

2013 New York City Screenline Traffic Flow



Bill de Blasio
Mayor



Polly Trottenberg
Commissioner

A member of the New York Metropolitan Transportation Council

2013 New York City Screenline Traffic Flow

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Prepared by:
New York City Department of Transportation

Polly Trottenberg
Commissioner

Lori A. Ardito
First Deputy Commissioner

Ryan Russo
Deputy Commissioner

Naim Rasheed
Director, Traffic Planning

Ann Marie Doherty
Chief, Research, Implementation & Safety

Richard P. Roan
Research, Implementation & Safety

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2013
NEW YORK CITY
SCREENLINE TRAFFIC FLOW

2,218,422

daily vehicles crossed the 32 monitored City border screenline locations in 2013, 0.1% more than the 2,215,120 daily vehicles recorded in 2012 .

George Washington Bridge

Most heavily-traveled route to & from the City, serving a 2-way total of 277,645 daily vehicles.

6:00am – 10:00am

277,999 vehicles entered New York City from Nassau, Westchester, and New Jersey during the morning rush period.

Queens-Nassau

Highest volumes at the 15 monitored Queens-Nassau border locations: 970,004 daily vehicles in 2013 (43.8% of total monitored traffic at the City borders).



Bronx-Westchester

610,332 daily vehicles crossed the 11 monitored Bronx-Westchester border locations (27.5% of the total monitored traffic at the City borders).

Staten Island-New Jersey

158,267 daily vehicles traveled between Staten Island and New Jersey (7.1%).

Manhattan-New Jersey

479,819 daily vehicles crossed the Hudson River between Manhattan and New Jersey (21.6%).

Brooklyn-Queens

607,807 daily vehicles traveled between Brooklyn and Queens in 2013.

Major Deegan Expressway
at the Bronx-Westchester screenline.



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Introduction



**Merrick Boulevard
at the Queens-Nassau Screenline
(Looking West)**

INTRODUCTION

The 2013 *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 2013 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 1993-2012. The statistical analysis presented in the report was performed by staff of NYCDOT during the 2013–2014 and 2014–2015 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.

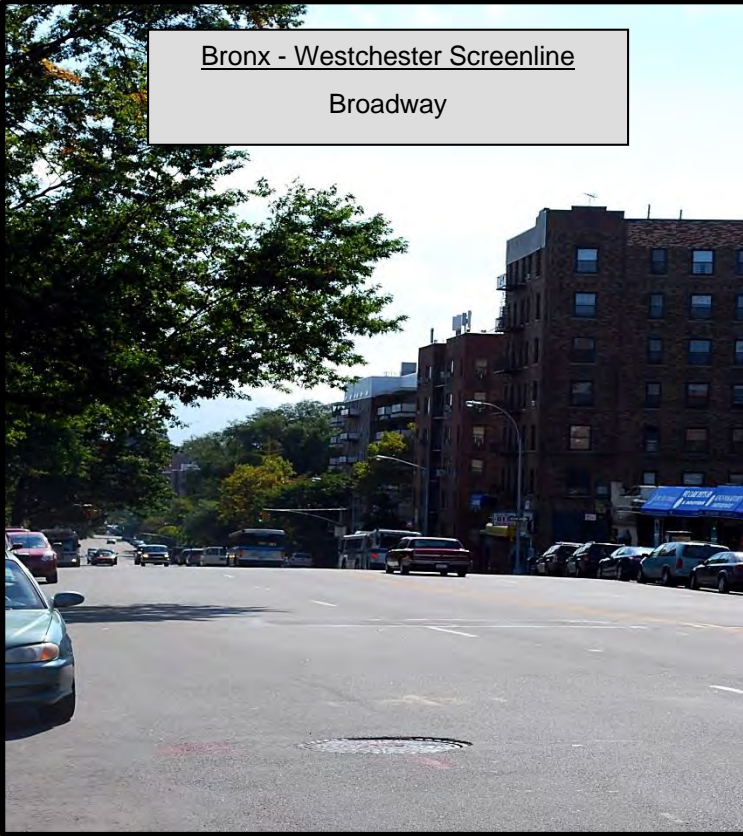
The five functional classifications are defined as follows:

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.

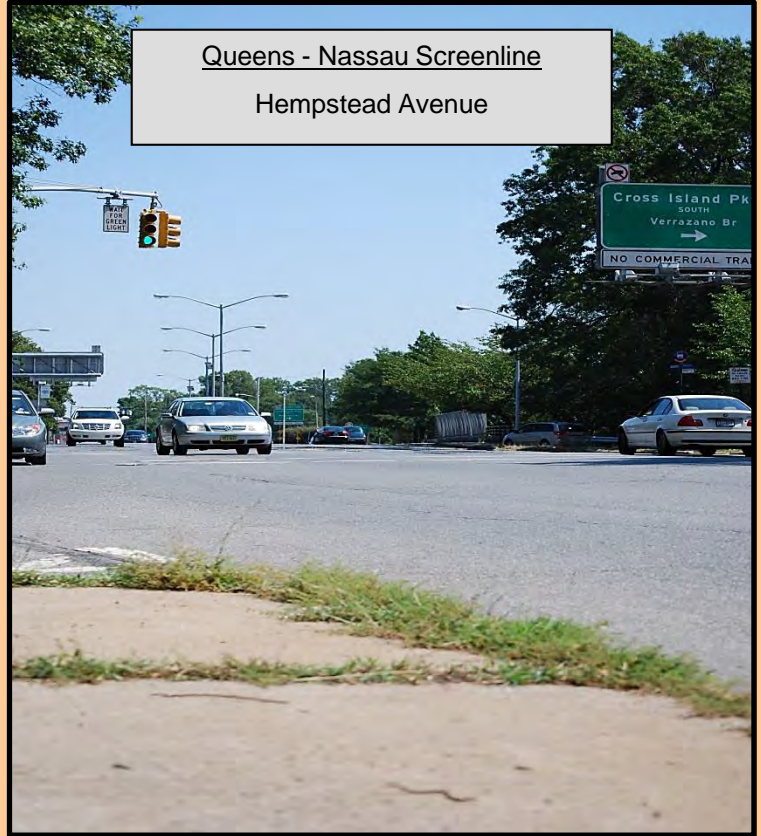
Note: NYCDOT uses the averages of vehicular volumes from selected representative weekdays. Publications from other sources may be based on alternative computation methodologies for some facilities, notably the tolled bridges and tunnels, possibly yielding different results for those facilities.

Summary

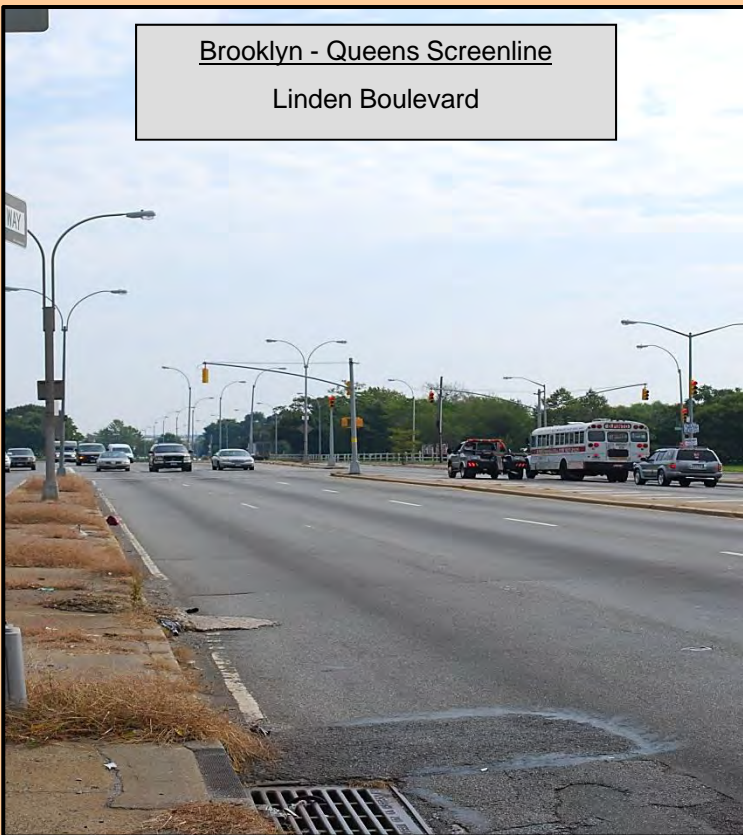
Bronx - Westchester Screenline
Broadway



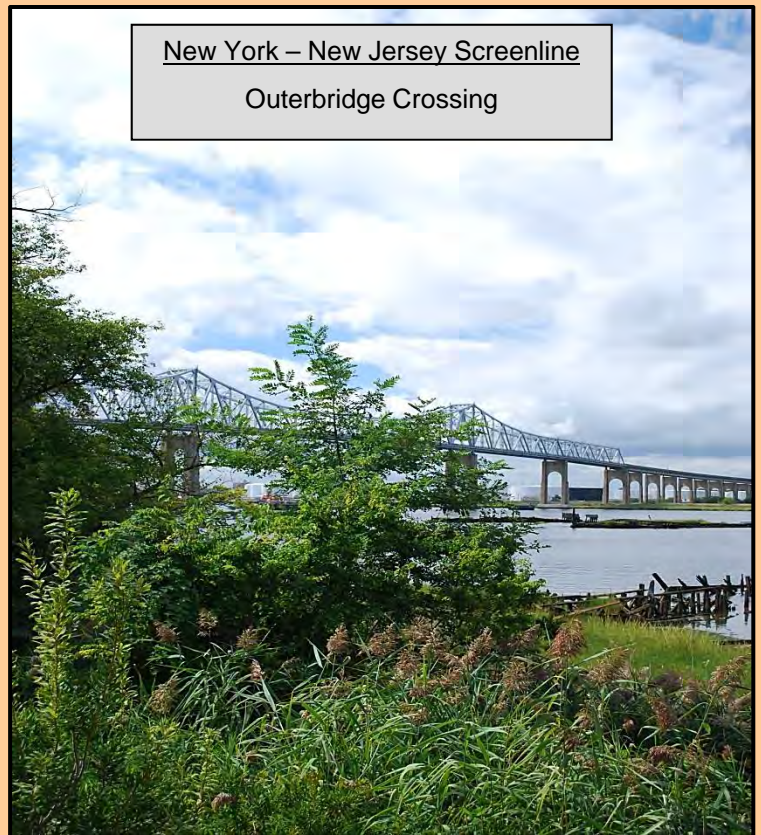
Queens - Nassau Screenline
Hempstead Avenue



Brooklyn - Queens Screenline
Linden Boulevard



New York – New Jersey Screenline
Outerbridge Crossing



SUMMARY

2013 Daily Traffic

- 2,218,422 motor vehicles crossed the 32 New York City border screenline monitoring locations on a typical weekday in 2013, an increase of 0.1% from the 2,215,120 daily vehicles recorded in 2012.
 - 43.8% of recorded vehicles were at the Queens–Nassau border (970,004 daily vehicles).
 - 27.5% at the Bronx–Westchester border (610,332 daily vehicles).
 - 21.6% at the three Manhattan–New Jersey river crossings operated by the Port Authority of New York and New Jersey (479,819 daily vehicles).
 - 7.1% at the three Port Authority Staten Island–New Jersey bridges (158,267 daily vehicles).
- During the 7-8 am inbound morning peak hour, 75,551 vehicles entered the City limits from Nassau, Westchester, and New Jersey. Between 6-10 am, a total of 277,999 vehicles entered the City.
- During the 4-5 pm outbound evening peak hour, 75,454 vehicles left the City. Between 3-7 pm, 296,853 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 8 pm.

Bronx - Westchester

- On a typical 2013 weekday, 610,332 vehicles crossed the eleven Bronx-Westchester screenline monitoring locations, 0.9% more than the 604,637 daily vehicles recorded in 2012.
- 87.4% of the recorded vehicles (533,392 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: 134,597 daily vehicles, 22.1% of the Bronx-Westchester screenline total.
 - 121,537 on the Major Deegan Expressway and service roads, 19.9%.
 - 96,196 on the Henry Hudson Parkway, 15.8%.
 - 92,925 on the Bronx River Parkway, 15.2%.
 - 88,137 on the Hutchinson River Parkway, 14.4%.
- Boston Road is the busiest principal arterial monitored, with 22,518 vehicles per day, 3.7% of the screenline total.

- During the 7-8 am inbound morning peak hour, 23,187 vehicles entered The Bronx from Westchester, with 89.5% (20,760 vehicles) using the five limited access facilities according to the following breakdown.
 - 5,019 on the Henry Hudson Parkway.
 - 4,544 on the Major Deegan Expressway and its service road.
 - 3,665 on the New England Thruway.
 - 3,343 on the Hutchinson River Parkway.
 - 4,189 on the Bronx River Parkway.
- Between 6-10 am, 79,500 vehicles entered The Bronx, with 89.5% (71,122 vehicles) using the five limited access facilities as follows.
 - 15,909 on the Major Deegan Expressway and its service road.
 - 16,319 on the Henry Hudson Parkway.
 - 13,546 on the New England Thruway.
 - 13,666 on the Bronx River Parkway.
 - 11,682 on the Hutchinson River Parkway.
- During the 5-6 pm outbound evening peak hour, 21,569 vehicles crossed from The Bronx into Westchester. A total of 18,831 (87.3% of the total) used the five limited access highways as follows.
 - 4,773 on the Major Deegan Expressway and its service road.
 - 3,772 on the Henry Hudson Parkway.
 - 3,922 on the Bronx River Parkway.
 - 3,761 on the New England Thruway.
 - 2,603 on the Hutchinson River Parkway.
- Between 3-7 pm, 83,885 vehicles left The Bronx, with 73,319 (87.4%) using the five limited access facilities as follows.
 - 18,614 on the Major Deegan Expressway and its service road.
 - 14,859 on the New England Thruway.
 - 13,984 on the Henry Hudson Parkway.
 - 15,381 on the Bronx River Parkway.
 - 10,481 on the Hutchinson River Parkway.
 - Heavy Reverse Traffic 3-7 pm: 76,246 vehicles inbound to The Bronx, 83,885 outbound to Westchester.

Queens - Nassau

- A total of 970,004 motor vehicles crossed the fifteen Queens-Nassau screenline monitoring locations on a typical 2013 weekday, 0.6% more than the 964,220 daily vehicles recorded in 2012.

- The three limited access highways that cross the screenline accommodated more than half (57.7%) of the recorded vehicles (559,366 per day).
 - 231,438 on the Long Island Expressway and its service roads (23.9%).
 - 169,411 on the Laurelton Parkway (17.5%).
 - 158,517 on the Grand Central Parkway and its service road (16.3%).
- Busiest Queens-Nassau Screenline arterials:
 - Rockaway Boulevard, 77,868 vehicles per day.
 - Sunrise Highway/South Conduit Avenue, 66,837 vehicles per day.
 - Hempstead Avenue, 42,994 vehicles per day.
 - Northern Boulevard, 41,328 vehicles per day.
- During the 7-8 am inbound morning peak hour, 30,245 vehicles entered Queens from Nassau. A total of 16,991 of those vehicles (56.2% of the total) were on the three limited access facilities.
 - 6,993 on the Long Island Expressway and service road.
 - 4,978 on the Laurelton Parkway.
 - 5,020 on the Grand Central Parkway and service road.
- Between 8-9 am, 31,235 vehicles entered Nassau from Queens, including 18,283 (58.5% of the total) using the three limited access facilities.
 - 7,137 on the Long Island Expressway and service road.
 - 6,323 on the Grand Central Parkway and service road.
 - 4,823 on the Laurelton Parkway.
- During the 6-10 am rush period, 112,452 vehicles entered Queens from Nassau, and 107,623 entered Nassau from Queens. The three limited access facilities served 65,459 of these Queens-bound vehicles, and 64,658 of the Nassau-bound vehicles.
 - Long Island Expressway and service roads: 26,432 to Queens; 25,799 to Nassau.
 - Laurelton Parkway: 19,620 to Queens; 17,415 to Nassau.
 - Grand Central Parkway and its service road: 19,407 to Queens; 21,444 to Nassau.
- The evening outbound peak hour occurred between 5-6 pm, when 31,325 vehicles entered Nassau from Queens. The three limited access facilities were used by 17,055 of these Nassau-bound vehicles.
 - 6,670 on the Long Island Expressway and service road.
 - 5,799 on the Laurelton Parkway.
 - 4,586 on the Grand Central Parkway and service road.

- The evening inbound peak hour also occurred between 5-6 pm, when 32,377 vehicles entered Queens from Nassau. The three limited access facilities were used by 17,094 of these Queens-bound vehicles.
 - 7,410 on the Long Island Expressway and service road.
 - 4,574 on the Laurelton Parkway.
 - 5,110 on the Grand Central Parkway and service road.
- During the 3-7 pm rush period, 123,572 vehicles entered Nassau from Queens, and 121,796 entered Queens from Nassau. The three limited access facilities were used by 68,477 of these Nassau-bound vehicles and 64,601 of the Queens-bound vehicles.
 - Long Island Expressway and service roads: 27,001 to Nassau; 27,562 to Queens.
 - Laurelton Parkway: 22,393 to Nassau; 17,421 to Queens.
 - Grand Central Parkway and service road: 19,083 to Nassau; 19,618 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 2013 weekday, 638,086 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), 1.3% fewer than the 646,263 daily vehicles recorded in 2012.
- Manhattan-New Jersey traffic decreased 0.6%, to 479,819 daily vehicles in 2013 from 482,557 in 2012.
 - Holland Tunnel traffic decreased 2.9%, to 90,012 daily vehicles in 2013 from 92,743 in 2012.
 - Lincoln Tunnel traffic decreased 0.9%, to 112,162 daily vehicles in 2013 from 113,166 in 2012.
 - George Washington Bridge traffic increased 0.4%, to 277,645 daily vehicles in 2013 from 276,648 in 2012. This is the busiest of all New York City screenline locations, carrying 43.5% of total New York City-New Jersey traffic, and 57.9% of Manhattan-New Jersey traffic.
- 19,229 vehicles entered Manhattan from New Jersey during the 6-7 am morning peak hour. The George Washington Bridge was used by 11,120 (57.8%) of those Manhattan-bound peak hour vehicles.
- During the 6-10 am inbound rush period, Manhattan vehicle entries from New Jersey amounted to 67,389. The George Washington Bridge was the route for 56.5% of these 6-10 am entries (38,104 vehicles).
- 18,154 vehicles departed Manhattan for New Jersey during the 4-5 pm evening peak hour, with the George Washington Bridge accommodating 10,737 (59.1%) of those departing vehicles.

- During the 3-7 pm evening rush period, 70,062 vehicles crossed the Hudson River from Manhattan to New Jersey. The George Washington Bridge carried 59.5% of that departing traffic (41,707 vehicles).
- Staten Island-New Jersey traffic decreased 3.3%, to 158,267 daily vehicles in 2013 from 163,706 in 2012.
 - Bayonne Bridge traffic decreased 1.1%, to 18,541 daily vehicles in 2013 from 18,755 in 2012.
 - Goethals Bridge traffic decreased 0.2%, to 72,986 daily vehicles in 2013 from 73,135 in 2012.
 - Outerbridge Crossing traffic decreased 7.1%, to 66,740 daily vehicles in 2013 from 71,816 in 2012.
- Between 6-10 am, 19,262 vehicles crossed from Staten Island to New Jersey while 18,658 vehicles entered Staten Island.
- Between 3-7 pm, traffic entering Staten Island from New Jersey amounted to 23,700 vehicles, while traffic bound for New Jersey totaled 19,334.

Brooklyn - Queens

- On a typical 2013 weekday, 607,807 vehicles crossed the fifteen monitored Brooklyn-Queens screenline locations, 2.7% more than the 591,555 daily vehicles recorded in 2012.
- 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 (69.9%) of the vehicles (424,928 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 44.4% (269,845 per day) were crossing Newtown Creek via the Grand Street, J.J. Byrne, Kosciuszko, and Pulaski Bridges.
- Kosciuszko Bridge on the Brooklyn-Queens Expressway is the busiest Brooklyn-Queens screenline highway, with two-way daily volume of 191,225 daily vehicles, 31.5% of all traffic on the monitored thoroughfares and 70.9% of Newtown Creek crossings.
- Busiest Brooklyn-Queens Screenline arterials in 2013:
 - Belt Parkway (Shore Parkway), 164,240 vehicles per day.
 - Jackie Robinson Parkway, 69,463 vehicles per day.
 - Linden Boulevard, 46,435 vehicles per day.
 - Pulaski Bridge, 39,076 vehicles per day.
 - J.J. Byrne Memorial Bridge (Greenpoint Avenue Bridge), 25,701 vehicles per day.
 - Atlantic Avenue, 25,212 vehicles per day.

- Morning traffic to Brooklyn peaked between 7-8 am, when 19,884 vehicles entered Brooklyn.
 - 4,643 on the Kosciuszko Bridge.
 - 5,242 on the Belt Parkway (Shore Parkway).
- Morning traffic to Queens also peaked between 7-8 am, at 16,855 vehicles.
 - 5,243 on the Kosciuszko Bridge.
 - 4,379 on the Belt Parkway (Shore Parkway).
- During the 6-10 am rush period, 71,547 vehicles entered Brooklyn and 63,156 entered Queens.
 - Kosciuszko Bridge: 18,470 to Brooklyn; 20,393 to Queens.
 - Belt Parkway (Shore Parkway): 19,305 to Brooklyn; 16,501 to Queens.
- Evening traffic to Brooklyn peaked between 5-6 pm, with 18,006 vehicles entering Brooklyn from Queens.
 - 4,655 on Kosciuszko Bridge.
 - 4,950 on Belt Parkway (Shore Parkway).
- Evening traffic to Queens also peaked between 5-6 pm, with 19,098 vehicles entering Queens from Brooklyn.
 - 4,902 on Kosciuszko Bridge.
 - 4,693 on Belt Parkway (Shore Parkway).
- During the 3-7 pm rush period, 74,334 vehicles entered Queens and 69,926 entered Brooklyn.
 - Kosciuszko Bridge: 19,410 to Queens; 18,422 to Brooklyn.
 - Belt Parkway (Shore Parkway): 18,989 to Queens; 19,390 to Brooklyn.

2012 vs. 2013

Screenline Traffic Volume Trends

Both Directions

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BRONX-WESTCHESTER	Highway Functional Classification	2012	2013	Percent Change
Boston Road	Principal Arterial	23,668	22,518	- 4.9 %
Broadway	Principal Arterial	15,461	14,575	- 5.7 %
Bronx River Parkway	Principal Arterial	91,374	92,925	1.7 %
Henry Hudson Parkway	Principal Arterial	94,973	96,196	1.3 %
Hutchinson River Parkway	Principal Arterial	87,860	88,137	0.3 %
Major Deegan Expressway *	Interstate	116,628	121,537	4.2 %
New England Thruway	Interstate	131,413	134,597	2.4 %
Riverdale Avenue	Principal Arterial	10,222	9,030	- 11.7 %
Van Cortlandt Park East	Minor Arterial	9,758	9,134	- 6.4 %
Webster Avenue	Local	9,916	9,031	- 8.9 %
White Plains Road	Principal Arterial	13,364	12,652	- 5.3 %
Total Bronx-Westchester Screenline		604,637	610,332	0.9 %

QUEENS-NASSAU

Beach Channel Drive	Minor Arterial	23,370	23,380	0.0 %
Central Avenue	Minor Arterial	14,002	13,912	- 0.6 %
Grand Central Parkway *	Principal Arterial	162,267	158,517	- 2.3 %
Hempstead Avenue	Principal Arterial	44,307	42,994	- 3.0 %
Hillside Avenue	Principal Arterial	26,165	26,951	3.0 %
Jamaica Avenue	Principal Arterial	29,039	26,185	- 9.8 %
Laurelton Parkway	Principal Arterial	164,343	169,411	3.1 %
Linden Boulevard	Principal Arterial	28,395	26,737	- 5.8 %
Long Island Expressway *	Interstate	228,231	231,438	1.4 %
Merrick Boulevard	Minor Arterial	22,763	20,860	- 8.4 %
Northern Boulevard	Principal Arterial	43,395	41,328	- 4.8 %
Rockaway Boulevard	Principal Arterial	76,023	77,868	2.4 %
Seagirt Boulevard	Principal Arterial	21,266	22,016	3.5 %
Sunrise Highway	Principal Arterial	60,597	66,837	10.3 %
Union Turnpike	Principal Arterial	20,057	21,570	7.5 %

Total Queens-Nassau Screenline		964,220	970,004	0.6 %
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* Includes Service Roads.

2012 vs. 2013
Screenline Traffic Volume Trends
Both Directions

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NEW YORK - NEW JERSEY	Highway Functional Classification	2012	2013	Percent Change
Manhattan - New Jersey				
George Washington Bridge	Interstate	276,648	277,645	0.4 %
Holland Tunnel	Interstate	92,743	90,012	- 2.9 %
Lincoln Tunnel	Principal Arterial	113,166	112,162	- 0.9 %
Subtotal, Manhattan - New Jersey		482,557	479,819	- 0.6 %
Staten Island - New Jersey				
Bayonne Bridge	Principal Arterial	18,755	18,541	- 1.1 %
Goethals Bridge	Interstate	73,135	72,986	- 0.2 %
Outerbridge Crossing	Principal Arterial	71,816	66,740	- 7.1 %
Subtotal, Staten Island - New Jersey		163,706	158,267	- 3.3 %
Total New York - New Jersey Screenline		646,263	638,086	- 1.3 %

NEW YORK CITY BORDERS TOTAL

Bronx - Westchester		604,637	610,332	0.9 %
Queens - Nassau		964,220	970,004	0.6 %
Manhattan - New Jersey		482,557	479,819	- 0.6 %
Staten Island - New Jersey		163,706	158,267	- 3.3 %
Total New York City Border Screenlines		2,215,120	2,218,422	0.1 %

2012 vs. 2013

Screenline Traffic Volume Trends

Both Directions

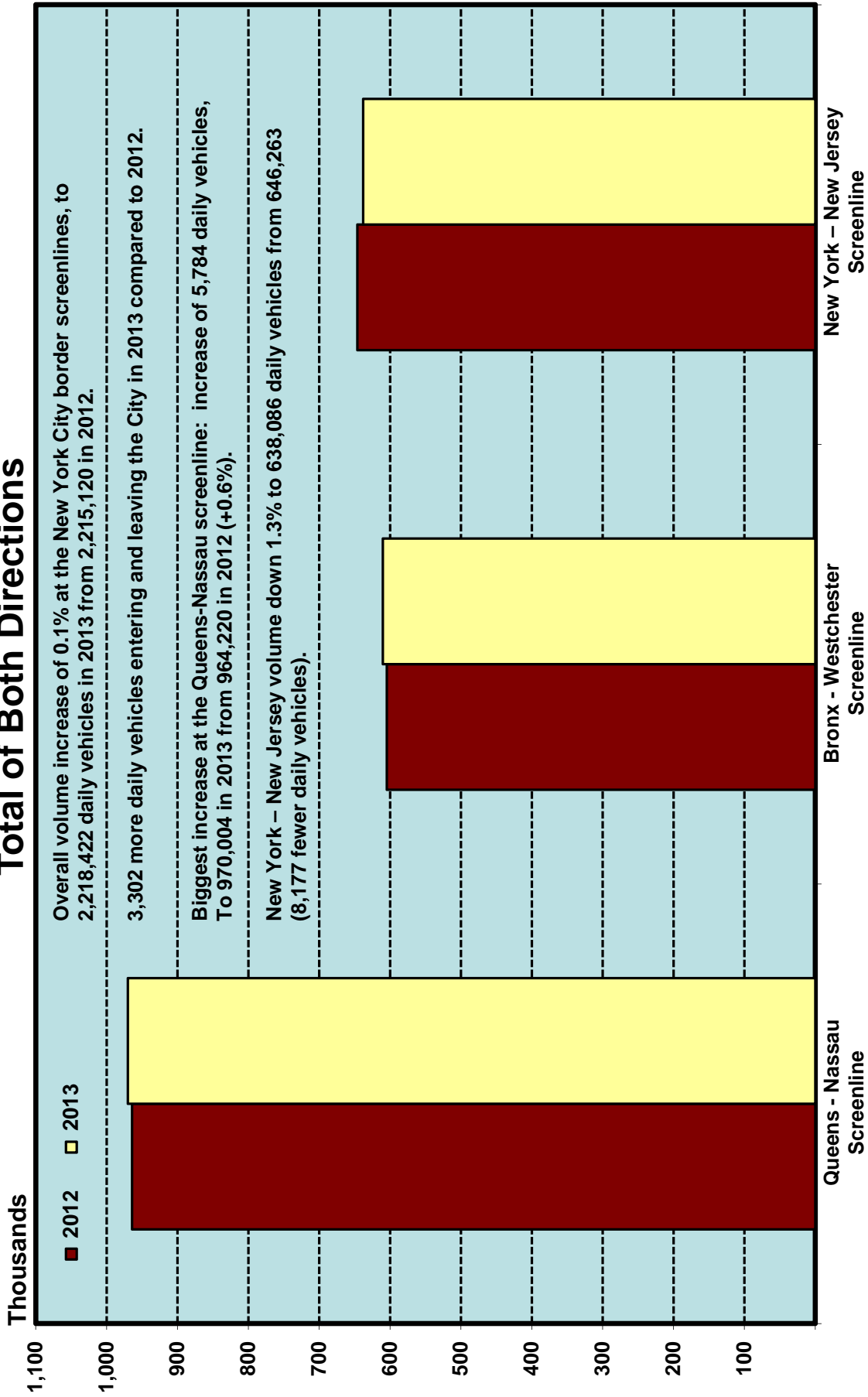
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BROOKLYN - QUEENS	Highway Functional Classification	2012	2013	Percent Change
Newtown Creek Bridges				
Grand Street Bridge	Principal Arterial	12,595	13,843	9.9 %
J.J. Byrne Memorial Bridge *	Principal Arterial	26,379	25,701	- 2.6 %
Kosciuszko Bridge	Interstate	196,217	191,225	- 2.5 %
Pulaski Bridge	Principal Arterial	36,867	39,076	6.0 %
Subtotal, Newtown Creek Bridges		272,058	269,845	- 0.8 %
Other Facilities				
Atlantic Avenue	Principal Arterial	23,622	25,212	6.7 %
Cooper Street	Minor Arterial	9,534	9,697	1.7 %
Cornelia Street	Local	1,768	1,872	5.9 %
Decatur Street	Collector	2,087	2,222	6.5 %
DeKalb Avenue	Minor Arterial	5,275	4,768	- 9.6 %
Greene Avenue	Minor Arterial	1,520	1,505	- 1.0 %
Jackie Robinson Parkway	Principal Arterial	66,962	69,463	3.7 %
Linden Boulevard	Principal Arterial	45,068	46,435	3.0 %
Linden Street	Collector	1,923	2,015	4.8 %
Shore Parkway	Principal Arterial	151,957	164,240	8.1 %
Sutter Avenue	Minor Arterial	9,781	10,533	7.7 %
Subtotal, Other Facilities		319,497	337,962	5.8 %
Total Brooklyn - Queens Screenline		591,555	607,807	2.7 %

