,177	2,386	2,154	3,369	1,855	13,810	10,186
11-Noon	7,294	6,330	2,072	2,131	2,897	2,241	12,263	10,702
Noon-1	6,888	6,803	1,908	2,057	2,540	2,400	11,336	11,260
1-2pm	6,867	7,197	1,853	2,397	2,445	2,877	11,165	12,471
2-3pm	7,103	8,387	1,962	2,475	2,559	3,348	11,624	14,210
3-4pm	7,509	10,266	2,122	2,297	2,364	3,923	11,995	16,486
4-5pm	7,522	9,247	2,465	2,297	2,058	4,795	12,045	16,339
5-6pm	7,756	10,864	2,587	1,995	1,738	4,676	12,081	17,535
6-7pm	7,773	10,224	2,536	2,171	2,040	4,720	12,349	17,115
7-8pm	6,523	8,553	2,091	2,351	2,108	4,243	10,722	15,147
8-9pm	5,308	7,341	1,658	2,521	1,898	3,160	8,864	13,022
9-10pm	4,680	6,630	1,556	2,510	1,964	2,925	8,200	12,065
10-11pm	4,041	6,075	1,453	2,398	1,853	2,813	7,347	11,286
11-Mid	2,960	4,658	1,068	2,185	1,420	2,154	5,448	8,997
24 hr Total	143,145	146,682	43,336	46,456	54,802	58,193	241,283	251,331
6-10am	37,705	25,770	10,655	9,022	16,777	7,028	65,137	41,820
10am-1pm	22,237	19,310	6,366	6,342	8,806	6,496	37,409	32,148
1-3pm	13,970	15,584	3,815	4,872	5,004	6,225	22,789	26,681
3-7pm	30,560	40,601	9,710	8,760	8,200	18,114	48,470	67,475
6am-7pm	104,472	101,265	30,546	28,996	38,787	37,863	173,805	168,124

* To Manhattan

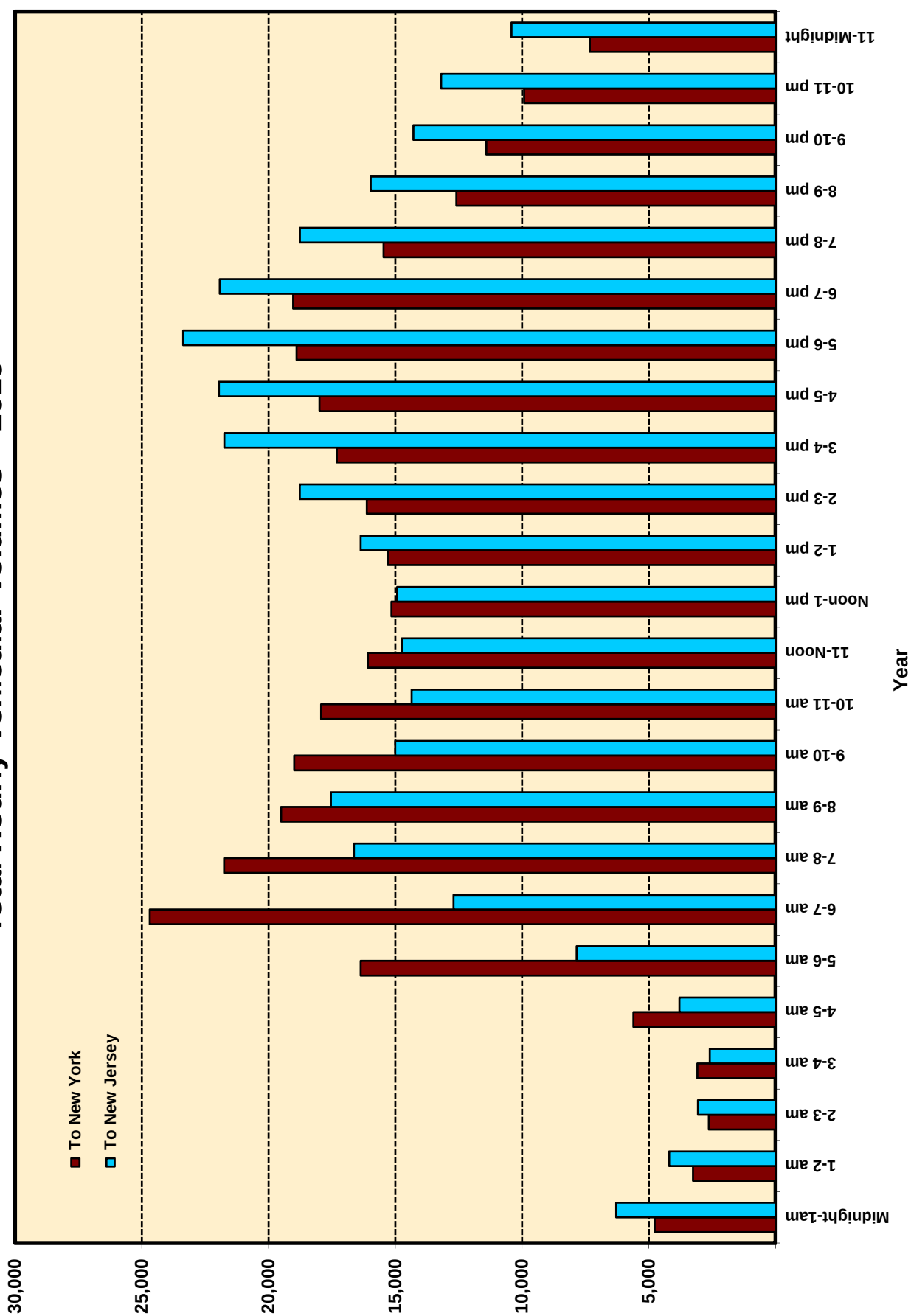
2016 Screenline Volumes New York - New Jersey (cont'd)

	Bayonne Bridge		Goethals Bridge		Outerbridge Crossing		Staten Island Totals		Grand Totals	
	<i>* S/B</i>	<i>N/B</i>	<i>* E/B</i>	<i>W/B</i>	<i>* E/B</i>	<i>W/B</i>	<i>To Staten Is.</i>	<i>To N.J.</i>	<i>To N.Y.</i>	<i>To N.J.</i>
Mid-1am	10	0	736	440	516	439	1,262	879	4,770	6,289
1-2am	6	2	490	275	310	235	806	512	3,256	4,200
2-3am	7	2	396	221	263	202	666	425	2,634	3,062
3-4am	7	0	432	231	360	158	799	389	3,084	2,596
4-5am	47	55	618	474	827	279	1,492	808	5,610	3,793
5-6am	176	242	1,523	1,128	2,100	713	3,799	2,083	16,367	7,846
6-7am	339	562	2,440	1,825	2,831	1,395	5,610	3,782	24,683	12,704
7-8am	416	841	2,003	2,559	2,649	2,249	5,068	5,649	21,752	16,632
8-9am	425	689	1,980	2,875	2,308	2,442	4,713	6,006	19,504	17,538
9-10am	33	34	2,143	2,504	2,221	2,083	4,397	4,621	18,986	15,004
10-11am	16	5	2,148	2,326	1,950	1,839	4,114	4,170	17,924	14,356
11-Noon	19	6	1,995	2,137	1,804	1,895	3,818	4,038	16,081	14,740
Noon-1	13	7	2,015	1,946	1,789	1,717	3,817	3,670	15,153	14,930
1-2pm	19	1	2,215	2,130	1,890	1,766	4,124	3,897	15,289	16,368
2-3pm	107	54	2,408	2,339	1,987	2,166	4,502	4,559	16,126	18,769
3-4pm	643	341	2,511	2,343	2,160	2,575	5,314	5,259	17,309	21,745
4-5pm	743	344	2,806	2,693	2,399	2,583	5,948	5,620	17,993	21,959
5-6pm	1,031	321	3,012	2,851	2,770	2,661	6,813	5,833	18,894	23,368
6-7pm	1,017	292	3,055	2,176	2,610	2,340	6,682	4,808	19,031	21,923
7-8pm	88	37	2,630	1,616	2,022	1,962	4,740	3,615	15,462	18,762
8-9pm	18	3	1,988	1,421	1,720	1,523	3,726	2,947	12,590	15,969
9-10pm	1	1	1,713	1,008	1,497	1,213	3,211	2,222	11,411	14,287
10-11pm	0	0	1,432	920	1,139	984	2,571	1,904	9,918	13,190
11-Mid	0	5	1,072	653	806	760	1,878	1,418	7,326	10,415
24 hr Total	5,181	3,844	43,761	39,091	40,928	36,179	89,870	79,114	331,153	330,445
6-10am	1,213	2,126	8,566	9,763	10,009	8,169	19,788	20,058	84,925	61,878
10am-1pm	48	18	6,158	6,409	5,543	5,451	11,749	11,878	49,158	44,026
1-3pm	126	55	4,623	4,469	3,877	3,932	8,626	8,456	31,415	35,137
3-7pm	3,434	1,298	11,384	10,063	9,939	10,159	24,757	21,520	73,227	88,995
6am-7pm	4,821	3,497	30,731	30,704	29,368	27,711	64,920	61,912	238,725	230,036

* To Staten Island

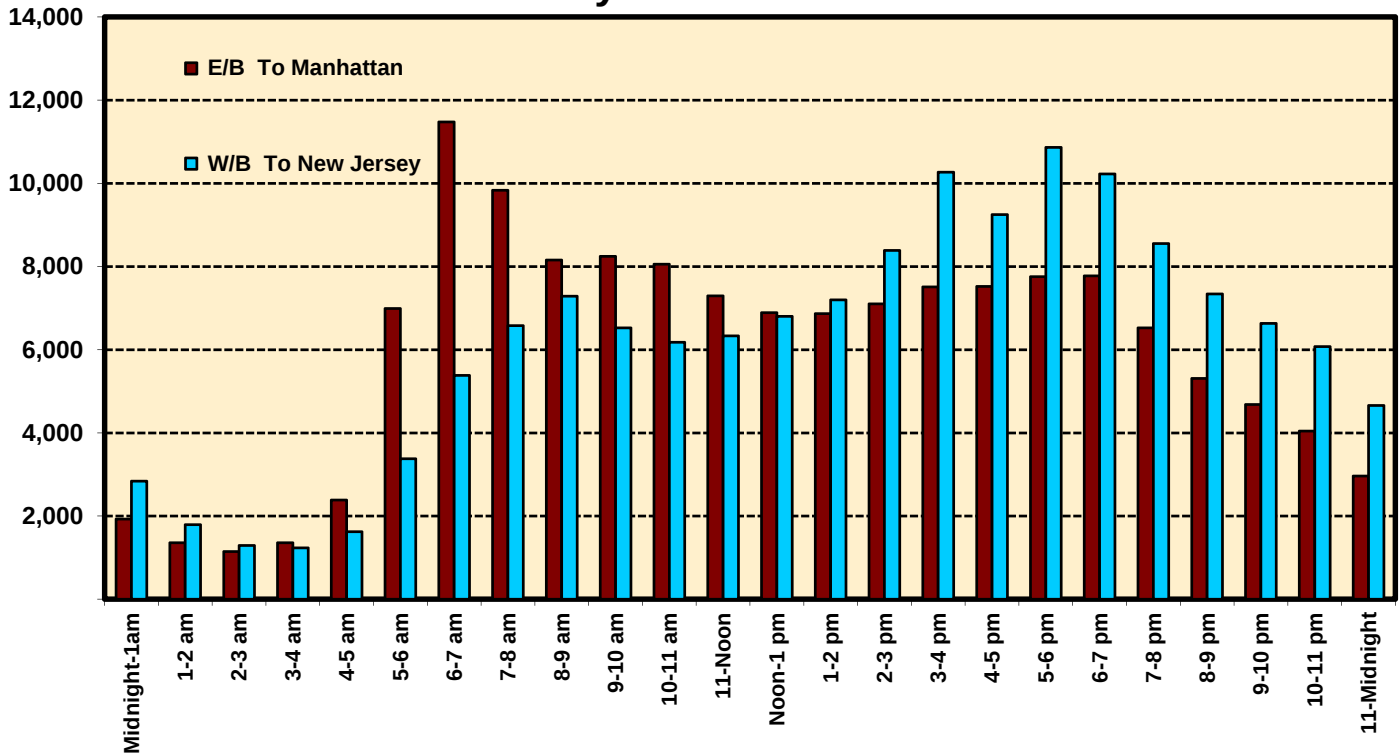
New York – New Jersey Screenline Volumes

Total Hourly Vehicular Volumes ~ 2016

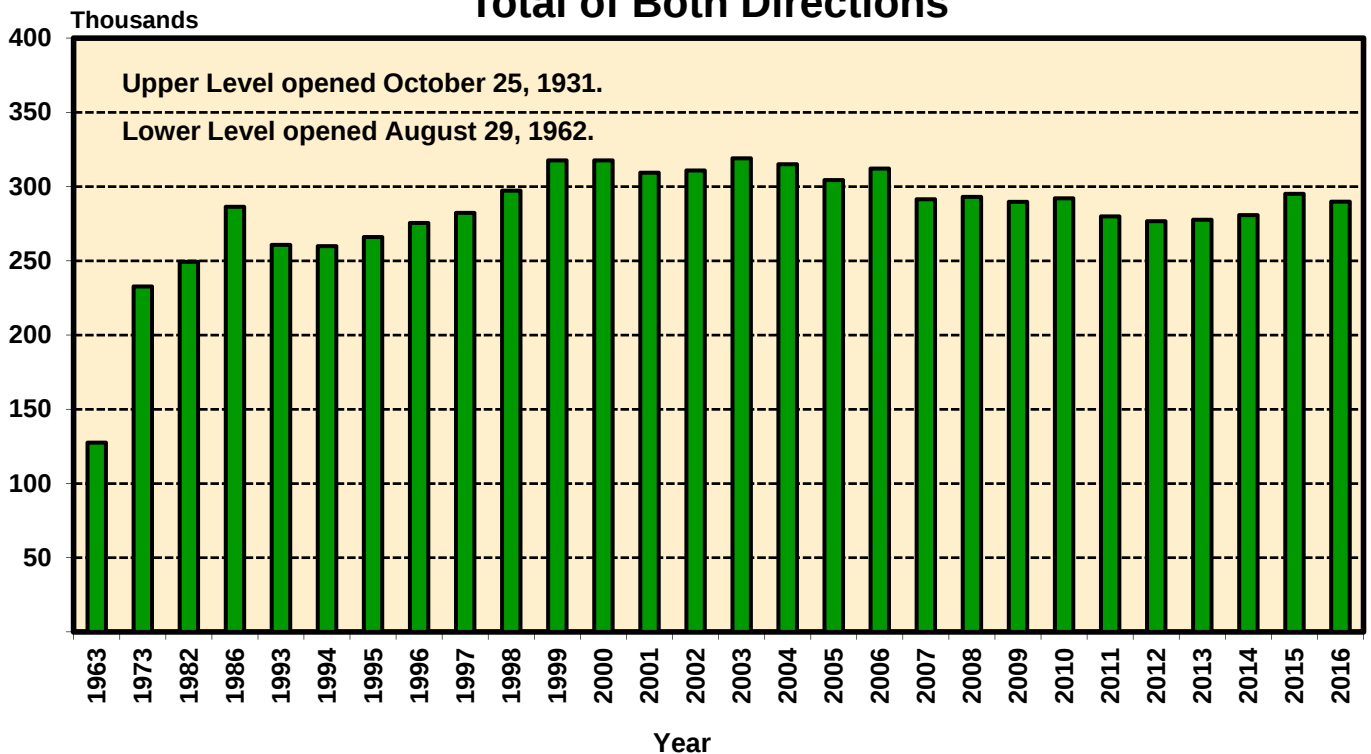


New York – New Jersey Screenline Volumes

George Washington Bridge ~ 2016 Hourly Vehicular Volumes

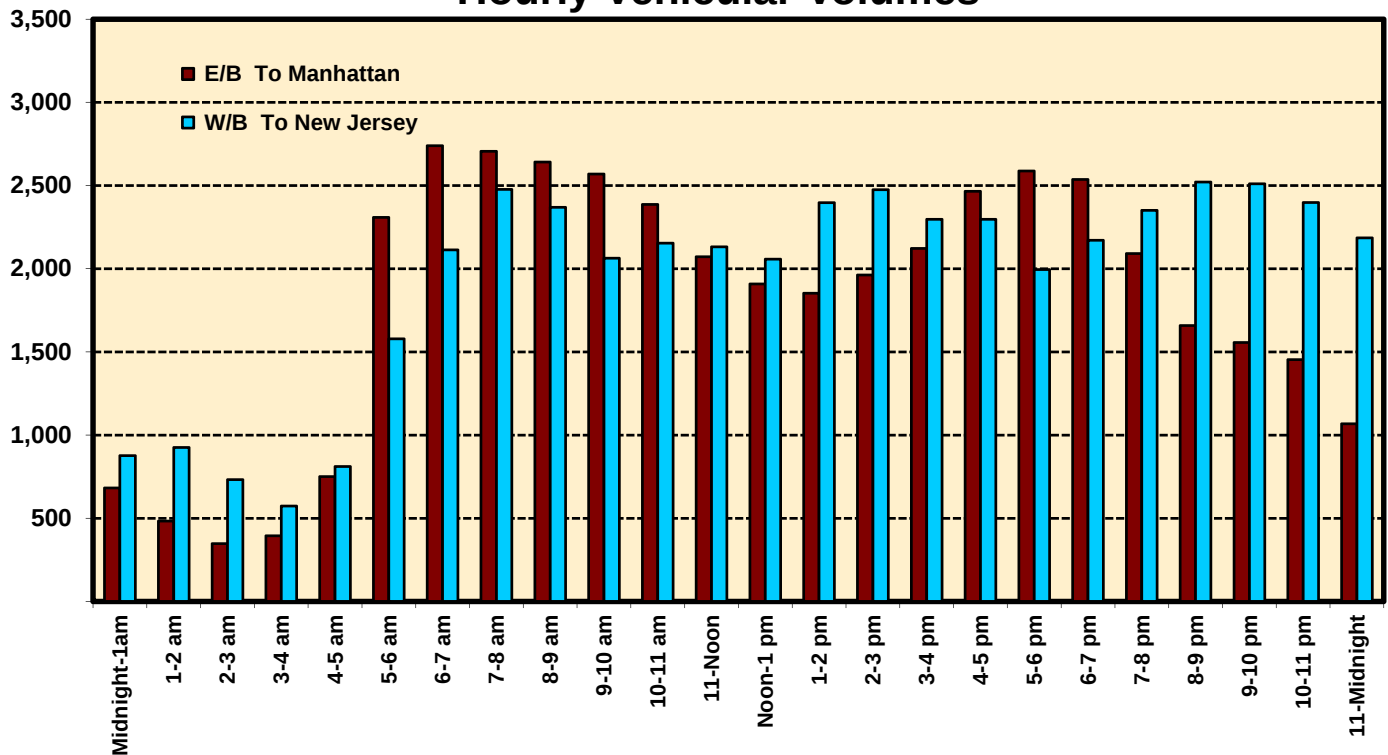


George Washington Bridge Average Daily Traffic Volumes Total of Both Directions

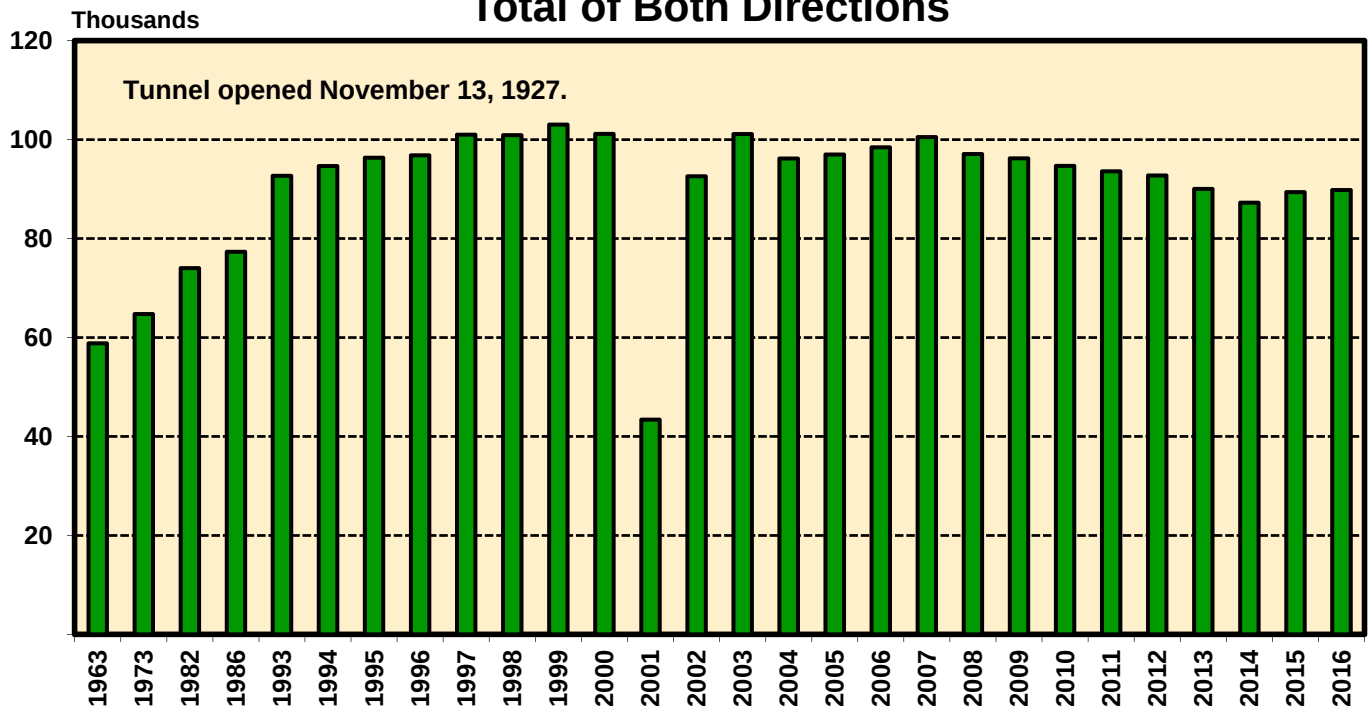


New York – New Jersey Screenline Volumes

Holland Tunnel ~ 2016 Hourly Vehicular Volumes



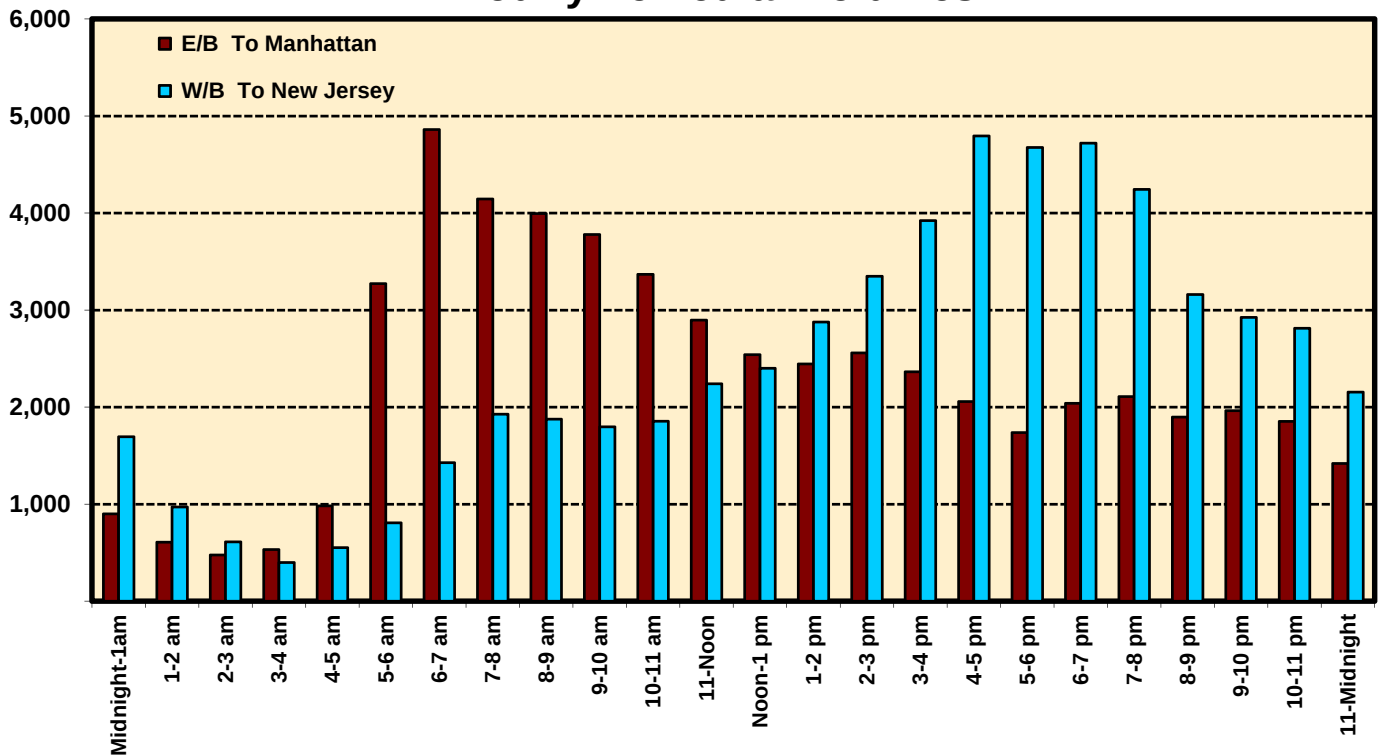
Holland Tunnel Average Daily Traffic Volumes Total of Both Directions