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

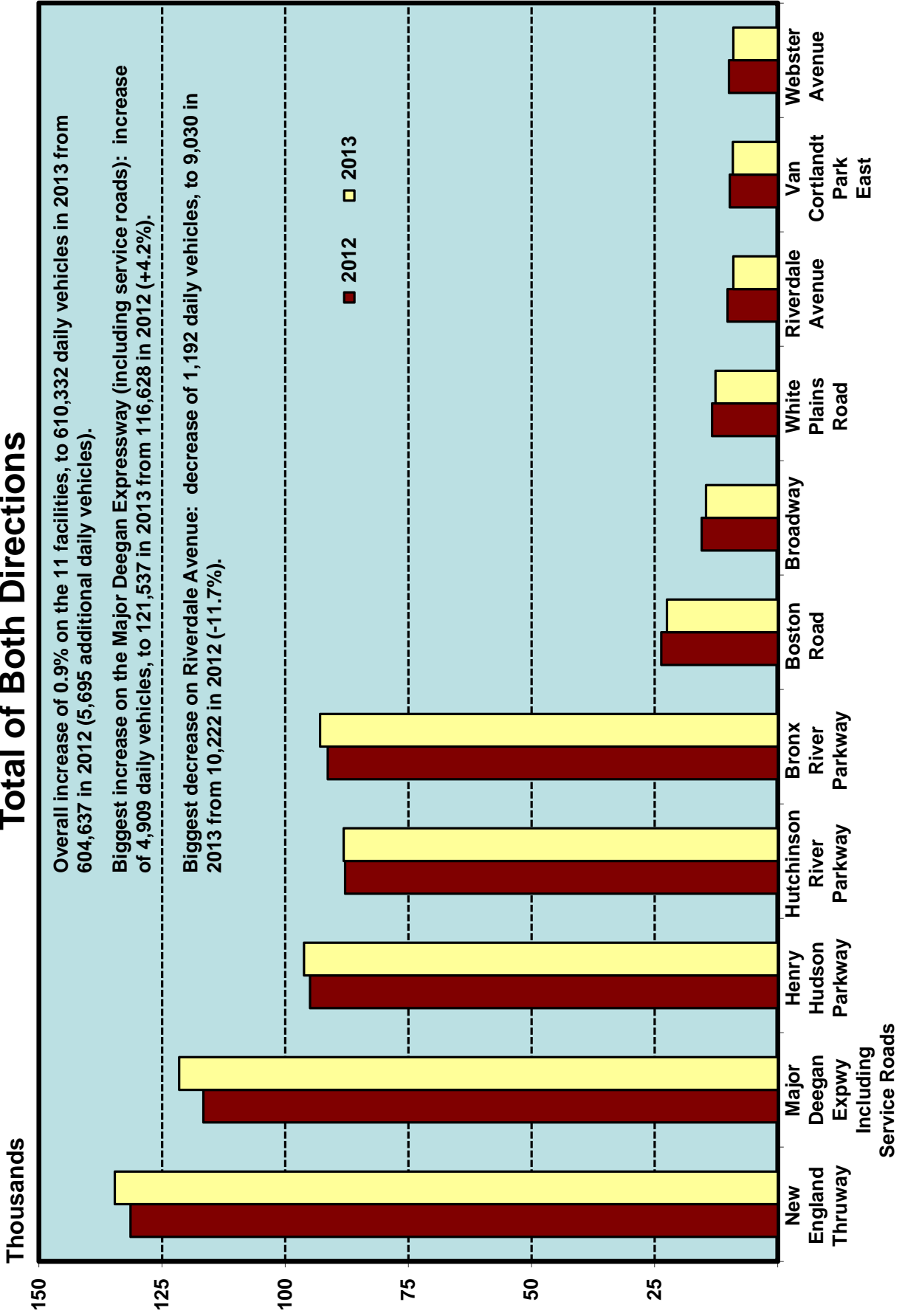
New York City Screenlines ~ Daily Volumes 2013 vs. 2012

Total of Both Directions

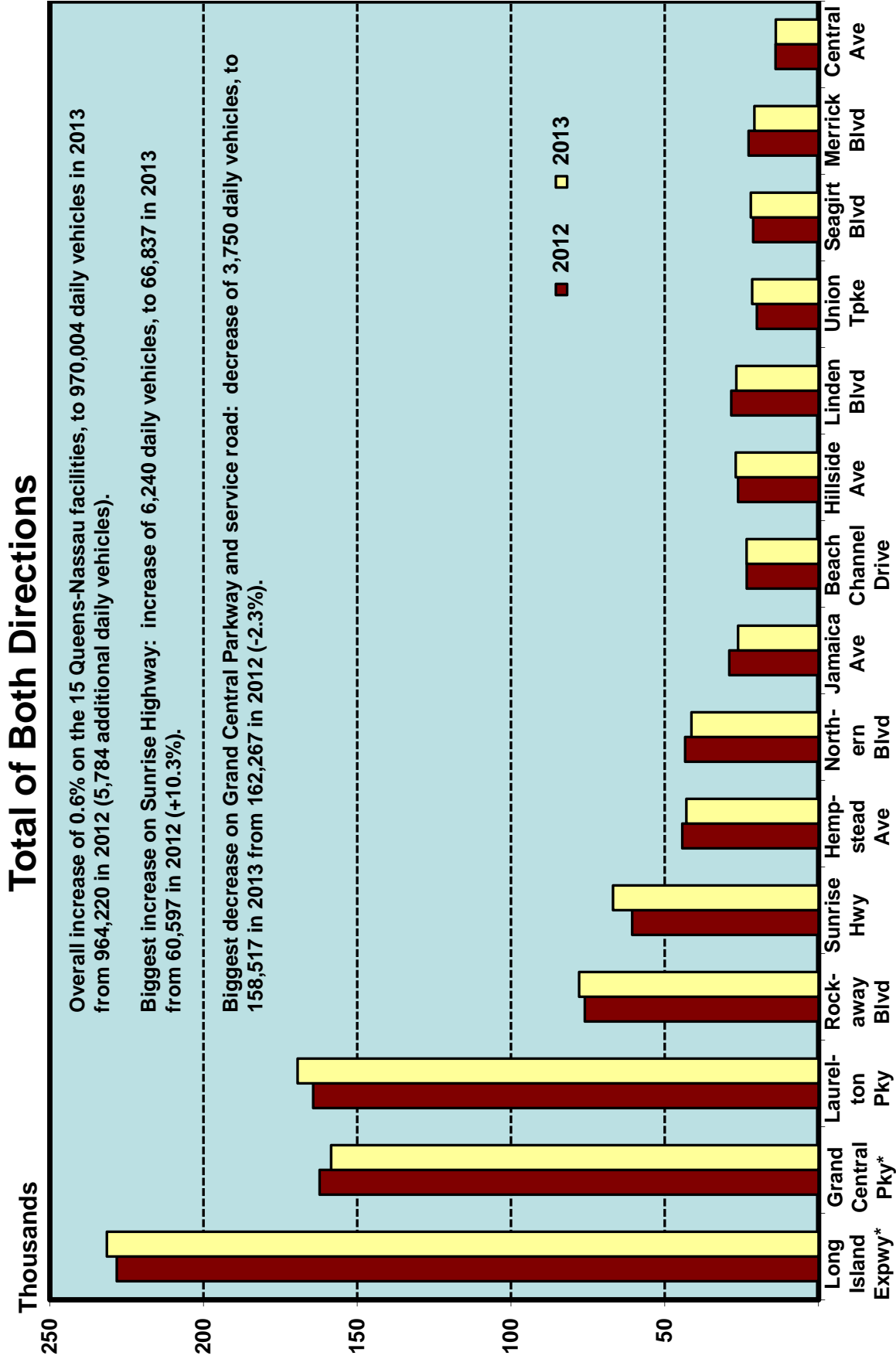


Bronx – Westchester Screenline Daily Volumes 2013 vs. 2012

Total of Both Directions



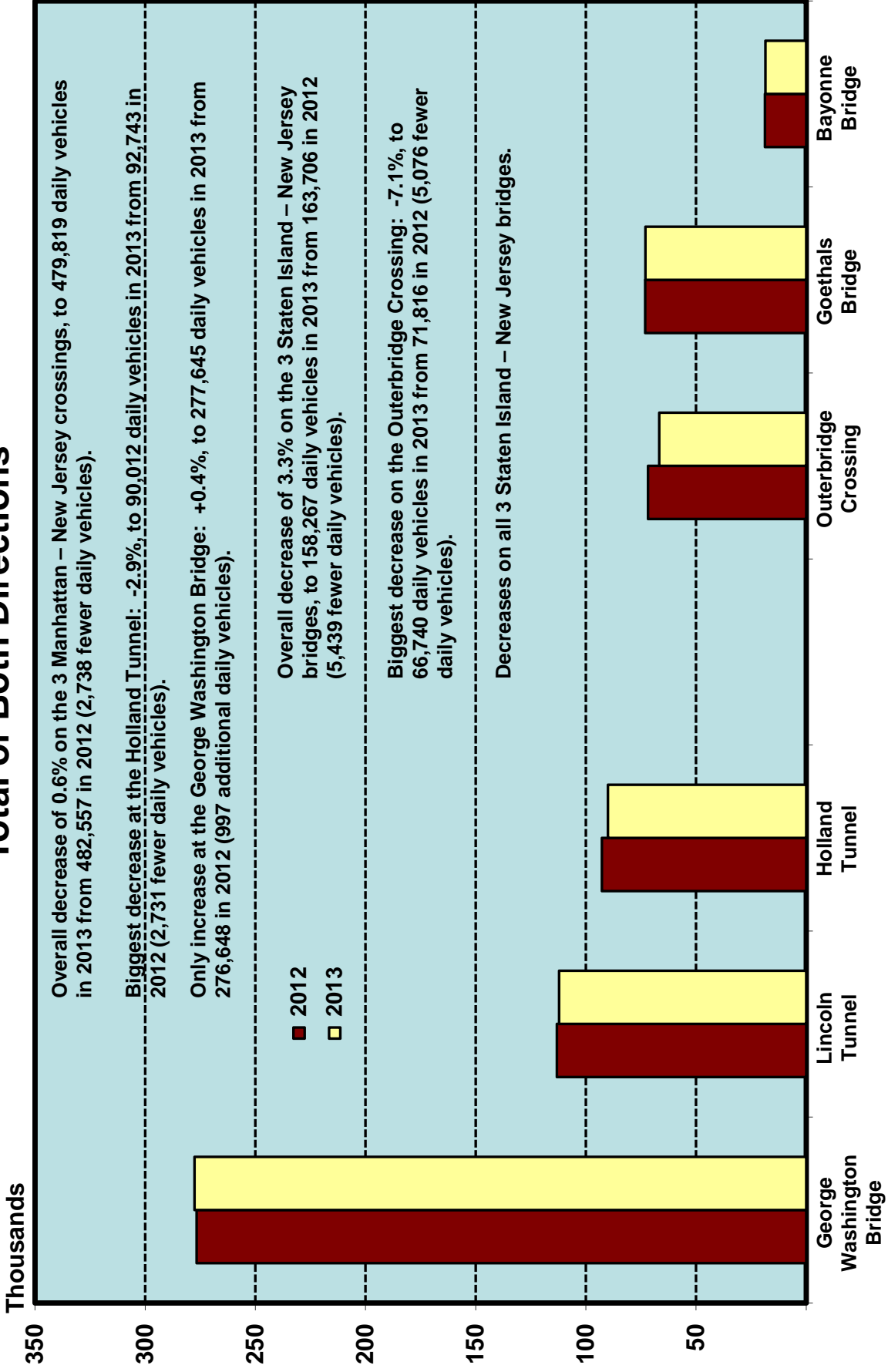
Queens – Nassau Screenline Daily Volumes 2013 vs. 2012



* Includes service roads.

New York – New Jersey Screenline Daily Volumes 2013 vs. 2012

Total of Both Directions

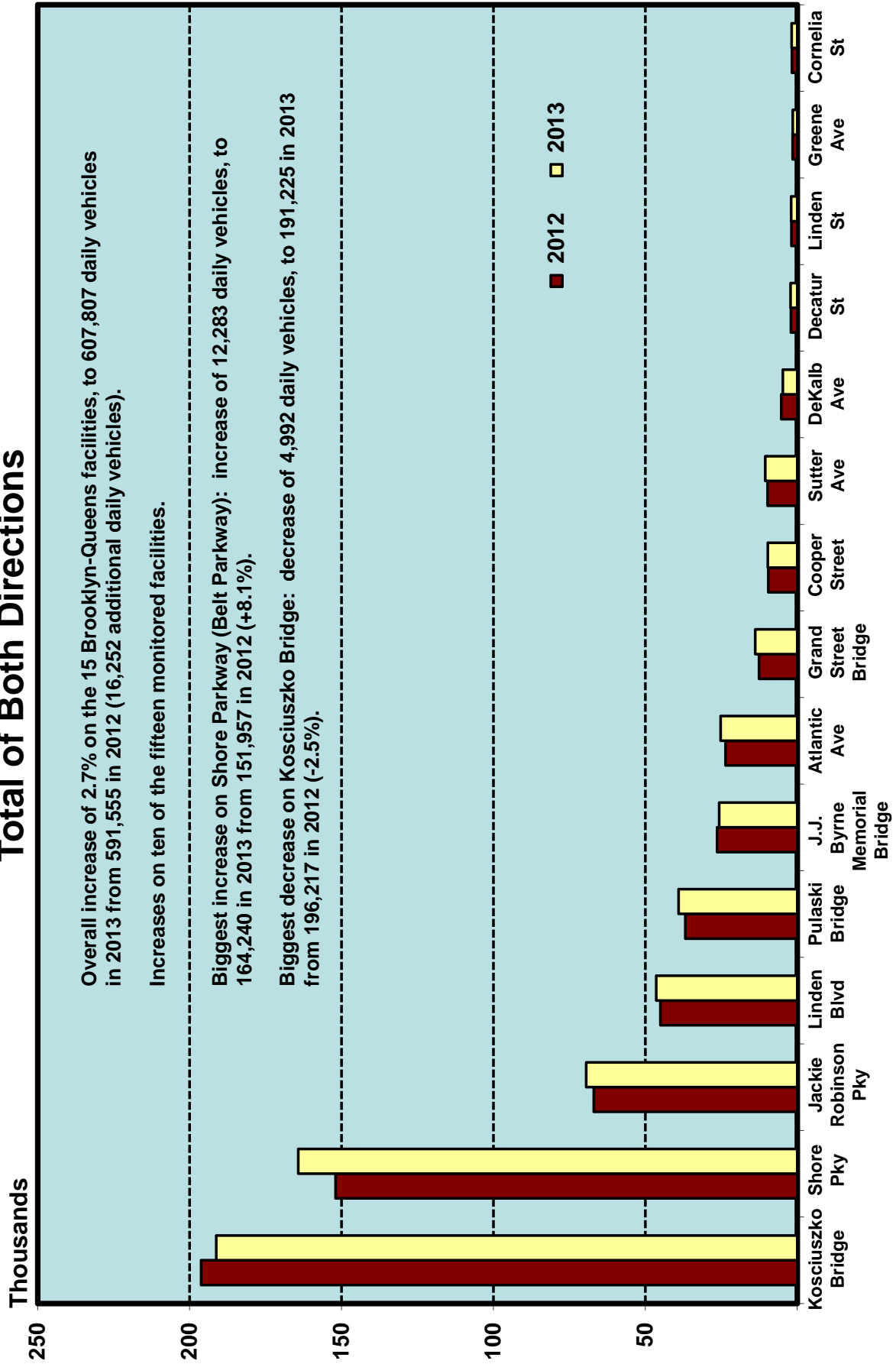


Manhattan – New Jersey Crossings

Staten Island – New Jersey Bridges

Brooklyn - Queens Screenline Daily Volumes 2013 vs. 2012

Total of Both Directions



10-Year Trends ~ 2003-2013



**Rockaway Boulevard at the Queens-Nassau Screenline
Looking South**

TEN-YEAR TRENDS: 2003-2013

Total monitored traffic volume at the City boundaries decreased 4.0% during this ten-year period, to 2,218,422 daily vehicles in 2013 from 2,310,174 in 2003 (91,752 fewer daily vehicles).

Bronx – Westchester Screenline

- Overall decrease of 1.5% at the eleven Bronx-Westchester screenline monitoring sites, to 610,332 daily vehicles in 2013 from 619,449 in 2003 (9,117 fewer daily vehicles).
- Volume decreases on eight of the eleven monitored facilities.
- Largest decrease on Boston Road: down by 4,519 daily vehicles, to 22,518 in 2013 from 27,037 in 2003 (-16.7%).
- Largest increase on the New England Thruway: up 5.5% to 134,597 daily vehicles in 2013 from 127,557 in 2003 (+7,040 daily vehicles).

Queens – Nassau Screenline

- Overall increase of 0.1%, at the fifteen Queens-Nassau screenline monitoring locations, to 970,004 daily vehicles in 2013 from 968,694 in 2003 (1,310 additional daily vehicles).
- Largest increase on the Long Island Expressway and its service Roads: up 21.4% to 231,438 daily vehicles in 2013 from 190,634 in 2003 (40,804 additional daily vehicles).
- Largest decrease on the Grand Central Parkway and its service road: decrease of 28,701 daily vehicles to 158,517 in 2013 from 187,218 in 2003 (-15.3%).

Manhattan – New Jersey Screenline

- Overall decrease of 12.4% on the three Hudson River crossings between Manhattan and New Jersey, to 479,819 daily vehicles in 2013 from 547,449 in 2003 (67,630 fewer daily vehicles).
- Decreases on all three Manhattan-New Jersey crossings.
- Largest decrease at the George Washington Bridge: decrease of 41,384 daily vehicles, to 277,645 in 2013 from 319,029 in 2003 (-13.0%).

Staten Island – New Jersey Screenline

- Overall decrease of 9.3% on the three Staten Island-New Jersey bridges, to 158,267 daily vehicles in 2013 from 174,582 in 2003 (16,315 fewer daily vehicles).
- Decreases on all three Staten Island-New Jersey bridges.
- Largest decrease on the Outerbridge Crossing: -15.1%, to 66,740 daily vehicles in 2013 from 78,650 in 2003 (11,910 fewer daily vehicles).

Brooklyn – Queens Screenline

- Overall decrease of 0.7% at the fifteen monitored Brooklyn-Queens screenline locations, to 607,807 daily vehicles in 2013 from 612,007 in 2003 (4,200 fewer daily vehicles).

- Decreases on ten of the fifteen monitored facilities.
- Largest decrease on Linden Boulevard: decrease of 4,675 daily vehicles, to 46,435 in 2013 from 51,110 in 2003 (-9.1%).
- Largest increase on Shore Parkway: increase of 14,200 daily vehicles, to 164,240 in 2013 from 150,040 in 2003 (+9.5%).
- Decrease of 4,243 daily vehicles on Jackie Robinson Parkway, to 69,463 in 2013 from 73,706 in 2003 (-5.8%).
- Decrease of 3,274 daily vehicles on Atlantic Avenue, to 25,212 in 2013 from 28,486 in 2003 (-11.5%).

10-Year Volume Trends ~ 2003 - 2013

New York City Screenline Traffic Volumes

Both Directions

Page 1 of 2

BRONX-WESTCHESTER	Highway Functional Classification	2003	2013	Percent Change
Boston Road	Principal Arterial	27,037	22,518	- 16.7 %
Broadway	Principal Arterial	16,470	14,575	- 11.5 %
Bronx River Parkway	Principal Arterial	90,969	92,925	2.2 %
Henry Hudson Parkway	Principal Arterial	98,734	96,196	- 2.6 %
Hutchinson River Parkway	Principal Arterial	89,548	88,137	- 1.6 %
Major Deegan Expressway *	Interstate	123,715	121,537	- 1.8 %
New England Thruway	Interstate	127,557	134,597	5.5 %
Riverdale Avenue	Principal Arterial	10,954	9,030	- 17.6 %
Van Cortlandt Park East	Minor Arterial	10,499	9,134	- 13.0 %
Webster Avenue	Local	11,434	9,031	- 21.0 %
White Plains Road	Principal Arterial	12,532	12,652	1.0 %
Total Bronx-Westchester Screenline		619,449	610,332	- 1.5 %

QUEENS-NASSAU

Beach Channel Drive	Minor Arterial	26,328	23,380	- 11.2 %
Central Avenue	Minor Arterial	14,419	13,912	- 3.5 %
Grand Central Parkway *	Principal Arterial	187,218	158,517	- 15.3 %
Hempstead Avenue	Principal Arterial	51,332	42,994	- 16.2 %
Hillside Avenue	Principal Arterial	25,004	26,951	7.8 %
Jamaica Avenue	Principal Arterial	29,765	26,185	- 12.0 %
Laurelton Parkway	Principal Arterial	159,012	169,411	6.5 %
Linden Boulevard	Principal Arterial	29,432	26,737	- 9.2 %
Long Island Expressway *	Interstate	190,634	231,438	21.4 %
Merrick Boulevard	Minor Arterial	20,590	20,860	1.3 %
Northern Boulevard	Principal Arterial	45,665	41,328	- 9.5 %
Rockaway Boulevard	Principal Arterial	72,562	77,868	7.3 %
Seagirt Boulevard	Principal Arterial	22,897	22,016	- 3.8 %
Sunrise Highway	Principal Arterial	67,665	66,837	- 1.2 %
Union Turnpike	Principal Arterial	26,171	21,570	- 17.6 %

Total Queens-Nassau Screenline		968,694	970,004	0.1 %
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* Includes Service Roads.

10-Year Volume Trends ~ 2003 - 2013

New York City Screenline Traffic Volumes

Both Directions

Page 2 of 2

NEW YORK - NEW JERSEY	Highway Functional Classification	2003	2013	Percent Change
George Washington Bridge	Interstate	319,029	277,645	- 13.0 %
Holland Tunnel	Interstate	101,097	90,012	- 11.0 %
Lincoln Tunnel	Principal Arterial	127,323	112,162	- 11.9 %
Bayonne Bridge	Principal Arterial	20,208	18,541	- 8.2 %
Goethals Bridge	Interstate	75,724	72,986	- 3.6 %
Outerbridge Crossing	Principal Arterial	78,650	66,740	- 15.1 %
Total New York - New Jersey Screenline		722,031	638,086	- 11.6 %

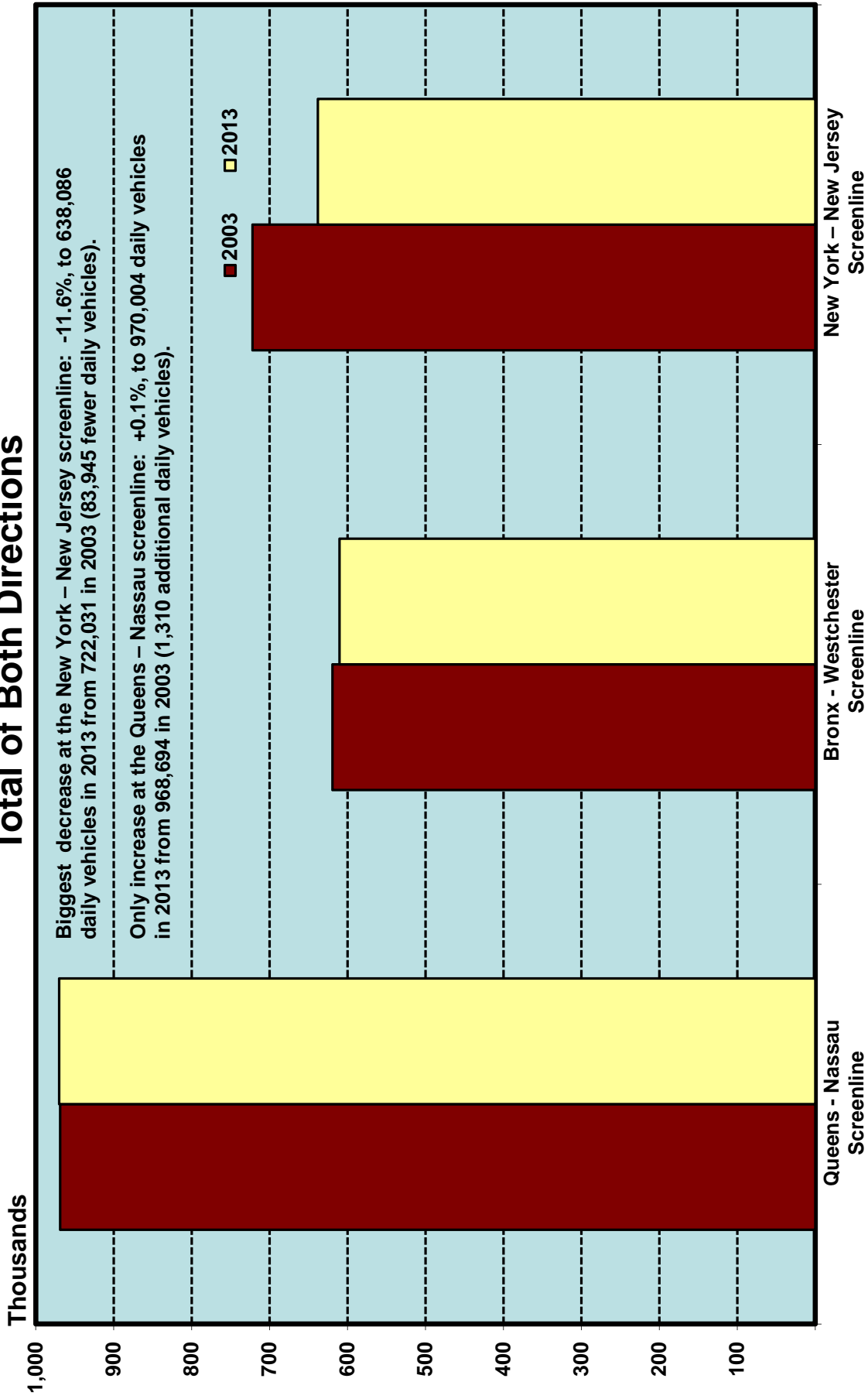
BROOKLYN - QUEENS	Highway Functional Classification	2003	2013	Percent Change
Newtown Creek Bridges				
Grand Street Bridge	Principal Arterial	14,139	13,843	- 2.1 %
J.J. Byrne Memorial Bridge *	Principal Arterial	28,755	25,701	- 10.6 %
Kosciuszko Bridge	Interstate	194,497	191,225	- 1.7 %
Pulaski Bridge	Principal Arterial	38,346	39,076	1.9 %
Subtotal, Newtown Creek Bridges		275,737	269,845	- 2.1 %
Other Facilities				
Atlantic Avenue	Principal Arterial	28,486	25,212	- 11.5 %
Cooper Street	Minor Arterial	9,141	9,697	6.1 %
Cornelia Street	Local	1,908	1,872	- 1.9 %
Decatur Street	Collector	2,342	2,222	- 5.1 %
DeKalb Avenue	Minor Arterial	6,110	4,768	- 22.0 %
Greene Avenue	Minor Arterial	2,363	1,505	- 36.3 %
Jackie Robinson Parkway	Principal Arterial	73,706	69,463	- 5.8 %
Linden Boulevard	Principal Arterial	51,110	46,435	- 9.1 %
Linden Street	Collector	2,270	2,015	- 11.2 %
Shore Parkway	Principal Arterial	150,040	164,240	9.5 %
Sutter Avenue	Minor Arterial	8,794	10,533	19.8 %
Subtotal, Other Facilities		336,270	337,962	0.5 %
Total Brooklyn - Queens Screenline		612,007	607,807	- 0.7 %

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

10-Year Volume Changes ~ 2003 - 2013

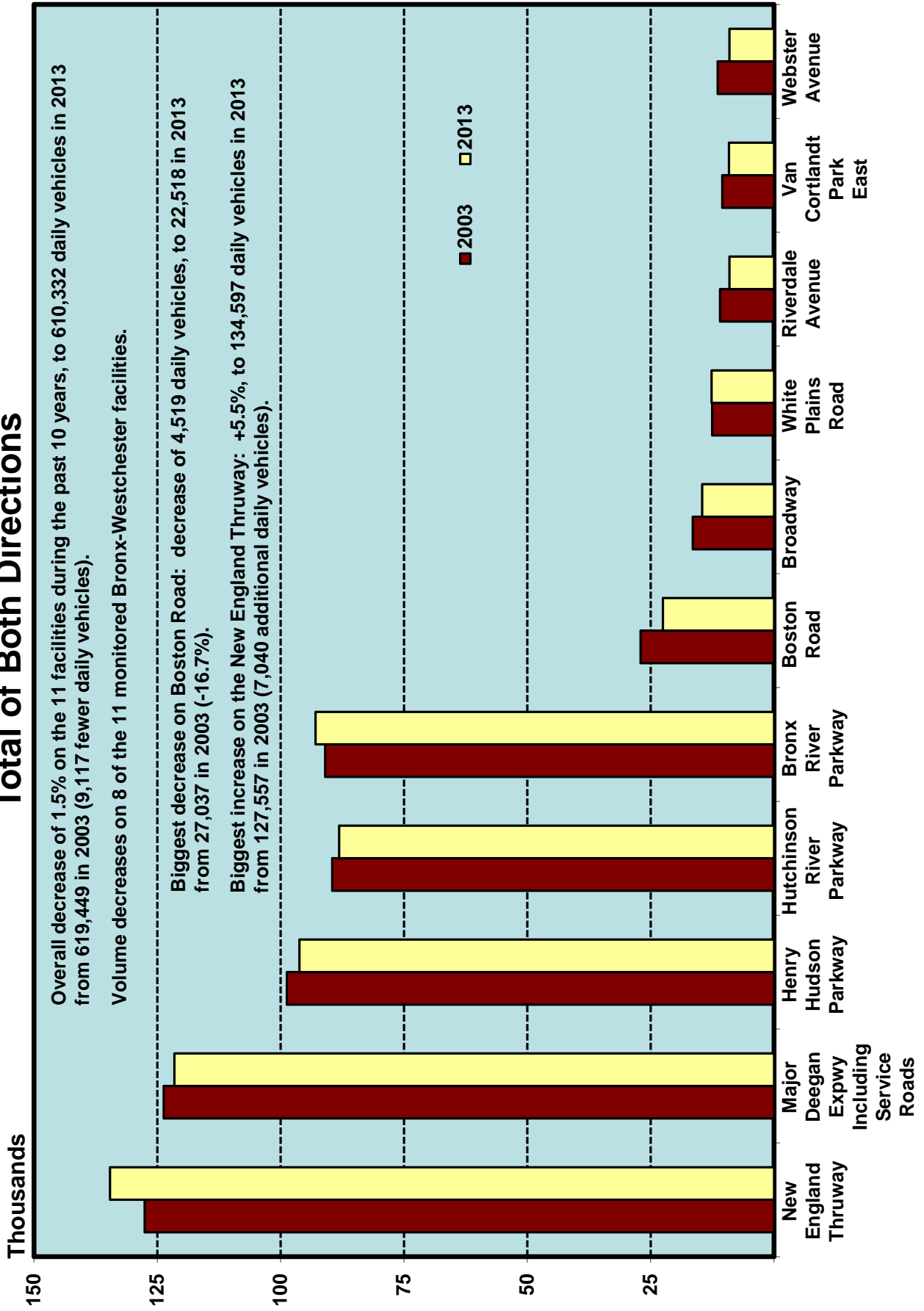
New York City Screenlines Daily Volumes

Total of Both Directions



10-Year Volume Changes ~ 2003 - 2013

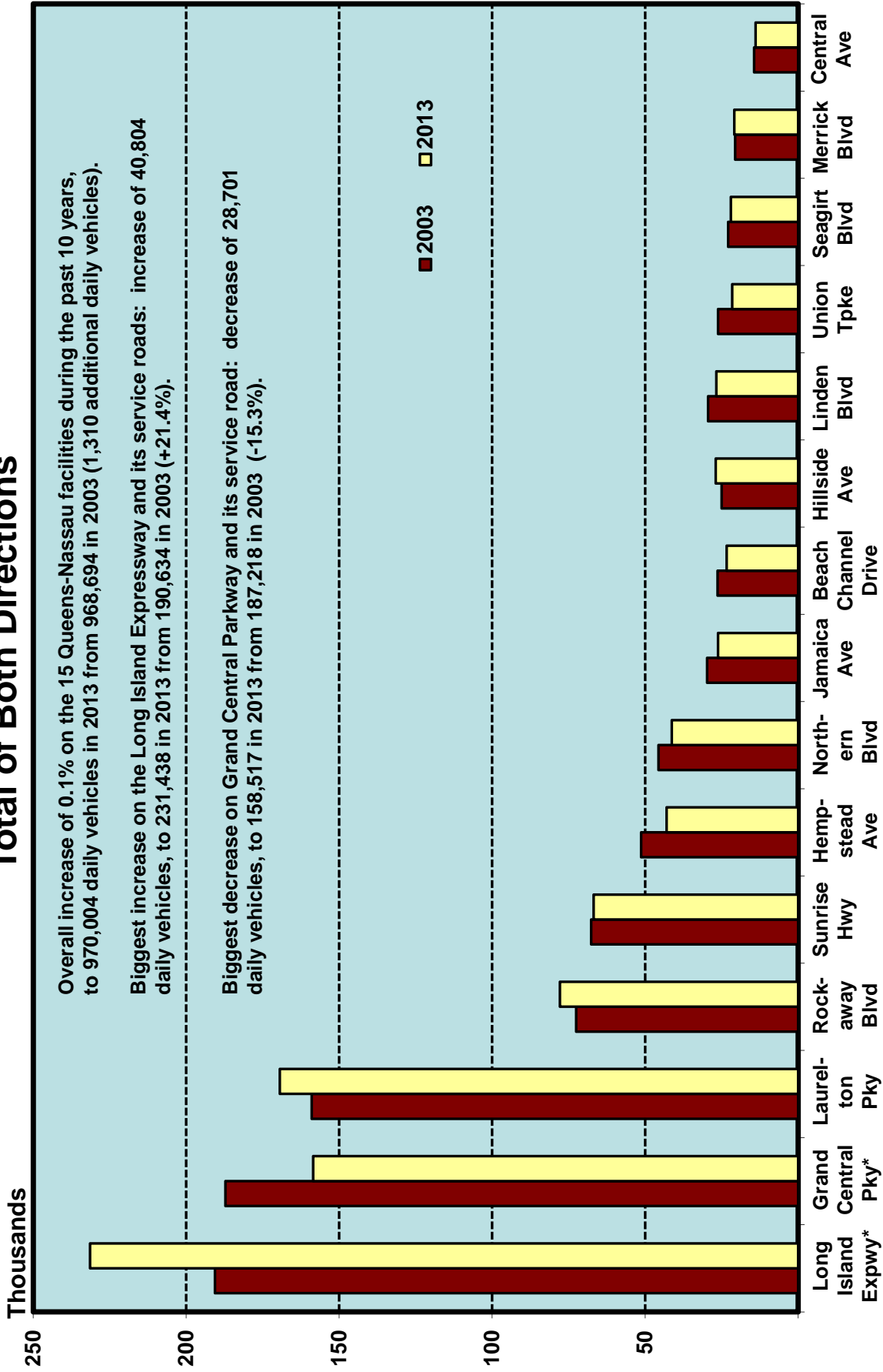
Bronx – Westchester Screenline Daily Volumes Total of Both Directions



10-Year Volume Changes ~ 2003 - 2013

Queens – Nassau Screenline Daily Volumes

Total of Both Directions

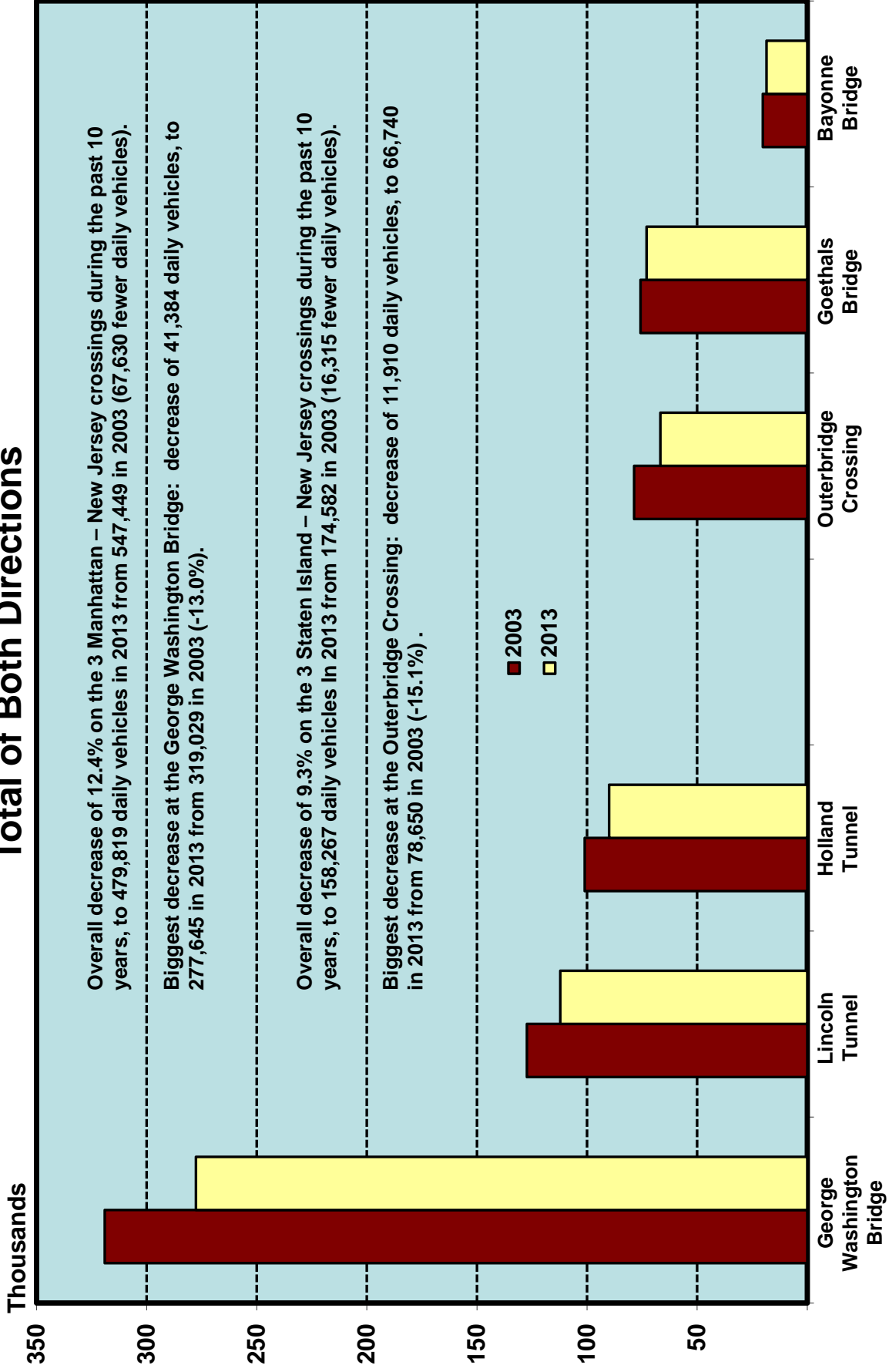


* Includes service roads.

10-Year Volume Changes ~ 2003 – 2013

New York – New Jersey Screenline Daily Volumes

Total of Both Directions



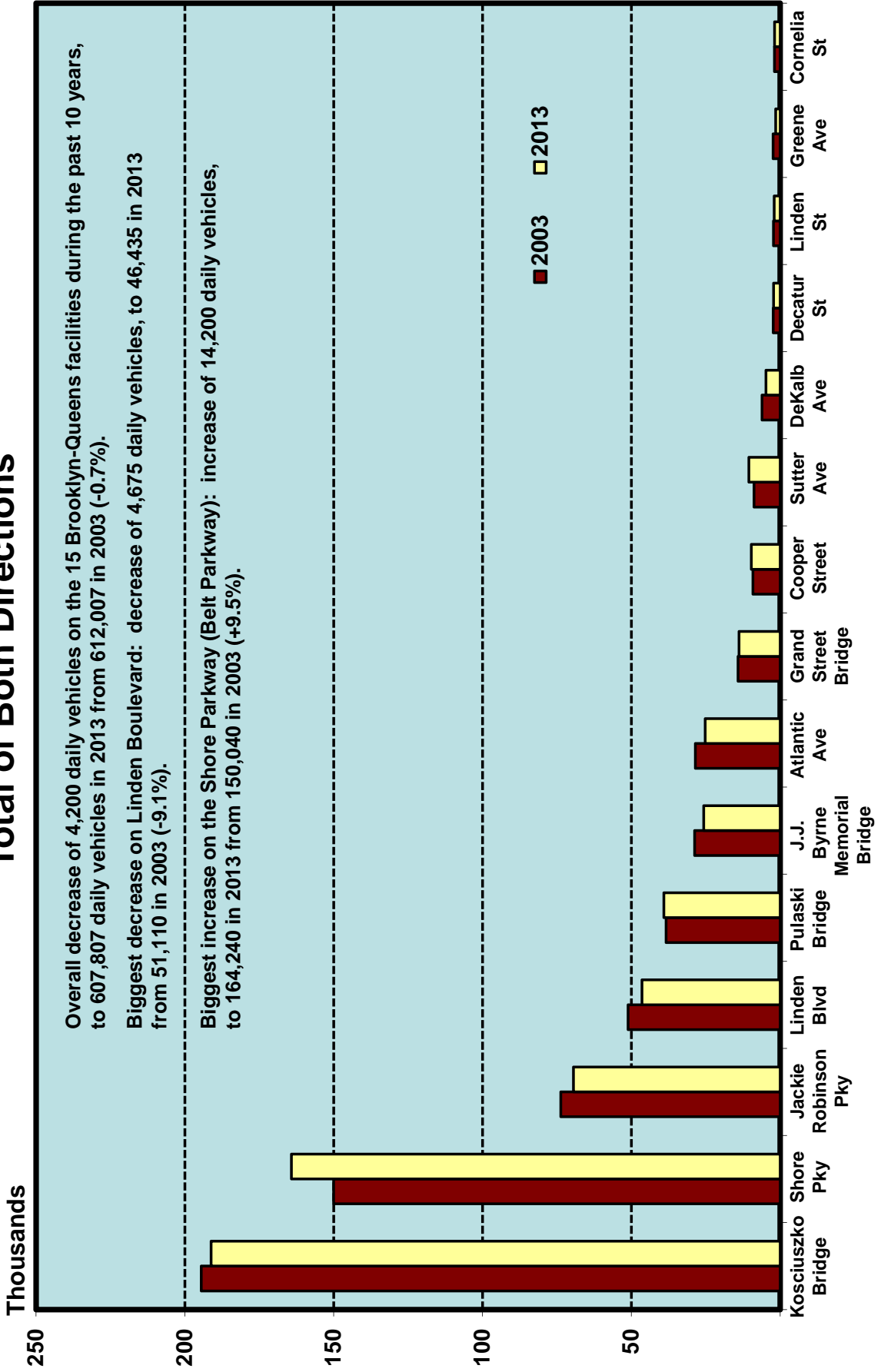
Manhattan – New Jersey Crossings

Staten Island – New Jersey Bridges

10-Year Volume Changes ~ 2003 - 2013

Brooklyn - Queens Screenline Daily Volumes

Total of Both Directions



New York City Screenline



**Boston Road at the Bronx – Westchester Border
Looking South**

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 - 1993

Monitored traffic at the New York City boundaries increased by just 3.1% during this seven-year period, to 2,012,353 daily vehicles in 1993 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 4.7%, to 506,191 daily vehicles in 1993 from 483,252 in 1986.
- Queens - Nassau traffic increased 5.8%, to 892,318 daily vehicles from 843,538.
- Staten Island – New Jersey traffic increased 1.7%, to 140,775 daily vehicles from 138,436.
- Conversely, traffic between Manhattan and New Jersey decreased 2.6%, to 473,069 daily vehicles in 1993 from 485,751 in 1986.

1993 - 2003

From 1993 to 2003, monitored traffic at the New York City boundaries increased 14.8%, to 2,310,174 daily vehicles in 2003 from 2,012,353 in 1993.

- Bronx – Westchester traffic increased 22.4%, to 619,449 daily vehicles in 2003 from 506,191 in 1993.
- Queens - Nassau traffic increased 8.6%, to 968,694 daily vehicles 2003 from 892,318 in 1993.
- Staten Island – New Jersey daily volume increased 24.0%, to 174,582 from 140,775.
- Manhattan - New Jersey daily volume increased 15.7%, to 547,449 from 473,069.

2003 - 2013

During the most recent ten-year period, from 2003 to 2013, monitored traffic at the New York City boundaries decreased by 4.0%, to 2,218,422 daily vehicles in 2013 from 2,310,174 in 2003.

- Bronx – Westchester traffic decreased 1.5%, to 610,332 daily vehicles in 2013 from 619,449 in 2003.

- Manhattan - New Jersey traffic decreased 12.4%, to 479,819 daily vehicles from 547,449.
- Staten Island - New Jersey traffic decreased 9.3%, to 158,267 daily vehicles from 174,582.
- Queens - Nassau traffic increased 0.1%, to 970,004 daily vehicles in 2013 from 968,694 in 2003.

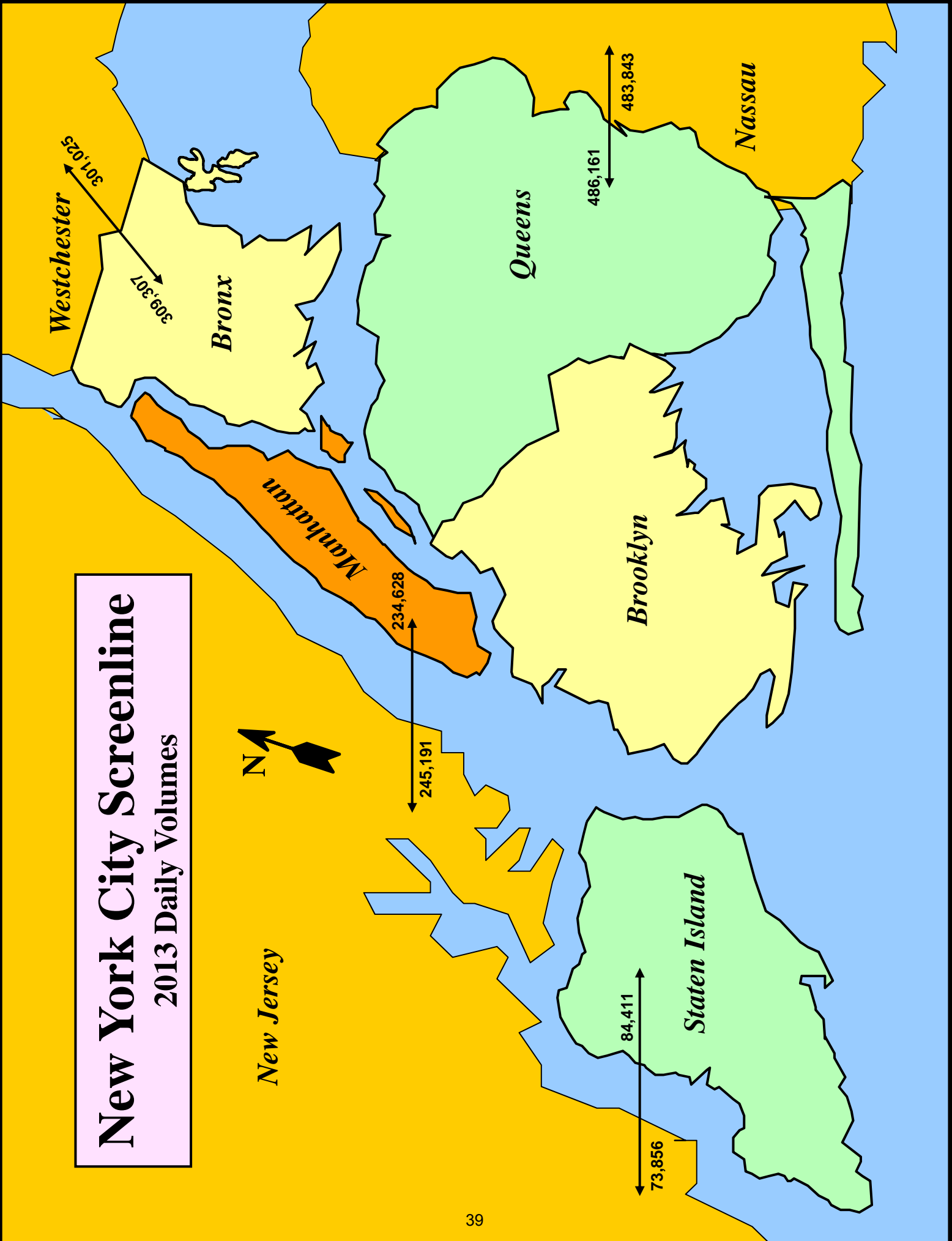
1963 - 2013

From 1963 to 2013, daily two-way traffic at the 29 City border locations monitored throughout the period nearly doubled, to 2,173,360 in 2013 from 1,109,201 in 1963.

- Staten Island – New Jersey traffic skyrocketed by 478%, to 158,267 daily vehicles in 2013 from 27,398 in 1963, largely as a result of the opening of the Verrazano–Narrows Bridge in 1964.
- Manhattan – New Jersey traffic increased 81%, to 479,819 daily vehicles in 2013 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 50-year period from 1963 to 2013, continuously monitored daily traffic increased 123% between The Bronx and Westchester (to 601,198 from 269,650), and 71% between Queens and Nassau (to 934,076 from 546,550).

New York City Screenline

2013 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
N.J. - 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
N.J. - 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
Bronx - Westchester	320,086	323,025	314,134	325,814	304,452	312,818	313,603	305,764	305,217	309,307
Queens - Nassau	480,260	473,349	462,916	469,587	477,437	473,526	480,213	475,313	483,838	486,161
N.J. - Manhattan	262,050	256,289	261,612	258,412	247,975	249,308	247,690	236,301	238,204	234,628
N.J. - Staten Island	90,852	89,928	91,340	92,438	88,392	89,461	90,442	88,053	87,004	84,411
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

**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
N.J. - 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
N.J. - 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
Bronx - Westchester	307,208	310,325	310,424	310,024	294,146	296,486	303,875	295,745	299,420	301,025
Queens - Nassau	485,345	485,740	471,633	482,622	474,068	482,075	483,455	482,345	480,382	483,843
N.J. - Manhattan	274,346	271,428	276,136	255,562	260,294	255,552	258,856	254,808	244,353	245,191
N.J. - Staten Island	83,416	81,725	84,574	77,790	77,384	76,043	77,690	81,483	76,702	73,856
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

* 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 Screenline
Historical Comparisons
Average Daily Traffic Volumes (continued)**

Both Directions

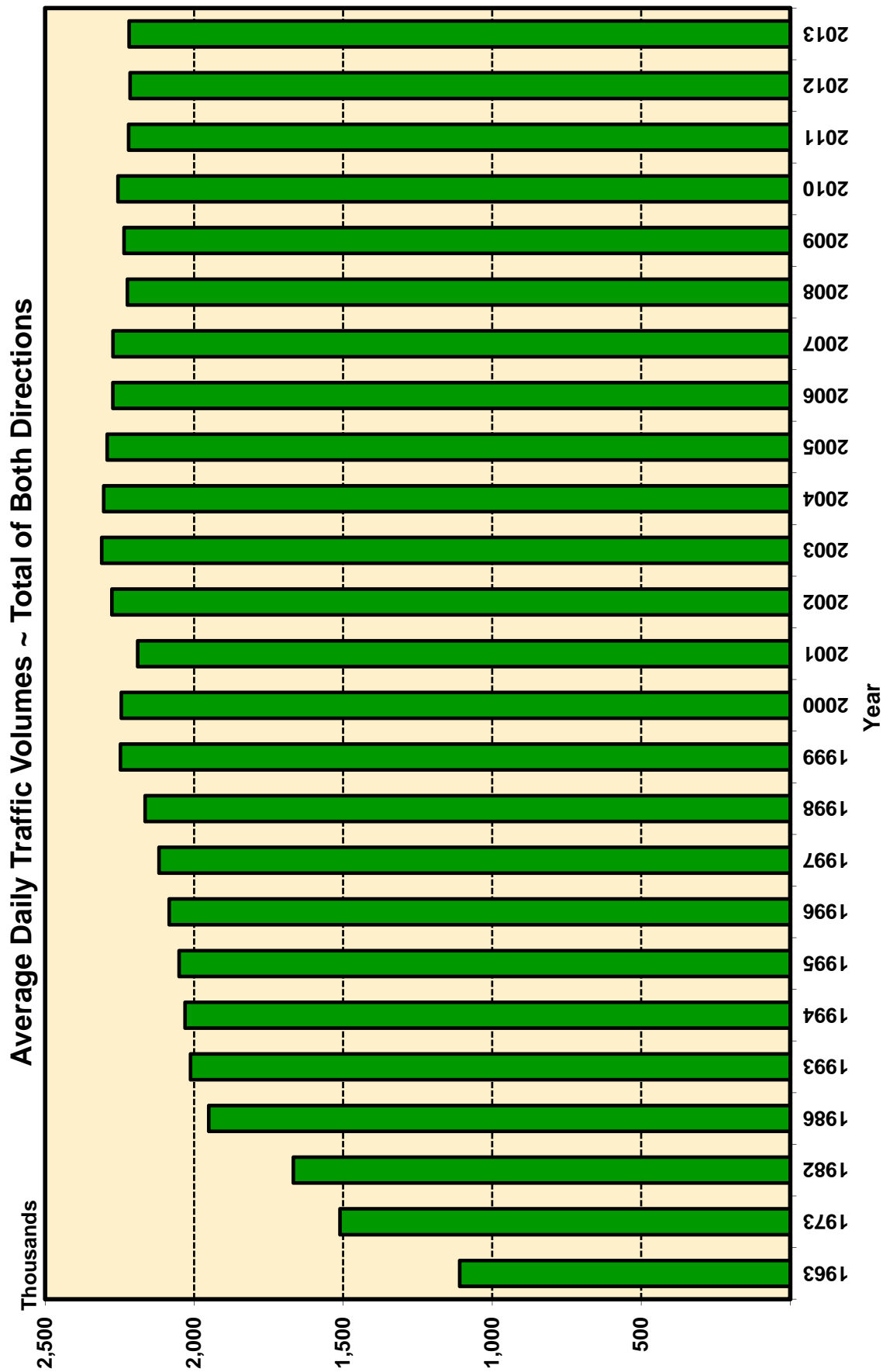
	1963	1973	1982	1986	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Bronx - Westchester	269,650	361,714	413,750	483,252	506,191	515,853	531,941	547,972	554,683	565,746	584,015	591,022	606,666	619,938	619,449
Queens - Nassau	546,550	670,702	713,146	843,538	892,318	897,175	892,743	896,144	907,131	919,403	947,043	940,147	946,727	944,006	968,694
N.J. - 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
N.J. - 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
Bronx - Westchester	627,294	633,350	624,558	635,838	598,598	609,304	617,478	601,509	604,637	610,332
Queens - Nassau	965,605	959,089	934,549	952,209	951,505	955,601	963,668	957,658	964,220	970,004
N.J. - Manhattan	536,396	527,717	537,748	513,974	508,269	504,860	506,546	491,109	482,557	479,819
N.J. - Staten Island	174,268	171,653	175,914	170,228	165,776	165,504	168,132	169,536	163,706	158,267
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

* 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



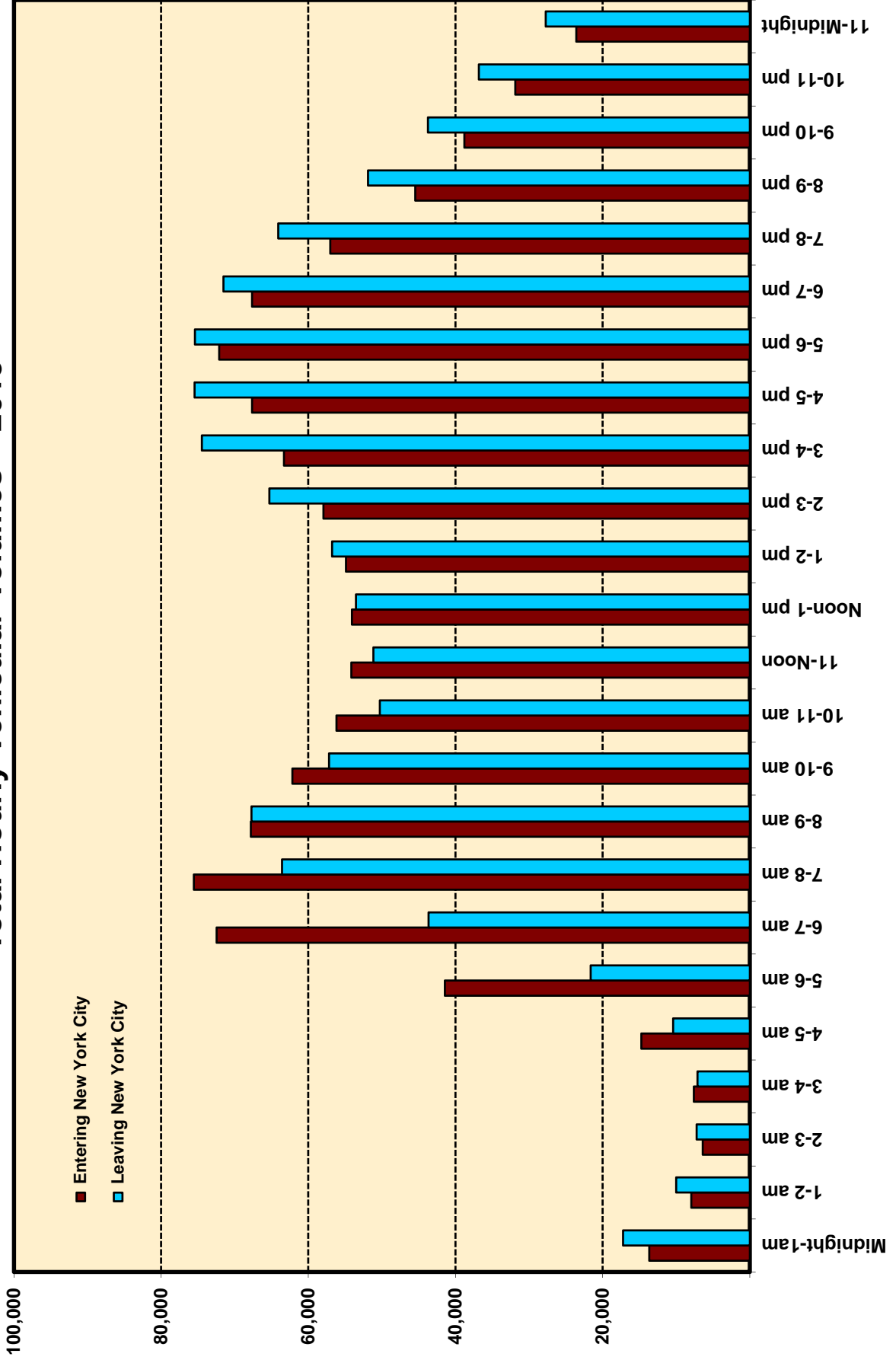
Includes Bronx-Westchester, Queens-Nassau, and New York-New Jersey Screenlines.