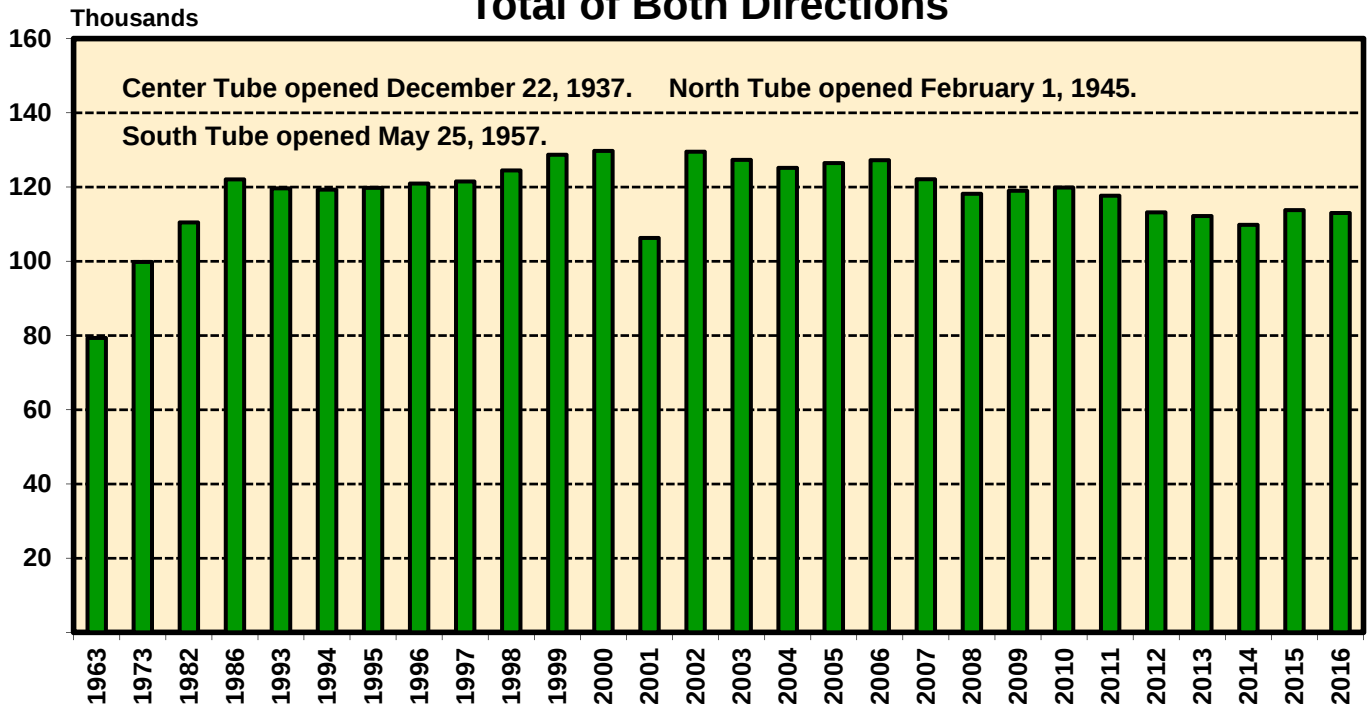
Following 9/11/2001, Holland Tunnel daily traffic volume fell 57% compared to fall 2000. Inbound volume was down 75%; outbound down 40%.

New York – New Jersey Screenline Volumes

Lincoln Tunnel ~ 2016 Hourly Vehicular Volumes



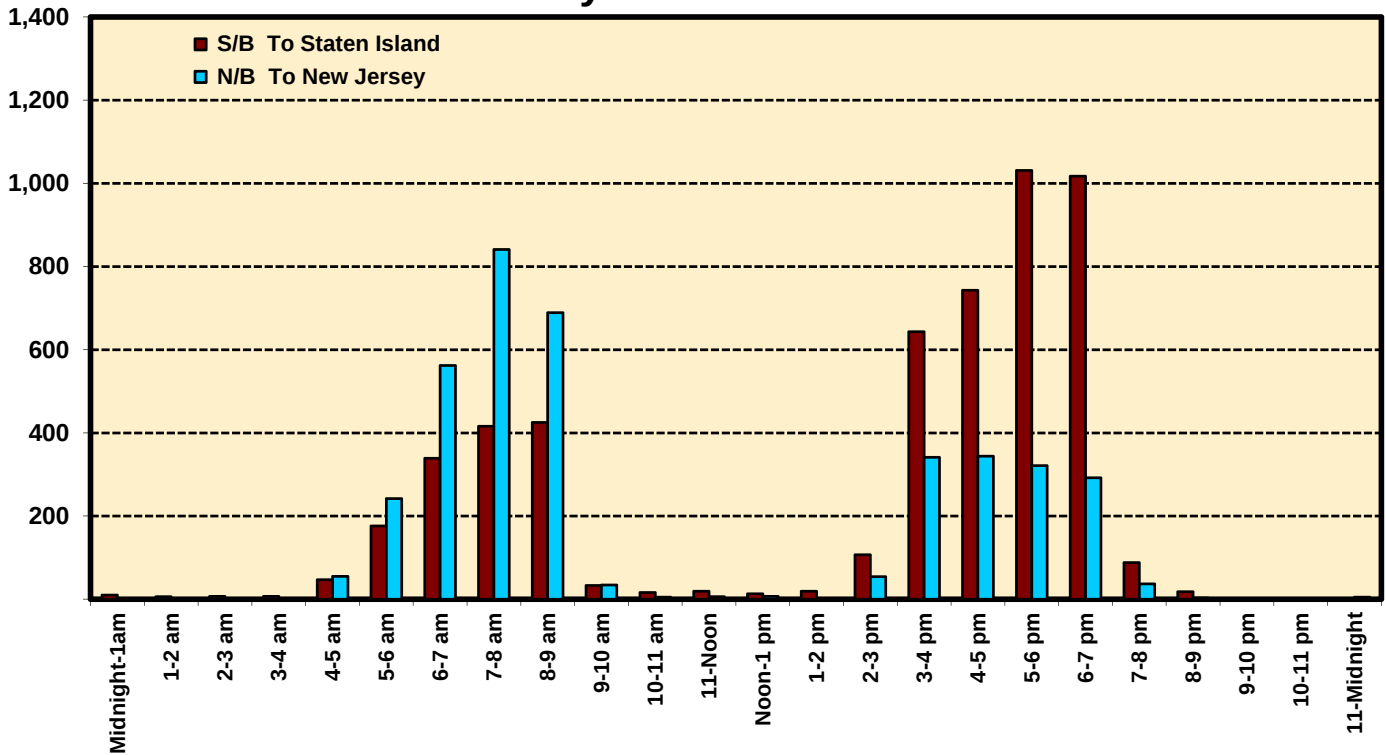
Lincoln Tunnel Average Daily Traffic Volumes Total of Both Directions



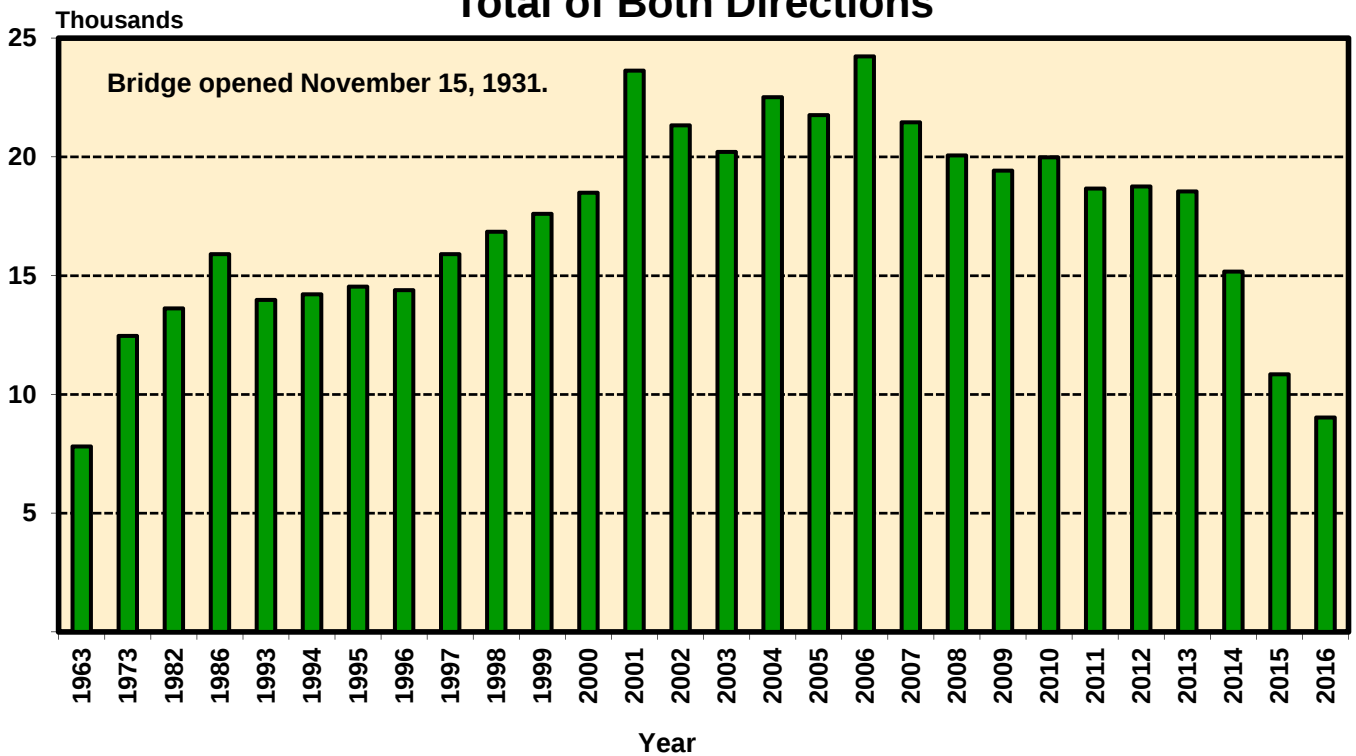
Following 9/11/2001, Lincoln Tunnel daily traffic volume fell 18% compared to fall 2000. Inbound volume was down 13%; outbound down 23%.

New York – New Jersey Screenline Volumes

Bayonne Bridge ~ 2016 Hourly Vehicular Volumes

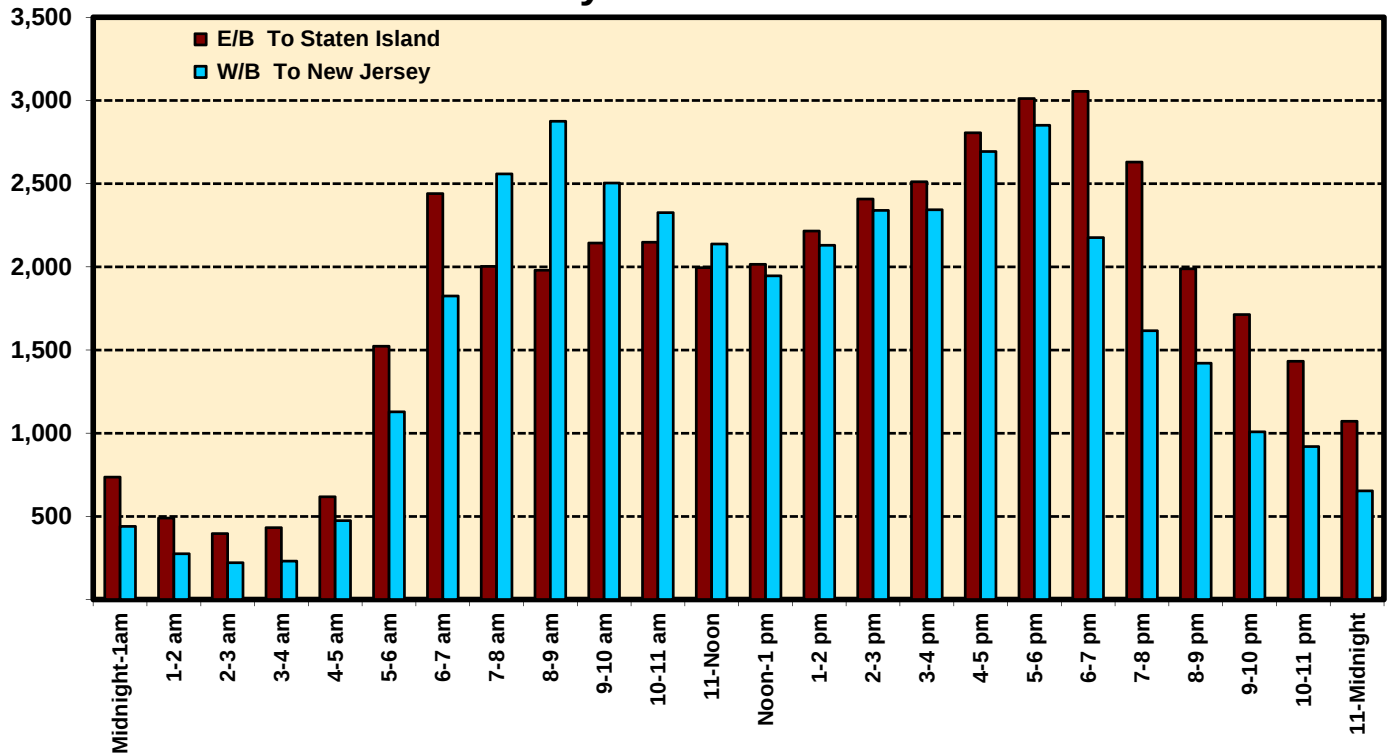


Bayonne Bridge Average Daily Traffic Volumes Total of Both Directions

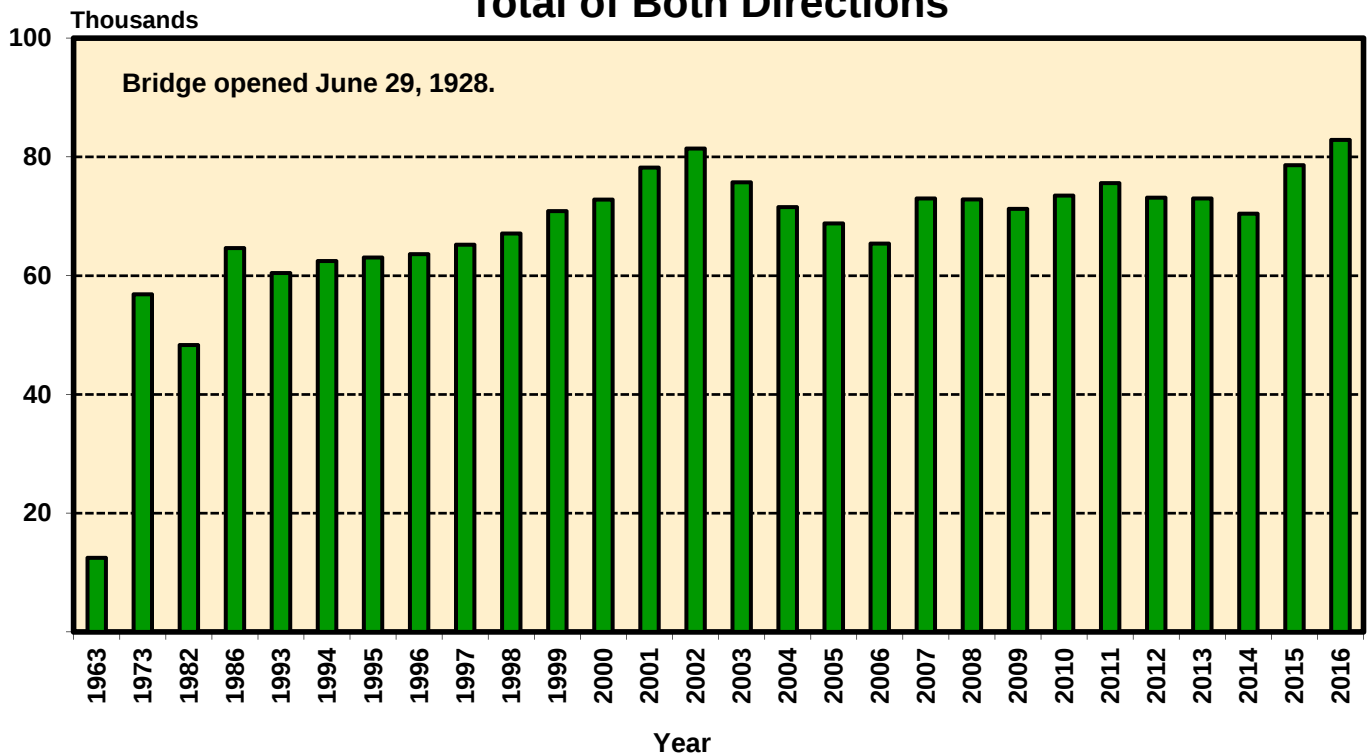


New York – New Jersey Screenline Volumes

Goethals Bridge ~ 2016 Hourly Vehicular Volumes

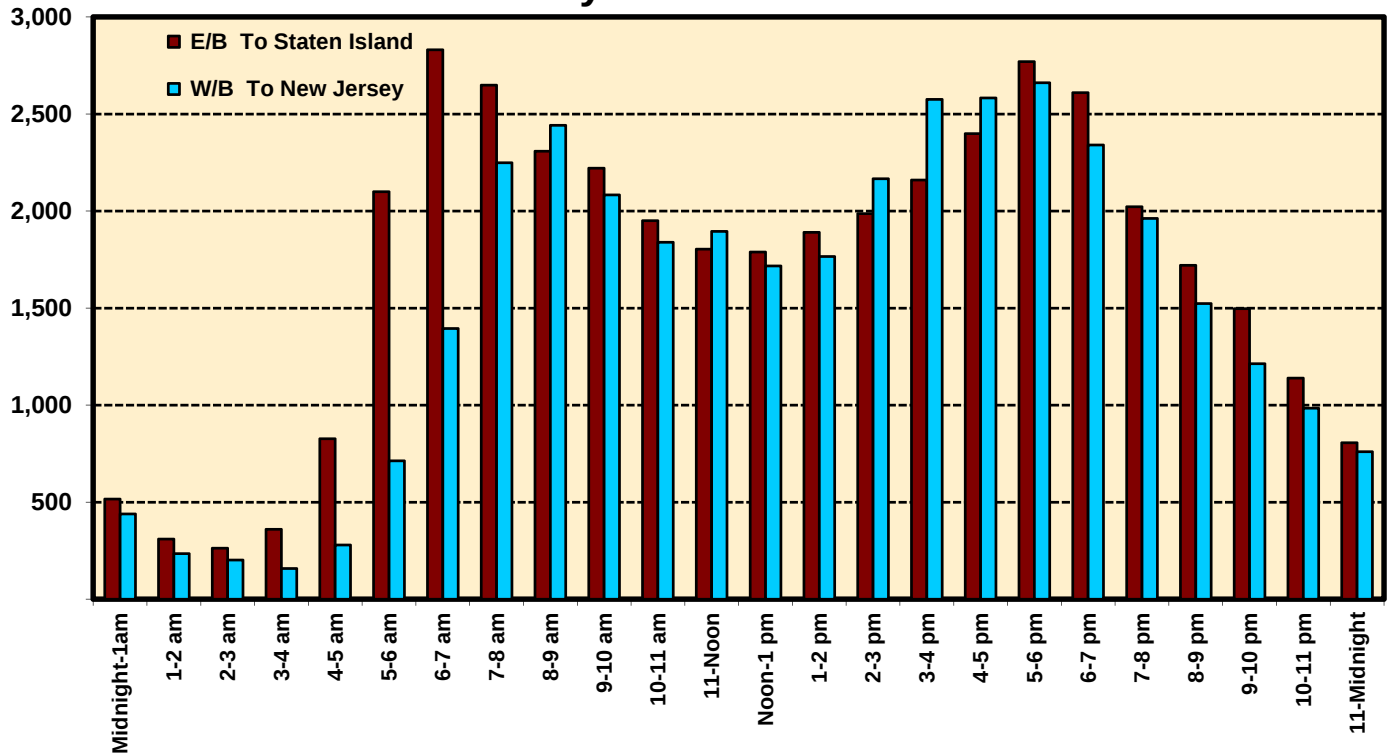


Goethals Bridge Average Daily Traffic Volumes Total of Both Directions

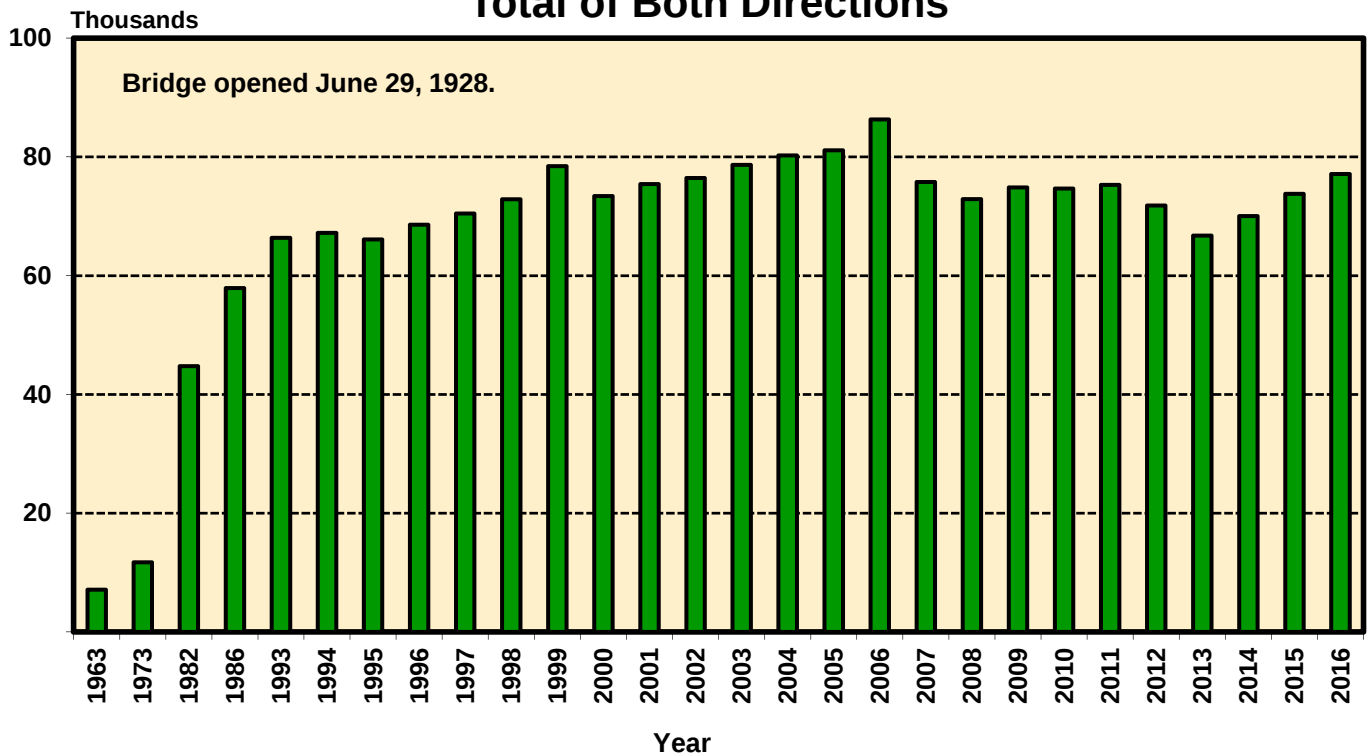


New York – New Jersey Screenline Volumes

Outerbridge Crossing ~ 2016 Hourly Vehicular Volumes



Outerbridge Crossing Average Daily Traffic Volumes Total of Both Directions



Brooklyn-Queens Screenline



**Atlantic Avenue at Brooklyn-Queens Screenline
Looking East**

BROOKLYN - QUEENS SCREENLINE

Newtown Creek Bridges

In 1963, average two-way total daily volume on the four Newtown Creek bridges was 160,400.