New York City Border Screenline Traffic Volumes ~ 2013

	New York-New Jersey										NYC Totals	
	Bronx-Westchester		Queens-Nassau		Manhattan		Staten Island		To N.Y.C. From N.Y.C.			
	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	3,946	4,555	5,246	7,059	3,258	4,873	1,216	735	13,666	17,222		
1-2am	2,355	2,901	2,856	3,959	2,013	2,707	736	447	7,960	10,014		
2-3am	1,854	2,074	2,314	2,886	1,642	1,905	590	358	6,400	7,223		
3-4am	2,016	2,136	2,935	2,604	1,987	1,927	677	444	7,615	7,111		
4-5am	3,767	2,901	6,238	4,053	3,544	2,718	1,202	757	14,751	10,429		
5-6am	9,340	5,715	17,933	9,017	11,017	5,181	3,161	1,717	41,451	21,630		
6-7am	19,712	11,548	28,506	19,835	19,229	8,901	5,013	3,374	72,460	43,658		
7-8am	23,187	17,205	30,245	29,103	17,389	11,735	4,730	5,523	75,551	63,566		
8-9am	19,772	18,582	27,661	31,235	15,863	11,877	4,519	6,027	67,815	67,721		
9-10am	16,829	14,596	26,040	27,450	14,908	10,803	4,396	4,338	62,173	57,187		
10-11am	15,090	13,571	24,122	23,514	13,225	9,200	3,736	3,999	56,173	50,284		
11-Noon	14,903	14,212	24,286	23,233	11,415	9,922	3,548	3,785	54,152	51,152		
Noon-1	14,878	14,651	24,790	24,831	10,721	10,473	3,681	3,567	54,070	53,522		
1-2pm	15,027	15,300	25,404	26,150	10,525	11,546	3,930	3,774	54,886	56,770		
2-3pm	16,260	17,553	26,122	29,448	11,189	14,108	4,378	4,190	57,949	65,299		
3-4pm	17,624	21,237	28,694	30,841	12,047	17,428	4,944	4,949	63,309	74,455		
4-5pm	19,145	21,298	30,506	30,900	12,229	18,154	5,766	5,102	67,646	75,454		
5-6pm	20,456	21,569	32,377	31,325	12,465	17,473	6,812	5,046	72,110	75,413		
6-7pm	19,021	19,781	30,219	30,506	12,222	17,007	6,178	4,237	67,640	71,531		
7-8pm	15,569	17,107	25,974	27,658	10,723	15,476	4,751	3,839	57,017	64,080		
8-9pm	12,483	13,754	21,003	22,195	8,411	13,155	3,567	2,777	45,464	51,881		
9-10pm	10,664	11,614	18,085	18,722	7,273	11,382	2,780	2,020	38,802	43,738		
10-11pm	8,651	9,791	14,583	15,793	6,351	9,657	2,283	1,589	31,868	36,830		
11-Mid	6,758	7,374	10,022	11,526	4,982	7,583	1,817	1,262	23,579	27,745		
24 hr Total	309,307	301,025	486,161	483,843	234,628	245,191	84,411	73,856	1,114,507	1,103,915		
6-10am	79,500	61,931	112,452	107,623	67,389	43,316	18,658	19,262	277,999	232,132		
10am-1pm	44,871	42,434	73,198	71,578	35,361	29,595	10,965	11,351	164,395	154,958		
1-3pm	31,287	32,853	51,526	55,598	21,714	25,654	8,308	7,964	112,835	122,069		
3-7pm	76,246	83,885	121,796	123,572	48,963	70,062	23,700	19,334	270,705	296,853		
6am-7pm	231,904	221,103	358,972	358,371	173,427	168,627	61,631	57,911	825,934	806,012		

New York City Border Screenline Volumes

Total Hourly Vehicular Volumes ~ 2013



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

Bronx-Westchester Screenline



**Broadway
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 - 1993

During this seven-year period, traffic crossing the Bronx - Westchester border increased just 4.7%, to 506,191 daily vehicles in 1993 from 483,252 in 1986 (including Van Cortlandt Park East, where traffic was counted for the first time in 1986).

- Hutchinson River Parkway traffic increased 22.4%, to 66,430 daily vehicles in 1993 from 54,287 in 1986.
- Henry Hudson Parkway traffic increased 18.4%, to 63,089 daily vehicles from 53,263.

1993 - 2003

Bronx - Westchester screenline traffic volume increased 22.4%, to 619,449 in 2003 from 506,191 in 1993.

- Henry Hudson Parkway traffic increased 56.5% to 98,734 daily vehicles in 2003 from 63,089 in 1993.
- New England Thruway traffic increased 34.3% to 127,557 daily vehicles from 94,961.
- Hutchinson River Parkway traffic increased 34.8%, to 89,548 daily vehicles from 66,430.
- Conversely, traffic on the Major Deegan Expressway and its service roads decreased 1.2%, to 123,715 in 2003 from 125,259 in 1993.

2003 - 2013

During the most recent ten-year period, from 2003 to 2013, Bronx - Westchester screenline traffic overall has decreased by 1.5%, to 610,332 daily vehicles in 2013 from 619,449 in 2003.

- Decreases occurred on eight of the eleven monitored facilities.
- The largest decrease occurred on Boston Road, where daily volume decreased by 4,519 vehicles, to 22,518 in 2013 from 27,037 in 2003 (-16.7%).
- The largest increase was on the New England Thruway, where traffic increased by 5.5%, to 134,597 daily vehicles in 2013 from 127,557 in 2003.

1963 - 2013

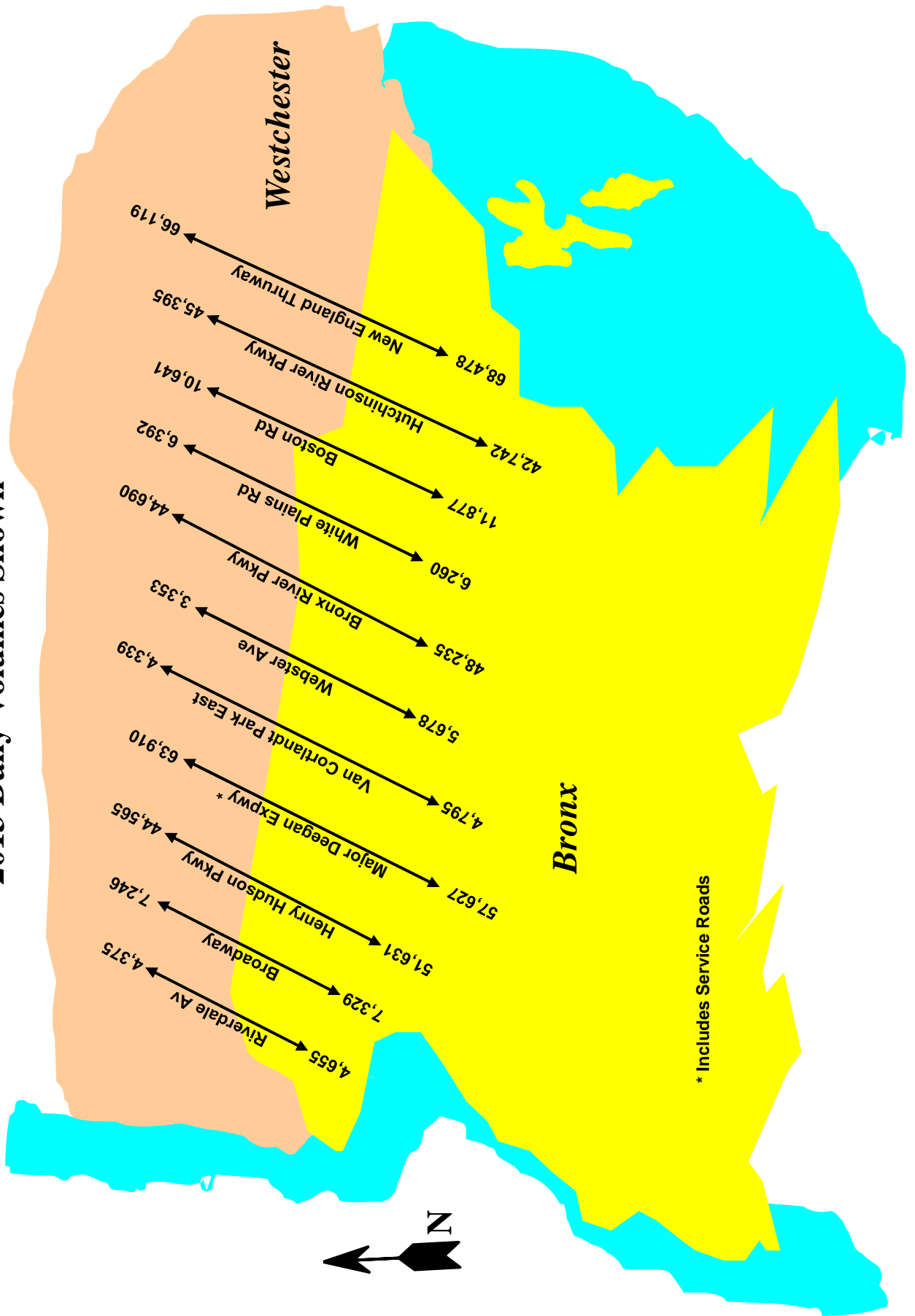
During the 50 years from 1963 to 2013, total daily traffic on the ten Bronx – Westchester facilities monitored throughout the period more than doubled, to 601,198 from 269,650.

- Most of the growth in Bronx - Westchester traffic since 1963 has occurred on the five limited access highways crossing the screenline.
- Of the 331,548 additional daily vehicles on the ten continuously-monitored facilities, 319,762 (96% of the total increase) are on the limited access highways.
- The fastest growth occurred on the Hutchinson River Parkway, where traffic volume soared 446%, to 88,137 daily vehicles in 2013 from 16,150 in 1963.
- Henry Hudson Parkway volume more than tripled, to 96,196 daily vehicles in 2013 from 29,010 in 1963.

- New England Thruway Traffic volume climbed 140%, to 134,597 daily vehicles from 56,070.
- Bronx River Parkway traffic volume more than doubled, to 92,925 from 44,120.
- Traffic volume on the Major Deegan Expressway and its service roads was up 78%, to 121,537 daily vehicles from 68,280.
- Boston Road exhibited the largest change of any arterial facility since 1963, with daily volume rising 105%, to 22,518 from 10,980.

Bronx - Westchester Screenline

2013 Daily Volumes Shown



**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
Hutchinson 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
Boston Rd	13,016	12,370	12,537	12,418	12,210	11,578	11,788	12,445	12,361	11,877
Broadway	8,125	8,196	8,327	7,971	7,641	7,560	7,612	7,172	7,808	7,329
Bronx River Pky	47,666	48,587	47,918	47,563	46,292	48,112	48,391	45,340	48,709	48,235
Henry Hudson Pky	51,983	54,310	52,413	55,925	50,068	50,862	52,077	50,327	49,260	51,631
Hutchinson River Pky	48,534	46,537	42,783	47,698	45,313	45,184	46,677	44,321	42,048	42,742
Major Deegan Exp *	58,735	58,734	59,856	61,525	57,220	59,121	57,429	54,972	55,165	57,627
New England Thruway	66,869	68,815	65,776	68,247	62,231	67,328	66,730	69,032	66,234	68,478
Riverdale Ave	6,098	6,167	5,965	6,160	5,550	4,835	5,001	5,523	5,217	4,655
Van Cortlandt Pk E	6,193	5,952	6,012	5,388	5,636	5,842	5,443	4,811	5,389	4,795
Webster Ave	6,885	7,003	6,634	6,412	6,214	6,349	6,232	5,913	6,234	5,678
White Plains Rd	5,982	6,354	5,913	6,507	6,077	6,047	6,223	5,908	6,792	6,260
Totals	320,086	323,025	314,134	325,814	304,452	312,818	313,603	305,764	305,217	309,307

* Includes service roads.

**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
Hutchinson 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
Boston Rd	11,596	12,099	11,866	11,932	10,897	10,124	12,144	12,156	11,307	10,641
Broadway	7,778	8,256	7,611	7,848	7,745	7,646	7,705	7,354	7,653	7,246
Bronx River Pky	46,473	45,883	44,205	44,441	41,385	41,516	43,302	40,710	42,665	44,690
Henry Hudson Pky	46,067	46,797	46,931	48,400	43,637	45,120	45,809	43,261	45,713	44,565
Hutchinson River Pky	47,731	45,718	45,662	42,052	45,660	46,478	46,568	46,023	45,812	45,395
Major Deegan Exp *	63,451	62,823	64,320	64,498	62,438	62,827	62,988	61,650	61,463	63,910
New England Thruway	63,168	67,393	69,383	69,530	62,241	63,167	66,065	65,744	65,179	66,119
Riverdale Ave	5,261	5,636	5,505	5,581	5,355	4,703	4,591	4,875	5,005	4,375
Van Cortlandt Pk E	4,577	4,779	4,663	4,537	4,738	4,810	4,714	4,311	4,369	4,339
Webster Ave	4,523	4,321	3,901	4,301	3,649	3,764	3,579	3,561	3,682	3,353
White Plains Rd	6,583	6,620	6,377	6,904	6,401	6,331	6,410	6,100	6,572	6,392
Totals	307,208	310,325	310,424	310,024	294,146	296,486	303,875	295,745	299,420	301,025

* Includes service roads.

**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
Hutchinson 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

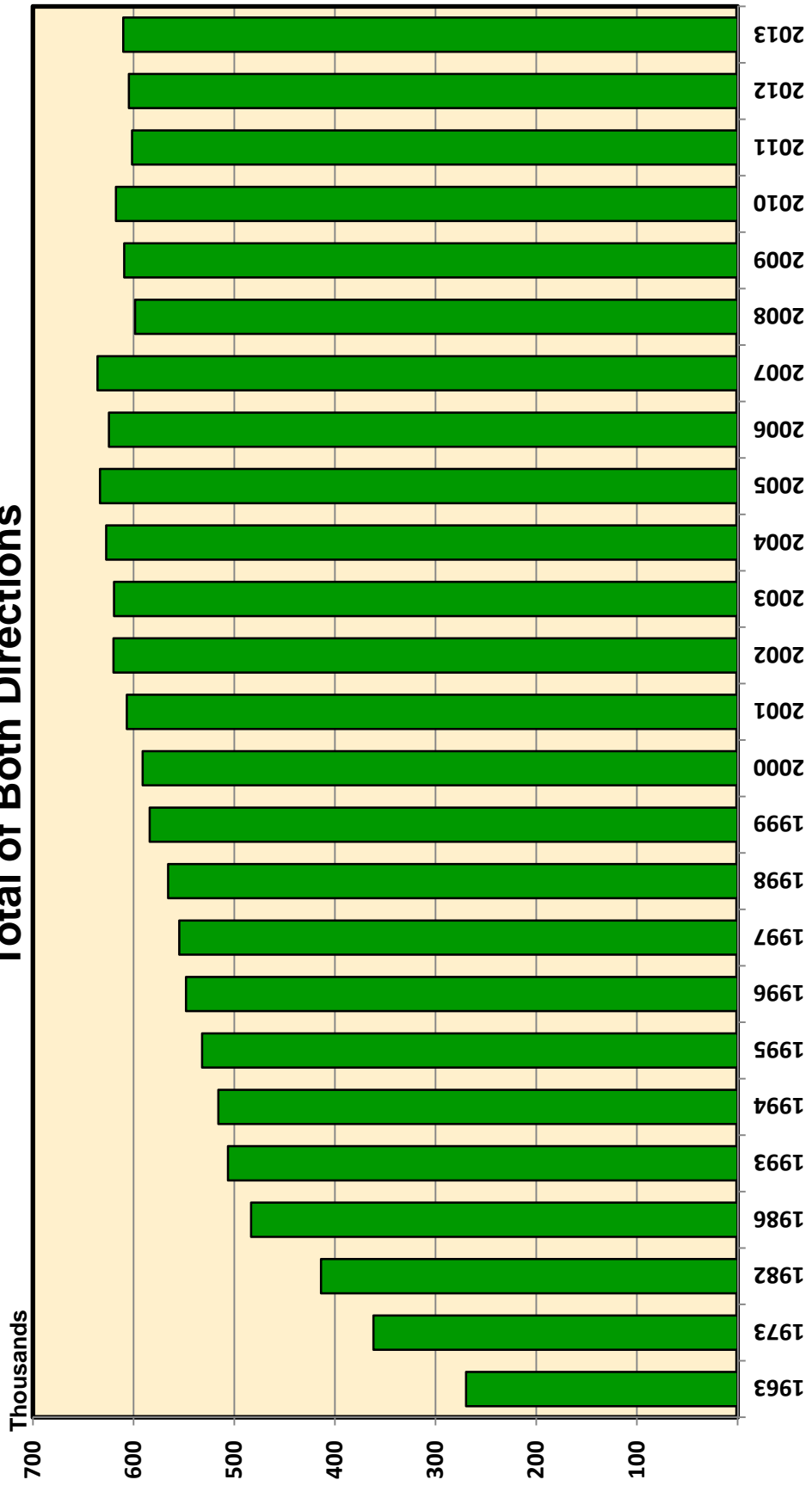
Both Directions

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

* Includes service roads.

Bronx – Westchester Screenline

Historical Comparisons Average Daily Traffic Volumes Total of Both Directions



2013 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	89	63	114	89	567	483	356	619	379	655	759	1,038	39	116
1-2am	52	42	72	56	274	273	172	317	194	317	509	604	30	70
2-3am	43	31	51	49	184	177	117	185	122	169	410	440	16	39
3-4am	45	36	51	54	197	180	134	125	146	136	446	422	19	35
4-5am	75	54	69	79	409	278	322	176	436	280	848	600	40	36
5-6am	161	116	146	200	1,297	637	1,194	449	1,268	922	2,273	1,127	123	70
6-7am	332	292	323	292	3,524	1,736	3,712	1,265	2,719	2,273	4,315	2,149	230	178
7-8am	620	482	541	378	4,189	2,670	5,019	2,453	3,343	3,054	4,210	2,978	334	256
8-9am	637	545	512	348	3,167	2,921	4,250	2,813	3,057	2,865	3,424	3,122	285	305
9-10am	565	557	393	319	2,786	1,918	3,338	1,893	2,563	2,544	2,897	2,655	214	257
10-11am	562	594	371	341	2,264	1,639	2,730	1,709	2,165	2,398	2,442	2,506	191	267
11-Noon	663	684	356	350	2,059	1,743	2,453	1,800	2,115	2,342	2,329	2,659	199	329
Noon-1	778	783	383	370	2,083	1,841	2,359	1,925	2,076	2,367	2,376	2,729	200	291
1-2pm	792	786	388	390	2,094	2,075	2,286	2,143	2,113	2,511	2,399	2,816	204	295
2-3pm	803	805	403	473	2,383	2,822	2,605	2,508	2,309	2,854	2,566	3,168	206	342
3-4pm	854	829	455	504	2,792	4,147	3,020	3,387	2,473	2,668	2,765	4,145	214	450
4-5pm	890	798	442	551	3,064	3,950	3,379	3,477	2,591	2,578	2,889	4,242	215	494
5-6pm	871	767	481	506	3,326	3,922	3,656	3,772	2,640	2,603	3,183	4,228	221	545
6-7pm	840	679	439	454	3,031	3,362	3,221	3,348	2,503	2,632	2,977	4,006	213	504
7-8pm	734	593	376	412	2,373	2,504	2,399	2,939	2,249	2,710	2,505	3,394	171	372
8-9pm	564	434	308	339	1,948	1,816	1,695	2,250	1,810	2,182	2,217	2,770	142	322
9-10pm	416	295	250	306	1,755	1,513	1,425	1,900	1,500	1,825	2,134	2,348	124	248
10-11pm	273	220	234	230	1,374	1,232	1,066	1,812	1,205	1,424	1,705	1,997	91	203
11-Mid	218	156	171	156	1,095	851	723	1,300	766	1,086	1,254	1,567	74	176
24 hr Total	11,877	10,641	7,329	7,246	48,235	44,690	51,631	44,565	42,742	45,395	53,832	57,710	3,795	6,200
6-10am	2,154	1,876	1,769	1,337	13,666	9,245	16,319	8,424	11,682	10,736	14,846	10,904	1,063	996
10am-1pm	2,003	2,061	1,110	1,061	6,406	5,223	7,542	5,434	6,356	7,107	7,147	7,894	590	887
1-3pm	1,595	1,591	791	863	4,477	4,897	4,891	4,651	4,422	5,365	4,965	5,984	410	637
3-7pm	3,455	3,073	1,817	2,015	12,213	15,381	13,276	13,984	10,207	10,481	11,814	16,621	863	1,993
6am-7pm	9,207	8,601	5,487	5,276	36,762	34,746	42,028	32,493	32,667	33,689	38,772	41,403	2,926	4,513

* To Bronx

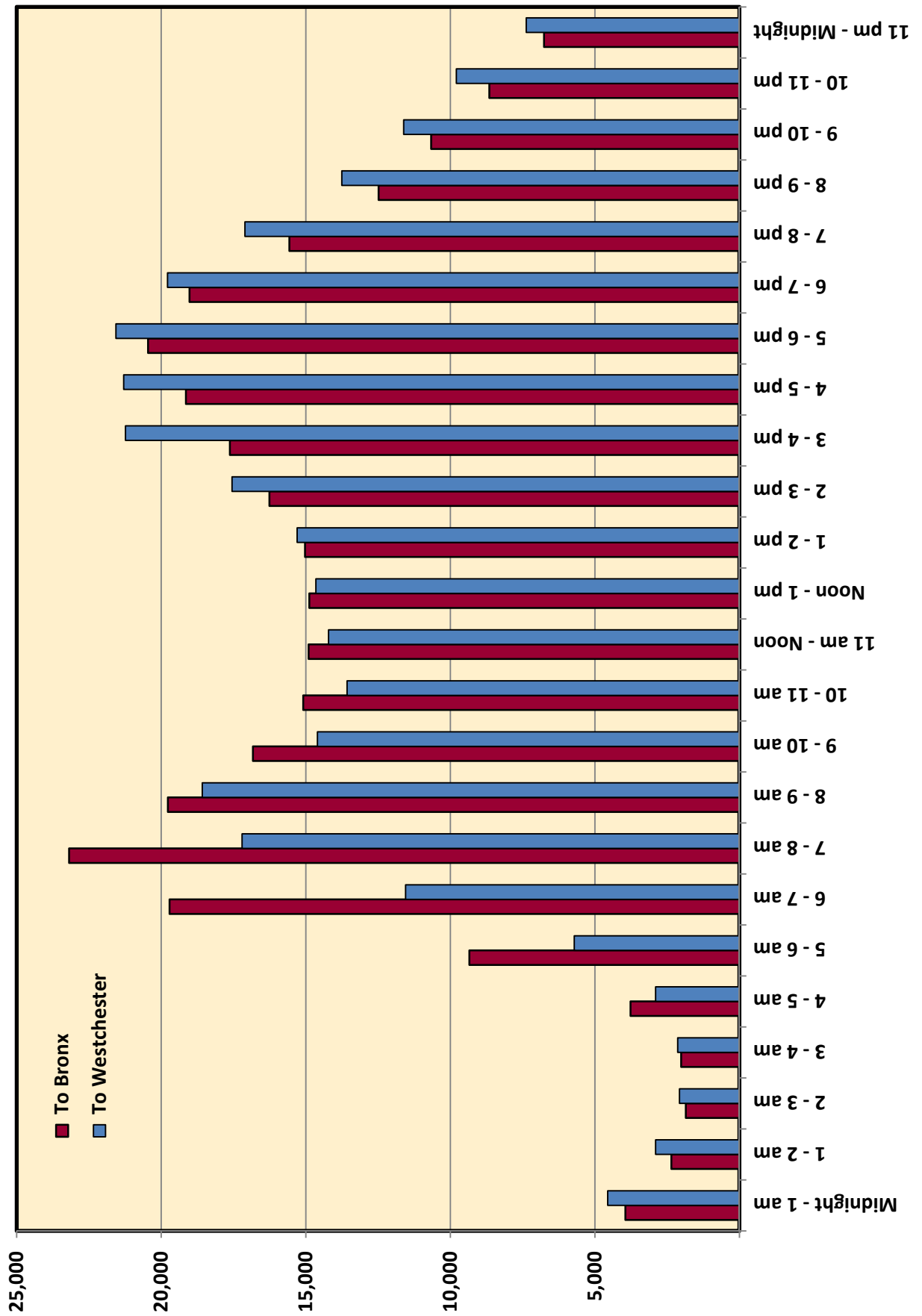
2013 Screenline Volumes Bronx - Westchester (cont'd)

	New England Thruway		Riverdale Ave		Van Cortlandt Park East		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	1,358	1,186	37	63	54	66	70	56	124	121	3,946	4,555
1-2am	867	1,028	23	34	32	38	43	25	87	97	2,355	2,901
2-3am	757	843	15	18	24	25	35	17	80	81	1,854	2,074
3-4am	844	1,025	18	16	19	19	25	15	72	73	2,016	2,136
4-5am	1,380	1,250	26	18	27	27	38	19	97	84	3,767	2,901
5-6am	2,491	1,953	69	39	99	52	97	30	122	120	9,340	5,715
6-7am	3,732	2,859	195	126	172	101	240	81	218	196	19,712	11,548
7-8am	3,665	4,106	303	195	262	189	393	146	308	298	23,187	17,205
8-9am	3,104	4,646	327	252	283	222	424	204	302	339	19,772	18,582
9-10am	3,045	3,581	256	235	225	194	313	152	234	291	16,829	14,596
10-11am	3,353	3,263	255	212	218	201	287	147	252	294	15,090	13,571
11-Noon	3,644	3,360	276	215	243	242	276	169	290	319	14,903	14,212
Noon-1	3,448	3,317	280	262	269	238	289	184	337	344	14,878	14,651
1-2pm	3,545	3,261	288	248	269	242	306	186	343	347	15,027	15,300
2-3pm	3,684	3,467	318	268	306	272	337	200	340	374	16,260	17,553
3-4pm	3,625	3,810	340	307	313	325	377	256	396	409	17,624	21,237
4-5pm	4,226	3,811	344	320	351	365	343	279	411	433	19,145	21,298
5-6pm	4,570	3,761	316	334	353	351	394	337	445	443	20,456	21,569
6-7pm	4,396	3,477	257	319	365	323	352	252	427	425	19,021	19,781
7-8pm	3,586	3,115	203	260	287	269	314	183	372	356	15,569	17,107
8-9pm	2,852	2,754	170	222	232	208	232	147	313	310	12,483	13,754
9-10pm	2,288	2,506	132	161	177	154	203	114	260	244	10,664	11,614
10-11pm	2,050	2,126	124	142	128	120	166	84	235	201	8,651	9,791
11-Mid	1,968	1,614	83	109	87	96	124	70	195	193	6,758	7,374
24 hr Total	68,478	66,119	4,655	4,375	4,795	4,339	5,678	3,353	6,260	6,392	309,307	301,025
6-10am	13,546	15,192	1,081	808	942	706	1,370	583	1,062	1,124	79,500	61,931
10am-1pm	10,445	9,940	811	689	730	681	852	500	879	957	44,871	42,434
1-3pm	7,229	6,728	606	516	575	514	643	386	683	721	31,287	32,853
3-7pm	16,817	14,859	1,257	1,280	1,382	1,364	1,466	1,124	1,679	1,710	76,246	83,885
6am-7pm	48,037	46,719	3,755	3,293	3,629	3,265	4,331	2,593	4,303	4,512	231,904	221,103

* To Bronx

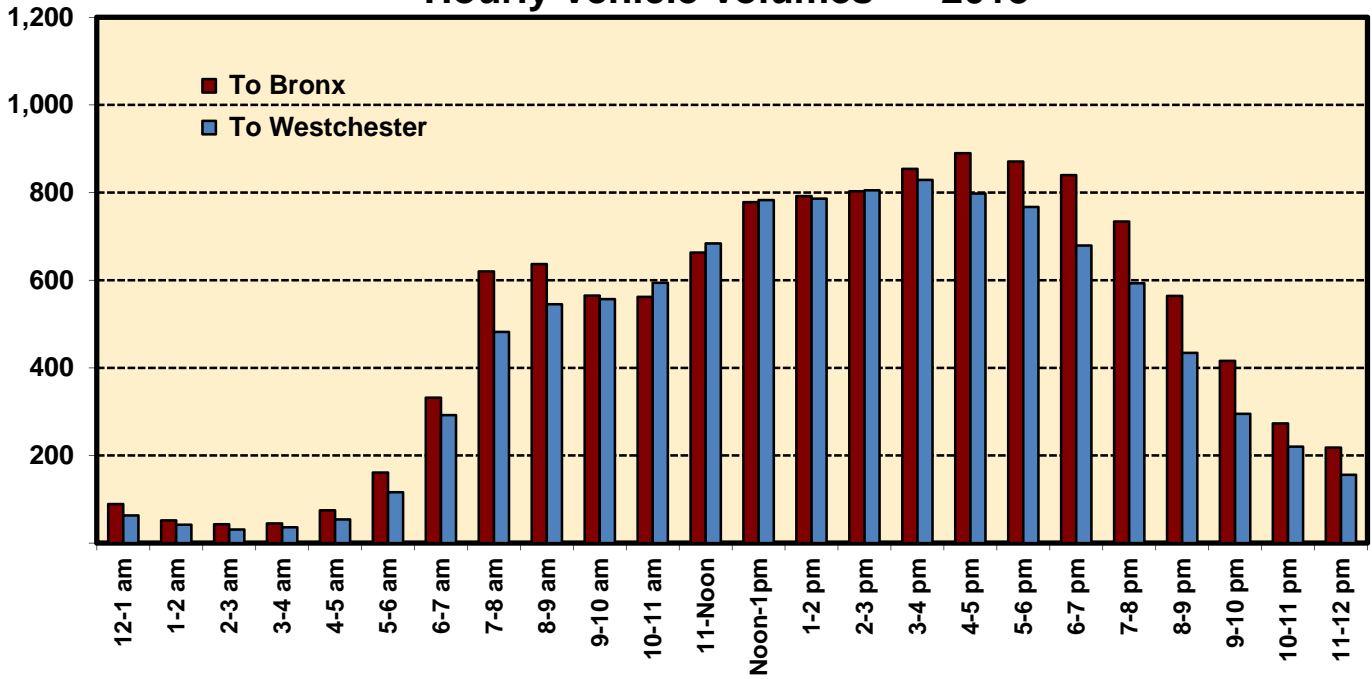
Bronx - Westchester Screenline

Total Hourly Vehicle Volumes ~ 2013

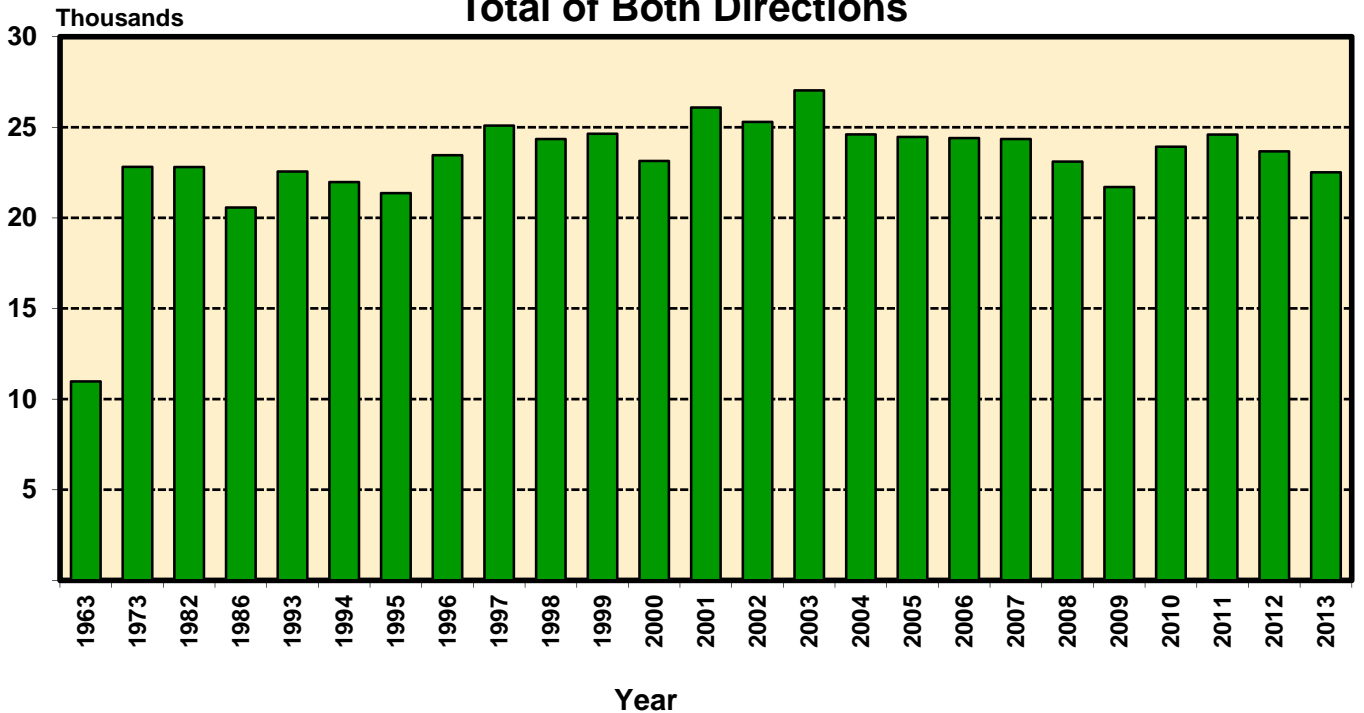


Bronx – Westchester Screenline Volumes

Boston Road Hourly Vehicle Volumes ~ 2013

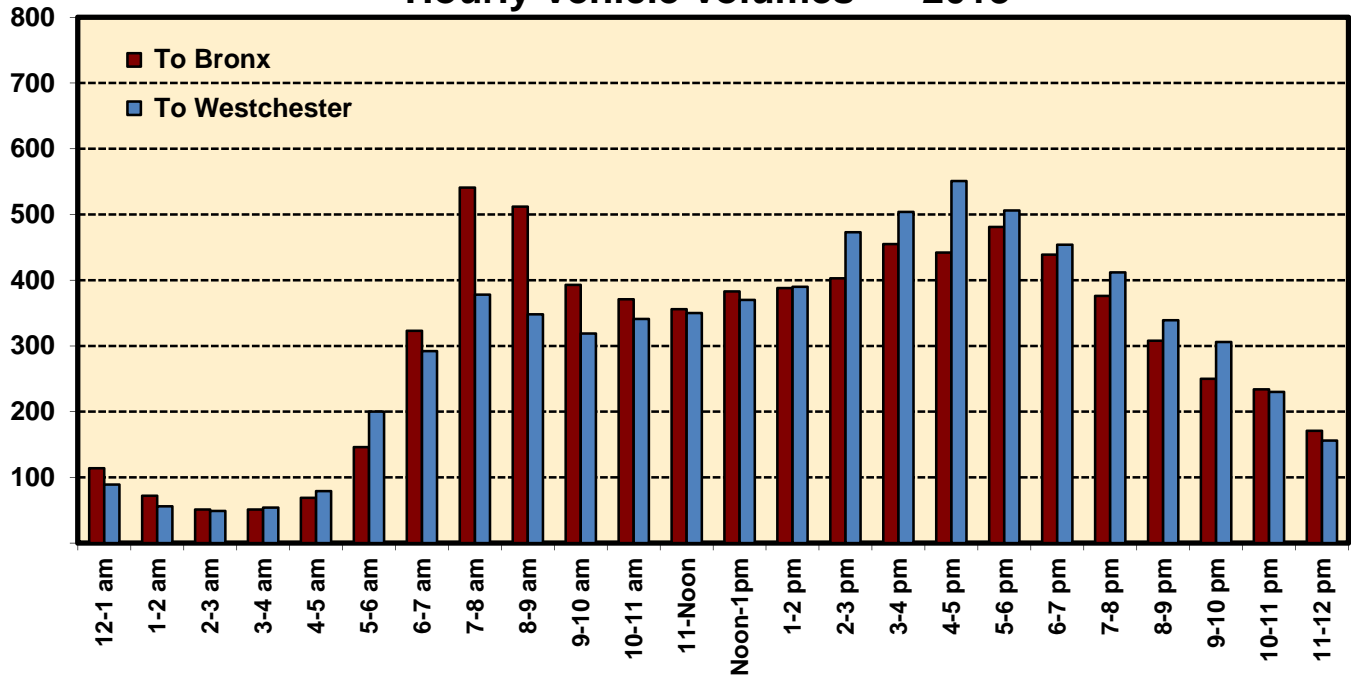


Boston Road Average Daily Traffic Volumes Total of Both Directions

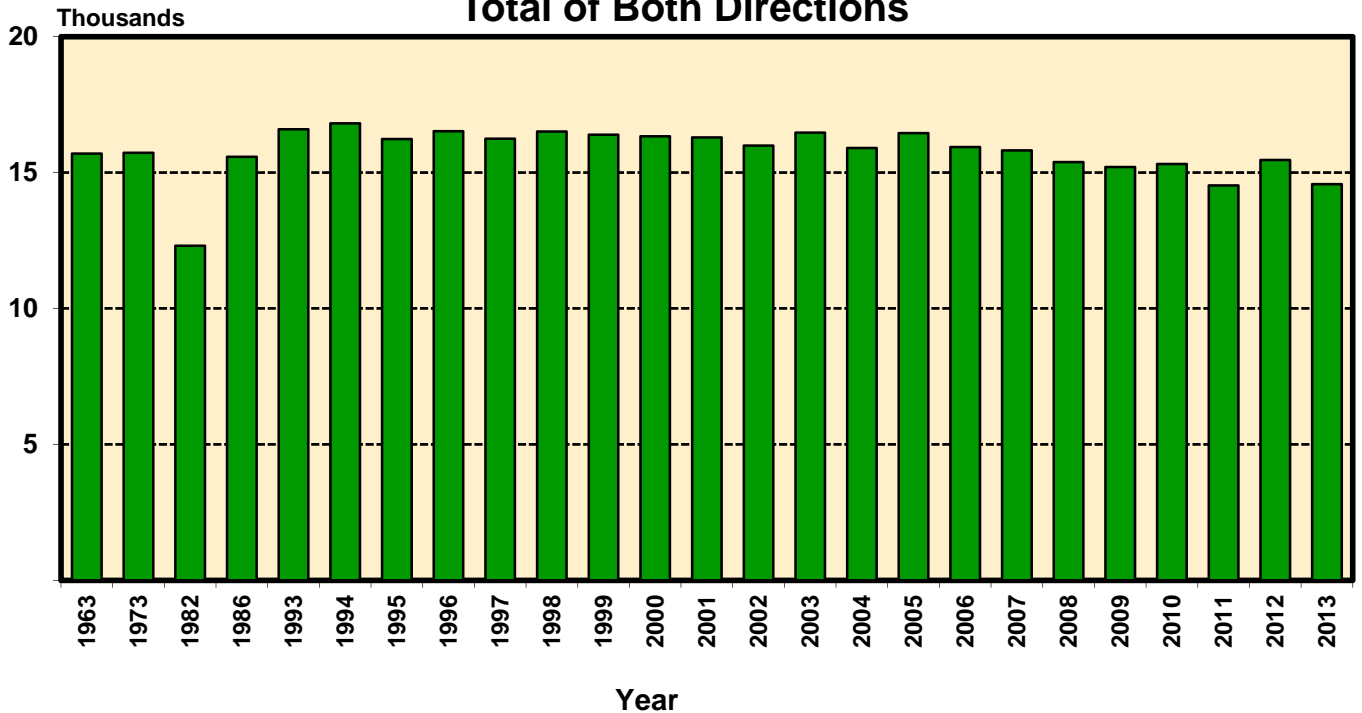


Bronx – Westchester Screenline Volumes

Broadway Hourly Vehicle Volumes ~ 2013

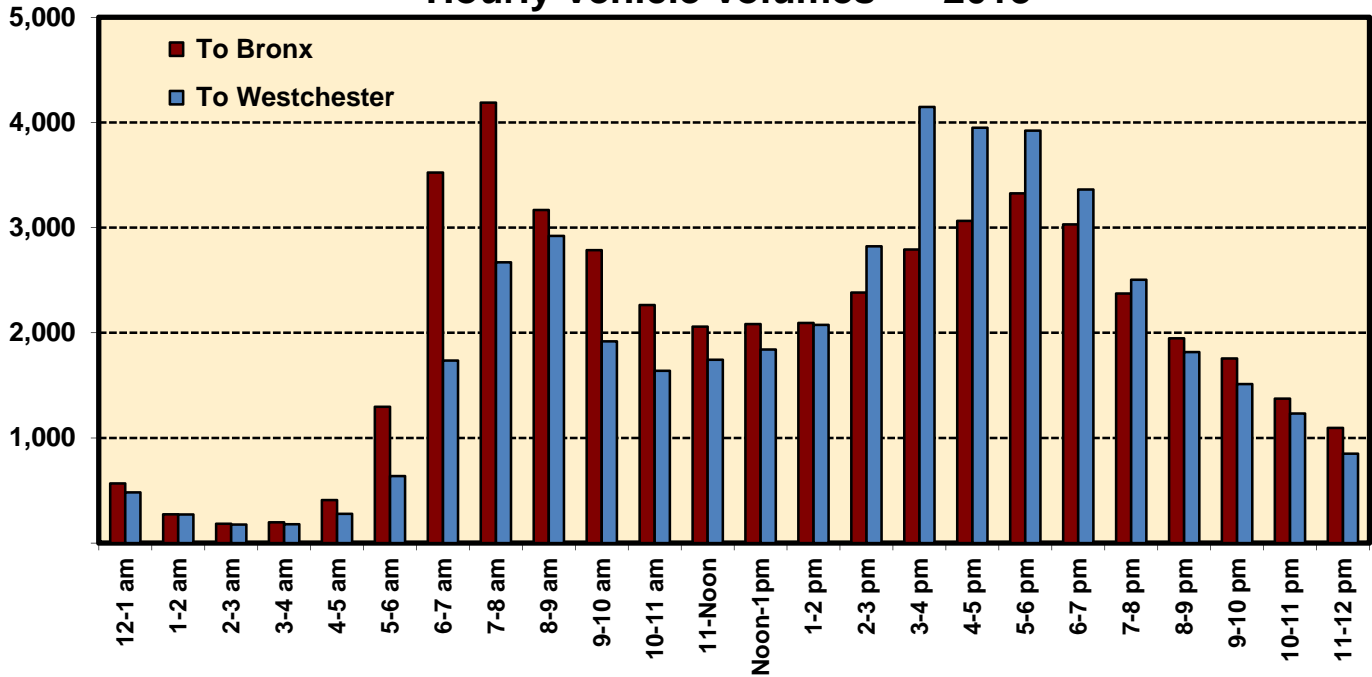


Broadway Average Daily Traffic Volumes Total of Both Directions

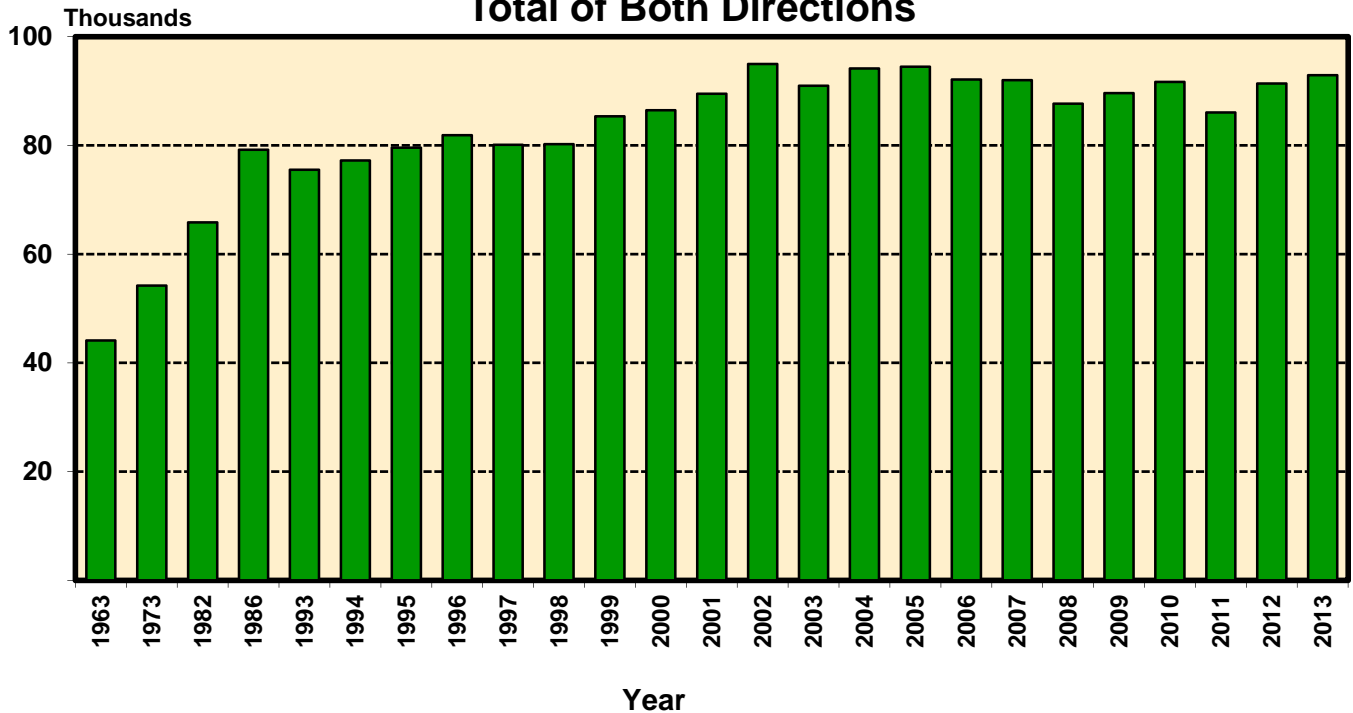


Bronx – Westchester Screenline Volumes

Bronx River Parkway Hourly Vehicle Volumes ~ 2013

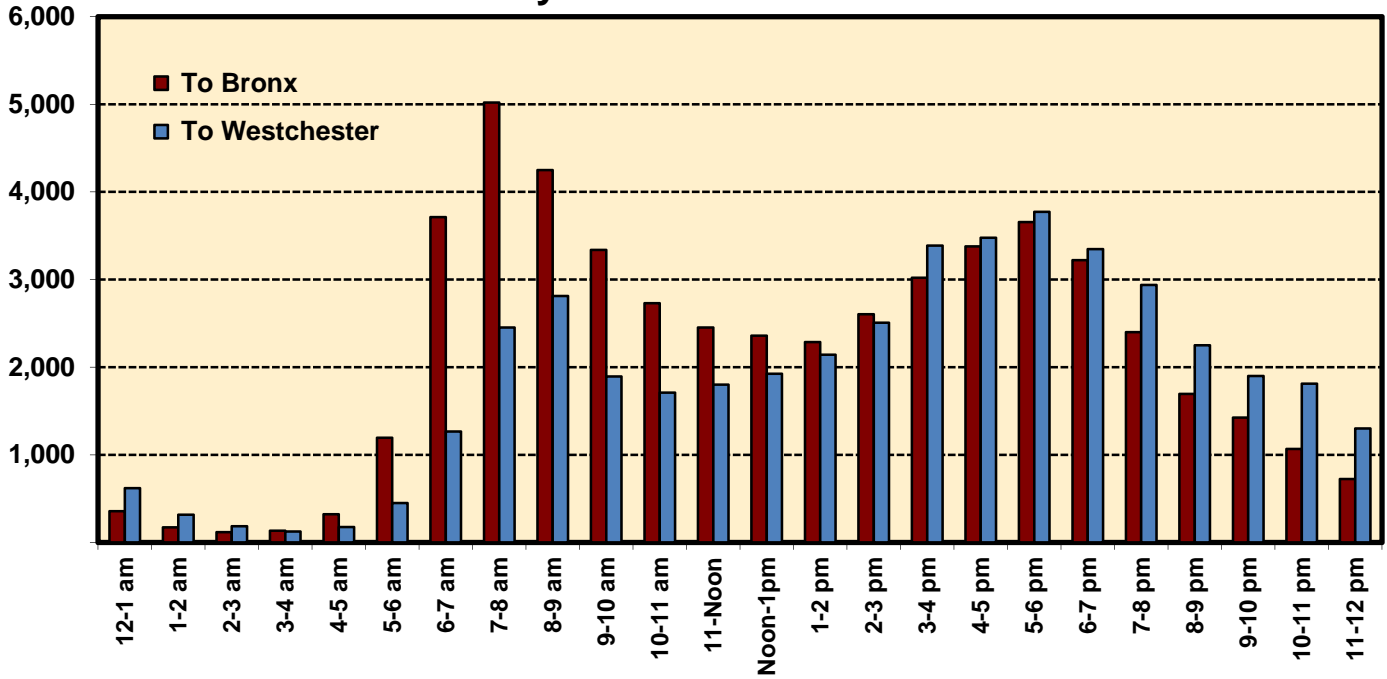


Bronx River Parkway Average Daily Traffic Volumes Total of Both Directions

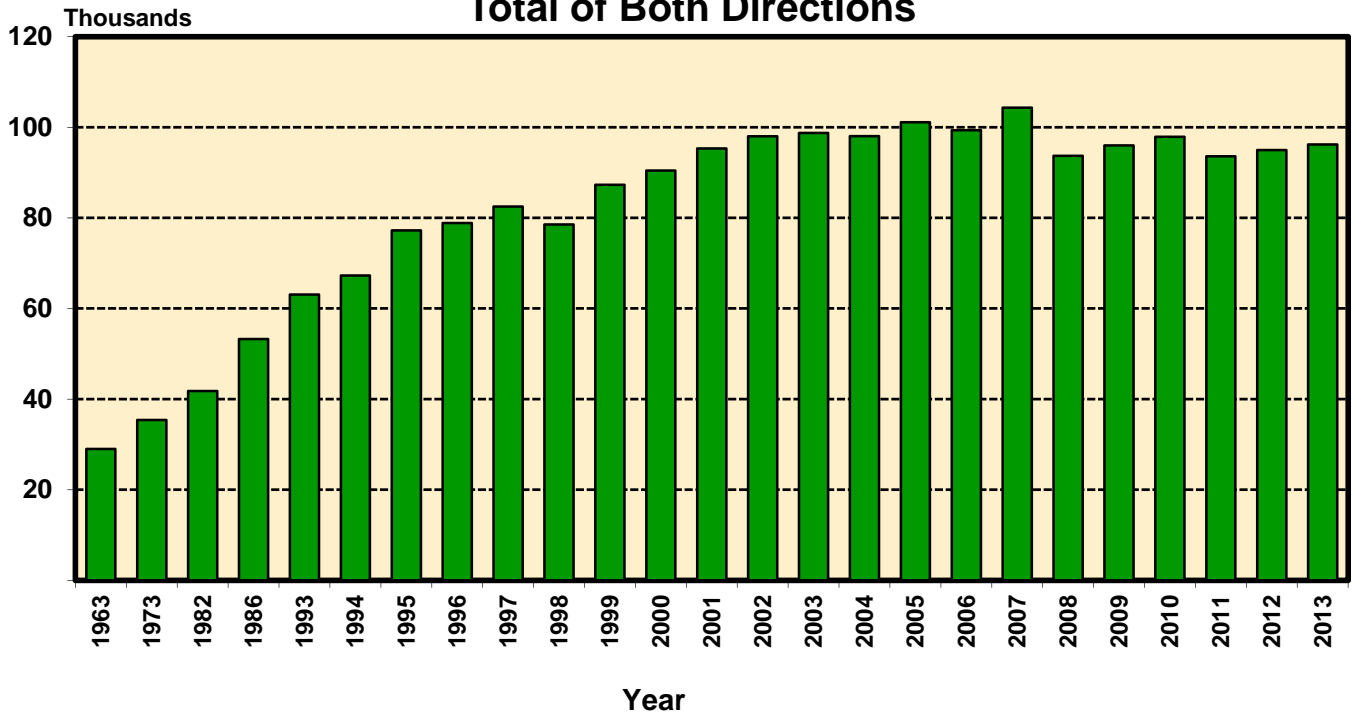


Bronx – Westchester Screenline Volumes

Henry Hudson Parkway Hourly Vehicle Volumes ~ 2013

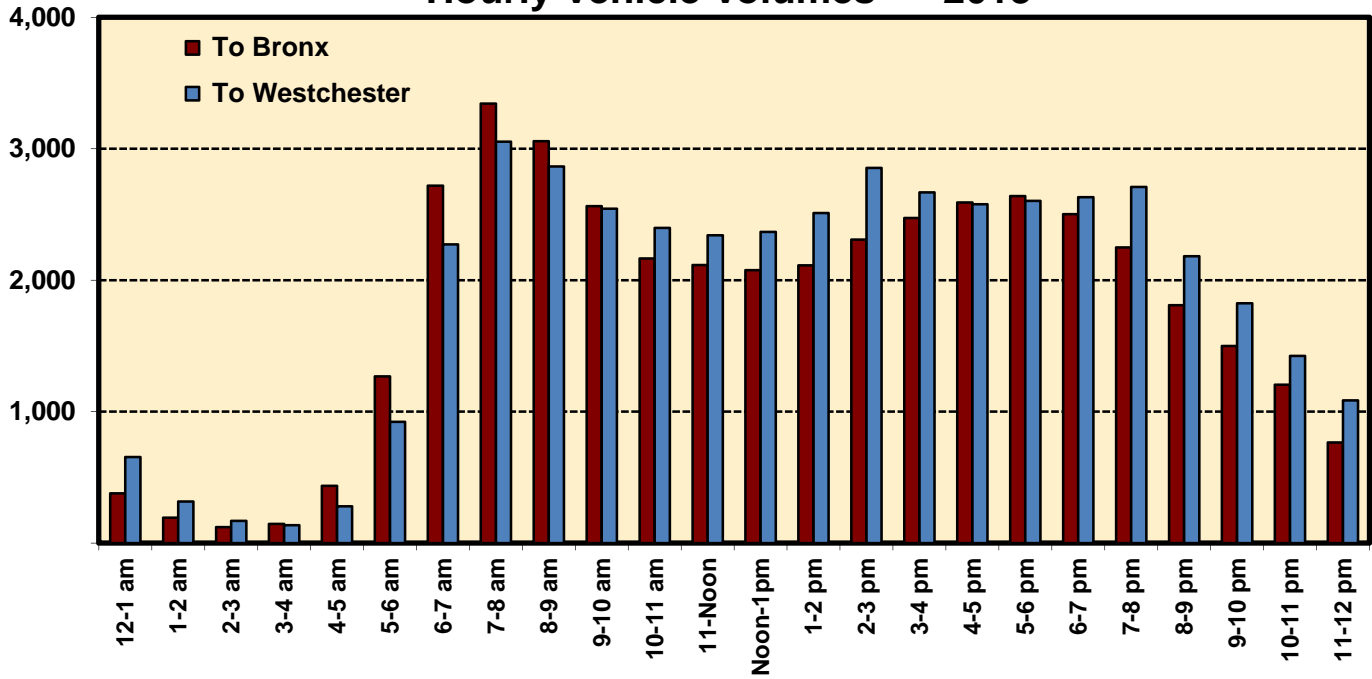


Henry Hudson Parkway Average Daily Traffic Volumes Total of Both Directions

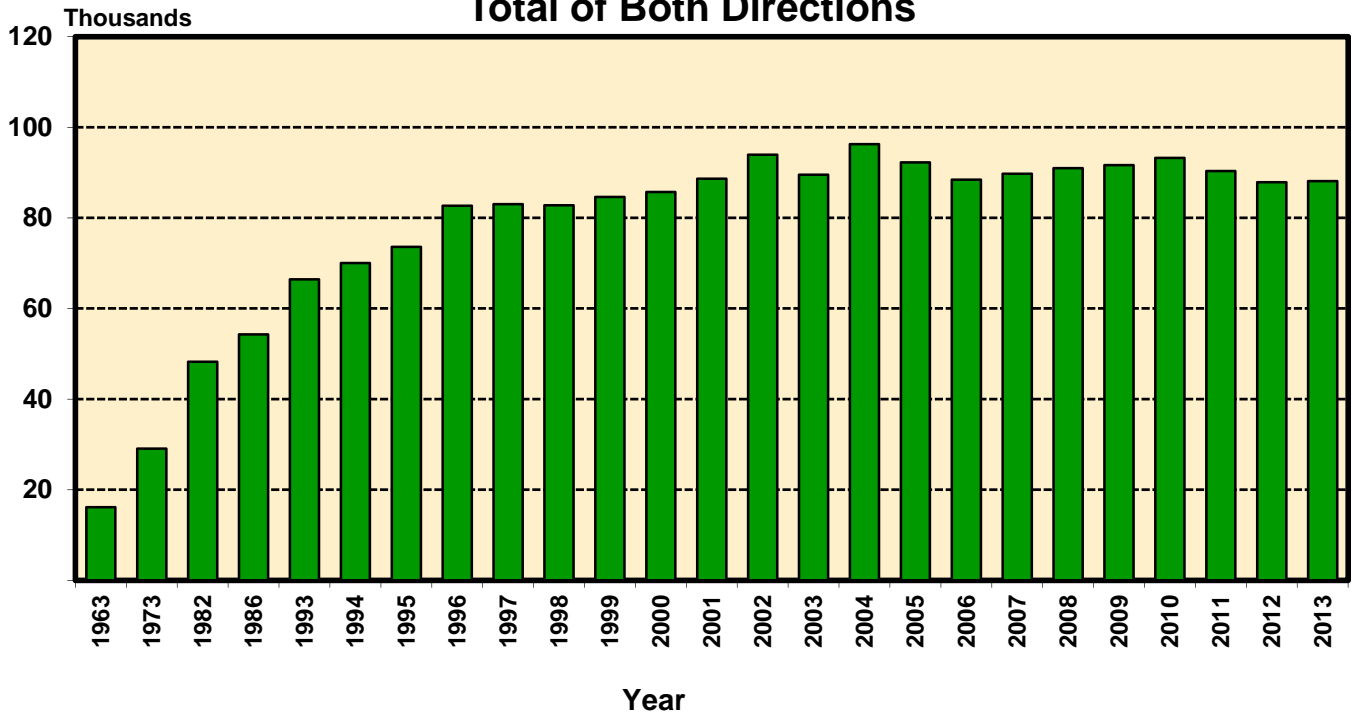


Bronx – Westchester Screenline Volumes

Hutchinson River Parkway Hourly Vehicle Volumes ~ 2013

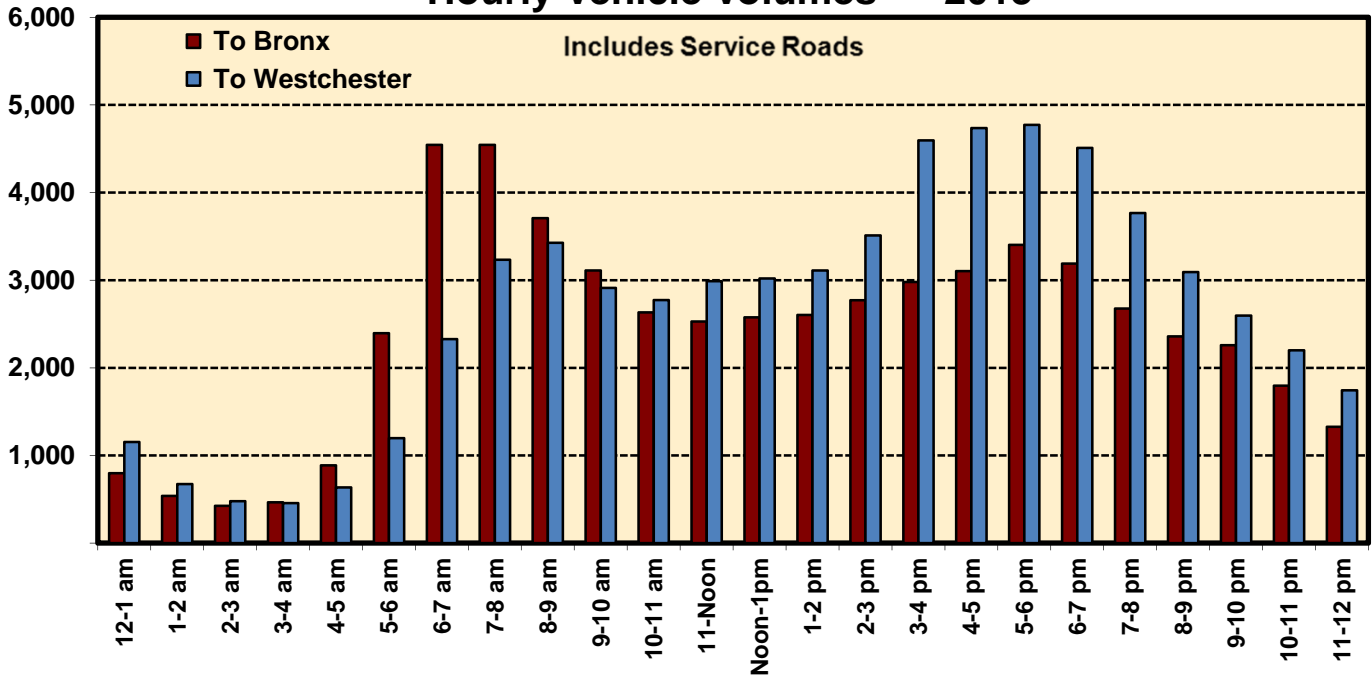


Hutchinson River Parkway Average Daily Traffic Volumes Total of Both Directions

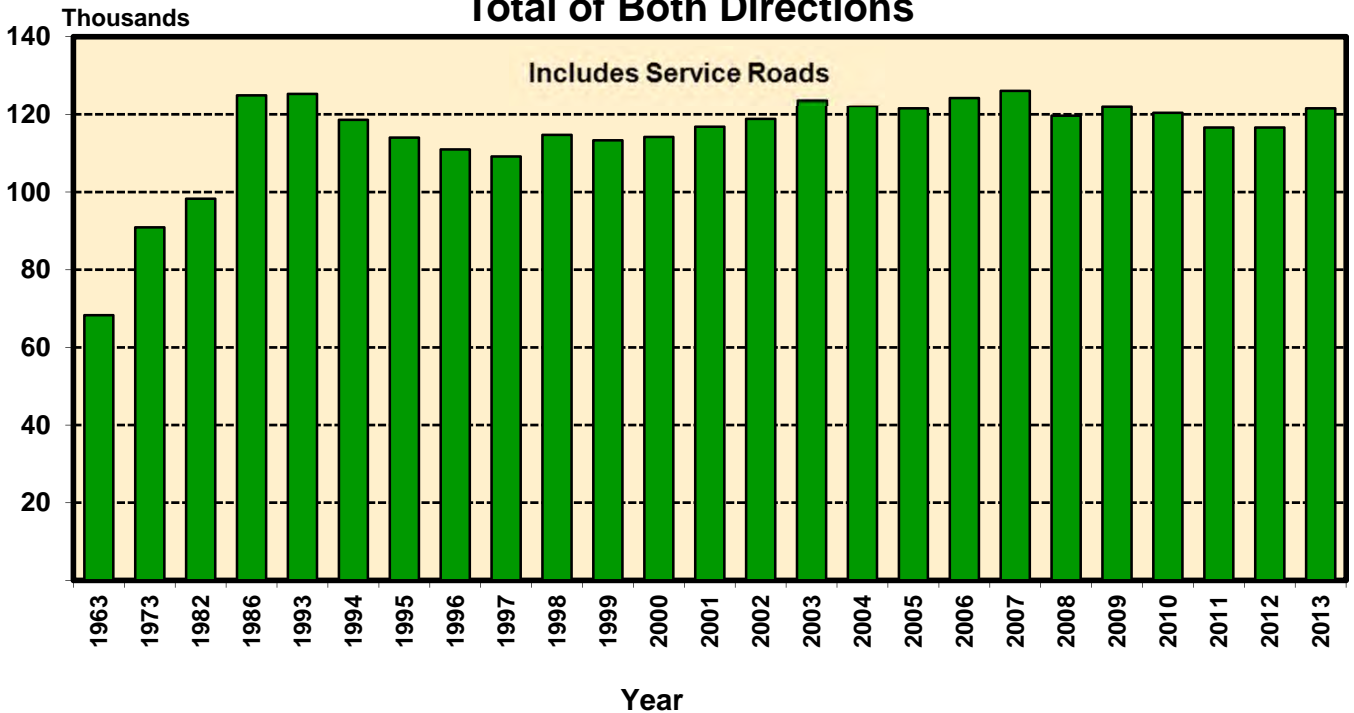


Bronx – Westchester Screenline Volumes

Major Deegan Expressway Hourly Vehicle Volumes ~ 2013

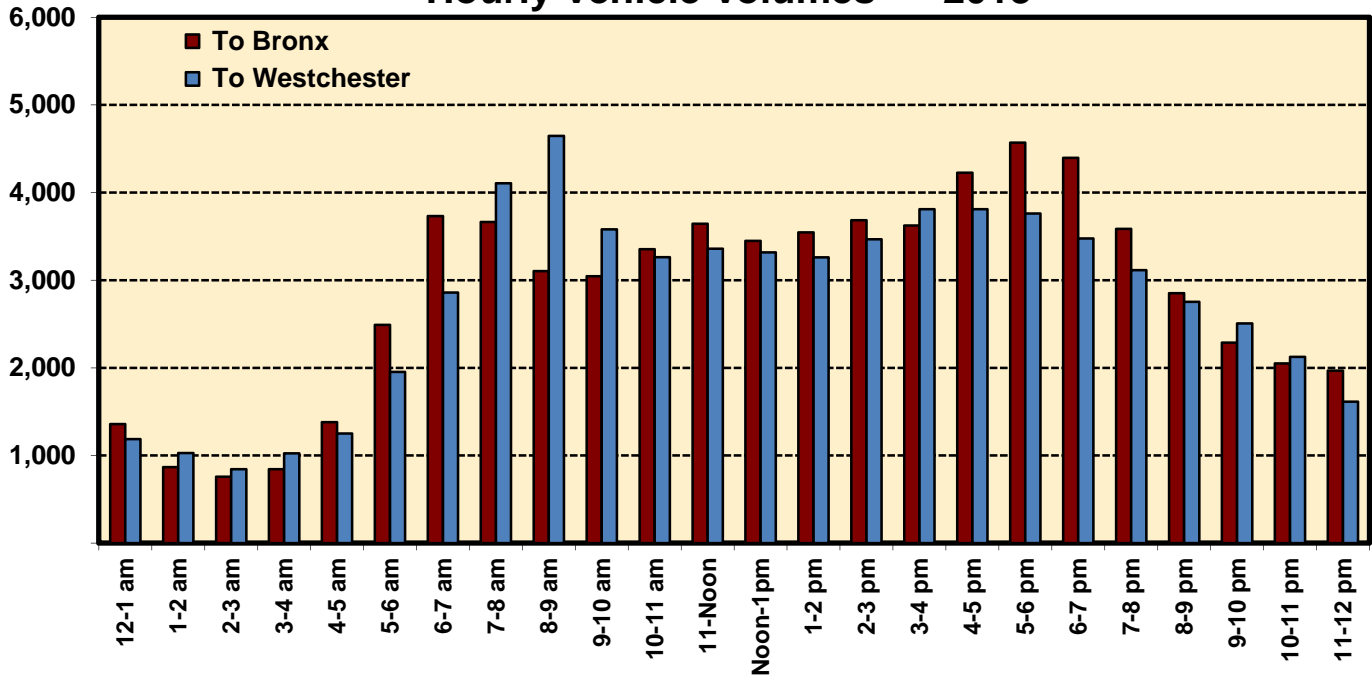


Major Deegan Expressway Average Daily Traffic Volumes Total of Both Directions

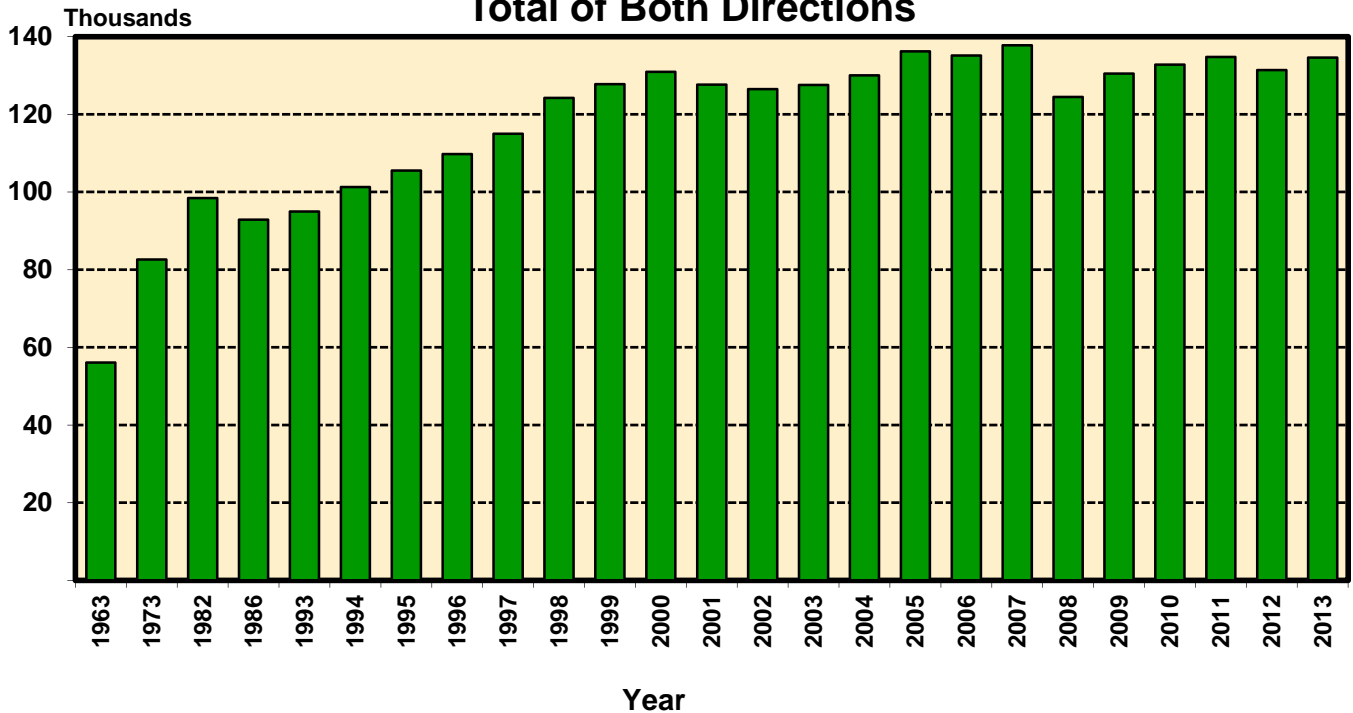


Bronx – Westchester Screenline Volumes

New England Thruway Hourly Vehicle Volumes ~ 2013

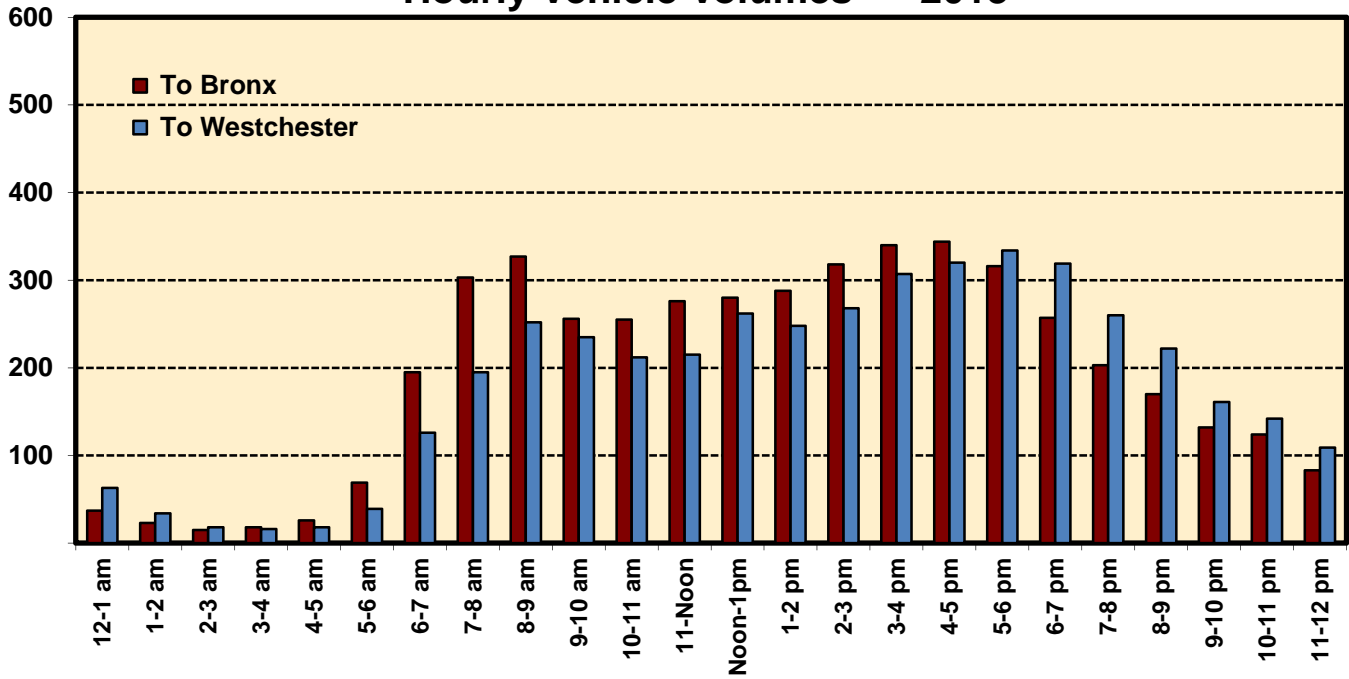


New England Thruway Average Daily Traffic Volumes Total of Both Directions

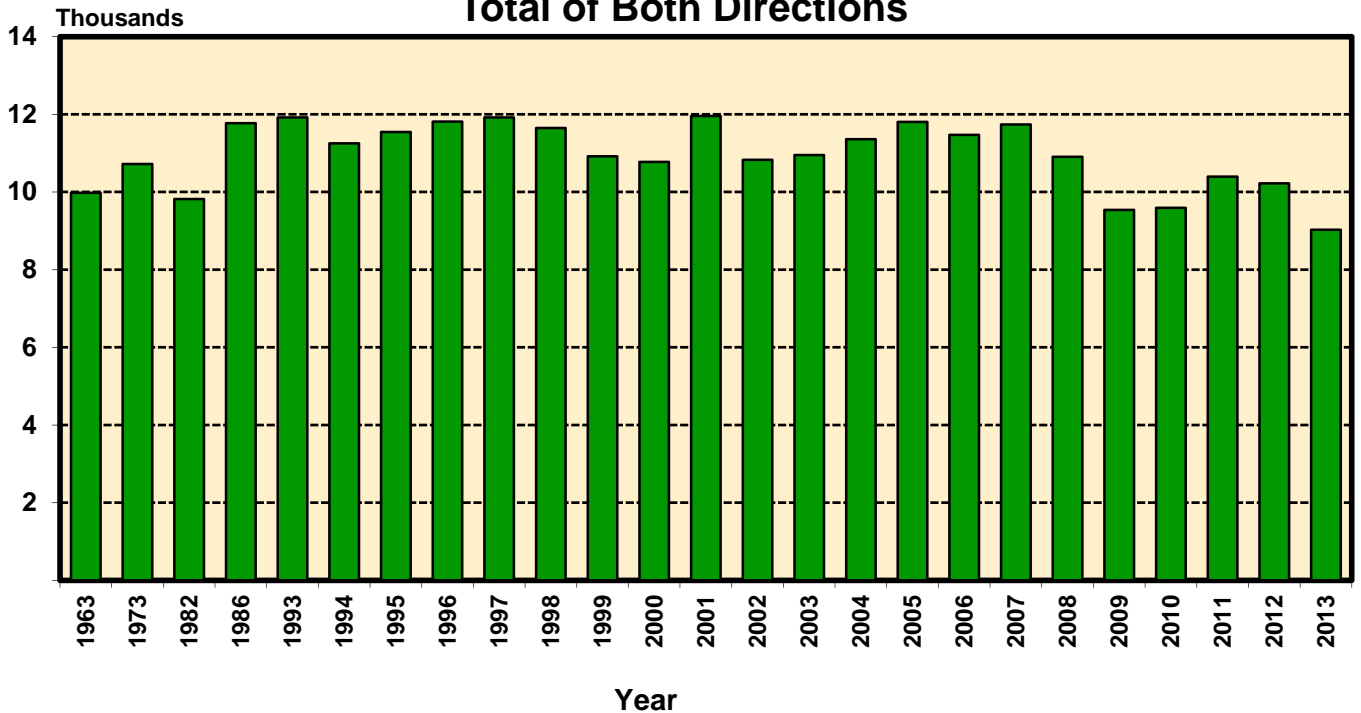


Bronx – Westchester Screenline Volumes

Riverdale Avenue Hourly Vehicle Volumes ~ 2013

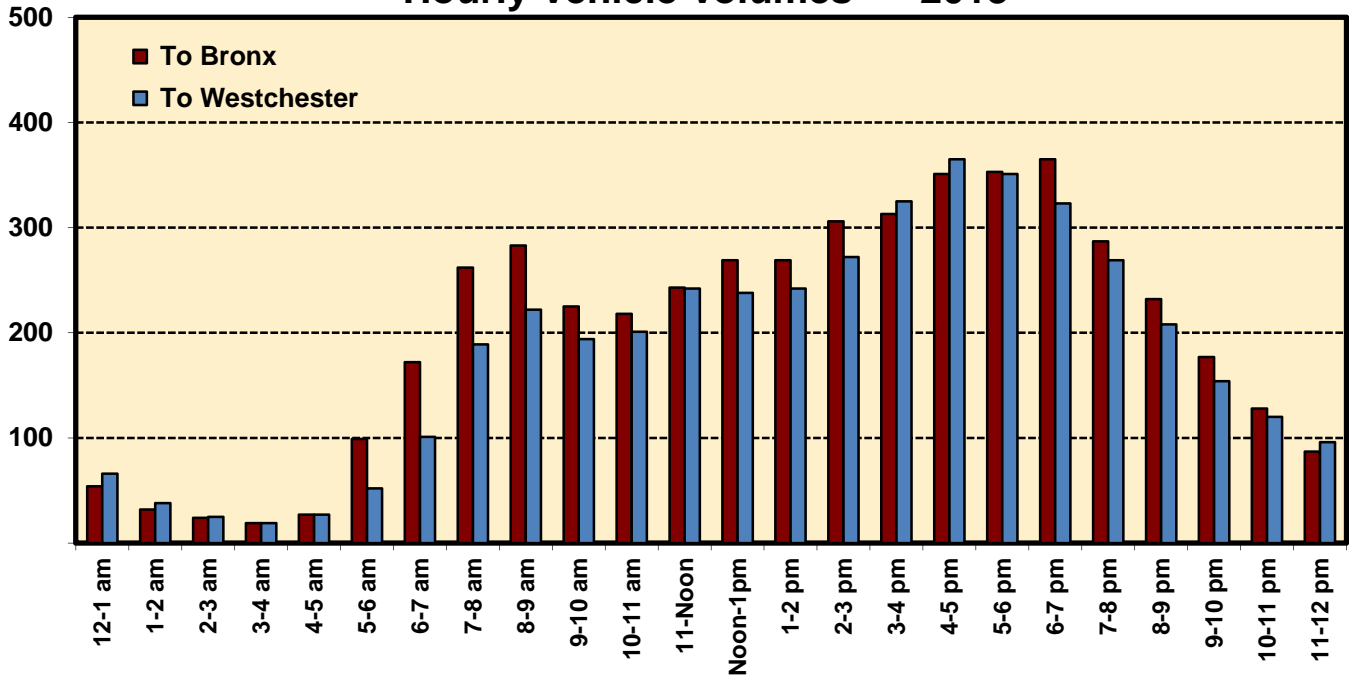


Riverdale Avenue Average Daily Traffic Volumes Total of Both Directions

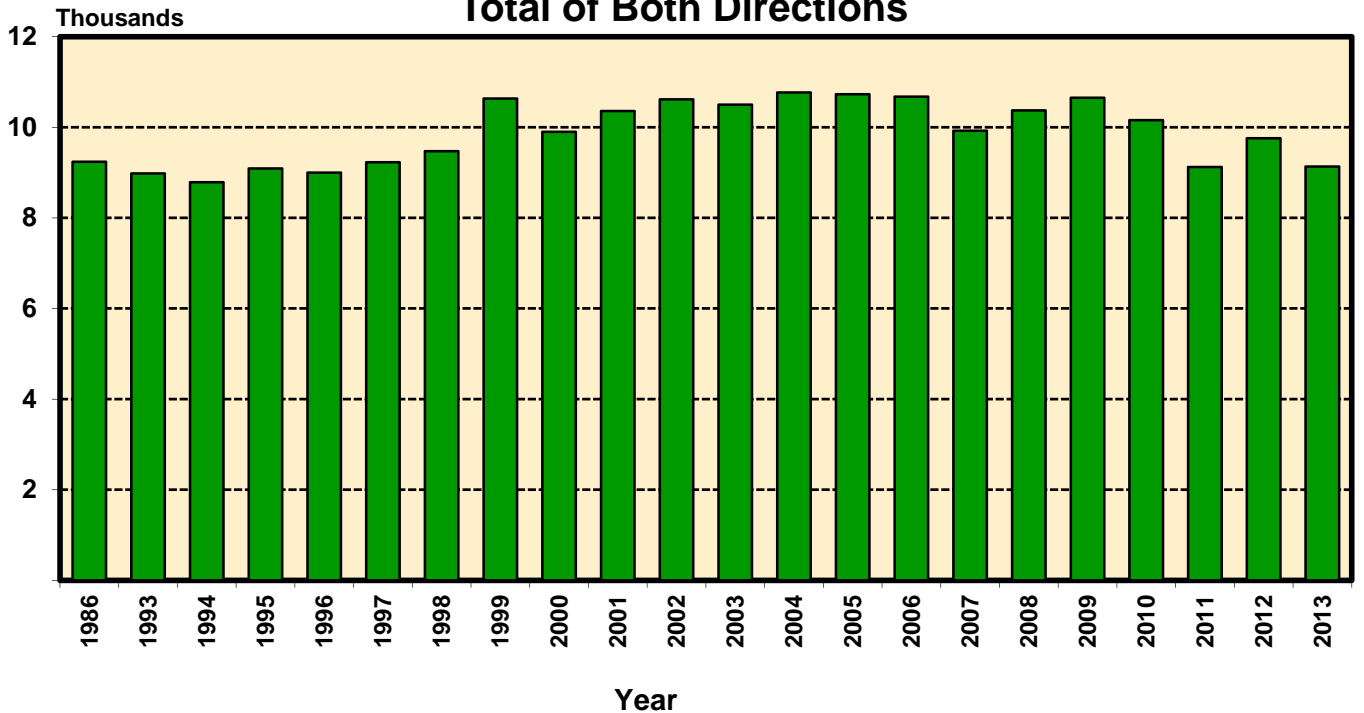


Bronx – Westchester Screenline Volumes

Van Cortlandt Park East Hourly Vehicle Volumes ~ 2013

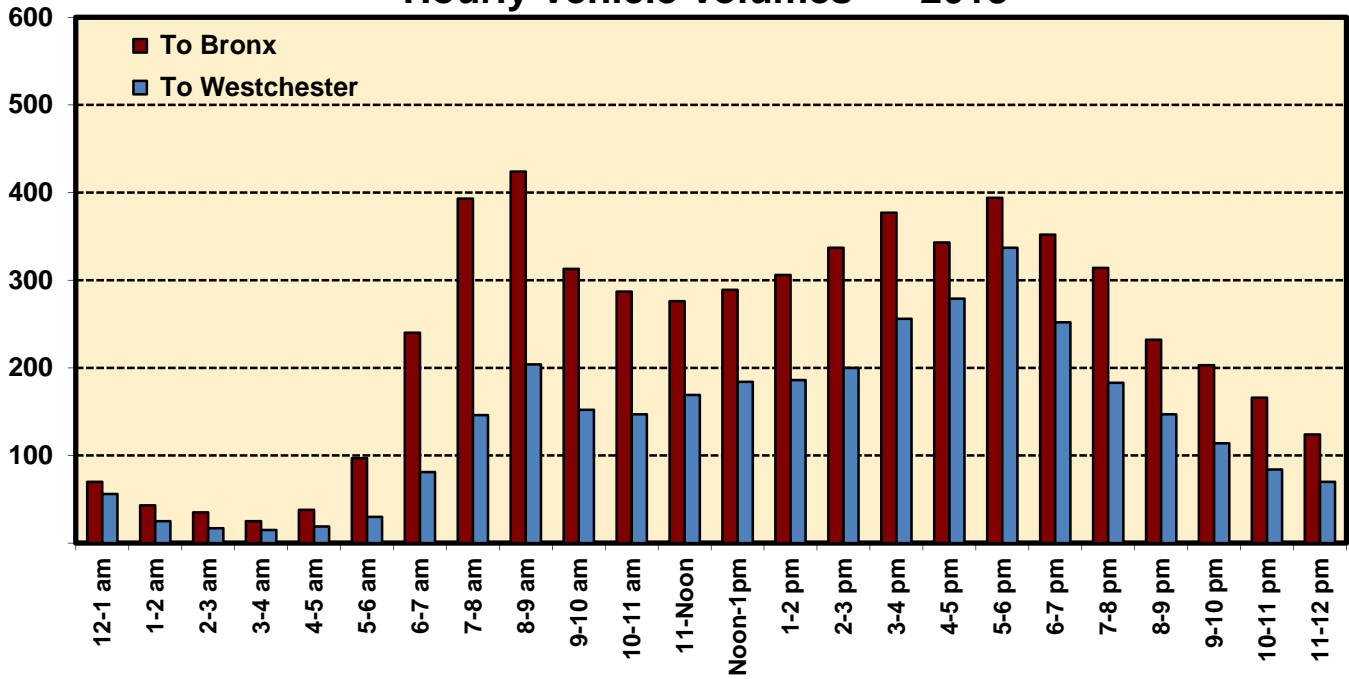


Van Cortlandt Park East Average Daily Traffic Volumes Total of Both Directions

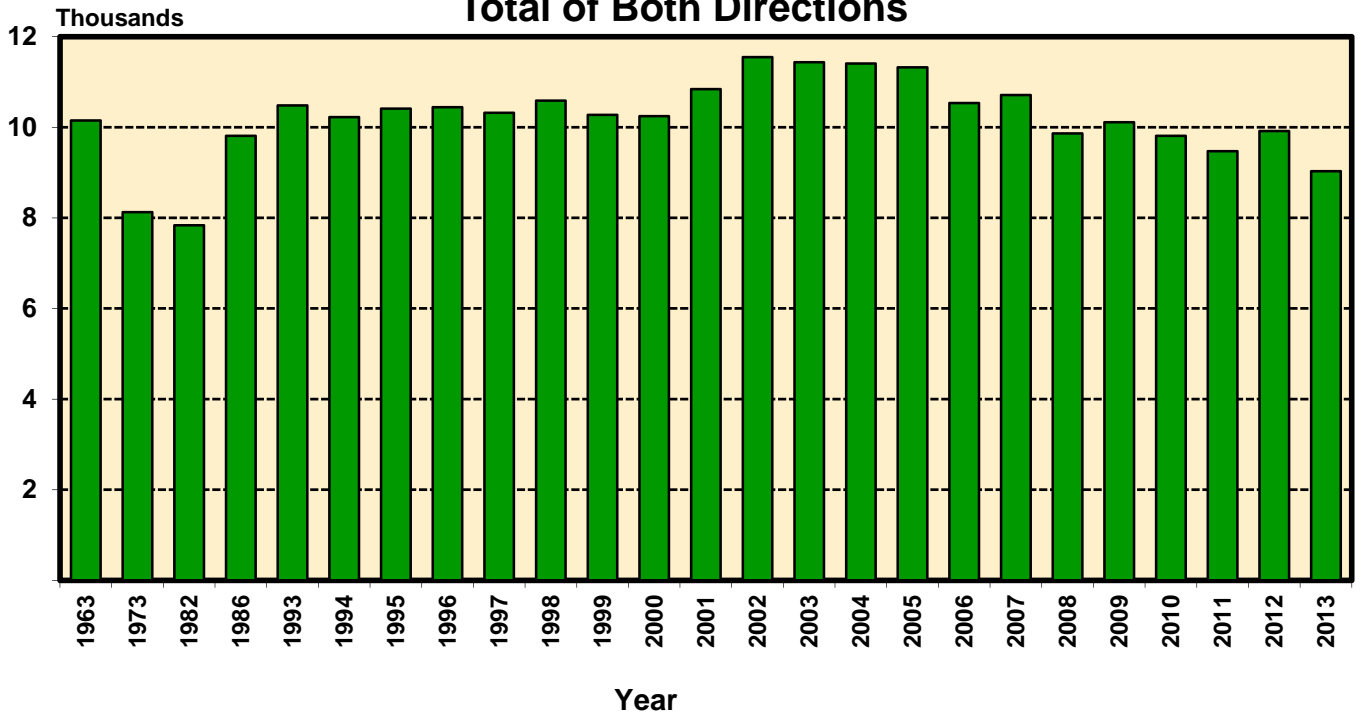


Bronx – Westchester Screenline Volumes

Webster Avenue Hourly Vehicle Volumes ~ 2013

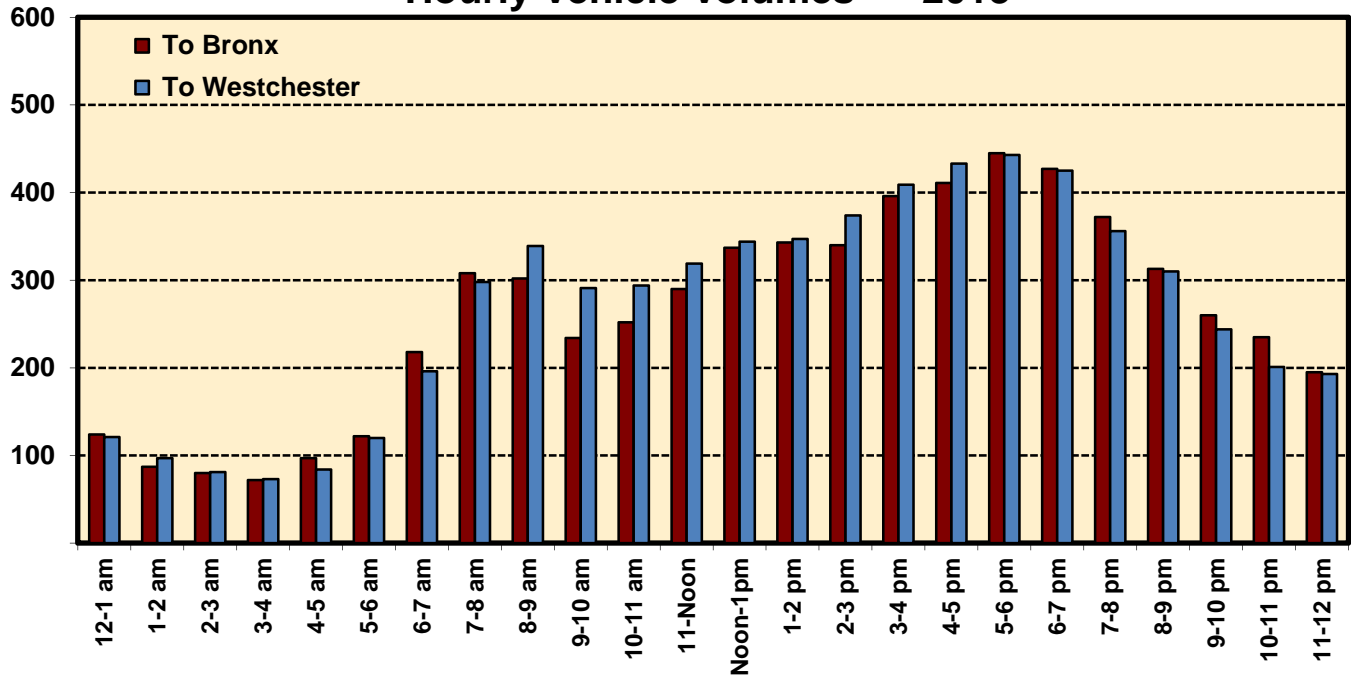


Webster Avenue Average Daily Traffic Volumes Total of Both Directions

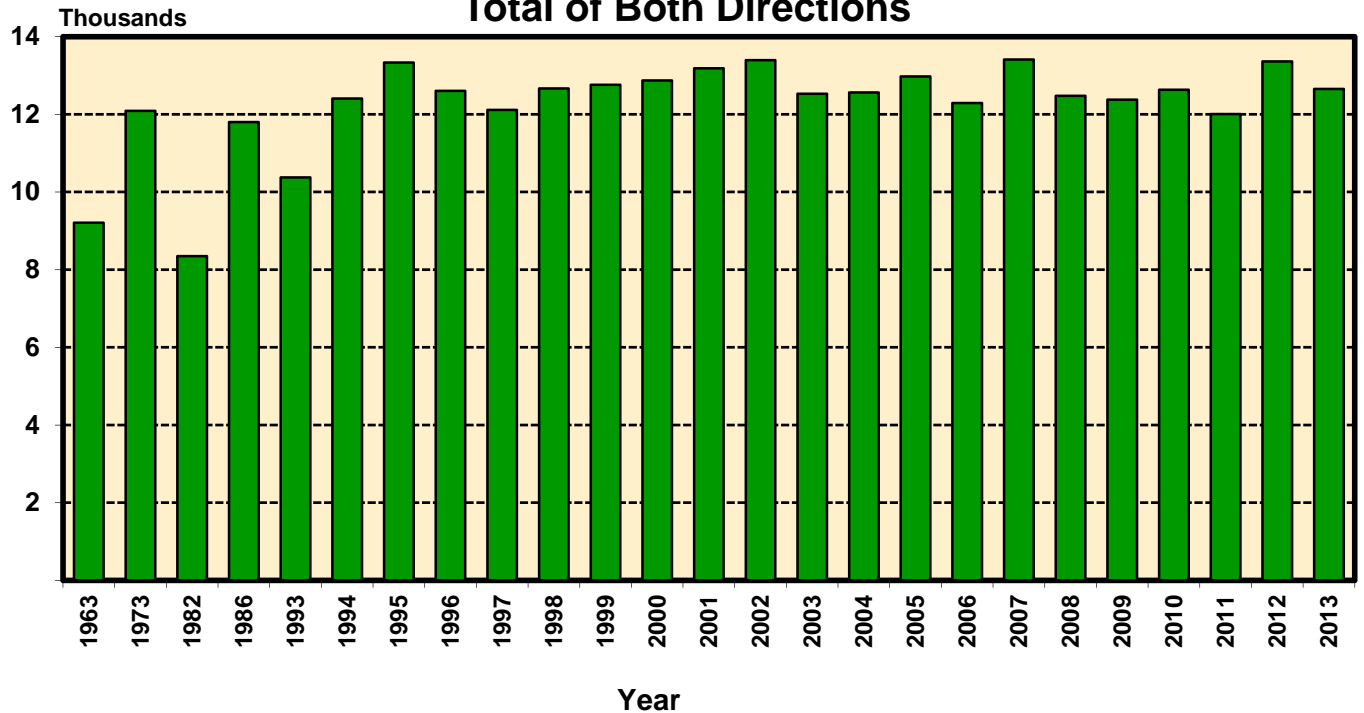


Bronx – Westchester Screenline Volumes

White Plains Road Hourly Vehicle Volumes ~ 2013



White Plains Road Average Daily Traffic Volumes Total of Both Directions



Queens-Nassau Screenline



Hempstead Avenue at Queens-Nassau Screenline
Looking East

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 - 1993

Growth was moderate during this period, as Queens - Nassau screenline volume increased 5.8%, to 892,318 daily vehicles in 1993 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 30,368 daily vehicles, to 174,334 in 1993 from 143,966 in 1986 (+21.1%).
- The largest percentage increase was on Seagirt Boulevard (up 30.3%, to 16,149 daily vehicles from 12,391).
- The biggest decline was on Laurelton Parkway (decrease of 11,148 daily vehicles, or 7.5%, to 137,260 from 148,408).

1993 - 2003

Growth remained moderate from 1993 to 2003, as Queens - Nassau screenline traffic on the fifteen monitored facilities increased 8.6%, to 968,694 daily vehicles from 892,318.

- The largest volume increase occurred on the Laurelton Parkway (increase of 21,752 daily vehicles, or 15.8%, to 159,012 from 137,260).
- The largest percentage increase occurred on Seagirt Boulevard, where daily traffic increased 41.8%, to 22,897 daily vehicles in 2003 from 16,149 in 1993 (6,748 additional daily vehicles).
- The biggest decline was on the Long Island Expressway and its service roads (decrease of 7,496 daily vehicles, or 3.8%, to 190,634 from 198,130).

2003 - 2013

The past ten years, from 2003 to 2013, have been characterized by slow growth, with total volume on the fifteen monitored facilities increasing less than 1%, to 970,004 daily vehicles in 2013 from 968,694 in 2003.