- The Kosciuszko Bridge carried the bulk of that traffic, 102,190 daily vehicles (63.7% of the total).
- The Grand Street Bridge served 12,020 daily vehicles (7.5% of the total).
- 17,630 daily vehicles (11.0%) used the J.J. Byrne Memorial Bridge (Greenpoint Avenue Bridge).
- The Pulaski Bridge was the route of 28,560 vehicles per day (17.8%).

1963 – 1973 Newtown Creek Bridges

Between 1963 and 1973, Newtown Creek crossings increased 4.8% to 168,037 vehicles per day, 7,637 more than ten years earlier.

- The Kosciuszko Bridge remained the most-traveled facility, although its volume decreased to 99,044 daily vehicles, 3.1% fewer than in 1963.
- The Grand Street Bridge volume decreased 2.5%, to 11,723 daily vehicles in 1973 from 12,020 in 1963.
- Traffic using the J.J. Byrne Memorial Bridge (Greenpoint Avenue Bridge) increased 52.0%, to 26,798 daily vehicles in 1973 from 17,630 in 1963.
- Pulaski Bridge daily traffic increased 6.7%, to 30,472 from 28,560.

1973 – 1982 Newtown Creek Bridges

Between 1973 and 1982, Newtown Creek vehicular crossings increased 7.0% to 179,788 vehicles per day from 168,037.

- Growth was concentrated solely on the Kosciuszko Bridge, where daily volume increased 30.8% to 129,553 in 1982 from 99,044 in 1973.
- Daily volumes decreased on the other three bridges: Grand Street Bridge down 21.5% to 9,203; J.J. Byrne (Greenpoint Avenue) Bridge down 33.2% to 17,898; and Pulaski Bridge down 24.1% to 23,134.

1982 – 1986 Newtown Creek Bridges

From 1982 to 1986, traffic over Newtown Creek increased rapidly, by 25.0% to 224,816 daily vehicles in 1986 from 179,788 in 1982, with increases occurring on three of the four bridges.

- Kosciuszko Bridge traffic increased 29.9%, to 168,314 daily vehicles in 1986 from 129,553 in 1982.
- Grand Street Bridge traffic increased 24.0%, to 11,413 daily vehicles from 9,203.
- Pulaski Bridge traffic increased 32.9%, to 30,751 daily vehicles from 23,134.
- The only decrease was on the J.J. Byrne (Greenpoint Avenue) Bridge, where daily traffic was 19.9% less in 1986 than in 1982 (14,338 daily vehicles vs. 17,898).

1986 – 1996 Newtown Creek Bridges

Growth slowed between 1986 and 1996, as traffic crossing Newtown Creek increased 6.6% during that ten-year period, to 239,752 daily vehicles in 1996 from 224,816 in 1986.

- Growth was concentrated at the J.J. Byrne Memorial Bridge, where traffic increased 85%, to 26,528 daily vehicles in 1996 from 14,338 in 1986.
- Grand Street Bridge traffic increased 8.5%, to 12,382 daily vehicles in 1996 from 11,413 in 1986.
- Kosciuszko Bridge traffic increased just 1.3%, to 170,504 daily vehicles from 168,314.
- Pulaski Bridge traffic decreased 1.3%, to 30,338 daily vehicles from 30,751.

1996 – 2006 Newtown Creek Bridges

Faster growth resumed between 1996 and 2006, as Newtown Creek crossings increased 10.7%, to 265,298 daily vehicles in 2006 from 239,752 in 1996.

- The largest numerical increase occurred on the Kosciuszko Bridge, where daily volume increased to 184,341 in 2006 from 170,504 in 1996 (+8.1%).
- The largest percentage increase occurred on the Pulaski Bridge, where daily volume increased 26.6%, to 38,224 from 30,338.

2006 – 2016 Newtown Creek Bridges

During the most recent ten-year period, Newtown Creek crossings decreased 7.6%, to 245,138 daily vehicles in 2016 from 265,298 in 2006.

- The largest decrease occurred on the Kosciuszko Bridge: decrease of 21,760 daily vehicles, to 162,581 in 2016 from 184,341 in 2006 (-11.8%).

1963 – 2016 Newtown Creek Bridges

During the 53 years from 1963 to 2016, traffic crossing Newtown Creek increased 52.8%, to 245,138 daily vehicles in 2016 from 160,400 in 1963.

- Volumes increased on three of the four crossings.
- Kosciuszko Bridge traffic increased 59.1%, to 162,581 daily vehicles in 2016 from 102,190 in 1963.
- J.J. Byrne Memorial Bridge traffic increased 79.4%, to 31,622 daily vehicles from 17,630.
- Pulaski Bridge traffic increased 42.6%, to 40,722 daily vehicles from 28,560.
- Grand Street Bridge traffic decreased 15%, to 10,213 daily vehicles from 12,020.

Other Brooklyn – Queens Screenline Facilities

Volumes on eleven facilities other than the Newtown Creek Bridges were collected at the Brooklyn - Queens screenline for the first time in 1993.

- Total volume on the eleven monitored facilities was 288,774 vehicles per day.

- The highest recorded volumes were on the two limited access facilities, Shore Parkway (Belt Parkway) and Jackie Robinson Parkway.
 - Shore Parkway (Belt Parkway) carried 135,706 daily vehicles, 47.0% of the total monitored traffic.
 - 52,332 daily vehicles (18.1% of the total) used the Jackie Robinson Parkway.
- The highest surface arterial volumes were on Linden Boulevard (44,441 daily vehicles), and on Atlantic Avenue (27,485 daily vehicles).

1993 – 2006 Other Brooklyn – Queens Screenline Facilities

Daily volumes on these eleven facilities increased 16.3%, to 335,938 daily vehicles in 2006 from 288,774 in 1993.

- Increases on nine of the eleven facilities.
- Jackie Robinson Parkway traffic increased 35.4%, to 70,833 vehicles per day in 2006 from 52,332 in 1993.
- Traffic on Shore Parkway (Belt Parkway) increased 16.3%, to 157,809 daily vehicles in 2006 from 135,706 in 1993.

2006 – 2016 Other Brooklyn – Queens Screenline Facilities

From 2006 to 2016, total volumes on these eleven facilities increased 3.3%, to 346,908 daily vehicles in 2016 from 335,938 in 2006.

- The largest increase occurred on Shore Parkway (Belt Parkway), an increase of 7,011 daily vehicles, to 164,820 in 2016 from 157,809 in 2006 (+4.4%).
- Linden Boulevard traffic decreased 1.6%, to 52,916 daily vehicles in 2016 from 52,069 in 2006.
- Jackie Robinson Parkway traffic increased 2.2%, to 72,396 daily vehicles from 70,833.

1993 – 2016 Other Brooklyn – Queens Screenline Facilities

During the 23 years from 1993 to 2016, total daily volumes on these eleven facilities increased by 20.1%, to 346,908 in 2016 from 288,774 in 1993.

- The largest increase was on Shore Parkway (Belt Parkway): up 21.5% to 164,820 daily vehicles in 2016 from 135,706 in 1993.
- The largest decrease was on Atlantic Avenue: down 16.0%, to 23,099 daily vehicles from 27,485, a decrease of 4,386 daily vehicles.

Brooklyn – Queens

Screenline 2016 Daily Volumes



Note: The J.J. Memorial Bridge is also known as Greenpoint Avenue Bridge

Brooklyn - Queens Screenline Historical Comparisons Average Daily Traffic Volumes

To Brooklyn

	1963	1973	1982	1986	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Grand Street Brg	N/A	N/A	5,216	6,414	7,018	7,212	7,600	6,916	7,078	7,831	7,862	7,747	7,729	7,447	8,356
J.J. Byrne Mem Brg*	N/A	11,336	8,048	7,276	13,304	13,526	13,737	13,368	12,660	12,863	12,351	12,741	12,993	12,375	14,445
Kosciuszko Brg	N/A	43,118	63,426	81,363	78,371	81,000	81,356	79,729	89,222	92,765	97,690	101,852	97,242	90,607	96,153
Pulaski Brg	N/A	13,617	9,906	15,447	13,003	13,182	14,436	14,926	15,737	16,076	15,724	17,993	19,292	18,667	19,465
Newtown Creek Totals	N/A	N/A	86,596	110,500	111,696	114,920	117,129	114,939	124,697	129,535	133,627	140,333	137,256	129,096	138,419
Atlantic Ave	N/A	N/A	N/A	N/A	13,940	13,394	14,016	12,767	13,951	14,231	15,071	14,850	14,182	14,687	14,150
Cooper St	N/A	N/A	N/A	N/A	4,558	5,010	4,929	4,841	5,220	5,460	5,611	5,942	5,756	5,741	6,001
Cornelia St	N/A	N/A	N/A	N/A	One-way to Queens										
Decatur St	N/A	N/A	N/A	N/A	One-way to Queens										
DeKalb Ave	N/A	N/A	N/A	N/A	3,163	3,010	3,166	2,879	3,234	2,283	2,515	2,746	2,563	3,428	3,566
Greene Ave	N/A	N/A	N/A	N/A	One-way to Queens										
J. Robinson Pky	N/A	N/A	N/A	N/A	24,460	27,163	27,323	29,318	30,169	31,808	33,198	34,441	35,760	37,175	36,445
Linden Blvd	N/A	N/A	N/A	N/A	22,724	23,305	23,248	24,324	26,472	24,758	27,165	26,299	27,130	27,698	25,717
Linden St	N/A	N/A	N/A	N/A	One-way to Queens										
Shore (Belt) Pky	N/A	N/A	N/A	N/A	65,341	71,124	71,538	72,633	73,618	74,085	73,484	76,366	75,478	69,587	75,682
Sutter Ave	N/A	N/A	N/A	N/A	3,178	3,130	3,158	3,010	3,695	3,638	3,670	3,776	3,821	3,851	4,090
Other Totals	N/A	N/A	N/A	N/A	137,364	146,136	147,378	149,772	156,359	156,263	160,714	164,420	164,690	162,167	165,651
Grand Totals	N/A	N/A	N/A	N/A	249,060	261,056	264,507	264,711	281,056	285,798	294,341	304,753	301,946	291,263	304,070

To Brooklyn

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Grand Street Brg	7,465	6,455	6,920	6,858	7,378	7,134	7,268	7,231	7,272	9,103	8,216	7,156	5,134
J.J. Byrne Mem Brg*	13,509	13,951	14,318	13,453	12,756	12,753	13,016	12,238	12,436	12,178	13,107	13,484	15,356
Kosciuszko Brg	92,556	94,830	86,969	91,026	87,257	91,267	91,098	91,471	96,950	91,360	88,452	87,751	80,145
Pulaski Brg	19,923	19,431	18,500	18,417	18,295	17,881	18,166	19,288	18,258	19,393	20,126	19,634	19,886
Newtown Creek Totals	133,453	134,667	126,707	129,754	125,686	129,035	129,548	130,228	134,916	132,034	129,901	128,025	120,521
Atlantic Ave	14,693	12,611	12,095	11,180	10,947	10,776	11,265	11,913	11,655	12,570	12,571	11,744	12,014
Cooper St	5,832	6,160	5,921	5,565	6,025	6,216	6,357	5,910	6,109	6,335	5,884	6,491	6,232
Cornelia St	One-way to Queens												
Decatur St	One-way to Queens												
DeKalb Ave	3,697	3,583	3,109	3,016	3,061	2,986	2,869	2,904	3,121	2,628	2,804	2,689	2,831
Greene Ave	One-way to Queens												
J. Robinson Pky	35,680	36,037	34,799	34,804	33,302	33,337	34,419	32,734	32,266	33,986	32,993	32,808	35,085
Linden Blvd	27,251	28,195	27,119	25,993	23,784	23,209	26,718	22,798	23,132	23,854	23,497	23,027	30,155
Linden St	One-way to Queens												
Shore (Belt) Pky	76,608	76,393	79,763	81,339	79,589	81,737	77,981	74,208	78,936	84,633	81,366	83,079	81,836
Sutter Ave	4,137	4,810	4,218	4,685	4,896	5,075	5,332	5,109	5,244	5,730	5,979	5,596	6,276
Other Totals	167,898	167,789	167,024	166,582	161,604	163,336	164,941	155,576	160,463	169,736	165,094	165,434	174,429
Grand Totals	301,351	302,456	293,731	296,336	287,290	292,371	294,489	285,804	295,379	301,770	294,995	293,459	294,950

* J.J. Byrne Memorial Bridge also known as Greenpoint Avenue Bridge.
 * Only Newtown Creek bridges counted prior to 1993
 * Directional volumes not available for Grand Street Bridge 1963 & 1973, other 3 bridges 1963

**Brooklyn - Queens Screenline
Historical Comparisons
Average Daily Traffic Volumes
(continued)**

To Queens

	1963	1973	1982	1986	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Grand Street Brg	N/A	N/A	3,987	4,999	5,430	5,963	5,650	5,466	5,797	7,497	6,528	7,761	6,166	5,641	5,783
J.J. Byrne Mem Brg*	N/A	15,462	9,850	7,062	12,397	12,803	13,199	13,160	12,277	12,741	14,262	13,402	13,773	13,931	14,310
Kosciuszko Brg	N/A	55,926	66,127	86,951	88,221	85,354	87,233	87,775	99,988	102,427	97,094	99,020	99,323	93,772	98,344
Pulaski Brg	N/A	16,855	13,228	15,304	12,276	12,617	14,044	15,412	15,826	16,124	15,251	19,428	19,770	19,681	18,881
Newtown Creek Totals	N/A	93,192	114,316	118,324	116,737	120,176	124,813	133,888	138,789	133,135	139,611	139,032	139,032	133,025	137,318
Atlantic Ave	N/A	N/A	N/A	N/A	13,545	15,026	15,005	14,166	14,425	14,315	14,728	14,264	13,713	14,249	14,336
Cooper St	N/A	N/A	N/A	N/A	5,199	5,431	5,649	6,132	3,886	3,598	3,702	3,663	3,761	3,533	3,140
Cornelia St	N/A	N/A	N/A	N/A	1,552	1,425	1,529	1,443	1,522	1,454	1,787	1,905	1,936	2,032	1,908
Decatur St	N/A	N/A	N/A	N/A	1,921	2,163	2,112	2,306	2,220	2,242	2,099	2,113	2,082	2,237	2,342
DeKalb Ave	N/A	N/A	N/A	N/A	2,117	2,381	2,297	2,311	2,481	2,316	2,588	2,372	2,347	2,464	2,544
Greene Ave	N/A	N/A	N/A	N/A	1,762	1,711	1,810	1,787	1,872	2,223	1,922	1,947	1,962	2,078	2,363
J. Robinson Pky	N/A	N/A	N/A	N/A	27,872	31,458	33,751	31,483	31,615	32,020	33,420	36,932	36,920	37,545	37,261
Linden Blvd	N/A	N/A	N/A	N/A	21,717	23,408	25,704	26,562	27,160	23,924	26,630	25,901	25,160	25,439	25,393
Linden St	N/A	N/A	N/A	N/A	1,063	2,315	2,360	2,362	2,400	2,420	2,439	2,477	2,544	2,609	2,270
Shore (Belt) Pky	N/A	N/A	N/A	N/A	70,365	69,679	68,627	72,369	73,776	73,754	73,969	73,588	76,440	70,576	74,358
Sutter Ave	N/A	N/A	N/A	N/A	4,297	3,846	3,827	3,729	3,750	3,871	4,022	4,096	4,291	4,498	4,704
Other Totals	N/A	N/A	N/A	N/A	151,410	158,843	162,671	164,840	165,107	162,137	167,306	169,258	171,156	167,260	170,619
Grand Totals	N/A	N/A	N/A	N/A	269,734	275,580	282,847	289,653	298,995	300,926	300,441	308,869	310,188	300,285	307,937

To Queens

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Grand Street Brg	5,994	6,561	5,973	5,727	5,653	5,442	5,394	5,089	5,323	4,740	5,446	5,390	5,079
J.J. Byrne Mem Brg*	14,928	15,498	15,522	13,574	14,170	13,884	13,700	13,471	13,943	13,523	14,729	14,877	16,266
Kosciuszko Brg	101,056	103,983	97,372	95,467	94,526	97,055	99,655	100,153	99,267	99,865	95,573	91,386	82,436
Pulaski Brg	20,223	19,480	19,724	18,804	18,724	18,222	18,815	18,134	18,609	19,683	20,279	20,851	20,836
Newtown Creek Totals	142,201	145,522	138,591	133,572	133,073	134,603	137,564	136,847	137,142	137,811	136,027	132,504	124,617
Atlantic Ave	13,903	13,349	11,961	11,066	10,613	10,701	12,081	12,006	11,967	12,642	11,944	11,615	11,085
Cooper St	3,388	3,622	3,372	3,378	3,477	3,482	3,688	3,077	3,425	3,362	3,172	3,462	2,834
Cornelia St	1,844	1,787	1,660	1,727	1,753	1,847	1,848	1,723	1,768	1,872	1,743	1,952	1,969
Decatur St	2,332	2,003	2,247	2,059	2,203	2,091	2,101	2,226	2,087	2,222	2,326	2,418	2,588
DeKalb Ave	2,607	2,626	2,197	2,258	2,341	2,548	2,229	2,230	2,154	2,140	1,968	1,944	1,681
Greene Ave	2,029	1,551	1,854	1,733	1,883	1,887	1,655	1,555	1,520	1,505	1,316	1,459	1,527
J. Robinson Pky	38,624	37,490	36,034	35,893	34,433	34,140	34,701	34,563	34,696	35,477	34,912	35,209	37,311
Linden Blvd	24,502	21,692	24,950	23,429	22,937	21,255	22,077	21,385	21,936	22,581	21,500	20,156	22,761
Linden St	2,161	2,123	2,192	2,012	1,992	1,936	1,938	1,776	1,923	2,015	2,027	2,017	2,278
Shore (Belt) Pky	74,997	75,733	78,046	83,142	83,850	81,070	77,631	66,426	73,021	79,607	78,938	83,252	82,984
Sutter Ave	4,595	4,938	4,401	4,411	4,286	4,349	4,757	4,579	4,537	4,803	5,013	5,087	5,461
Other Totals	170,982	166,914	168,914	171,108	169,768	165,306	164,706	151,546	159,034	168,226	164,859	168,571	172,479
Grand Totals	313,183	312,436	307,505	304,680	302,841	299,909	302,270	288,393	296,176	306,037	300,886	301,075	297,096

* J.J. Byrne Memorial Bridge also known as Greenpoint Avenue Bridge.

* Only Newtown Creek bridges counted prior to 1993

* Directional volumes not available for Grand Street Bridge 1963 & 1973, other 3 bridges 1963

**Brooklyn - Queens Screenline
Historical Comparisons
Average Daily Traffic Volumes
(continued)**

Both Directions

	1963	1973	1982	1986	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Grand Street Brg	12,020	11,723	9,203	11,413	12,448	13,175	13,250	12,382	12,875	15,328	14,390	15,508	13,895	13,088	14,139
J.J. Byrne Mem Brg*	17,630	26,798	17,898	14,338	25,701	26,329	26,936	26,528	24,937	25,604	26,613	26,143	26,766	26,306	28,755
Kosciuszko Brg	102,190	99,044	129,553	168,314	166,592	166,354	168,639	170,504	189,210	195,192	194,784	200,872	196,565	184,379	194,497
Pulaski Brg	28,560	30,472	23,134	30,751	25,279	25,799	28,480	30,338	31,563	32,200	30,975	37,421	39,062	38,348	38,346
Newtown Creek Totals	160,400	168,037	179,788	224,816	230,020	231,657	237,305	239,752	258,585	268,324	266,762	279,944	276,288	262,121	275,737
Atlantic Ave	N/A	N/A	N/A	N/A	27,485	28,420	29,021	26,933	28,376	28,546	29,799	29,114	27,895	28,936	28,486
Cooper St	N/A	N/A	N/A	N/A	9,757	10,441	10,578	10,973	9,106	9,058	9,313	9,605	9,517	9,274	9,141
Cornelia St	N/A	N/A	N/A	N/A	1,552	1,425	1,529	1,443	1,522	1,454	1,787	1,905	1,936	2,032	1,908
Decatur St	N/A	N/A	N/A	N/A	1,921	2,163	2,112	2,306	2,220	2,242	2,099	2,113	2,082	2,237	2,342
DeKalb Ave	N/A	N/A	N/A	N/A	5,280	5,391	5,463	5,190	5,715	4,599	5,103	5,118	4,910	5,892	6,110
Greene Ave	N/A	N/A	N/A	N/A	1,762	1,711	1,810	1,787	1,872	2,223	1,922	1,947	1,962	2,078	2,363
J. Robinson Pky	N/A	N/A	N/A	N/A	52,332	58,621	61,074	60,801	61,784	63,828	66,618	71,373	72,680	74,720	73,706
Linden Blvd	N/A	N/A	N/A	N/A	44,441	46,713	48,952	50,886	53,632	48,682	53,795	52,200	52,290	53,137	51,110
Linden St	N/A	N/A	N/A	N/A	1,063	2,315	2,360	2,552	2,400	2,420	2,439	2,477	2,544	2,609	2,270
Shore (Belt) Pky	N/A	N/A	N/A	N/A	135,706	140,803	140,165	145,002	147,394	147,839	147,453	149,954	151,918	140,163	150,040
Sutter Ave	N/A	N/A	N/A	N/A	7,475	6,976	6,985	6,739	7,445	7,509	7,692	7,872	8,112	8,349	8,794
Other Totals	N/A	N/A	N/A	N/A	288,774	304,979	310,049	314,612	321,466	318,400	328,020	333,678	335,846	329,427	336,270
Grand Totals	N/A	N/A	N/A	N/A	518,794	536,636	547,354	554,364	580,051	586,724	594,782	613,622	612,134	591,548	612,007

Both Directions

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Grand Street Brg	13,459	13,016	12,893	12,585	13,031	12,576	12,662	12,320	12,595	13,843	13,662	12,546	10,213
J.J. Byrne Mem Brg*	28,437	29,449	29,840	27,027	26,926	26,637	26,716	25,709	26,379	25,701	27,836	28,361	31,622
Kosciuszko Brg	193,612	198,813	184,341	186,493	181,783	188,322	190,753	191,624	196,217	191,225	184,025	179,137	162,581
Pulaski Brg	40,146	38,911	38,224	37,221	37,019	36,103	36,981	37,422	36,867	39,076	40,405	40,485	40,722
Newtown Creek Totals	275,654	280,189	265,298	263,326	258,759	263,638	267,112	267,075	272,058	269,845	265,928	260,529	245,138
Atlantic Ave	28,596	25,960	24,056	22,246	21,560	21,477	23,346	23,919	23,622	25,212	24,515	23,359	23,099
Cooper St	9,220	9,782	9,293	8,943	9,502	9,698	10,045	8,987	9,534	9,697	9,056	9,953	9,066
Cornelia St	1,844	1,787	1,660	1,727	1,753	1,847	1,848	1,723	1,768	1,872	1,743	1,952	1,969
Decatur St	2,332	2,003	2,247	2,059	2,203	2,091	2,101	2,226	2,087	2,222	2,326	2,418	2,588
DeKalb Ave	6,304	6,209	5,306	5,274	5,402	5,534	5,098	5,134	5,275	4,768	4,772	4,633	4,512
Greene Ave	2,029	1,551	1,854	1,733	1,883	1,887	1,655	1,555	1,520	1,505	1,316	1,459	1,527
J. Robinson Pky	74,304	73,527	70,833	70,697	67,735	67,477	69,120	67,297	66,962	69,463	67,905	68,017	72,396
Linden Blvd	51,753	49,887	52,069	49,422	46,721	44,464	48,795	44,183	45,068	46,435	44,997	43,183	52,916
Linden St	2,161	2,123	2,012	2,012	1,992	1,936	1,938	1,776	1,923	2,015	2,027	2,017	2,278
Shore (Belt) Pky	151,605	152,126	157,809	164,481	163,439	162,807	155,612	140,634	151,957	164,240	160,304	166,331	164,820
Sutter Ave	8,732	9,748	8,619	9,096	9,182	9,424	10,089	9,688	9,781	10,533	10,992	10,683	11,737
Other Totals	338,880	334,703	335,938	337,690	331,372	328,642	329,647	307,122	319,497	337,962	329,953	334,005	346,908
Grand Totals	614,534	614,892	601,236	601,016	590,131	592,280	596,759	574,197	591,555	607,807	595,881	594,534	592,046

* J.J. Byrne Memorial Bridge also known as Greenpoint Avenue Bridge.