- By far the largest increase occurred on the Long Island Expressway and its service roads (gain of 40,804 daily vehicles, or 21.4%, to 231,438 in 2013 from 190,634 in 2003).

- Significant increases also occurred on the following facilities.
 - Laurelton Parkway up 6.5% (10,399 additional daily vehicles).
 - Rockaway Boulevard up 7.3% (5,306 additional daily vehicles).
- The largest decrease was on the Grand Central Parkway and its service road, a loss of 28,701 daily vehicles, to 158,517 in 2013 from 187,218 in 2003 (-15.3%).
- Significant decreases also occurred on the following facilities.
 - Hempstead Avenue down 16.2% (8,338 fewer daily vehicles).
 - Union Turnpike down 17.6% (4,601 fewer daily vehicles).
 - Northern Boulevard down 9.5% (4,337 fewer daily vehicles).

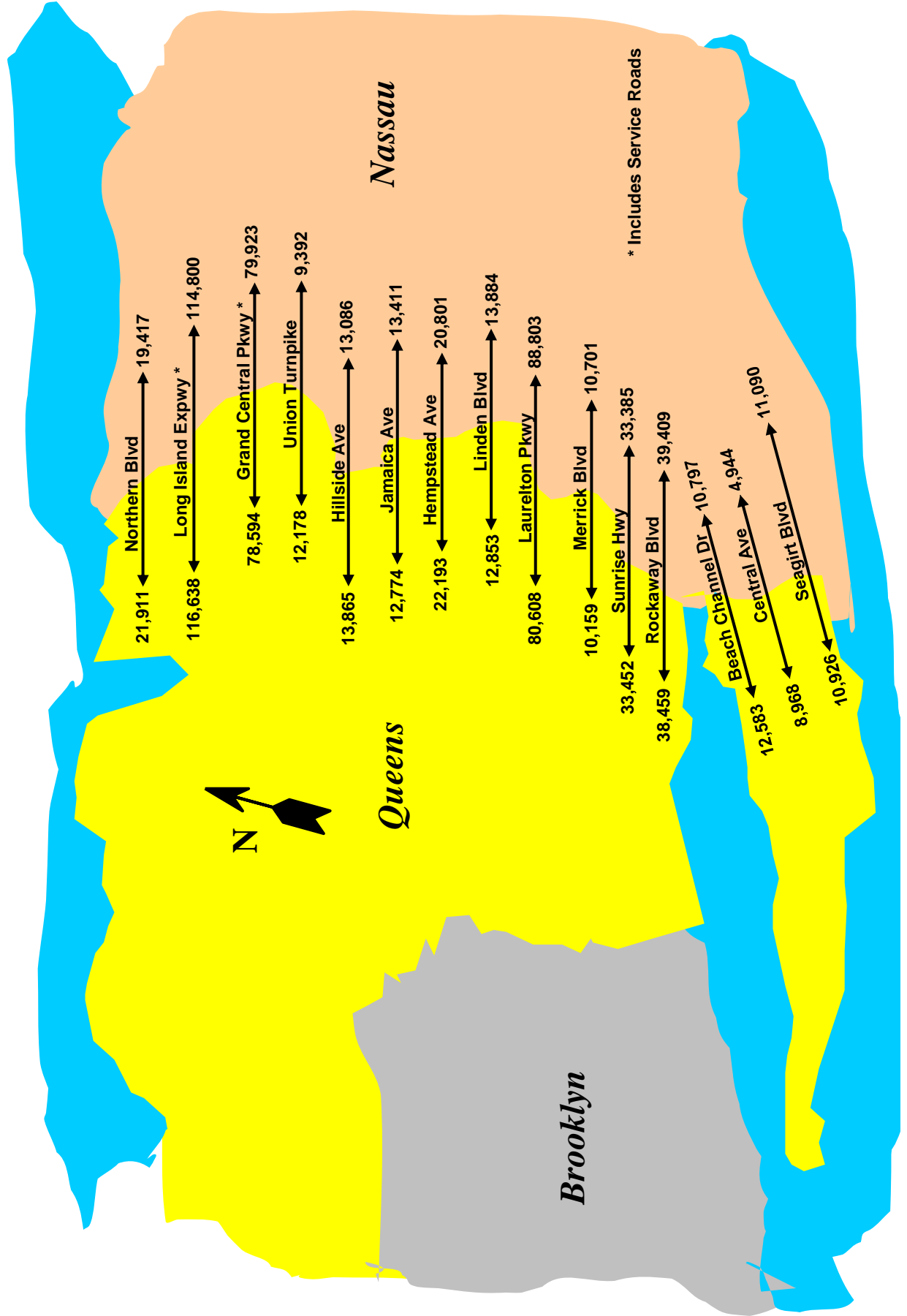
1963 - 2013

During the 50 years from 1963 to 2013, daily traffic on the thirteen Queens - Nassau thoroughfares monitored throughout the period increased 70.9%, to 934,076 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 387,526 additional daily vehicles on the thirteen continuously-monitored facilities, 278,456 (71.9% 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 158,517 in 2013 from 51,720 in 1963.
- Laurelton Parkway traffic nearly doubled, to 169,411 daily vehicles from 85,440.
- On the Long Island Expressway and its service roads, traffic increased 61.0%, to 231,438 daily vehicles from 143,750.
- Rockaway Boulevard traffic more than doubled, to 77,868 daily vehicles from 36,460.
- Jamaica Avenue traffic increased 71.1% to 26,185 daily vehicles from 15,300.
- Linden Boulevard traffic increased 86.6% to 26,737 daily vehicles from 14,330.

Queens – Nassau Screenline

2013 Daily Volumes



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

* Includes service roads.

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

* Includes service roads.

**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 Central 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

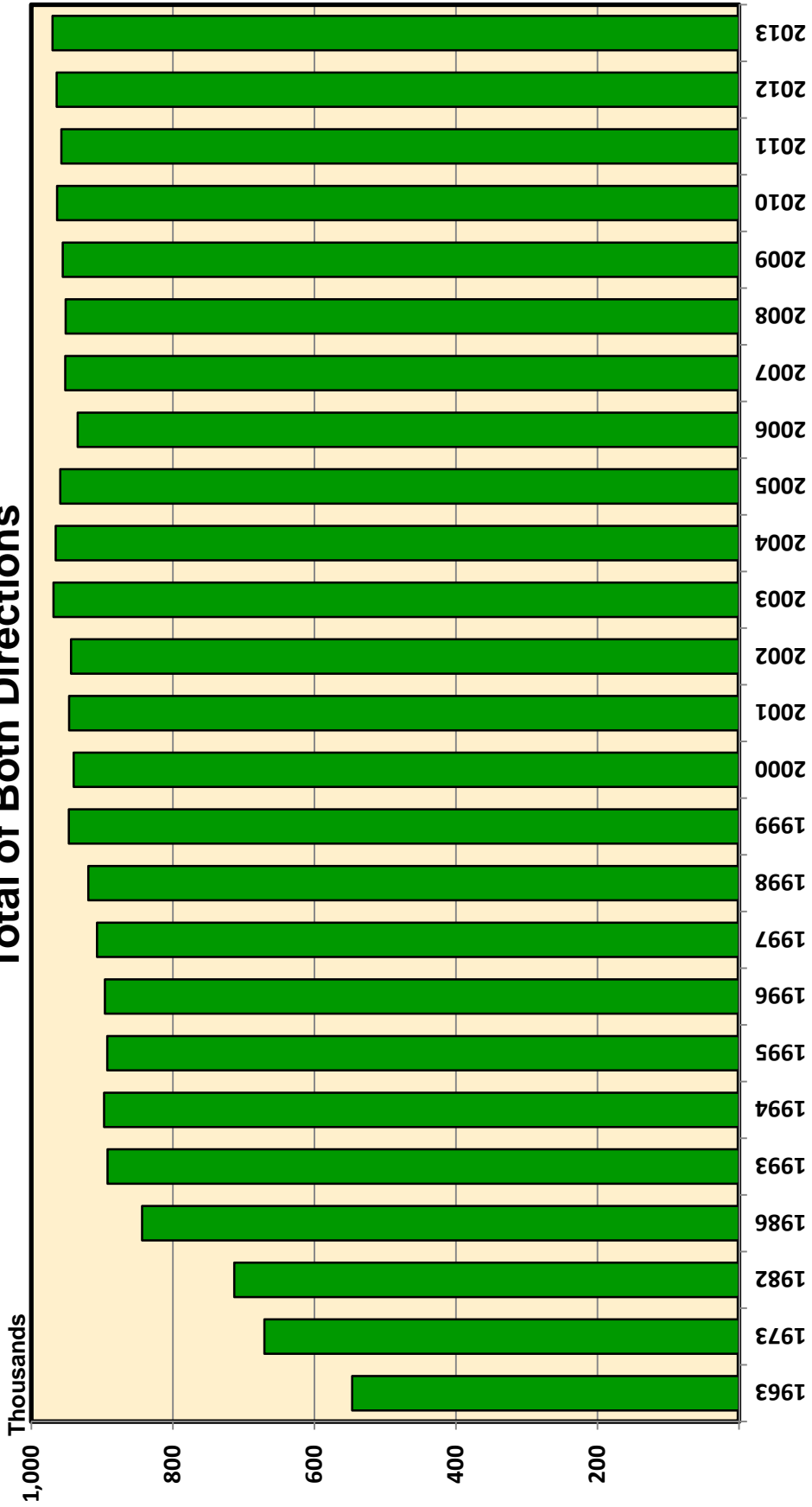
Both Directions

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

* Includes service roads.

Queens – Nassau Screenline

Historical Comparisons
Average Daily Traffic Volumes
Total of Both Directions



2013 Screenline Volumes Queens - Nassau

	Beach Channel Drive		Central Ave		Main Rdwy		Service Rdwy		Hempstead Ave		Hillside Ave	
	* S/B	N/B	* W/B	E/B	* W/B	E/B	* W/B	E/B	* W/B	E/B	* W/B	E/B
Mid-1am	226	120	124	46	661	745	17	15	310	368	107	111
1-2am	114	74	52	29	295	393	8	10	169	201	52	57
2-3am	74	56	39	27	221	249	4	5	137	139	36	40
3-4am	56	62	36	21	308	221	3	3	130	115	34	29
4-5am	82	122	55	46	871	421	6	13	254	166	72	51
5-6am	208	296	136	94	3,549	1,231	24	41	723	349	204	114
6-7am	526	582	333	193	5,525	3,483	67	119	1,399	658	686	274
7-8am	732	738	547	276	4,866	5,681	154	328	1,595	1,179	1,040	644
8-9am	716	655	557	321	4,234	5,737	170	586	1,389	1,307	785	922
9-10am	653	600	538	304	4,184	4,954	207	556	1,149	987	632	698
10-11am	569	539	404	274	3,915	3,836	237	327	1,041	909	606	616
11-Noon	559	551	393	283	3,676	3,741	283	314	1,032	984	669	648
Noon-1	586	592	459	272	3,493	3,912	321	351	1,077	1,058	731	693
1-2pm	648	627	465	283	3,525	4,187	297	357	1,126	1,106	768	744
2-3pm	699	650	528	286	3,758	5,227	340	366	1,152	1,250	801	825
3-4pm	726	716	539	358	4,242	4,756	362	513	1,171	1,335	876	1,022
4-5pm	763	690	584	345	4,571	3,996	459	660	1,227	1,403	957	1,186
5-6pm	837	670	582	345	4,614	3,919	496	667	1,356	1,432	1,144	1,187
6-7pm	865	603	628	275	4,472	4,024	402	548	1,237	1,424	1,053	1,053
7-8pm	818	523	576	249	3,812	4,300	288	235	1,161	1,264	822	768
8-9pm	695	430	447	216	2,907	3,096	228	124	1,017	1,004	670	544
9-10pm	578	362	397	164	2,621	2,295	165	79	899	879	533	397
10-11pm	489	303	330	129	2,154	1,873	82	52	853	719	359	279
11-Mid	364	236	219	108	1,461	1,346	39	31	589	565	228	184
24 hr Total	12,583	10,797	8,968	4,944	73,935	73,623	4,659	6,300	22,193	20,801	13,865	13,086
6-10am	2,627	2,575	1,975	1,094	18,809	19,855	598	1,589	5,532	4,131	3,143	2,538
10am-1pm	1,714	1,682	1,256	829	11,084	11,489	841	992	3,150	2,951	2,006	1,957
1-3pm	1,347	1,277	993	569	7,283	9,414	637	723	2,278	2,356	1,569	1,569
3-7pm	3,191	2,679	2,333	1,323	17,899	16,695	1,719	2,388	4,991	5,594	4,030	4,448
6am-7pm	8,879	8,213	6,557	3,815	55,075	57,453	3,795	5,692	15,951	15,032	10,748	10,512

* To Queens

2013 Screenline Volumes Queens - Nassau (cont'd)

	Jamaica Ave		Laurelton Parkway		Linden Blvd		Main Rdwy		Service Rdwy		Merrick Blvd	
	* W/B	E/B	* W/B	E/B	* W/B	E/B	* W/B	E/B	* W/B	E/B	* W/B	E/B
Mid-1am	106	110	1,153	1,908	215	232	1,248	1,985	52	15	102	153
1-2am	55	69	534	1,080	126	117	854	1,187	26	8	63	91
2-3am	43	51	413	701	74	69	819	1,015	19	4	46	61
3-4am	59	43	622	512	68	68	1,151	1,030	18	3	35	40
4-5am	103	79	1,335	761	108	113	2,420	1,416	50	12	57	46
5-6am	272	180	4,308	1,542	253	243	5,740	2,850	302	35	182	105
6-7am	615	413	5,997	3,483	589	486	5,993	5,245	1,331	116	536	200
7-8am	825	743	4,978	4,818	859	725	5,291	6,493	1,702	233	749	446
8-9am	728	927	4,337	4,823	765	830	4,993	6,682	1,071	455	613	601
9-10am	644	814	4,308	4,291	601	680	5,450	6,259	601	316	470	531
10-11am	600	724	3,977	3,753	574	644	4,933	5,594	623	206	477	504
11-Noon	650	723	3,868	3,864	582	643	4,977	5,041	753	255	491	533
Noon-1	682	745	3,777	4,249	609	676	5,016	5,421	717	271	544	576
1-2pm	693	755	3,896	4,513	638	738	5,081	5,787	706	229	561	578
2-3pm	704	813	4,037	5,348	670	864	5,082	6,125	542	325	582	660
3-4pm	794	972	4,157	5,366	749	971	5,623	6,296	635	624	641	796
4-5pm	886	1,021	4,288	5,466	738	928	6,027	5,758	751	983	655	874
5-6pm	999	1,030	4,574	5,799	834	931	5,936	5,712	1,474	958	753	948
6-7pm	867	937	4,402	5,762	823	943	5,608	6,002	1,508	668	675	878
7-8pm	726	776	4,154	5,527	775	820	5,251	5,787	764	288	593	648
8-9pm	596	547	3,479	4,550	687	694	4,487	5,026	384	124	503	502
9-10pm	488	393	3,262	4,072	616	611	4,175	4,566	285	71	386	406
10-11pm	375	328	2,742	3,711	519	513	3,540	4,151	216	57	268	316
11-Mid	264	218	2,010	2,904	381	345	2,300	3,090	113	26	177	208
24 hr Total	12,774	13,411	80,608	88,803	12,853	13,884	101,995	108,518	14,643	6,282	10,159	10,701
6-10am	2,812	2,897	19,620	17,415	2,814	2,721	21,727	24,679	4,705	1,120	2,368	1,778
10am-1pm	1,932	2,192	11,622	11,866	1,765	1,963	14,926	16,056	2,093	732	1,512	1,613
1-3pm	1,397	1,568	7,933	9,861	1,308	1,602	10,163	11,912	1,248	554	1,143	1,238
3-7pm	3,546	3,960	17,421	22,393	3,144	3,773	23,194	23,768	4,368	3,233	2,724	3,496
6am-7pm	9,687	10,617	56,596	61,535	9,031	10,059	70,010	76,415	12,414	5,639	7,747	8,125

* To Queens

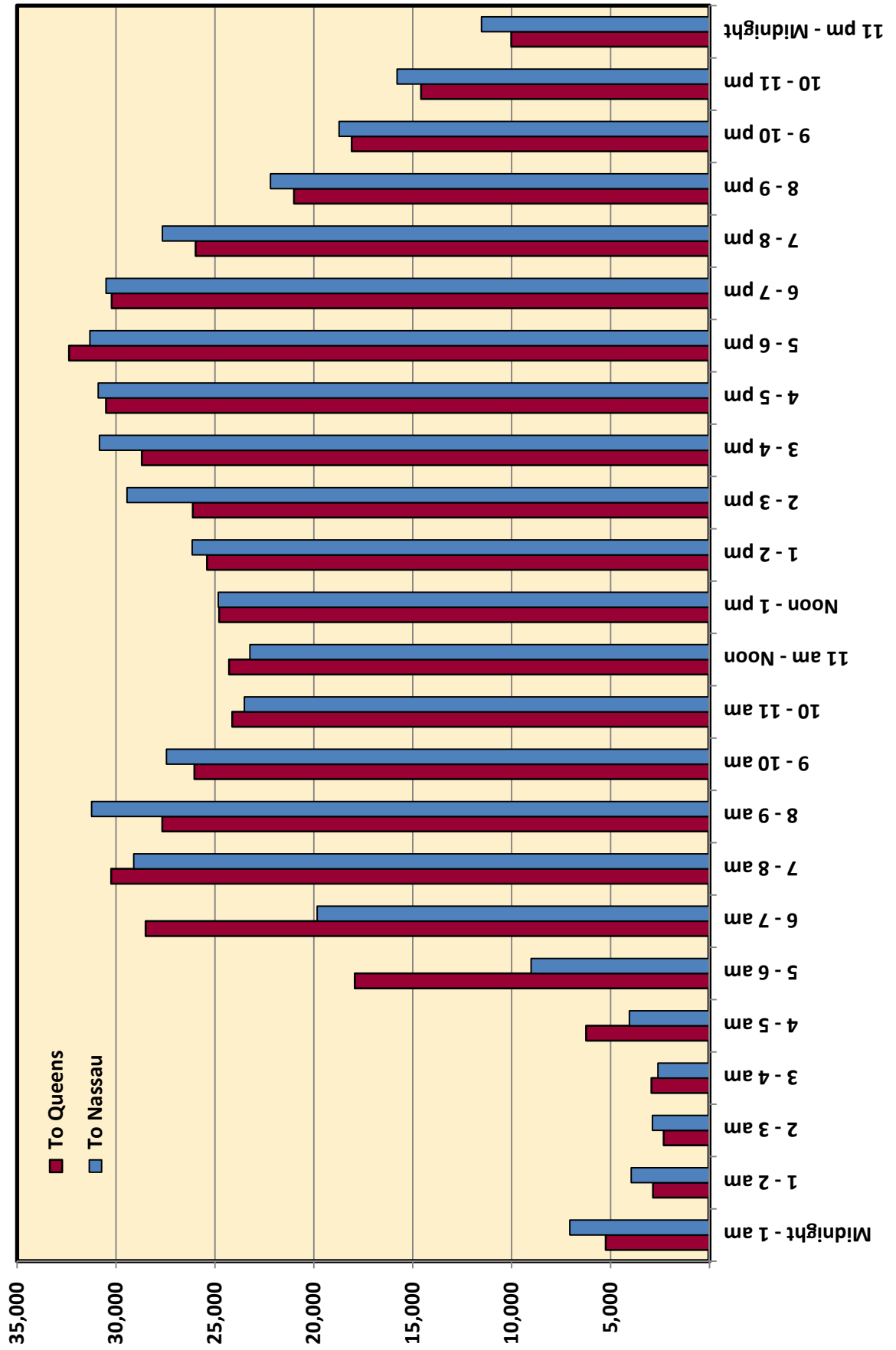
2013 Screenline Volumes Queens - Nassau (cont'd)

	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	81	111	359	607	81	119	318	352	86	62	5,246	7,059
1-2am	33	62	221	327	41	67	168	164	45	23	2,856	3,959
2-3am	29	38	163	250	34	36	131	132	32	13	2,314	2,886
3-4am	27	34	216	209	30	30	114	165	28	19	2,935	2,604
4-5am	56	46	470	325	82	38	187	367	30	31	6,238	4,053
5-6am	241	121	1,107	594	210	141	387	1,005	87	76	17,933	9,017
6-7am	922	430	2,261	1,417	531	569	826	1,968	369	199	28,506	19,835
7-8am	1,475	1,124	2,716	2,180	712	1,098	1,379	1,932	625	465	30,245	29,103
8-9am	1,412	1,560	2,643	2,426	783	860	1,896	1,765	569	778	27,661	31,235
9-10am	1,372	1,382	2,331	2,190	601	670	1,765	1,586	534	632	26,040	27,450
10-11am	1,235	1,120	2,083	1,927	502	467	1,768	1,587	578	487	24,122	23,514
11-Noon	1,256	1,074	2,038	1,936	508	447	1,895	1,705	656	491	24,286	23,233
Noon-1	1,315	1,112	2,112	2,088	552	477	1,964	1,786	835	552	24,790	24,831
1-2pm	1,350	1,138	2,200	2,097	601	510	2,021	1,912	828	589	25,404	26,150
2-3pm	1,390	1,220	2,217	2,370	750	626	2,098	1,905	772	588	26,122	29,448
3-4pm	1,454	1,351	2,338	2,528	1,134	655	2,459	1,863	794	719	28,694	30,841
4-5pm	1,583	1,468	2,419	2,546	933	716	2,694	2,006	971	854	30,506	30,900
5-6pm	1,630	1,481	2,426	2,546	817	744	2,652	2,109	1,253	847	32,377	31,325
6-7pm	1,487	1,438	2,053	2,614	614	715	2,554	1,926	971	696	30,219	30,506
7-8pm	1,160	1,143	1,801	2,385	464	610	2,076	1,849	733	486	25,974	27,658
8-9pm	908	746	1,492	1,944	332	524	1,603	1,800	568	324	21,003	22,195
9-10pm	751	570	1,159	1,544	243	414	1,121	1,685	406	214	18,085	18,722
10-11pm	459	394	918	1,361	203	334	835	1,123	241	150	14,583	15,793
11-Mid	285	254	716	998	168	223	541	693	167	97	10,022	11,526
24 hr Total	21,911	19,417	38,459	39,409	10,926	11,090	33,452	33,385	12,178	9,392	486,161	483,843
6-10am	5,181	4,496	9,951	8,213	2,627	3,197	5,866	7,251	2,097	2,074	112,452	107,623
10am-1pm	3,806	3,306	6,233	5,951	1,562	1,391	5,627	5,078	2,069	1,530	73,198	71,578
1-3pm	2,740	2,358	4,417	4,467	1,351	1,136	4,119	3,817	1,600	1,177	51,526	55,598
3-7pm	6,154	5,738	9,236	10,234	3,498	2,830	10,359	7,904	3,989	3,116	121,796	123,572
6am-7pm	17,881	15,898	29,837	28,865	9,038	8,554	25,971	24,050	9,755	7,897	358,972	358,371