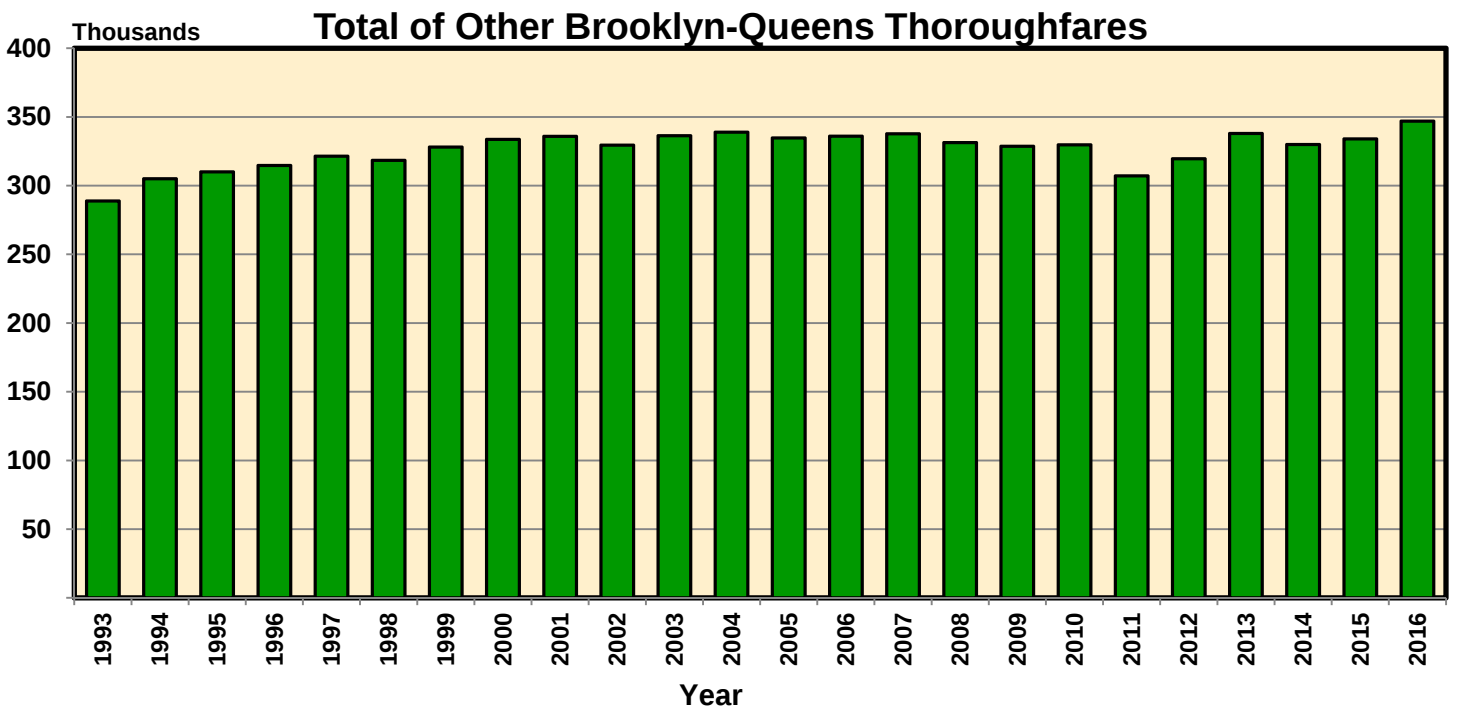
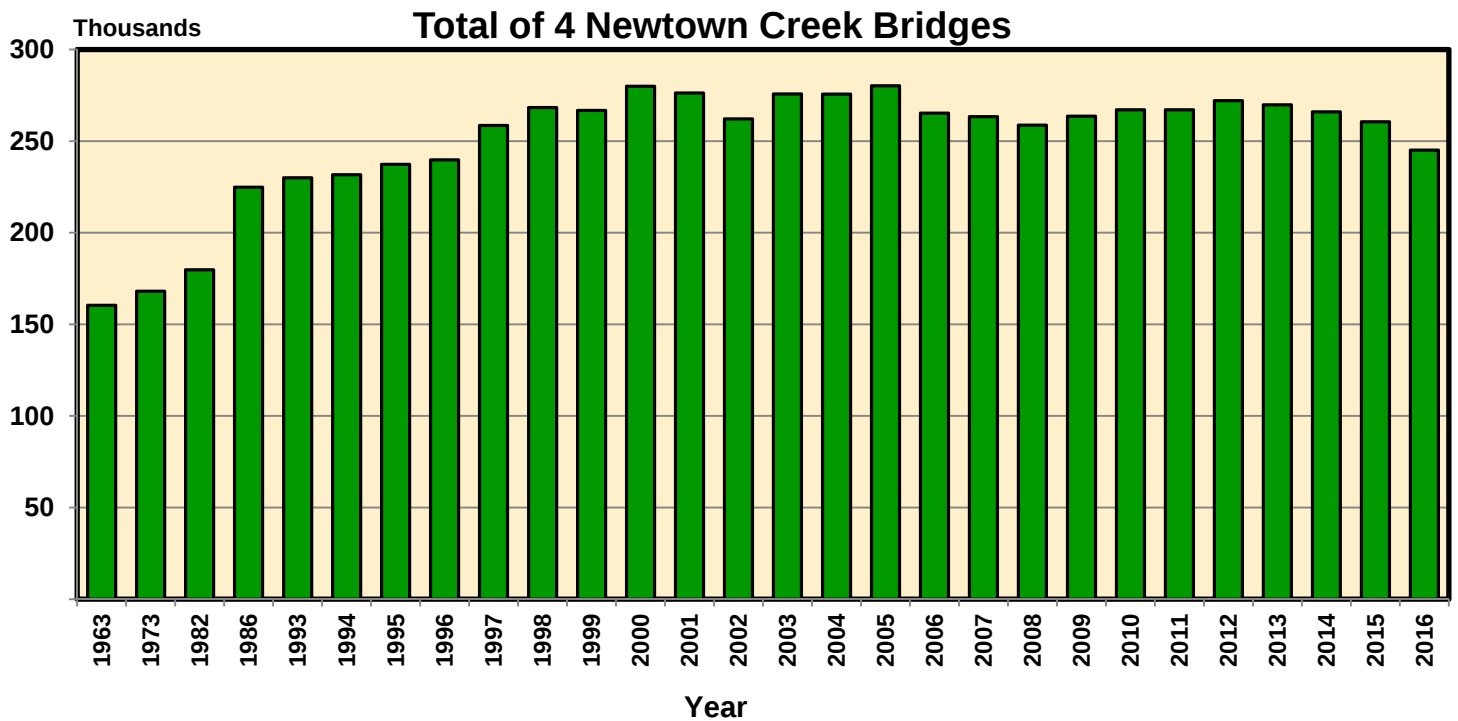
* Only Newtown Creek bridges counted prior to 1993

* Directional volumes not available for Grand Street Bridge 1963 & 1973, other 3 bridges 1963

Brooklyn – Queens Screenline

Historical Comparisons

Average Daily Traffic Volumes ~ Total of Both Directions



2016 Screenline Volumes Brooklyn - Queens

	Grand Street Bridge		J.J. Byrne Memorial Bridge**		Kosciuszko Bridge		Pulaski Bridge		Newtown Creek Totals	
	W/B*	E/B	W/B*	E/B	W/B*	E/B	S/B*	N/B	To Brooklyn	To Queens
Mid-1am	96	32	88	186	2,085	2,778	261	252	2,530	3,248
1-2am	50	30	97	131	1,455	1,994	176	187	1,778	2,342
2-3am	34	24	106	156	1,183	1,509	152	184	1,475	1,873
3-4am	41	30	197	191	1,253	1,299	207	287	1,698	1,807
4-5am	72	66	520	425	2,207	2,084	387	633	3,186	3,208
5-6am	147	161	961	715	4,467	3,265	724	1,175	6,299	5,316
6-7am	191	304	1,114	848	4,479	3,697	1,069	1,535	6,853	6,384
7-8am	209	387	1,076	906	4,408	3,986	1,163	1,484	6,856	6,763
8-9am	233	369	1,038	723	3,862	3,930	1,045	1,216	6,178	6,238
9-10am	257	322	993	748	3,316	3,729	1,007	1,041	5,573	5,840
10-11am	262	332	858	809	3,200	3,602	968	1,123	5,288	5,866
11-Noon	292	286	880	892	3,692	3,652	815	993	5,679	5,823
Noon-1	299	261	836	916	3,832	3,863	884	938	5,851	5,978
1-2pm	304	321	853	1,050	3,714	3,831	1,118	1,222	5,989	6,424
2-3pm	349	328	1,014	1,189	3,627	3,975	1,492	1,271	6,482	6,763
3-4pm	426	361	1,091	1,209	3,468	3,821	1,558	1,347	6,543	6,738
4-5pm	433	375	1,006	1,165	3,543	4,007	1,458	1,241	6,440	6,788
5-6pm	457	375	762	982	3,682	4,281	1,220	1,055	6,121	6,693
6-7pm	343	289	548	796	3,691	4,256	934	837	5,516	6,178
7-8pm	196	146	412	628	4,083	4,227	847	757	5,538	5,758
8-9pm	149	95	285	469	4,022	3,968	717	592	5,173	5,124
9-10pm	111	83	252	425	3,945	3,850	614	554	4,922	4,912
10-11pm	93	57	237	403	3,922	3,481	581	514	4,833	4,455
11-Mid	90	45	132	304	3,009	3,351	489	398	3,720	4,098
24 hr Total	5,134	5,079	15,356	16,266	80,145	82,436	19,886	20,836	120,521	124,617
6-10am	890	1,382	4,221	3,225	16,065	15,342	4,284	5,276	25,460	25,225
10am-1pm	853	879	2,574	2,617	10,724	11,117	2,667	3,054	16,818	17,667
1-3pm	653	649	1,867	2,239	7,341	7,806	2,610	2,493	12,471	13,187
3-7pm	1,659	1,400	3,407	4,152	14,384	16,365	5,170	4,480	24,620	26,397
6am-7pm	4,055	4,310	12,069	12,233	48,514	50,630	14,731	15,303	79,369	82,476

* To Brooklyn

** J.J. Byrne Memorial Bridge also known as Greenpoint Avenue Bridge.

2016 Screenline Volumes Brooklyn - Queens (cont'd)

	Atlantic Ave		Cooper St		Cornelia St		Decatur St		DeKalb Ave		Greene Ave		Jackie Robinson Parkway	
	W/B*	E/B	S/B*	N/B	One Way to Queens		N/B	One Way to Queens		S/B*	N/B	N/B	W/B*	E/B
Mid-1am	171	201	85	45			43			34	20	28	629	622
1-2am	110	127	57	36			29			22	15	17	285	344
2-3am	79	84	34	19			21			16	10	12	185	220
3-4am	80	70	38	18			14			18	8	9	183	242
4-5am	130	89	49	28			18			31	14	12	366	436
5-6am	298	197	107	49			39			67	34	23	1,001	1,070
6-7am	720	328	346	98			75			141	47	60	2,611	2,123
7-8am	987	503	488	112			106			235	90	91	2,106	2,153
8-9am	907	516	455	123			122			212	93	84	2,152	1,879
9-10am	671	456	341	134			102			155	83	72	2,164	1,737
10-11am	556	477	296	119			105			129	82	71	1,861	1,587
11-Noon	543	498	288	134			114			139	98	86	1,626	1,656
Noon-1	551	561	302	149			124			142	102	76	1,562	1,768
1-2pm	566	594	311	158			136			143	98	75	1,643	2,068
2-3pm	628	638	352	177			162			179	112	86	1,840	2,386
3-4pm	667	756	371	179			184			172	109	88	2,234	2,389
4-5pm	744	910	390	181			225			169	132	98	2,105	2,182
5-6pm	744	974	405	201			246			172	135	112	1,850	2,299
6-7pm	690	939	384	188			203			163	112	105	1,900	2,389
7-8pm	599	690	325	182			154			147	93	101	1,870	2,155
8-9pm	534	518	268	176			132			120	67	81	1,497	1,816
9-10pm	417	400	221	137			98			101	56	59	1,269	1,460
10-11pm	358	316	185	116			81			77	42	45	1,124	1,294
11-Mid	264	243	134	75			55			47	29	36	1,022	1,036
24 hr Total	12,014	11,085	6,232	2,834	1,969	2,588	2,831	1,681	1,527	35,085	37,311			
6-10am	3,285	1,803	1,630	467	332	405	743	313	307	9,033	7,892			
10am-1pm	1,650	1,536	886	402	320	343	410	282	233	5,049	5,011			
1-3pm	1,194	1,232	663	335	219	298	322	210	161	3,483	4,454			
3-7pm	2,845	3,579	1,550	749	571	858	676	488	403	8,089	9,259			
6am-7pm	8,974	8,150	4,729	1,953	1,442	1,904	2,151	1,293	1,104	25,654	26,616			

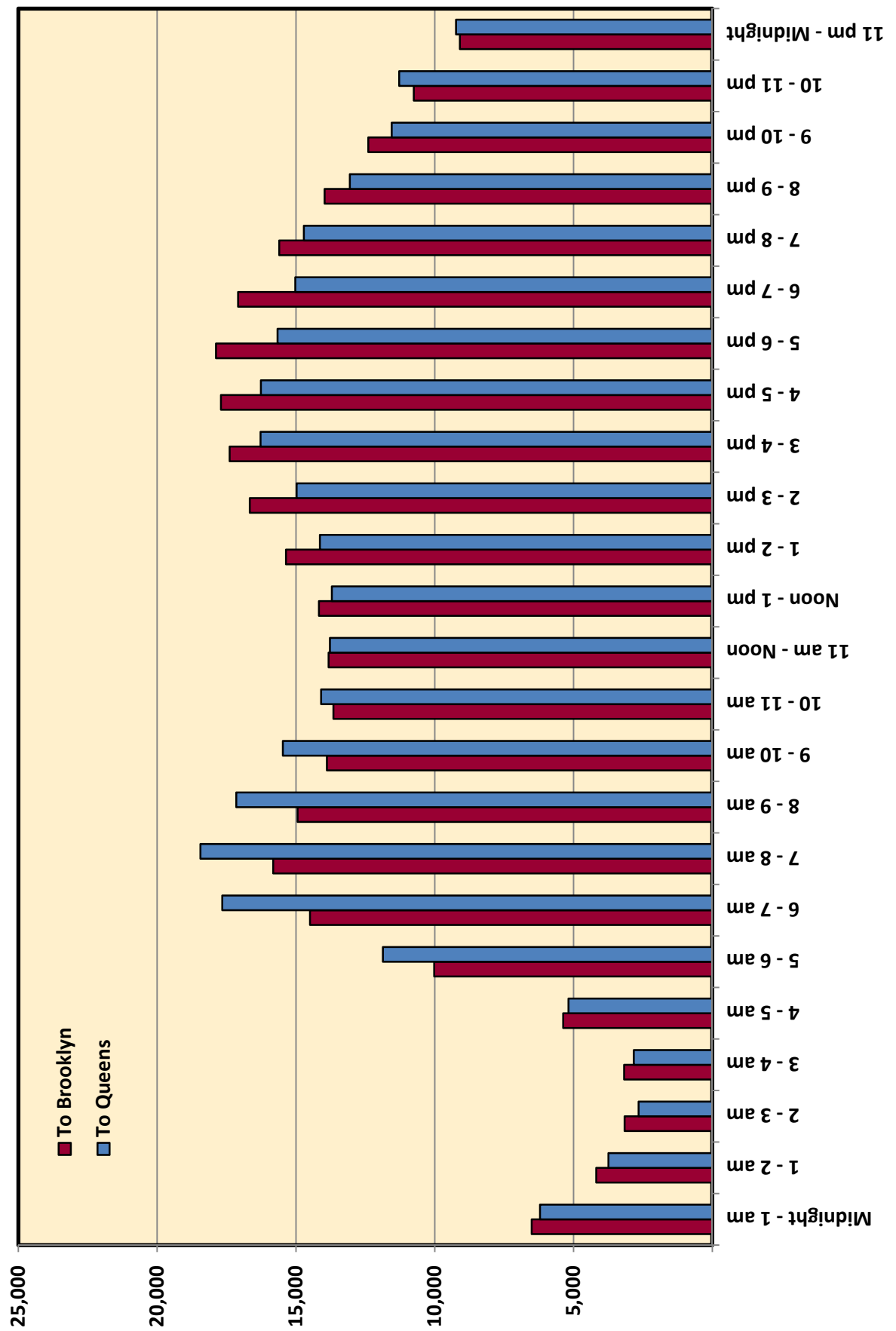
* To Brooklyn

2016 Screenline Volumes Brooklyn - Queens (cont'd)

	Linden Blvd		Linden St N/B	Shore Parkway		Sutter Ave		Other Totals		Grand Totals	
	W/B*	E/B		W/B*	E/B	W/B*	E/B	To Brooklyn	To Queens	To Brooklyn	To Queens
Mid-1am	735	402	35	1,932	1,764	90	71	3,676	3,261	6,206	6,509
1-2am	342	240	25	1,097	940	50	44	1,963	1,840	3,741	4,182
2-3am	196	194	18	634	657	38	34	1,182	1,286	2,657	3,159
3-4am	231	233	18	539	717	43	31	1,132	1,370	2,830	3,177
4-5am	353	299	21	1,001	1,193	65	40	1,995	2,165	5,181	5,373
5-6am	828	520	39	3,104	2,618	162	98	5,567	4,706	11,866	10,022
6-7am	1,874	737	67	4,774	4,288	336	239	10,802	8,110	17,655	14,494
7-8am	2,346	879	91	4,951	4,576	470	366	11,583	9,058	18,439	15,821
8-9am	2,188	929	108	4,627	4,474	429	274	10,970	8,704	17,148	14,942
9-10am	1,783	945	105	4,494	4,077	289	241	9,897	8,043	15,470	13,883
10-11am	1,571	1,035	114	4,145	3,873	248	225	8,806	7,783	14,094	13,649
11-Noon	1,404	1,129	123	3,837	3,802	260	248	8,097	7,999	13,776	13,822
Noon-1	1,278	1,151	119	3,750	3,768	270	263	7,855	8,195	13,706	14,173
1-2pm	1,369	1,272	137	3,829	3,996	289	294	8,150	8,933	14,139	15,357
2-3pm	1,478	1,419	151	3,628	4,342	390	313	8,495	9,900	14,977	16,663
3-4pm	1,515	1,665	163	4,377	4,642	397	352	9,733	10,649	16,276	17,387
4-5pm	1,623	1,803	170	4,373	4,670	418	403	9,822	10,914	16,262	17,702
5-6pm	1,625	1,754	169	4,332	4,696	416	448	9,544	11,188	15,665	17,881
6-7pm	1,561	1,617	150	4,421	4,658	389	392	9,508	10,908	15,024	17,086
7-8pm	1,490	1,237	134	4,403	4,644	342	320	9,176	9,844	14,714	15,602
8-9pm	1,168	1,046	120	4,014	4,536	285	258	7,886	8,843	13,059	13,967
9-10pm	853	893	88	3,531	4,002	238	206	6,630	7,483	11,552	12,395
10-11pm	1,165	756	60	3,323	3,374	214	165	6,446	6,302	11,279	10,757
11-Mid	1,179	606	53	2,720	2,677	148	136	5,514	4,995	9,234	9,093
24 hr Total	30,155	22,761	2,278	81,836	82,984	6,276	5,461	174,429	172,479	294,950	297,096
6-10am	8,191	3,490	371	18,846	17,415	1,524	1,120	43,252	33,915	68,712	59,140
10am-1pm	4,253	3,315	356	11,732	11,443	778	736	24,758	23,977	41,576	41,644
1-3pm	2,847	2,691	288	7,457	8,338	679	607	16,645	18,833	29,116	32,020
3-7pm	6,324	6,839	652	17,503	18,666	1,620	1,595	38,607	43,659	63,227	70,056
6am-7pm	21,615	16,335	1,667	55,538	55,862	4,601	4,058	123,262	120,384	202,631	202,860

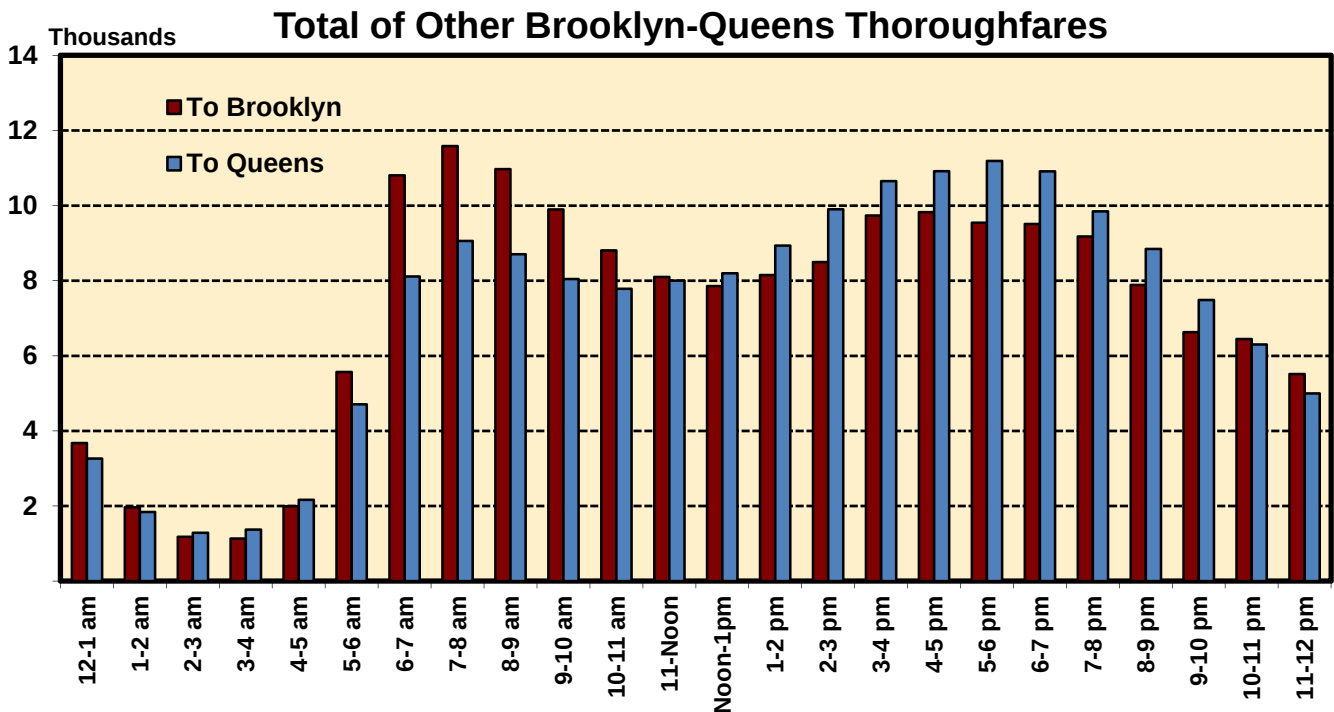
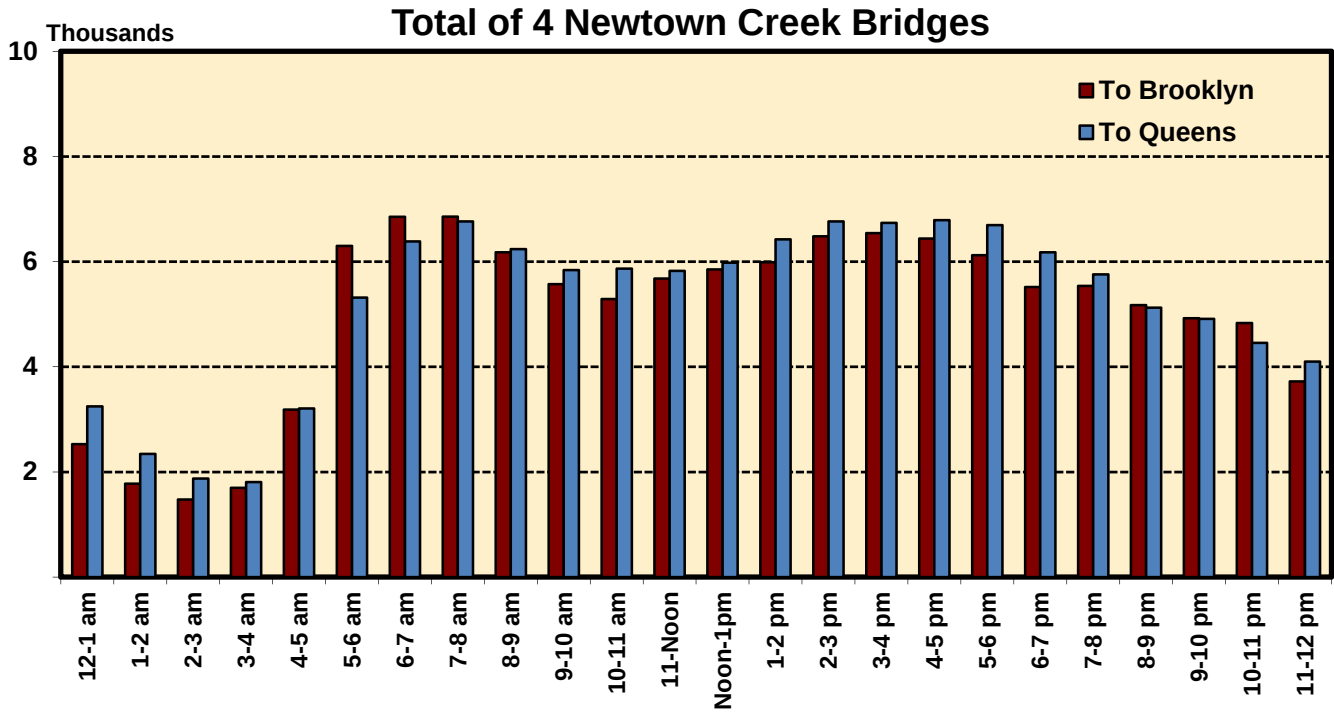
* To Brooklyn

Brooklyn – Queens Screenline Total Hourly Vehicle Volumes ~ 2016



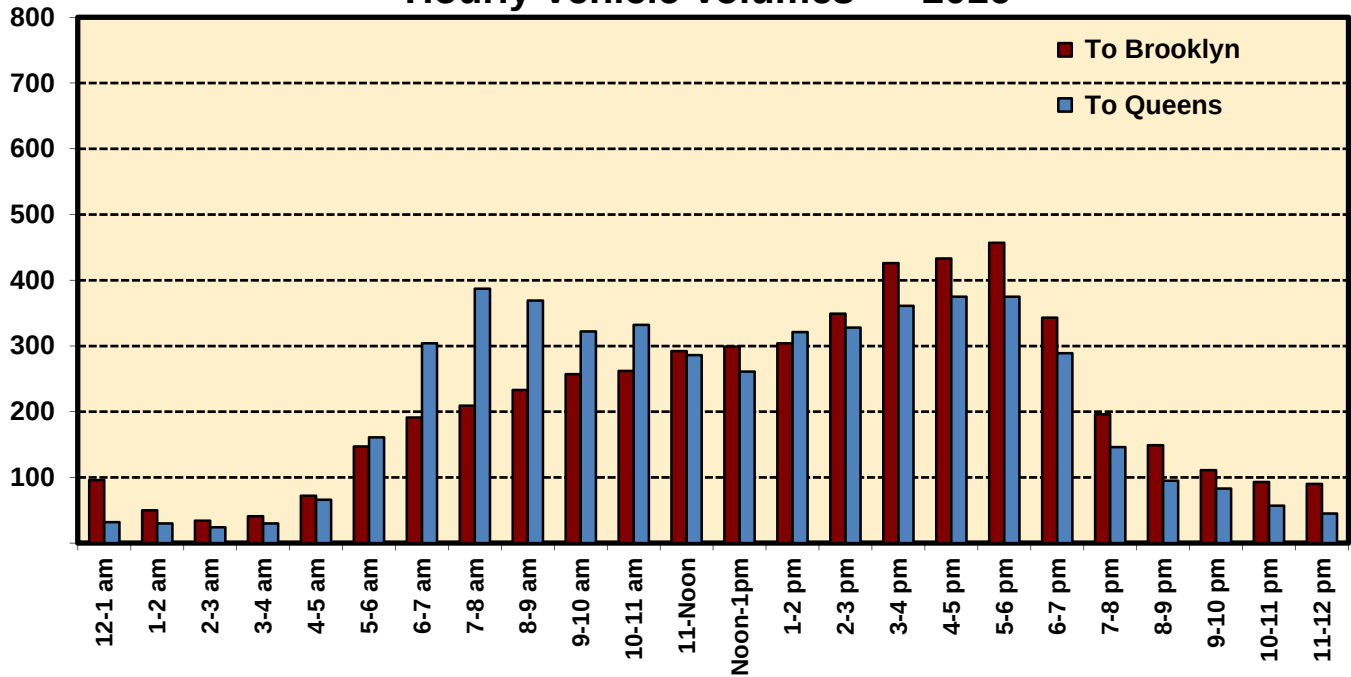
Brooklyn – Queens Screenline

Hourly Vehicle Volumes ~ 2016

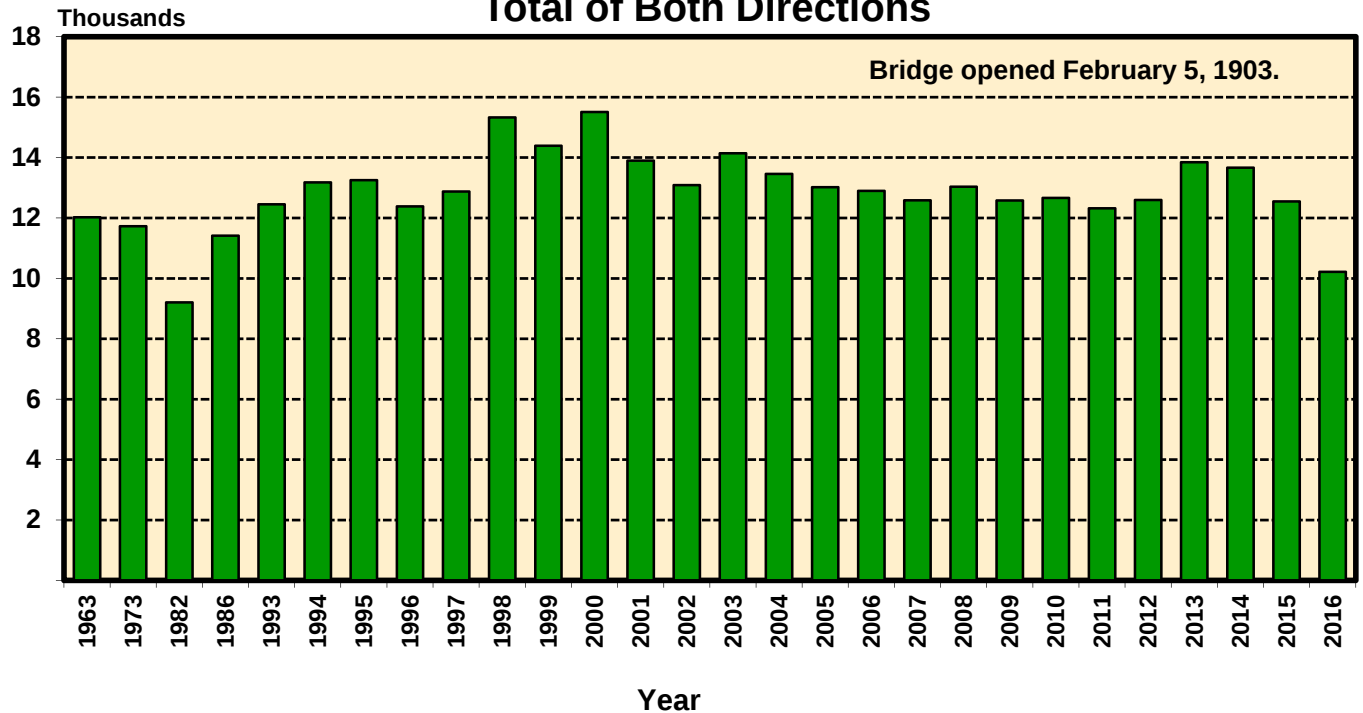


Brooklyn – Queens Screenline Volumes

Grand Street Bridge Hourly Vehicle Volumes ~ 2016

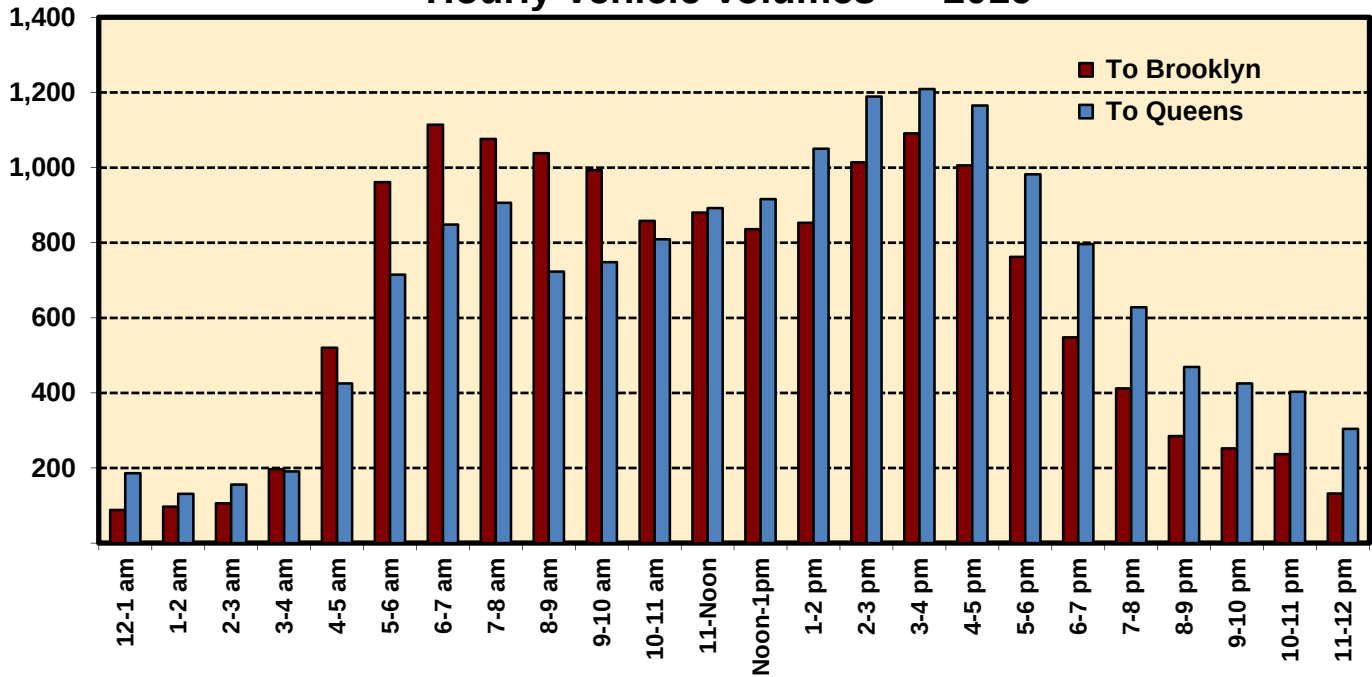


Grand Street Bridge Average Daily Traffic Volumes Total of Both Directions

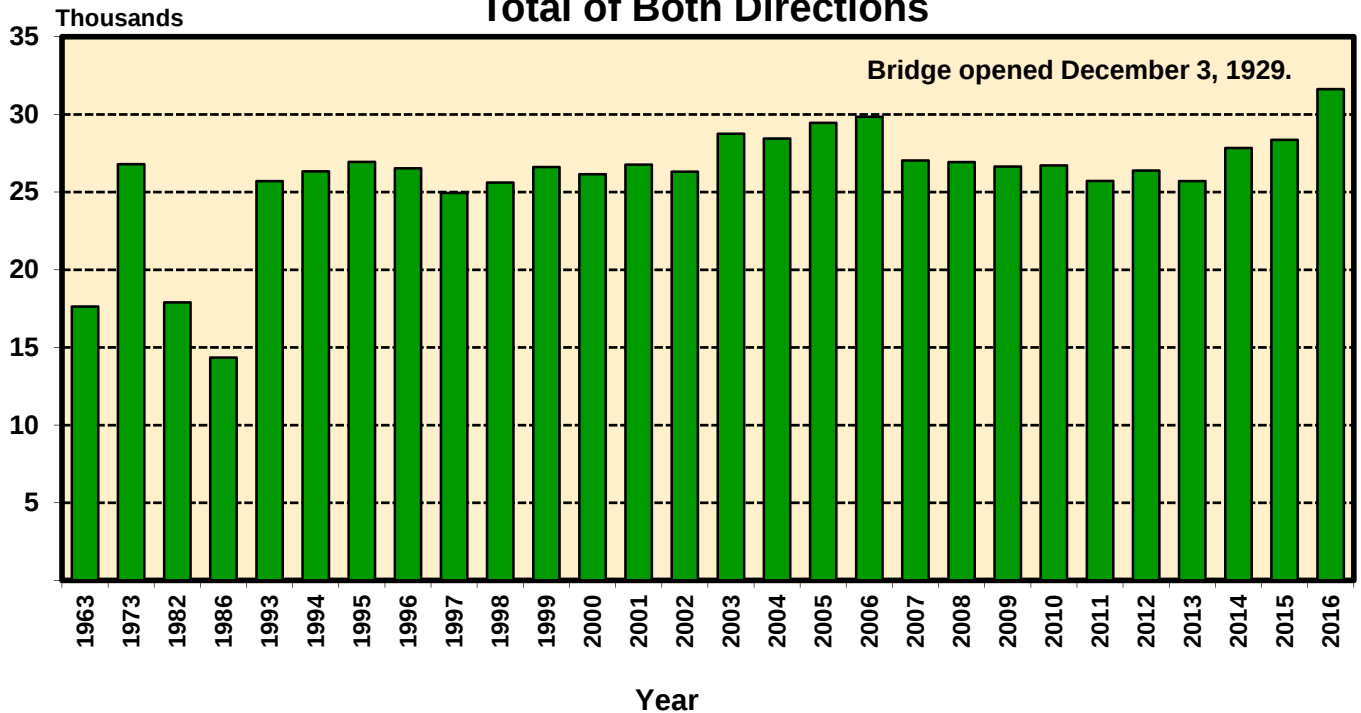


Brooklyn – Queens Screenline Volumes

J.J. Byrne Memorial Bridge (Greenpoint Avenue Bridge)
Hourly Vehicle Volumes ~ 2016

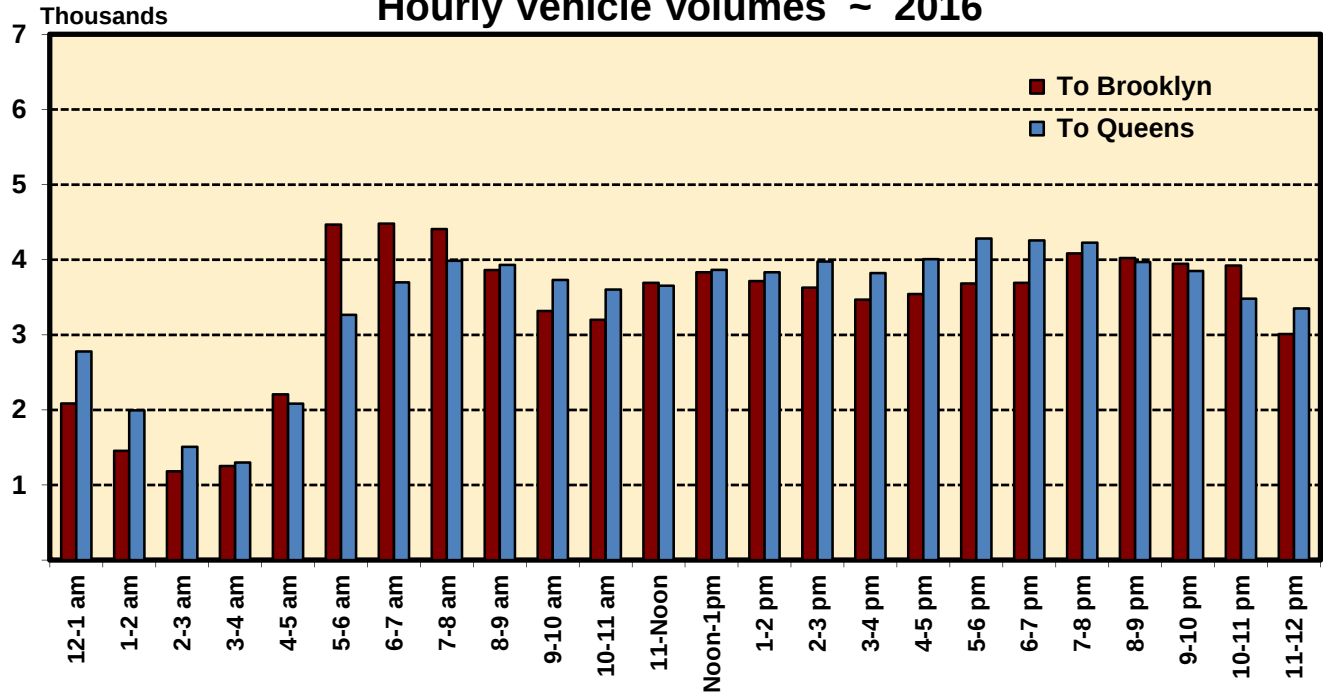


J.J. Byrne Memorial Bridge (Greenpoint Avenue Bridge)
Average Daily Traffic Volumes
Total of Both Directions

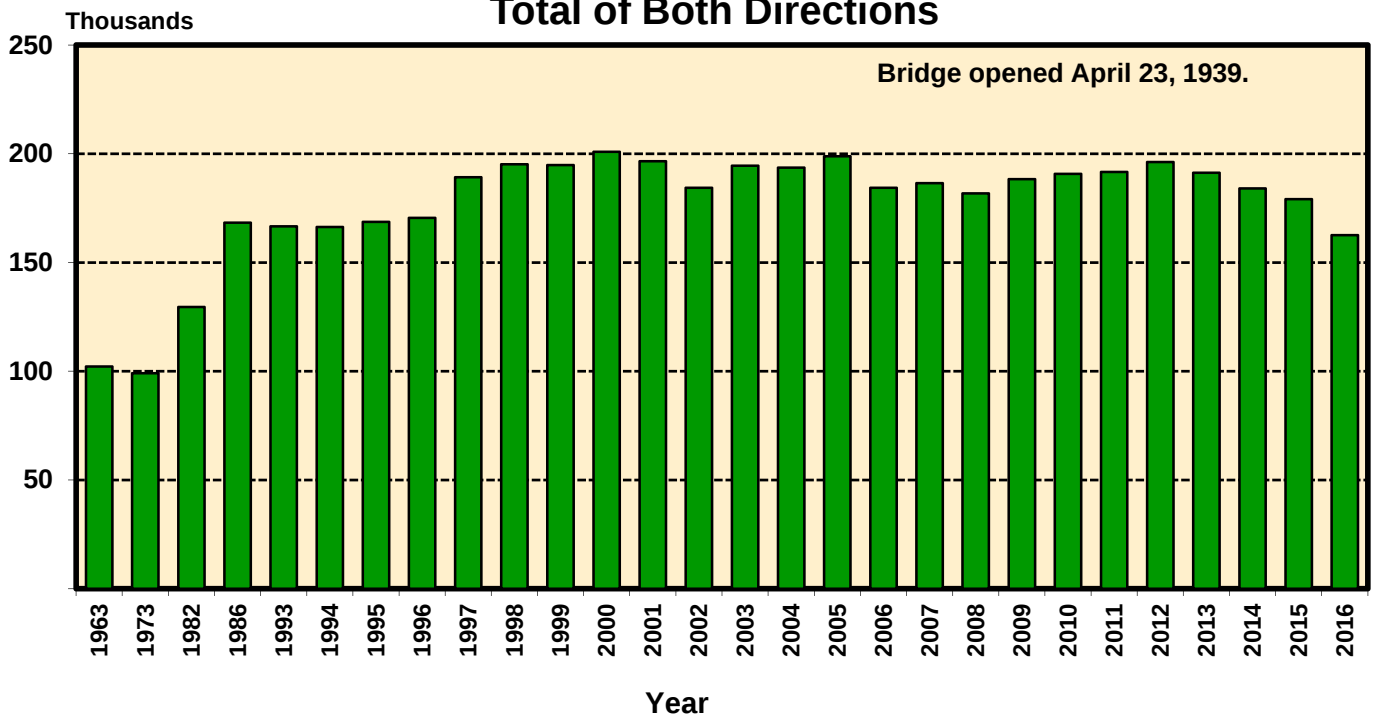


Brooklyn – Queens Screenline Volumes

Kosciuszko Bridge Hourly Vehicle Volumes ~ 2016

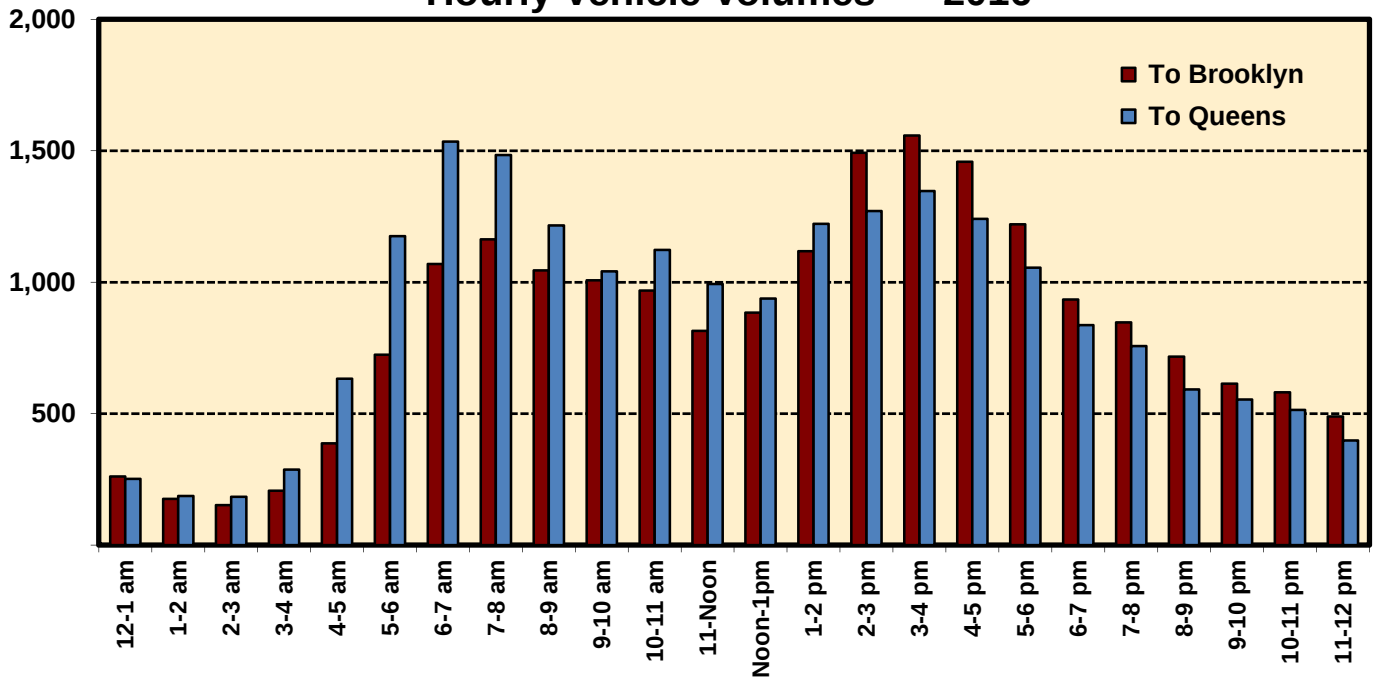


Kosciuszko Bridge Average Daily Traffic Volumes Total of Both Directions

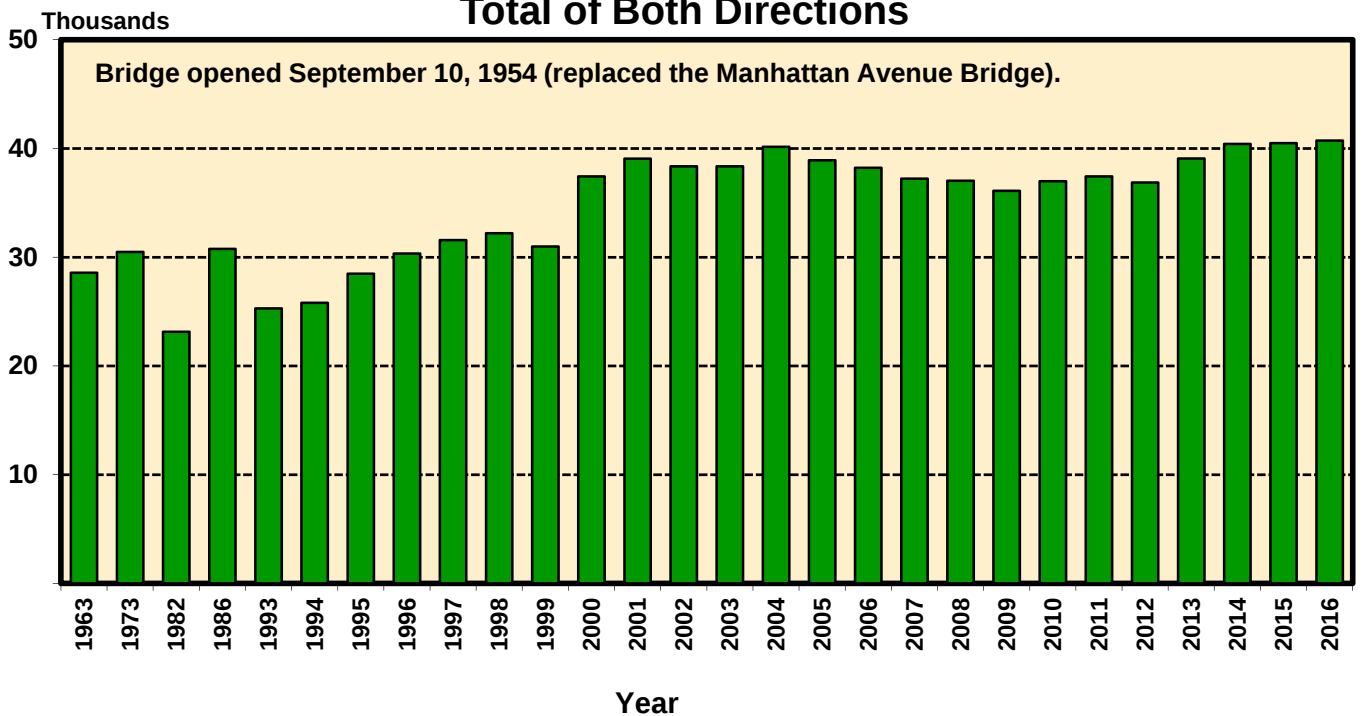


Brooklyn – Queens Screenline Volumes

**Pulaski Bridge
Hourly Vehicle Volumes ~ 2016**

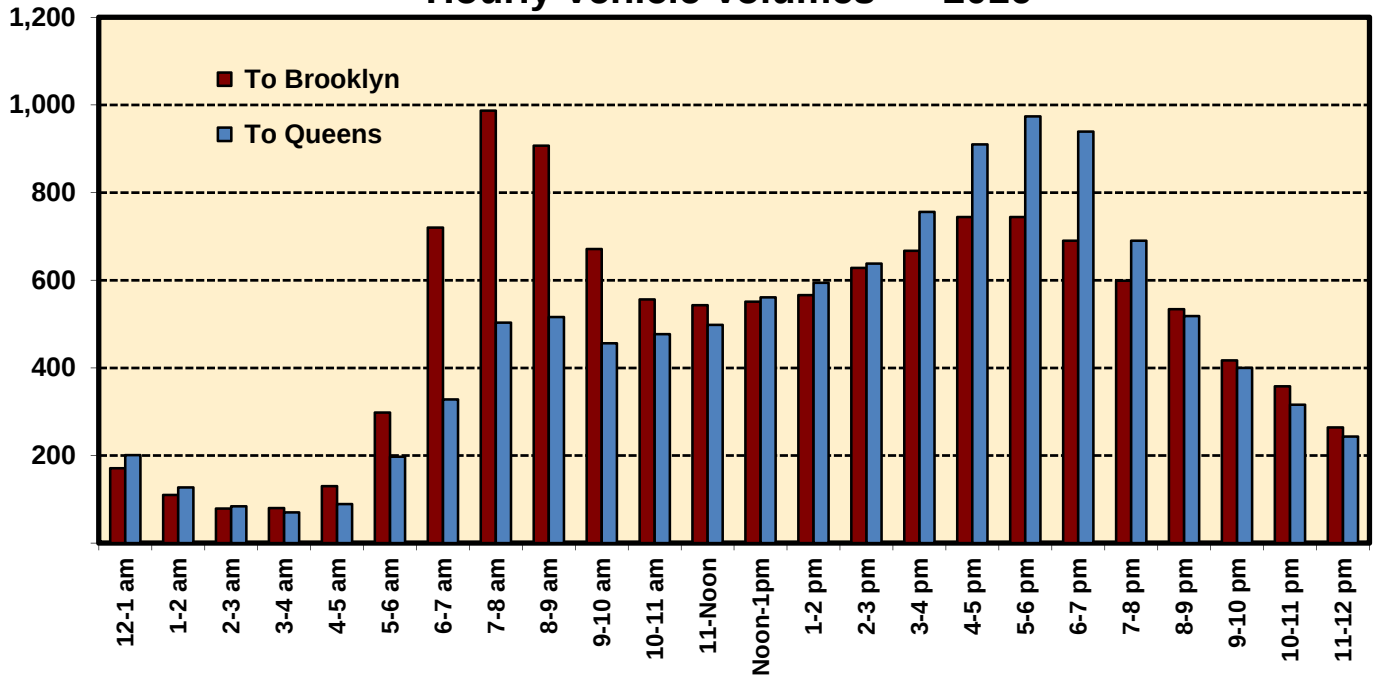


**Pulaski Bridge
Average Daily Traffic Volumes
Total of Both Directions**

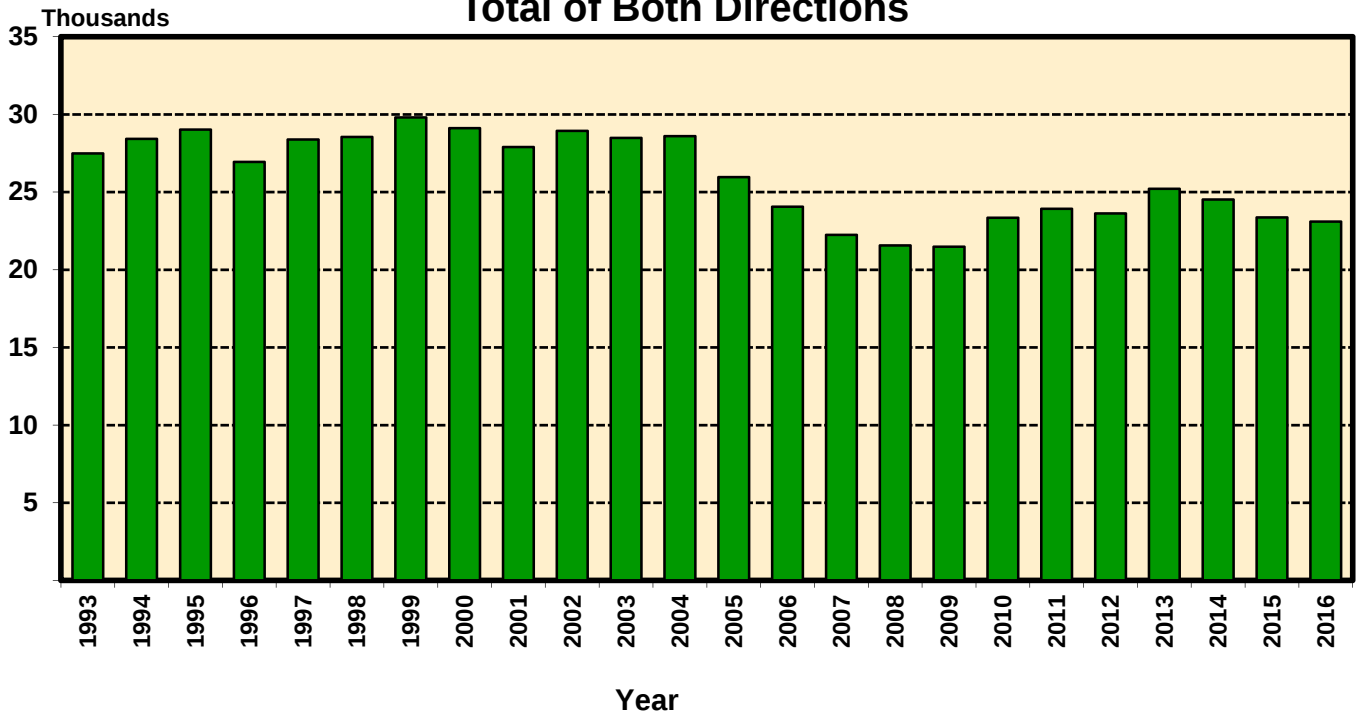


Brooklyn – Queens Screenline Volumes

Atlantic Avenue Hourly Vehicle Volumes ~ 2016

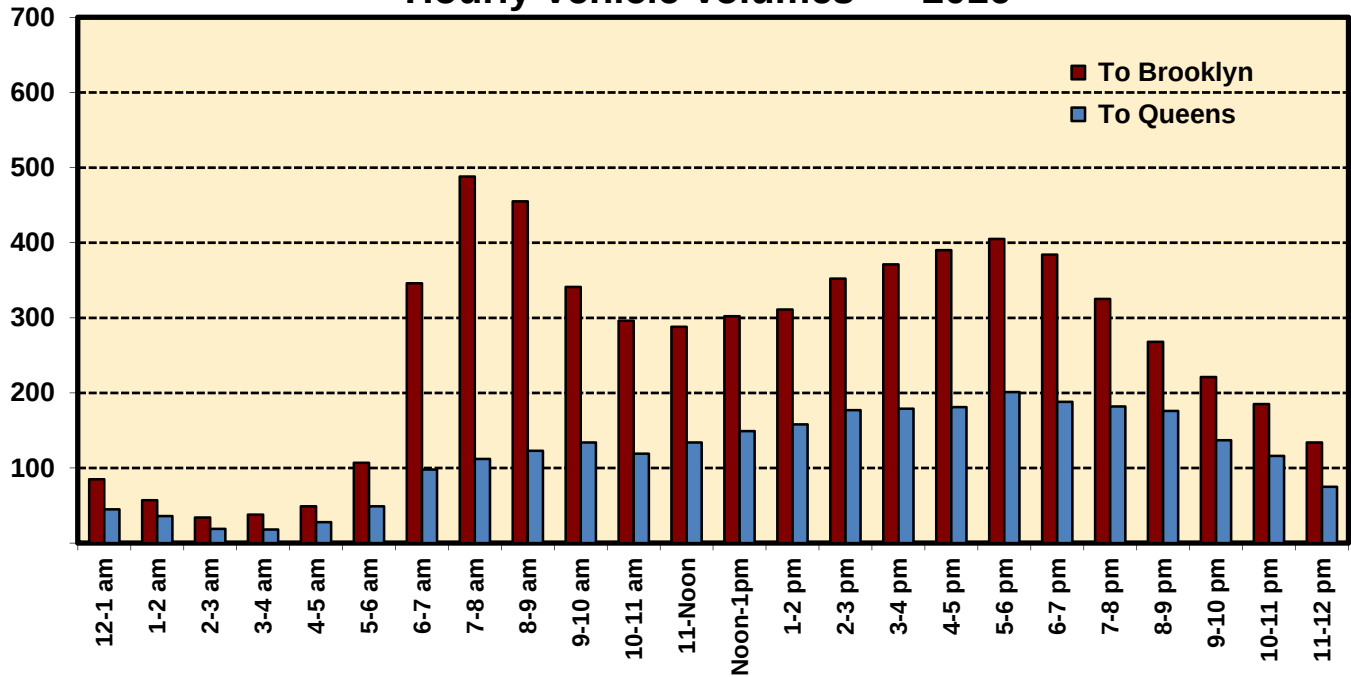


Atlantic Avenue Average Daily Traffic Volumes Total of Both Directions

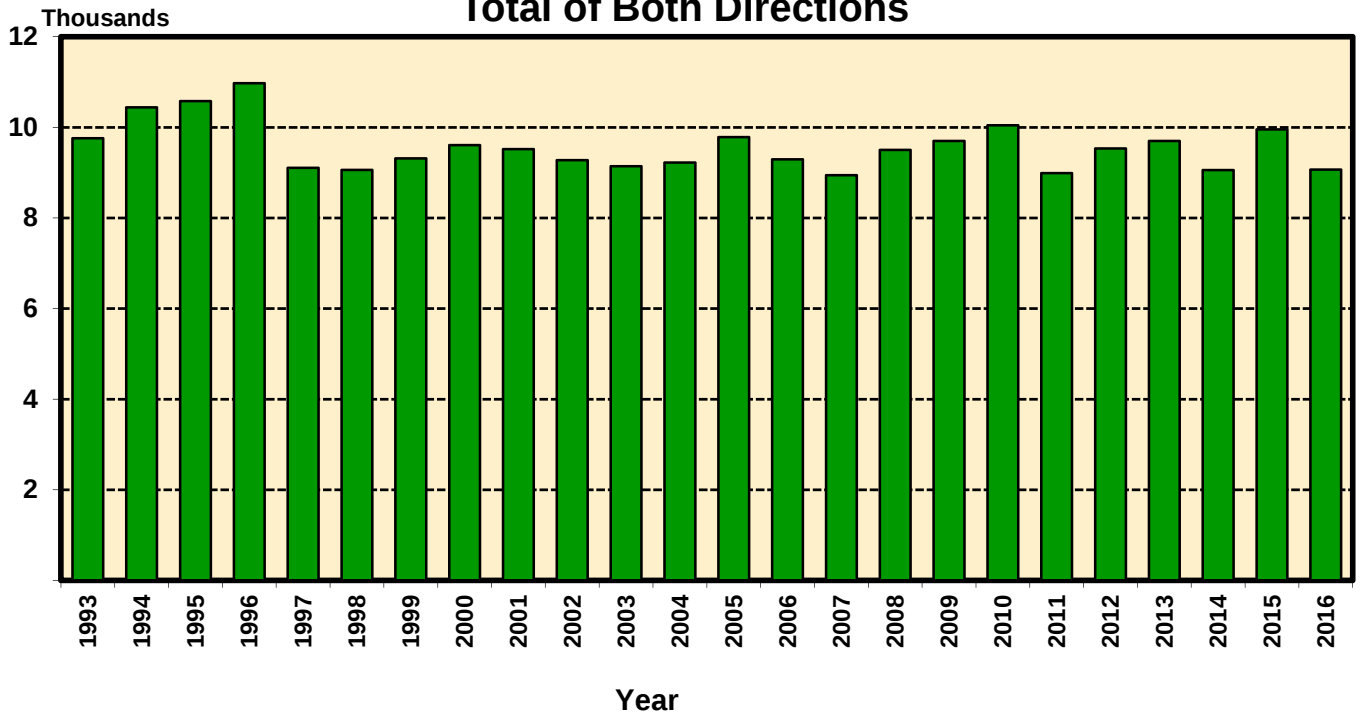


Brooklyn – Queens Screenline Volumes

Cooper Street Hourly Vehicle Volumes ~ 2016

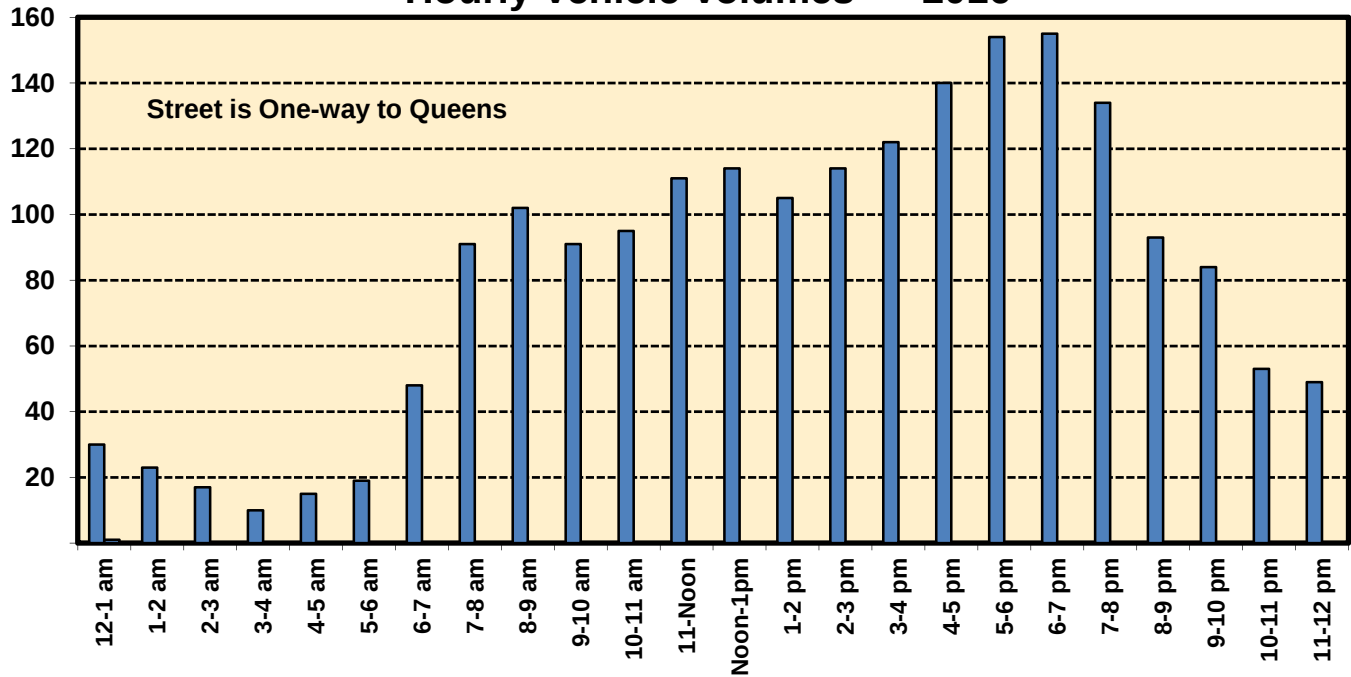


Cooper Street Average Daily Traffic Volumes Total of Both Directions



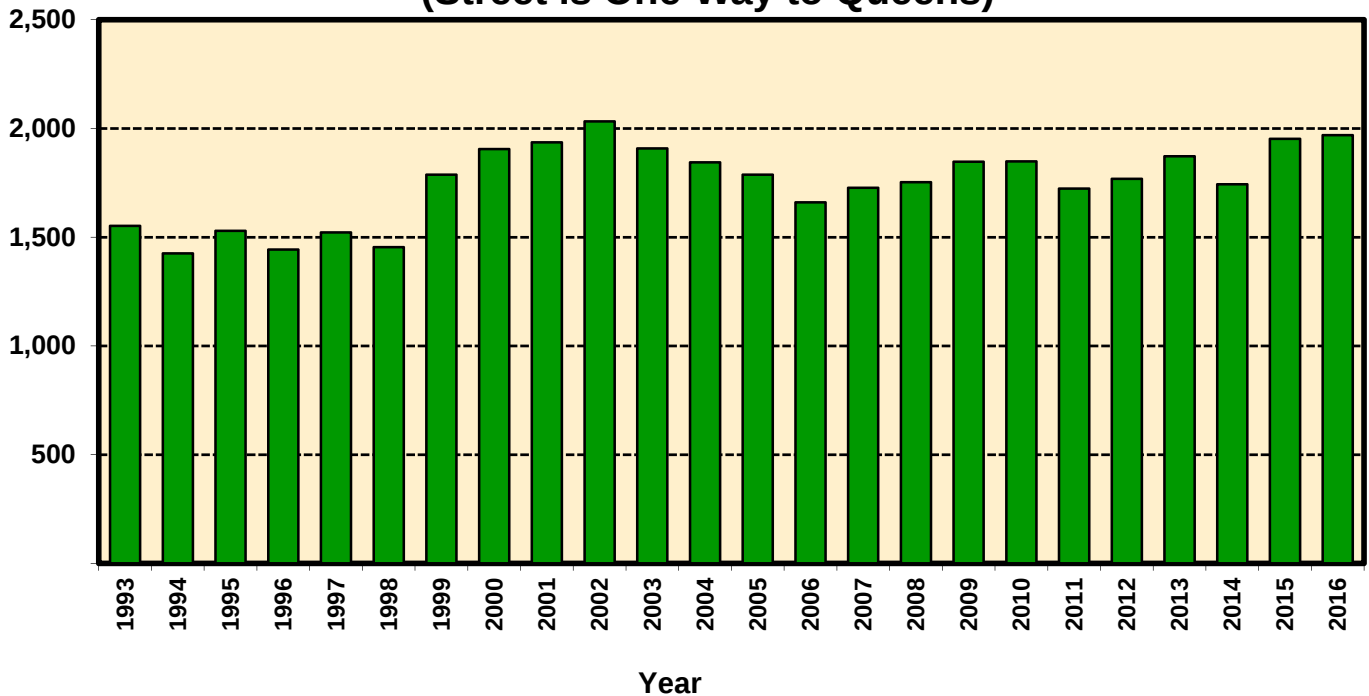
Brooklyn – Queens Screenline Volumes

Cornelia Street Hourly Vehicle Volumes ~ 2016



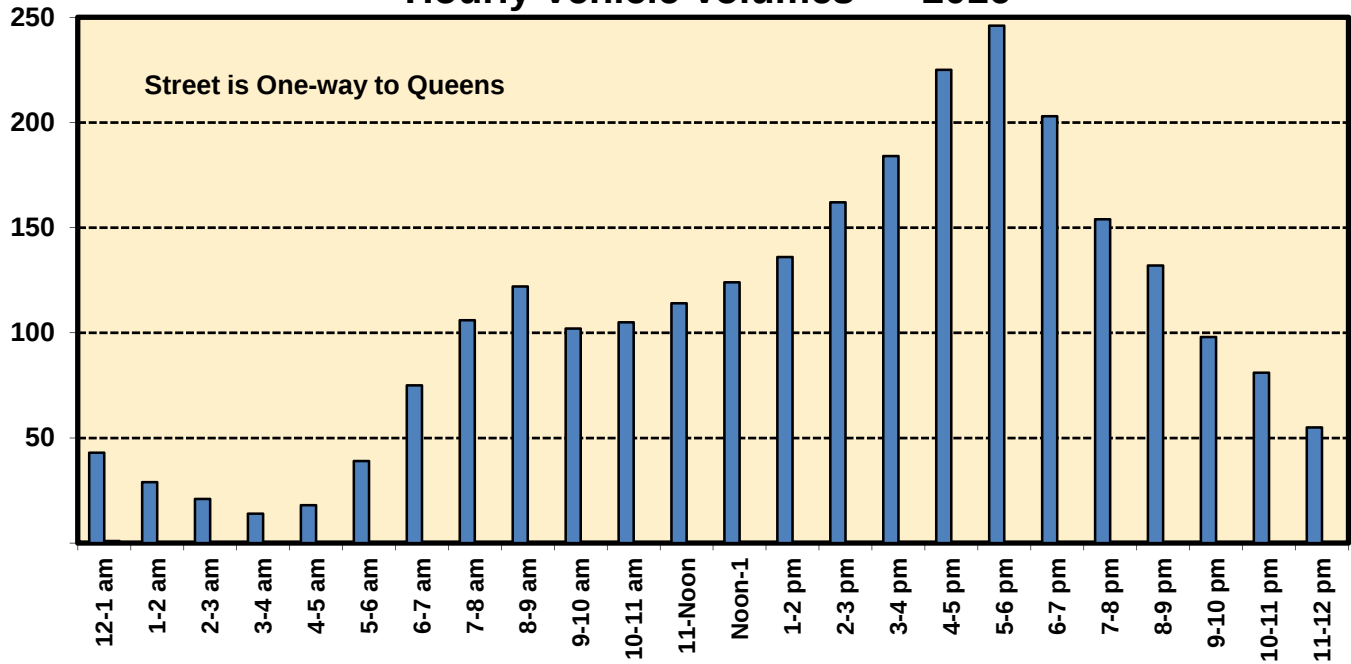
1,952

Cornelia Street Average Daily Traffic Volumes (Street is One-Way to Queens)

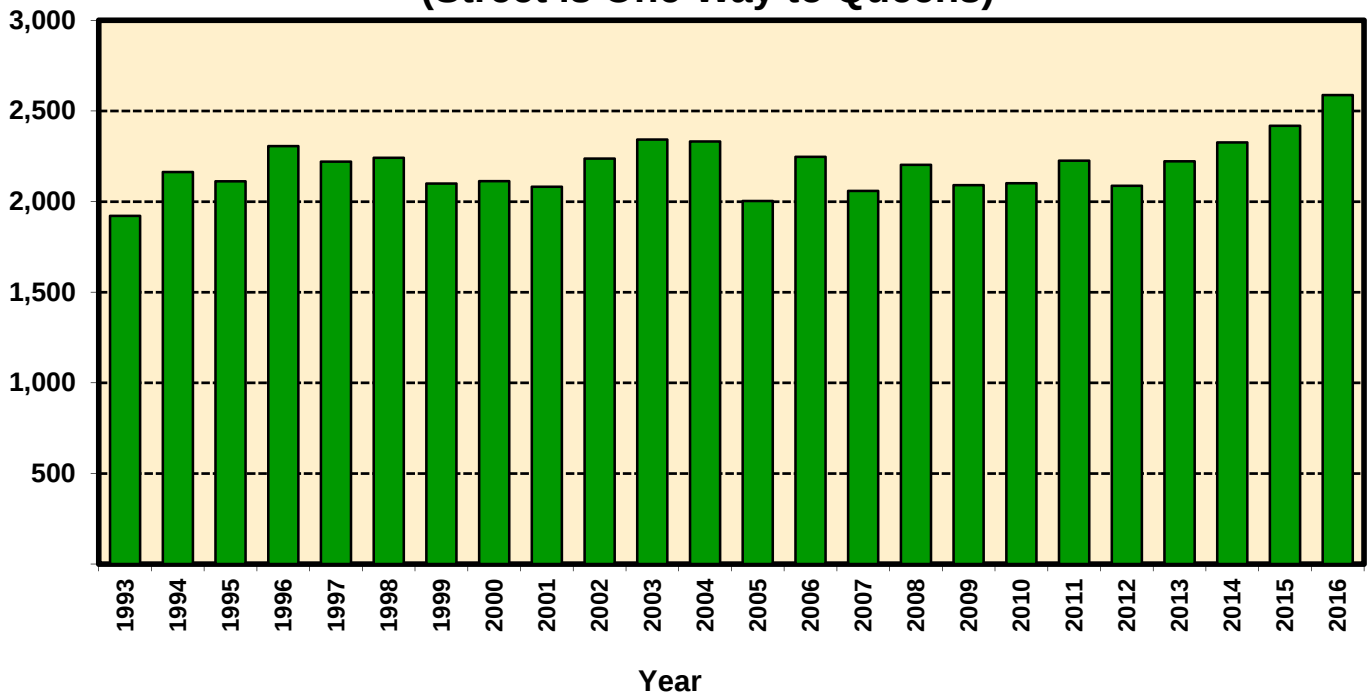


Brooklyn – Queens Screenline Volumes

Decatur Street Hourly Vehicle Volumes ~ 2016

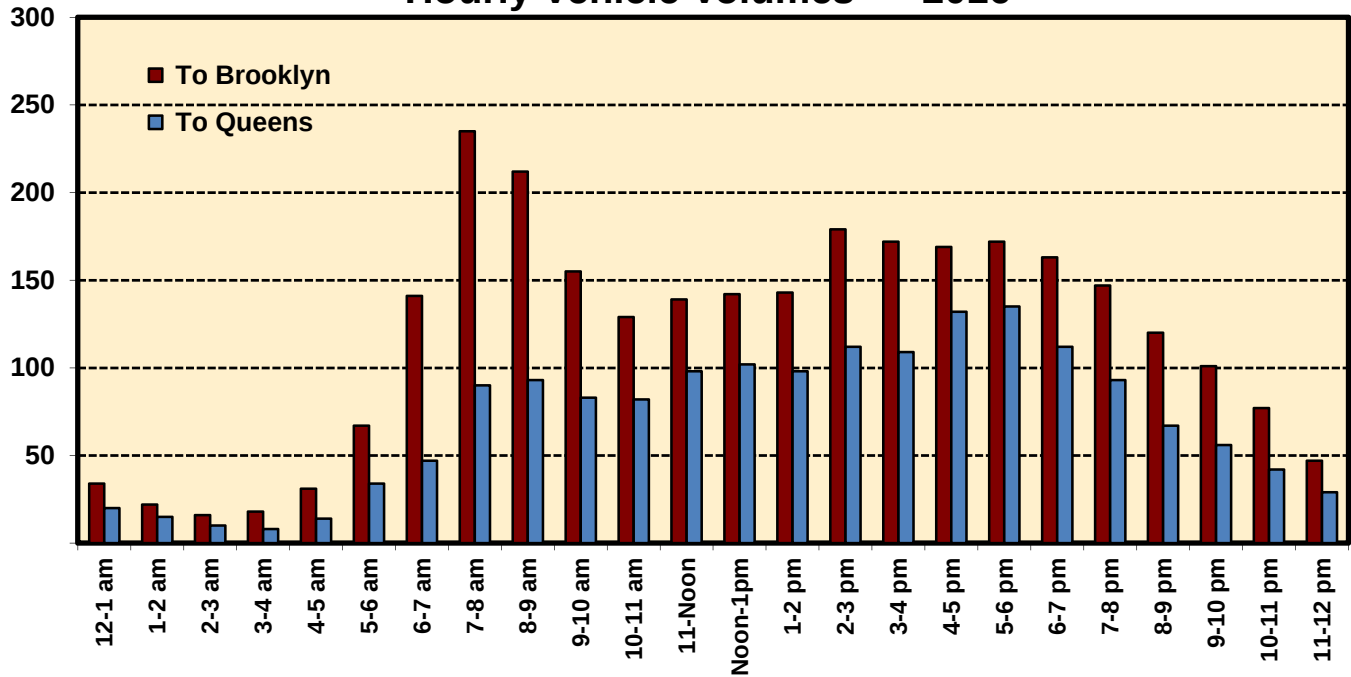


Decatur Street Average Daily Traffic Volumes (Street is One-Way to Queens)

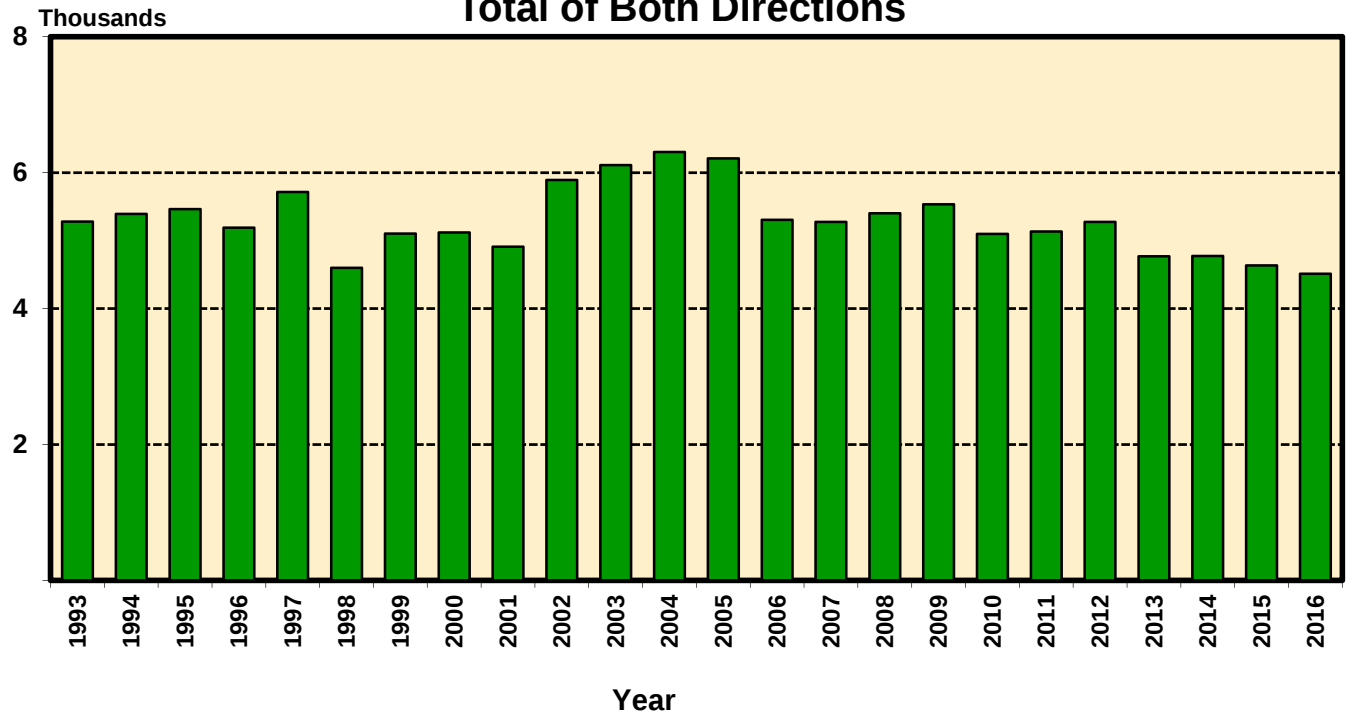


Brooklyn – Queens Screenline Volumes

**DeKalb Avenue
Hourly Vehicle Volumes ~ 2016**

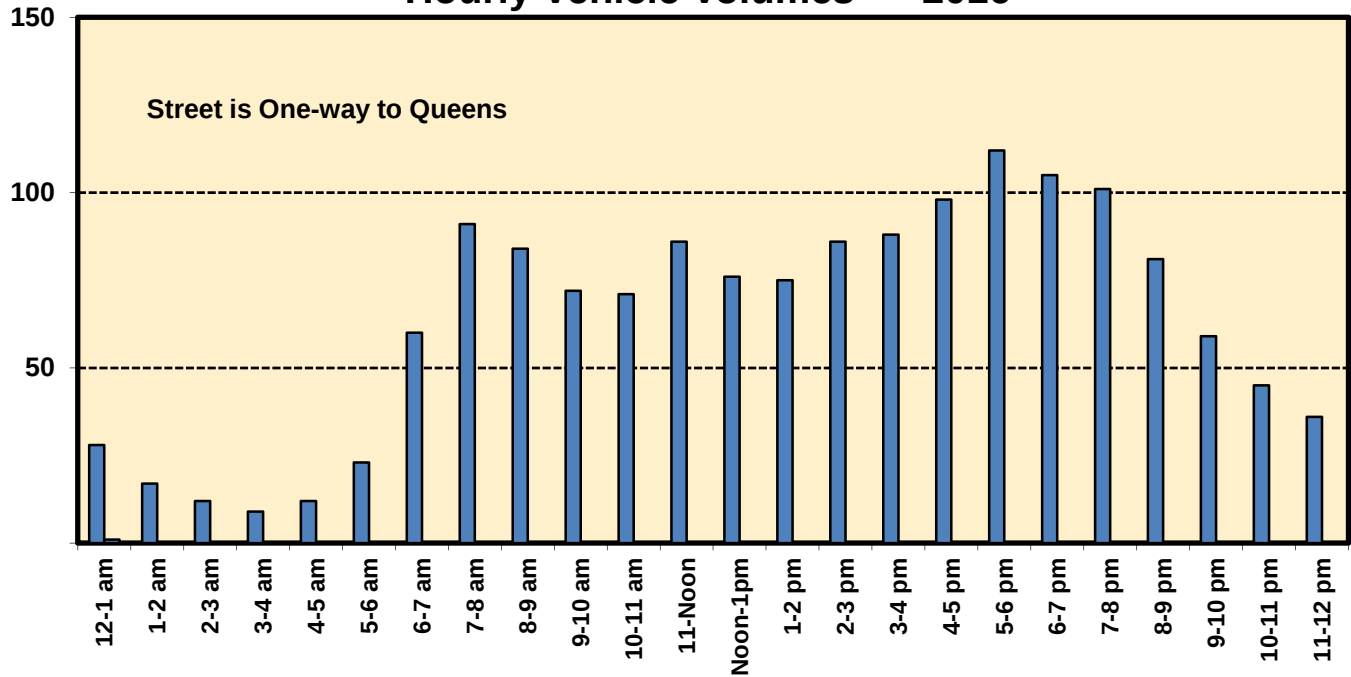


**DeKalb Avenue
Average Daily Traffic Volumes
Total of Both Directions**

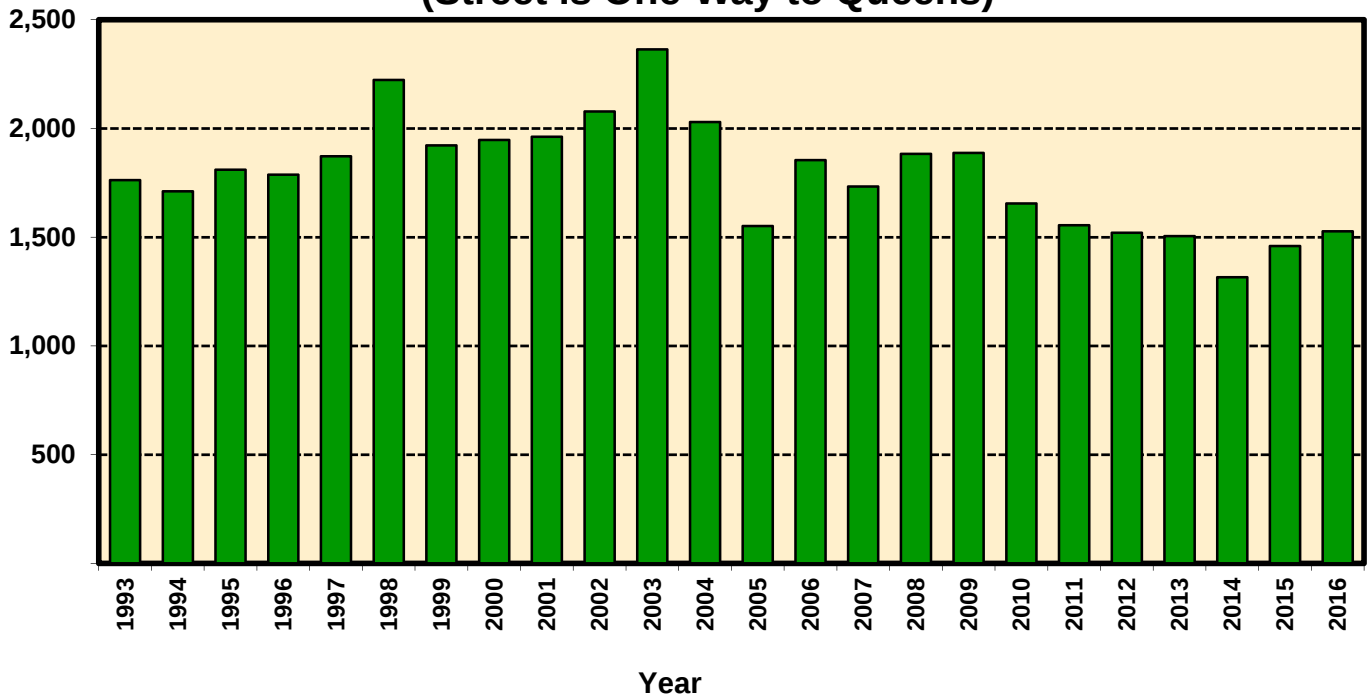


Brooklyn – Queens Screenline Volumes

Greene Avenue Hourly Vehicle Volumes ~ 2016

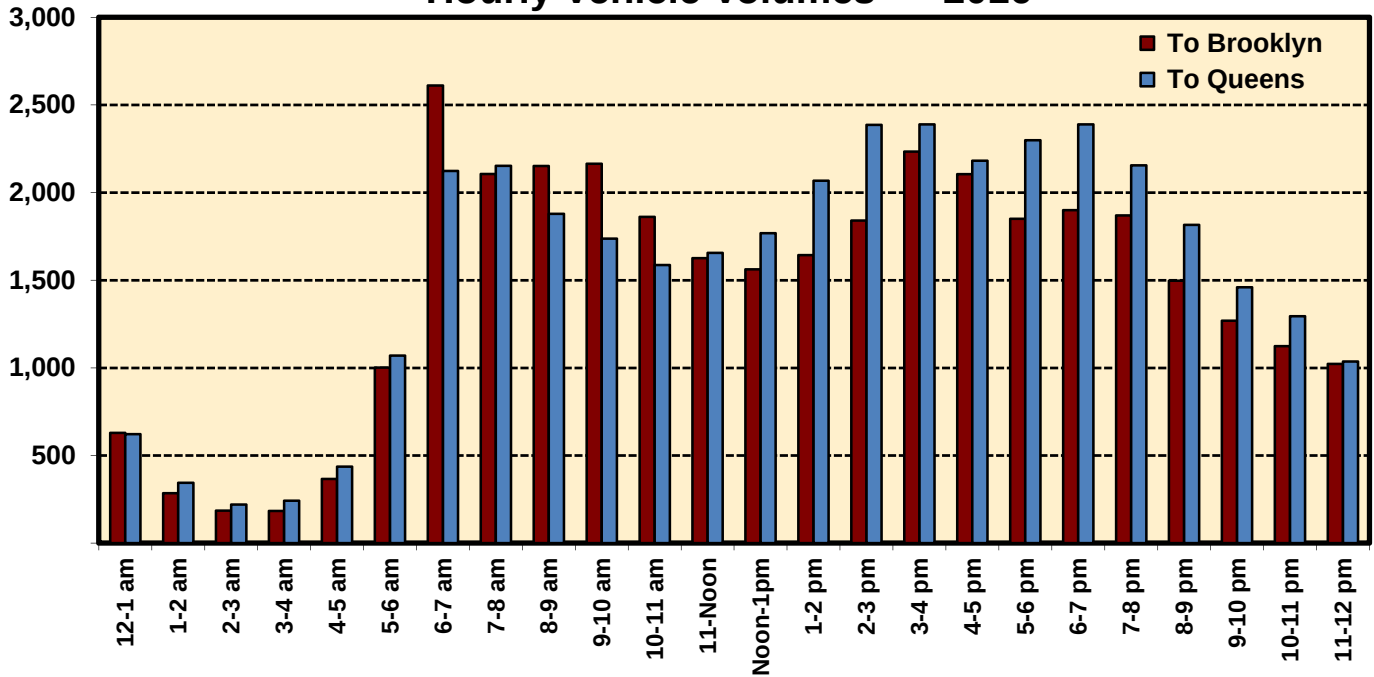


Greene Avenue Average Daily Traffic Volumes (Street is One-Way to Queens)

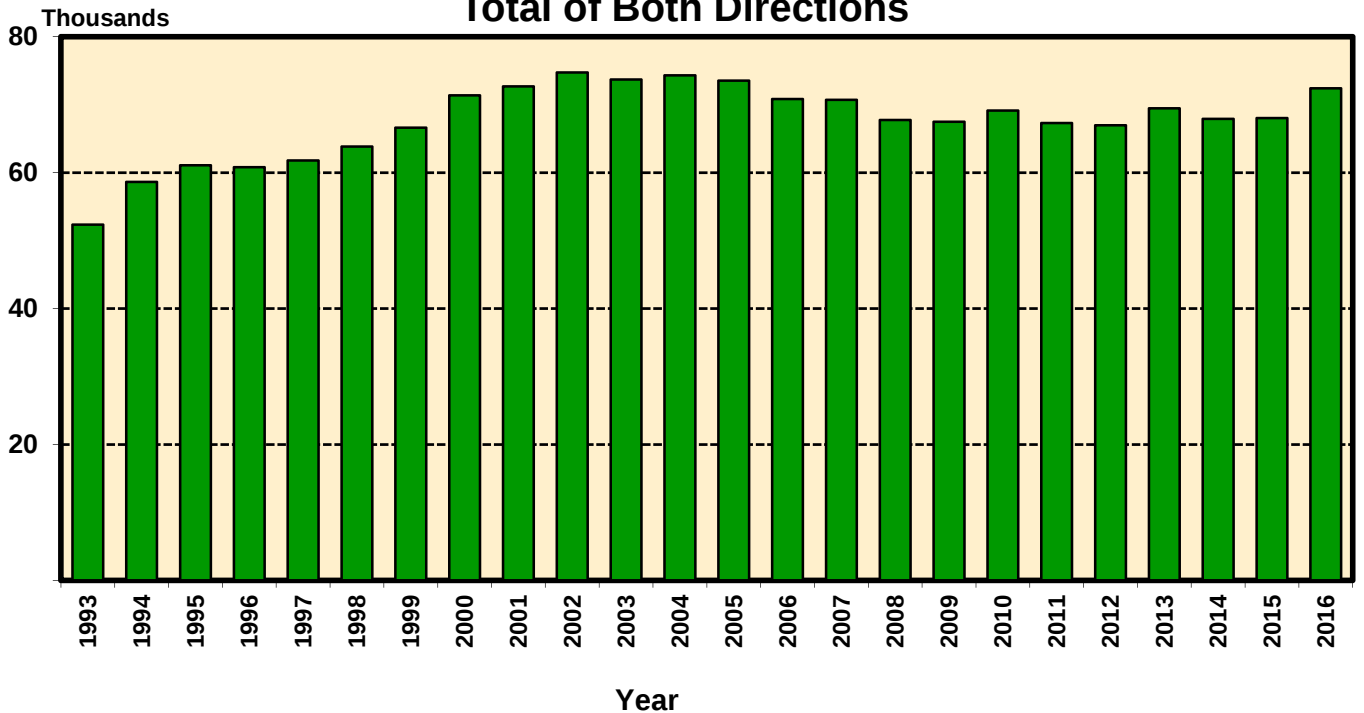


Brooklyn – Queens Screenline Volumes

Jackie Robinson Parkway Hourly Vehicle Volumes ~ 2016

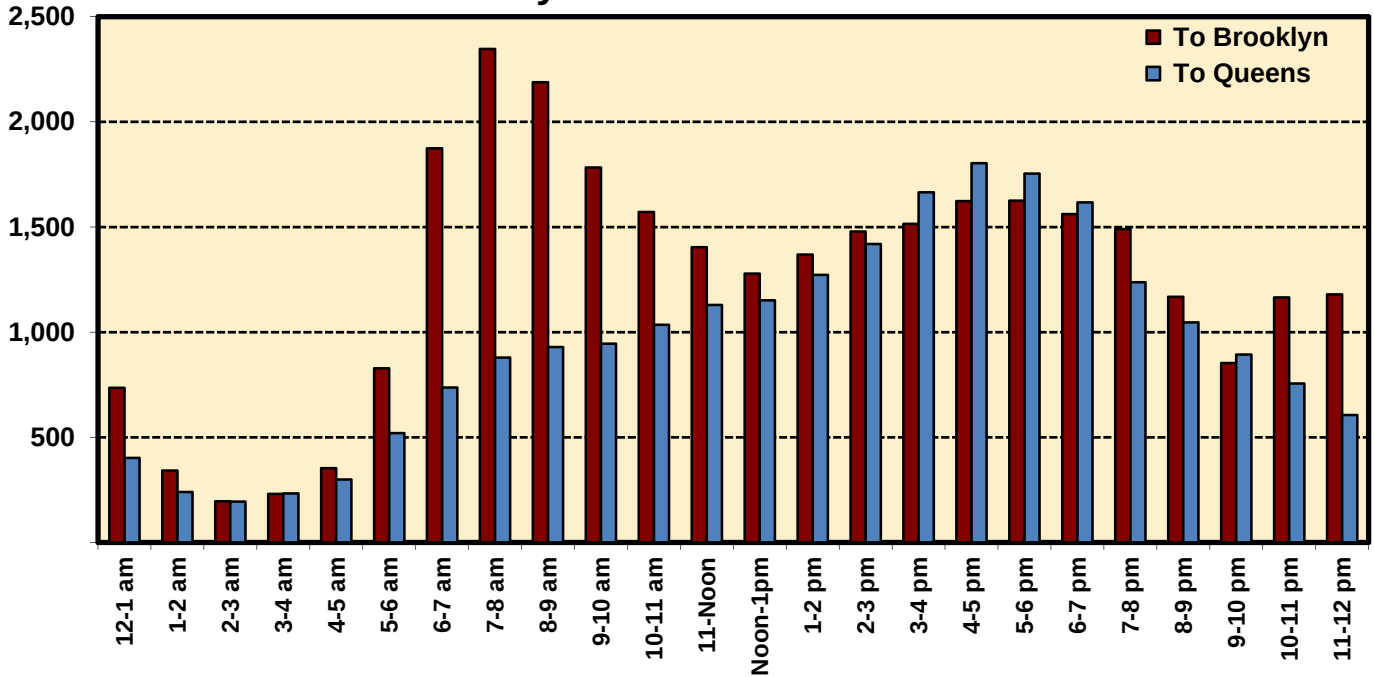


Jackie Robinson Parkway Average Daily Traffic Volumes Total of Both Directions

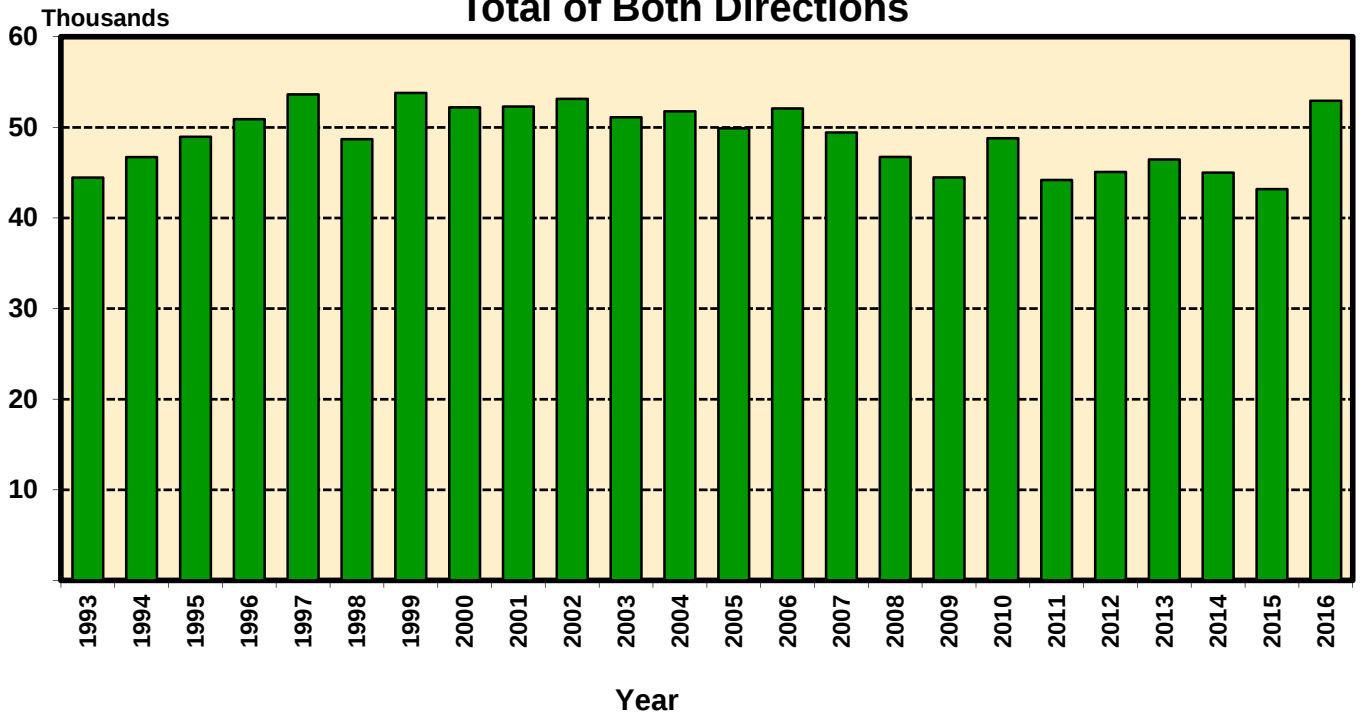


Brooklyn – Queens Screenline Volumes

Linden Boulevard Hourly Vehicle Volumes ~ 2016

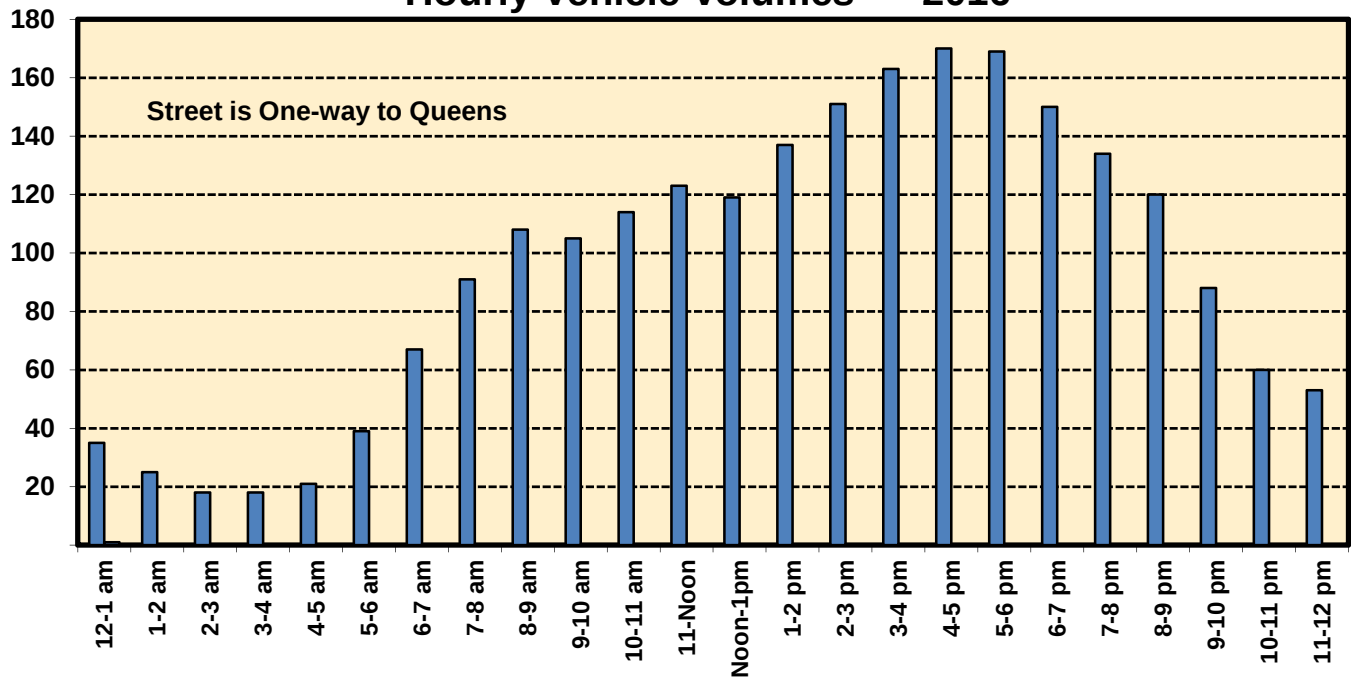


Linden Boulevard Average Daily Traffic Volumes Total of Both Directions

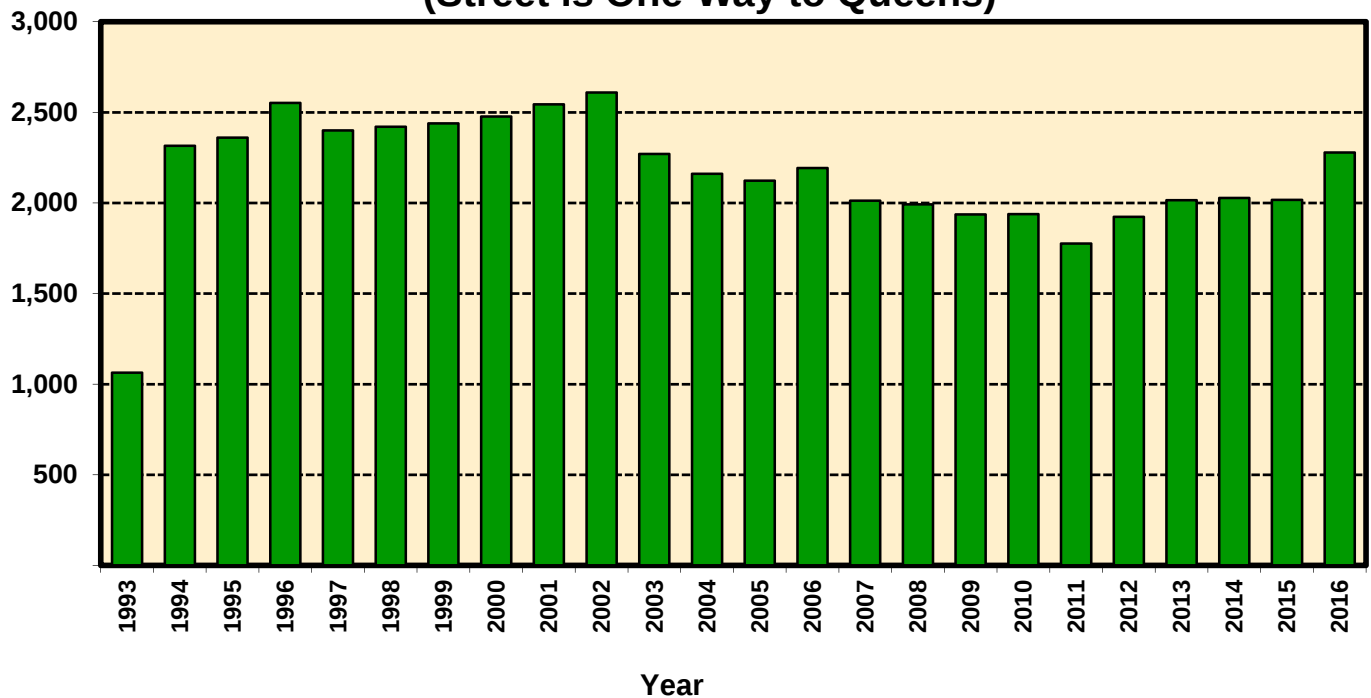


Brooklyn – Queens Screenline Volumes

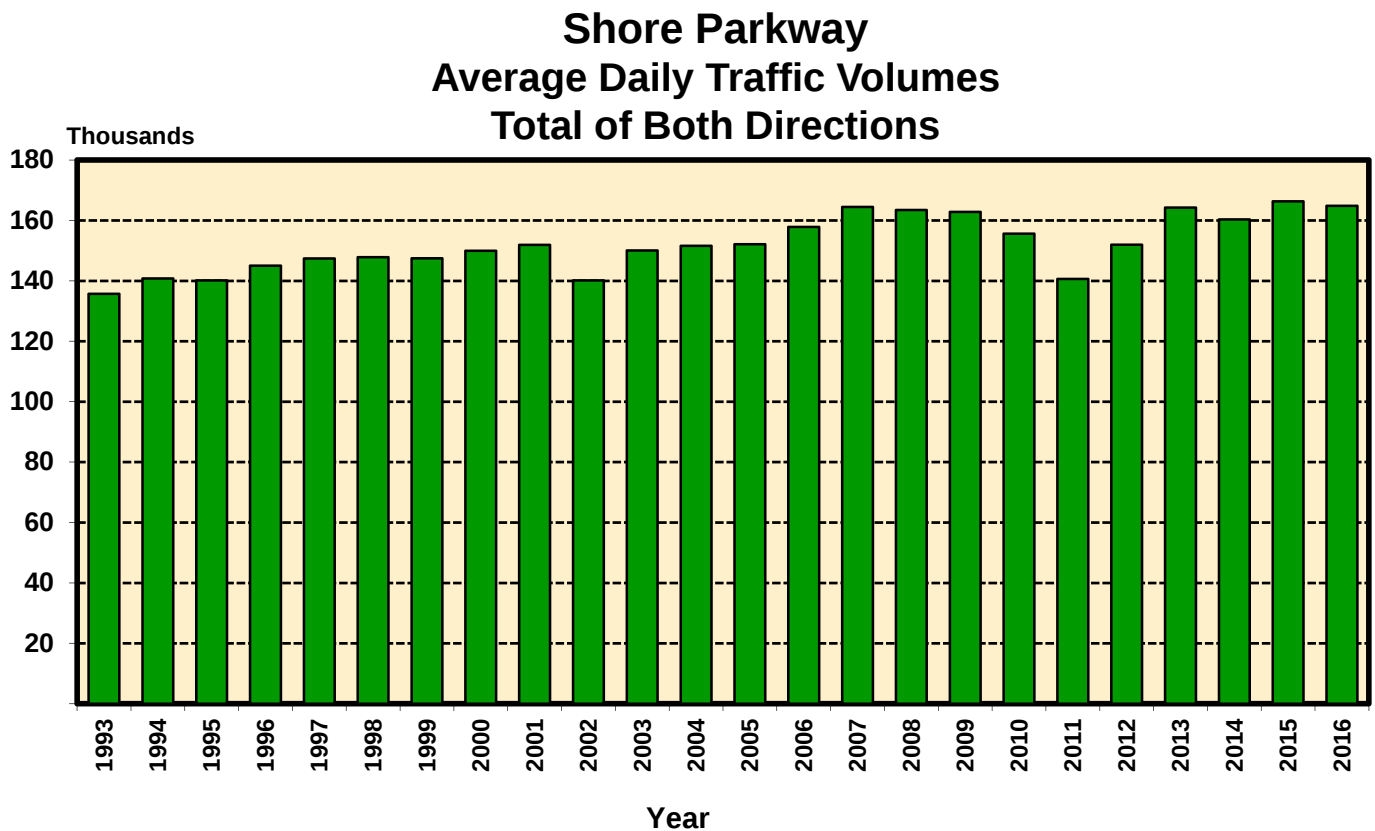
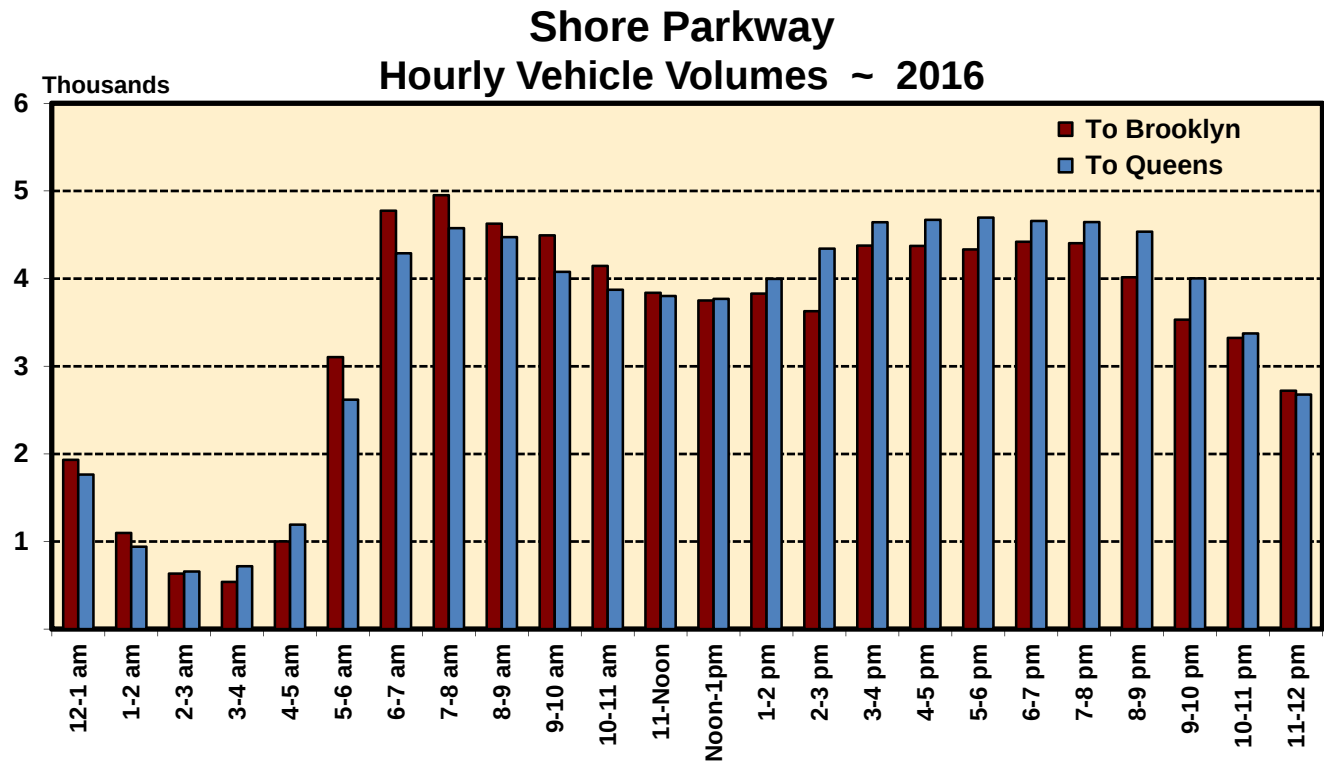
Linden Street Hourly Vehicle Volumes ~ 2016



Linden Street Average Daily Traffic Volumes (Street is One-Way to Queens)

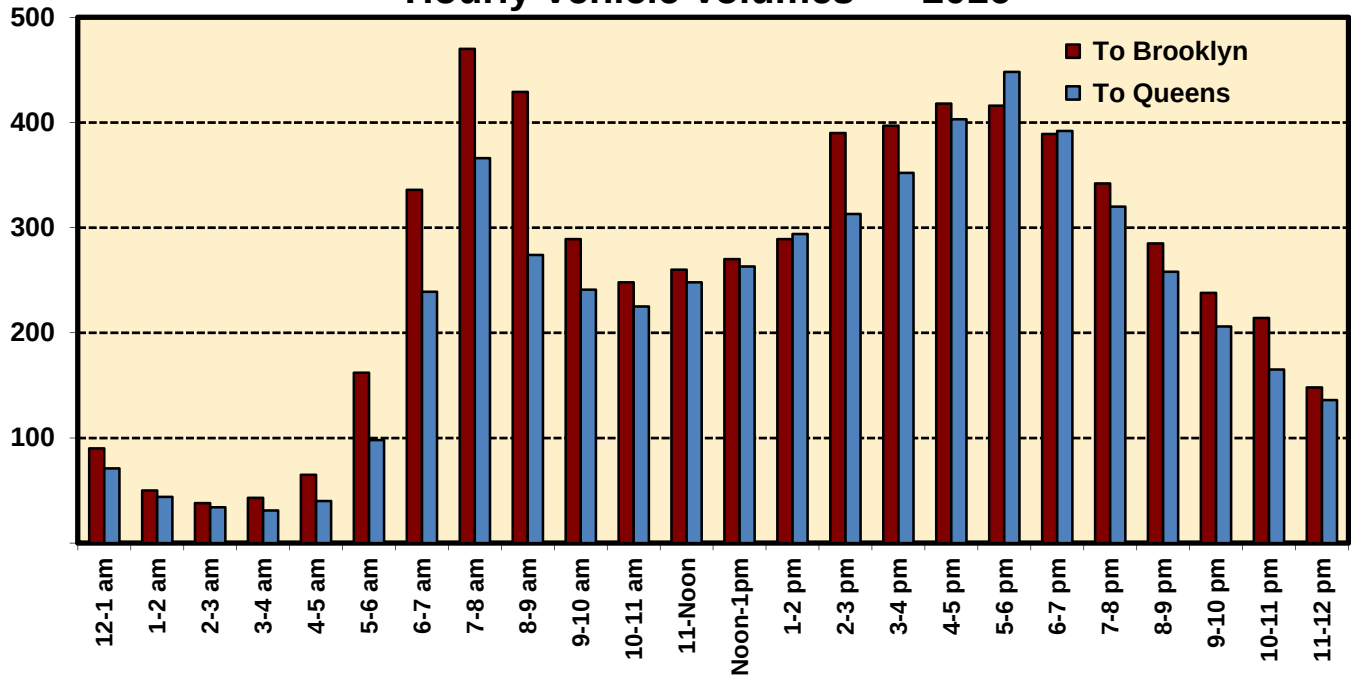


Brooklyn – Queens Screenline Volumes



Brooklyn – Queens Screenline Volumes

Sutter Avenue Hourly Vehicle Volumes ~ 2016



Sutter Avenue Average Daily Traffic Volumes Total of Both Directions