* To Queens

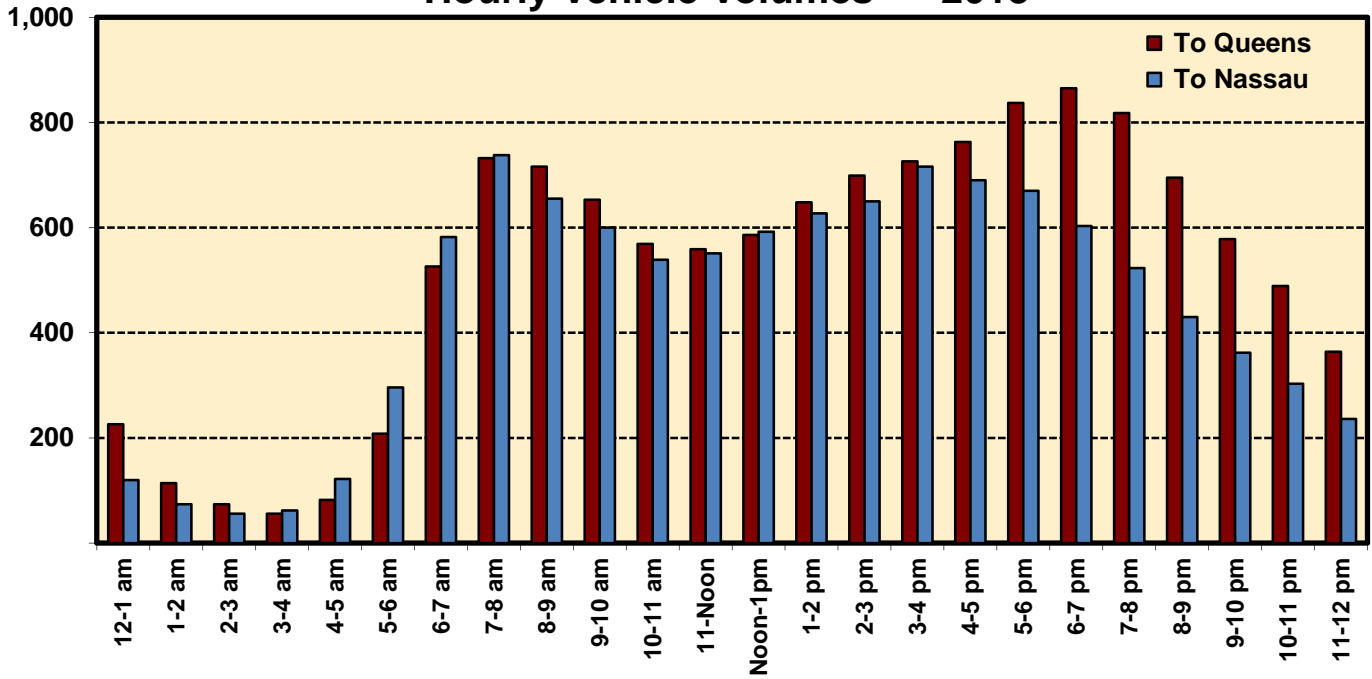
Queens - Nassau Screenline

Total Hourly Vehicle Volumes ~ 2013

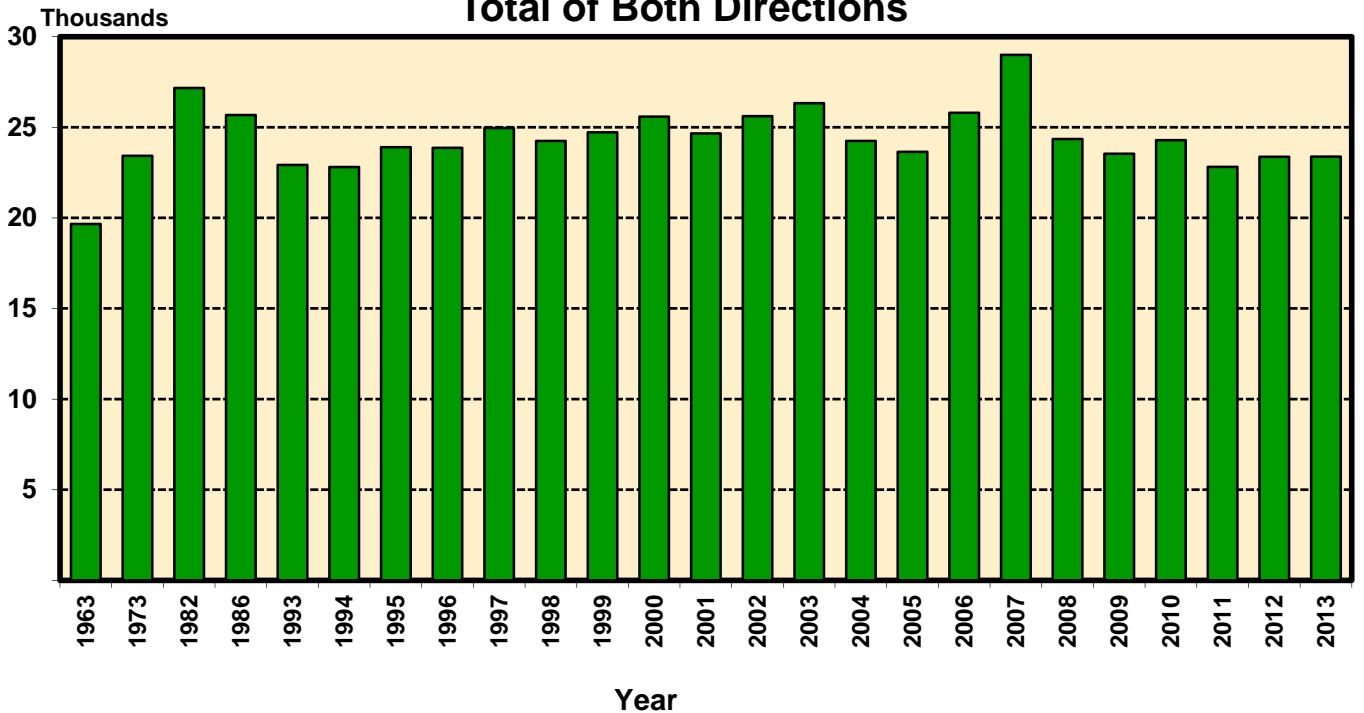


Queens – Nassau Screenline Volumes

Beach Channel Drive Hourly Vehicle Volumes ~ 2013

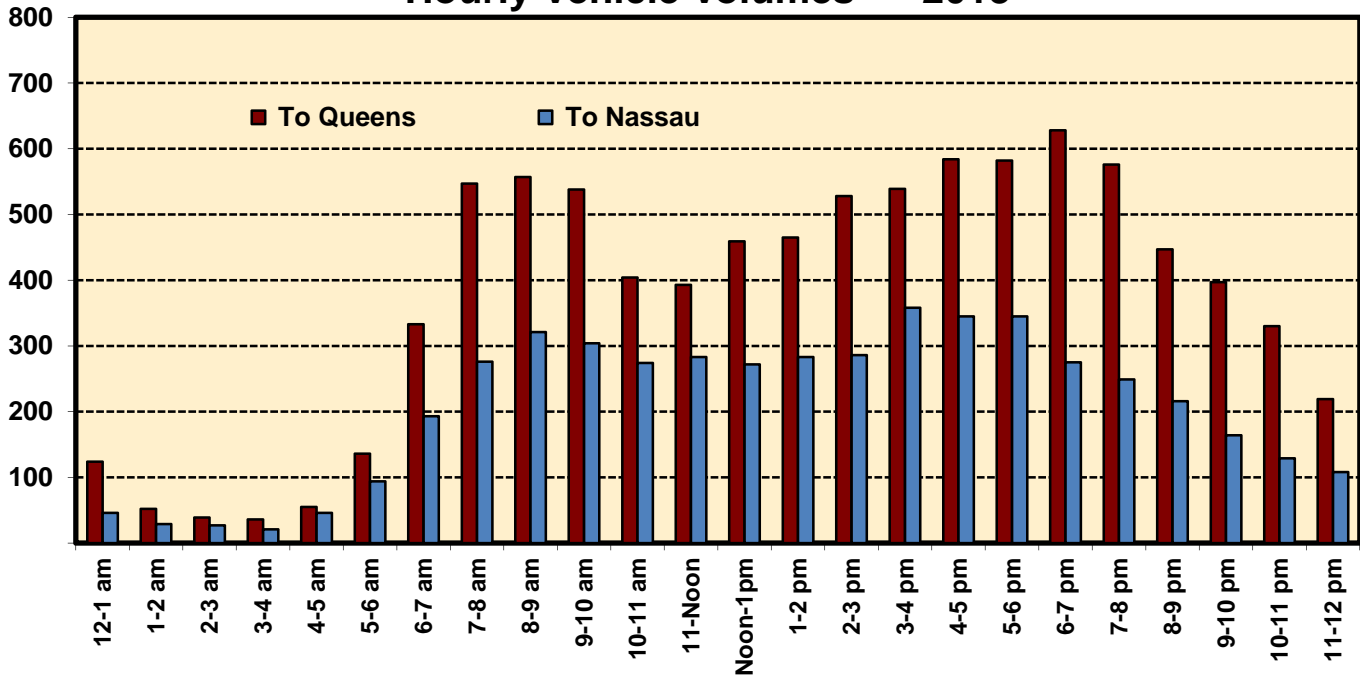


Beach Channel Drive Average Daily Traffic Volumes Total of Both Directions

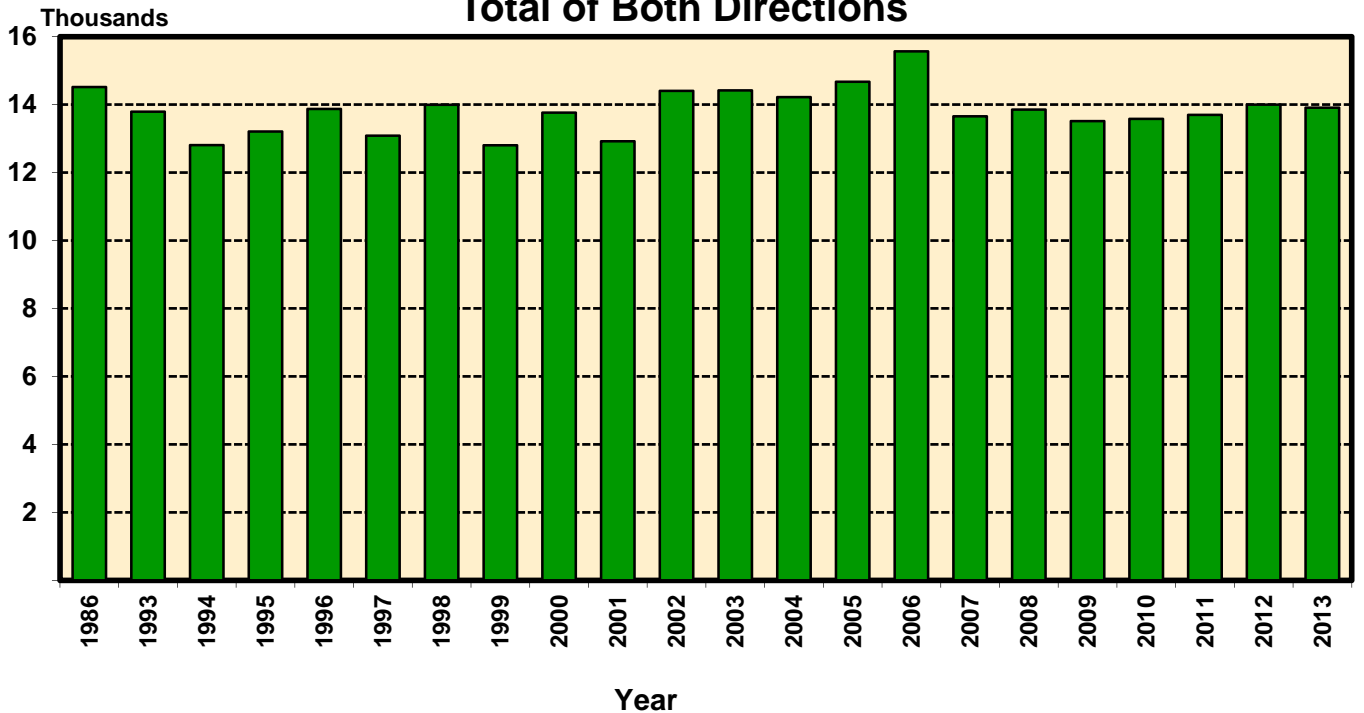


Queens – Nassau Screenline Volumes

Central Avenue Hourly Vehicle Volumes ~ 2013

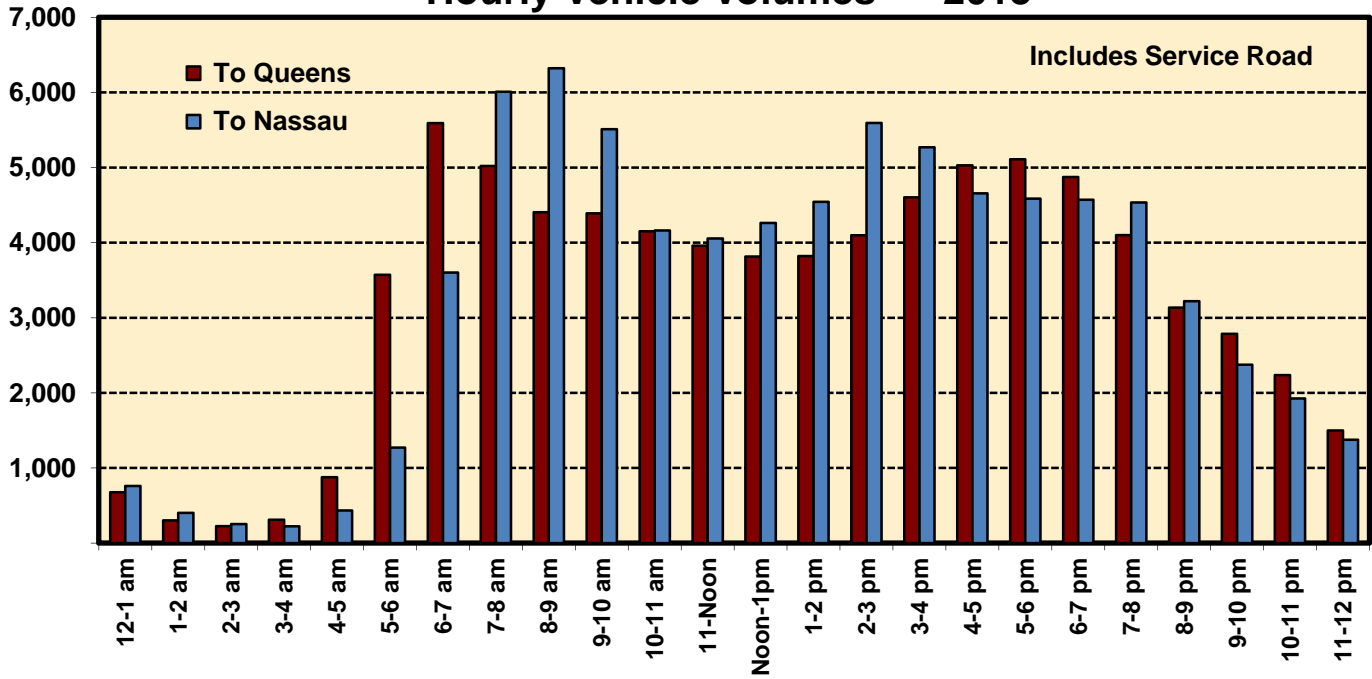


Central Avenue Average Daily Traffic Volumes Total of Both Directions

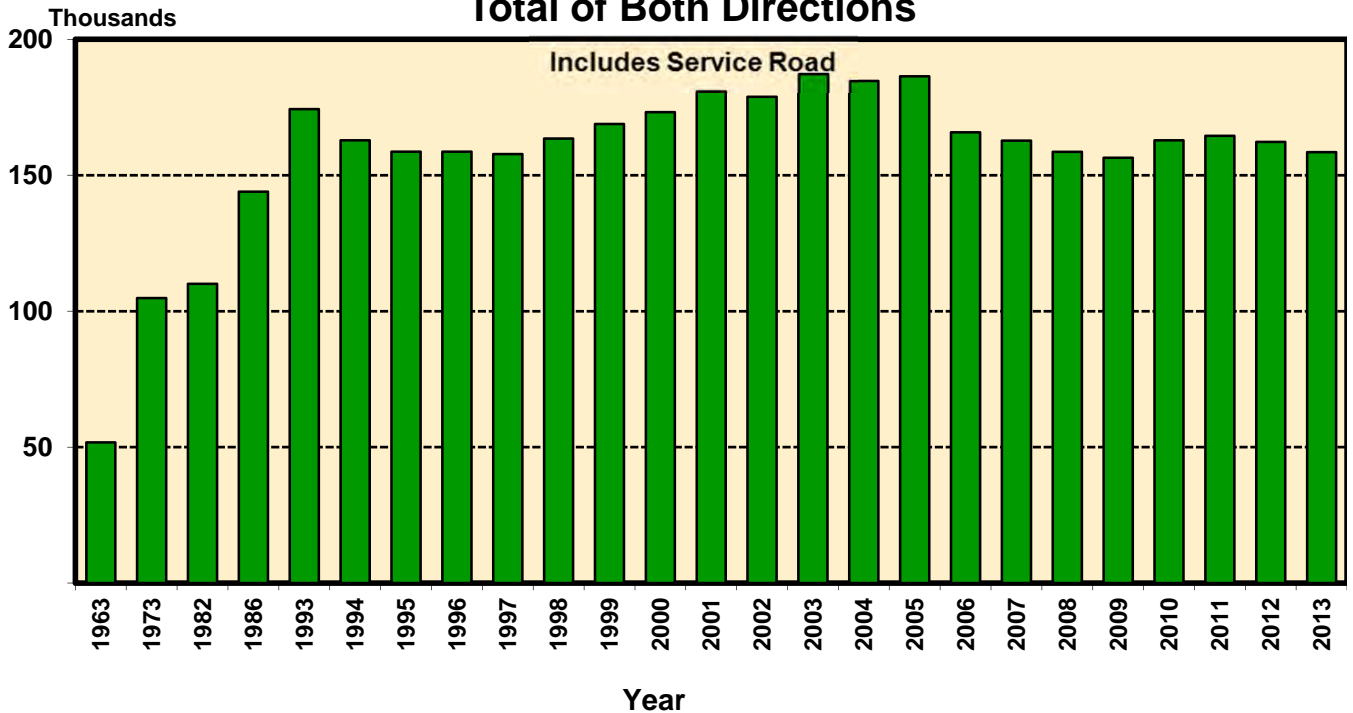


Queens – Nassau Screenline Volumes

Grand Central Parkway Hourly Vehicle Volumes ~ 2013

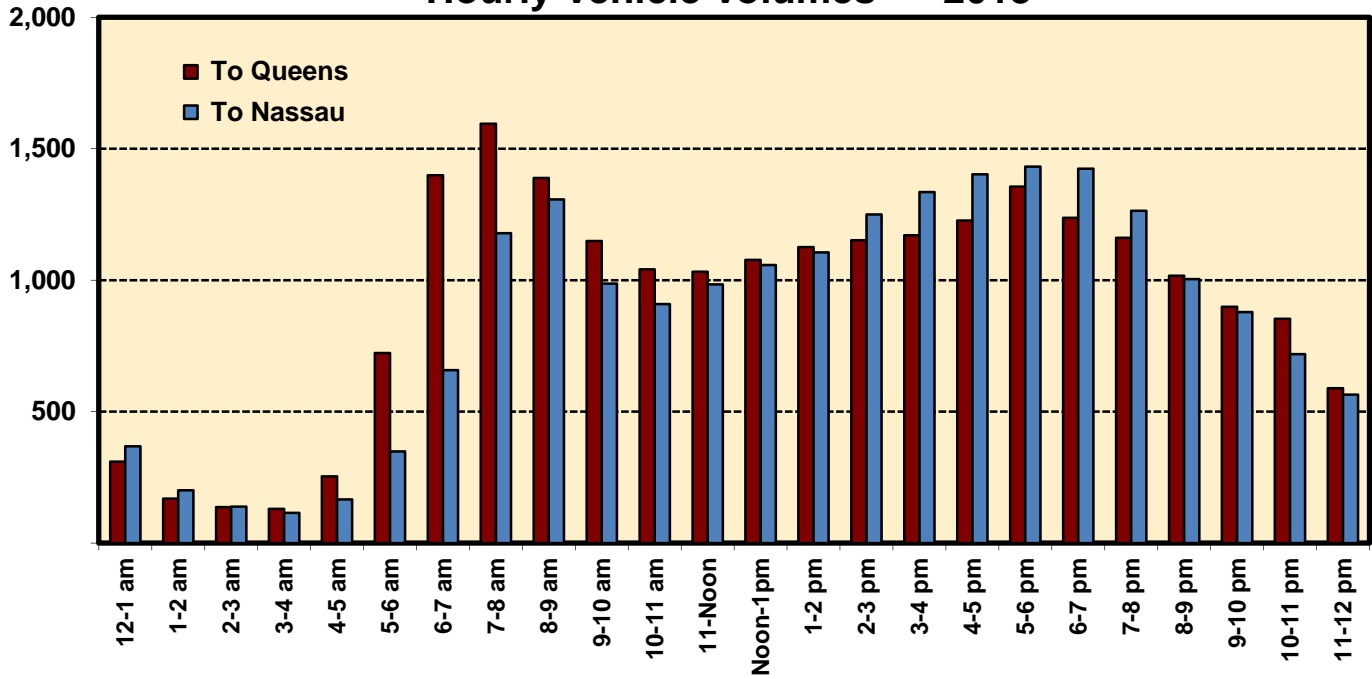


Grand Central Parkway Average Daily Traffic Volumes Total of Both Directions

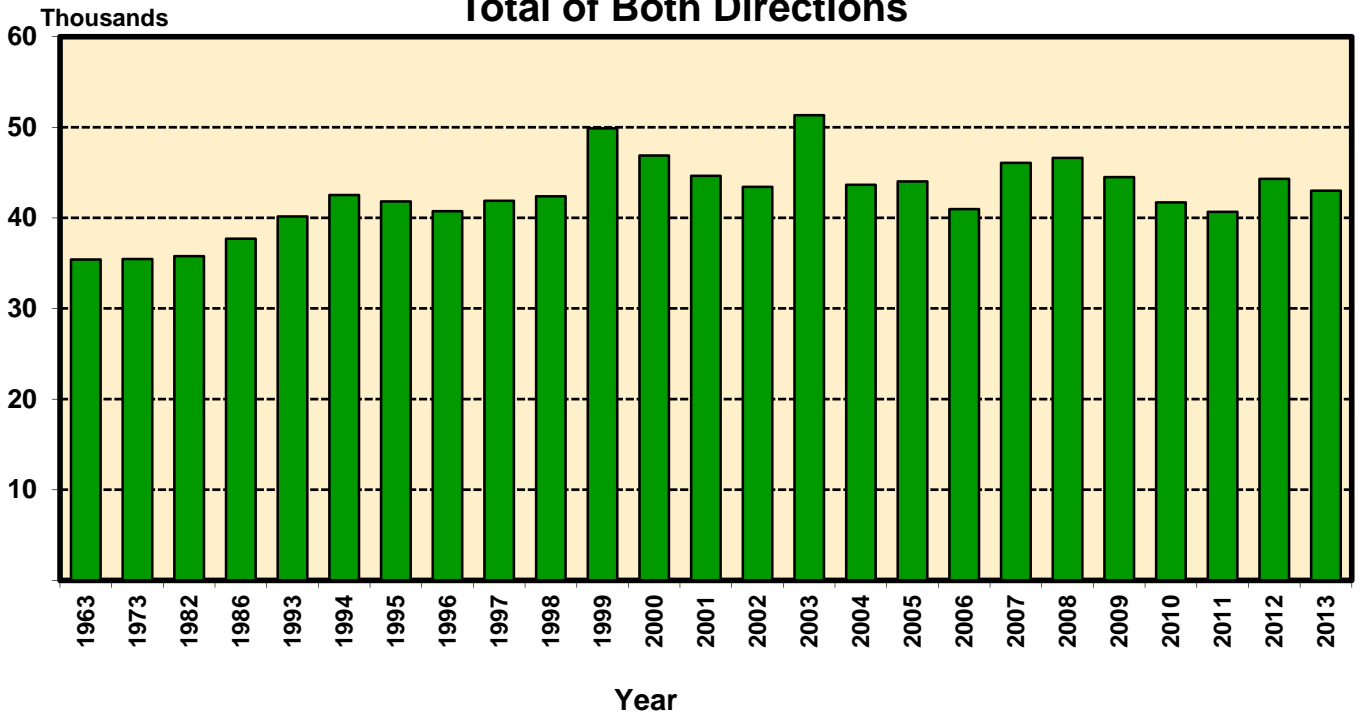


Queens – Nassau Screenline Volumes

Hempstead Avenue Hourly Vehicle Volumes ~ 2013

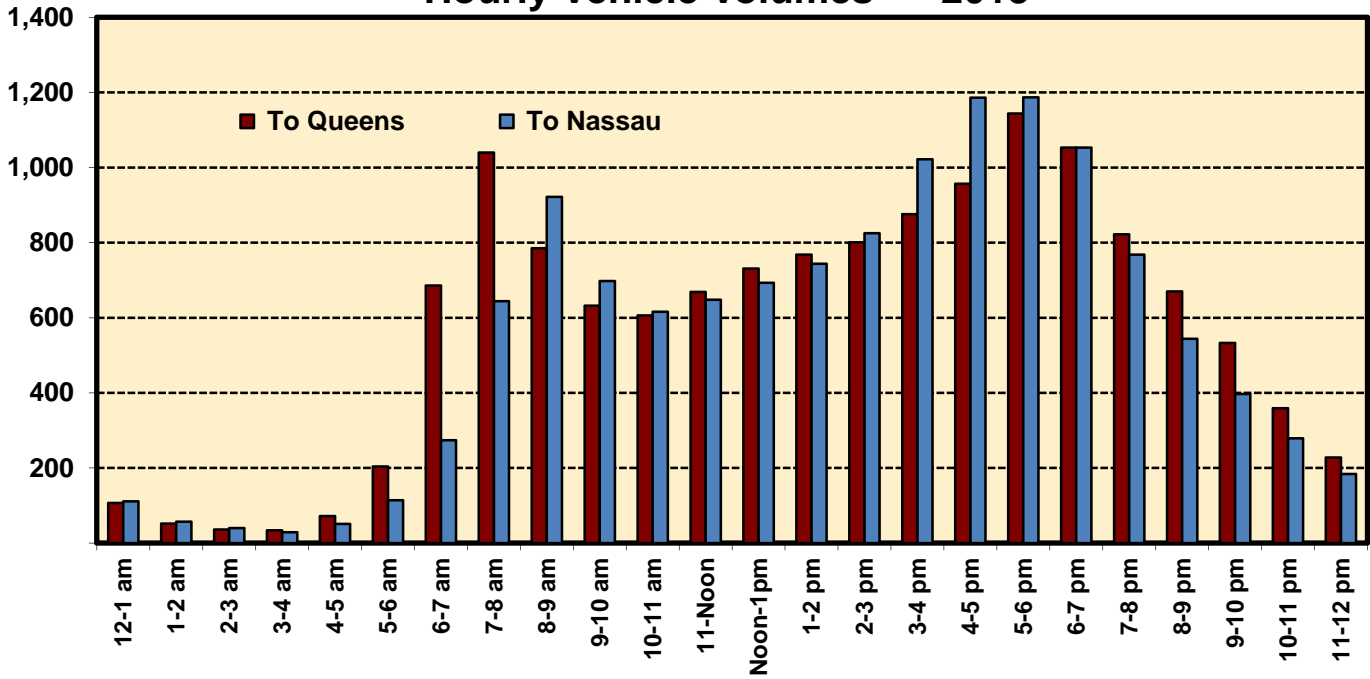


Hempstead Avenue Average Daily Traffic Volumes Total of Both Directions

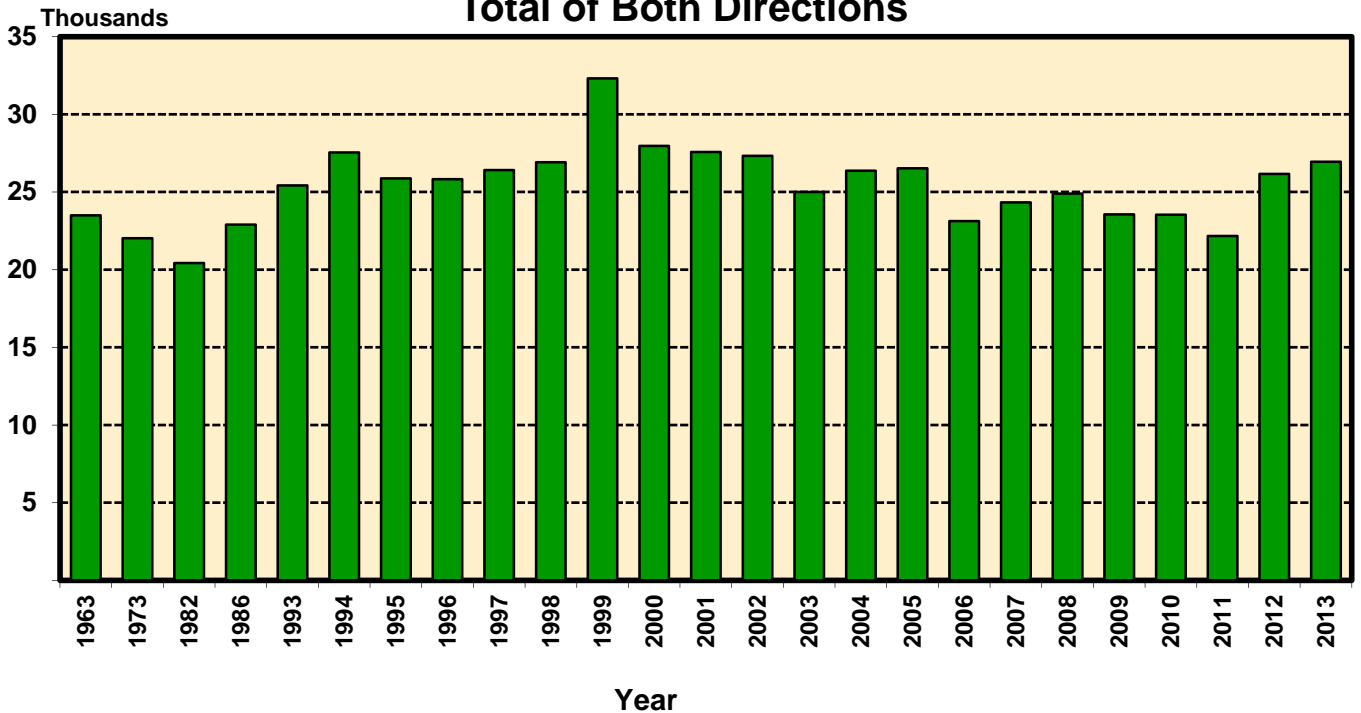


Queens – Nassau Screenline Volumes

Hillside Avenue Hourly Vehicle Volumes ~ 2013

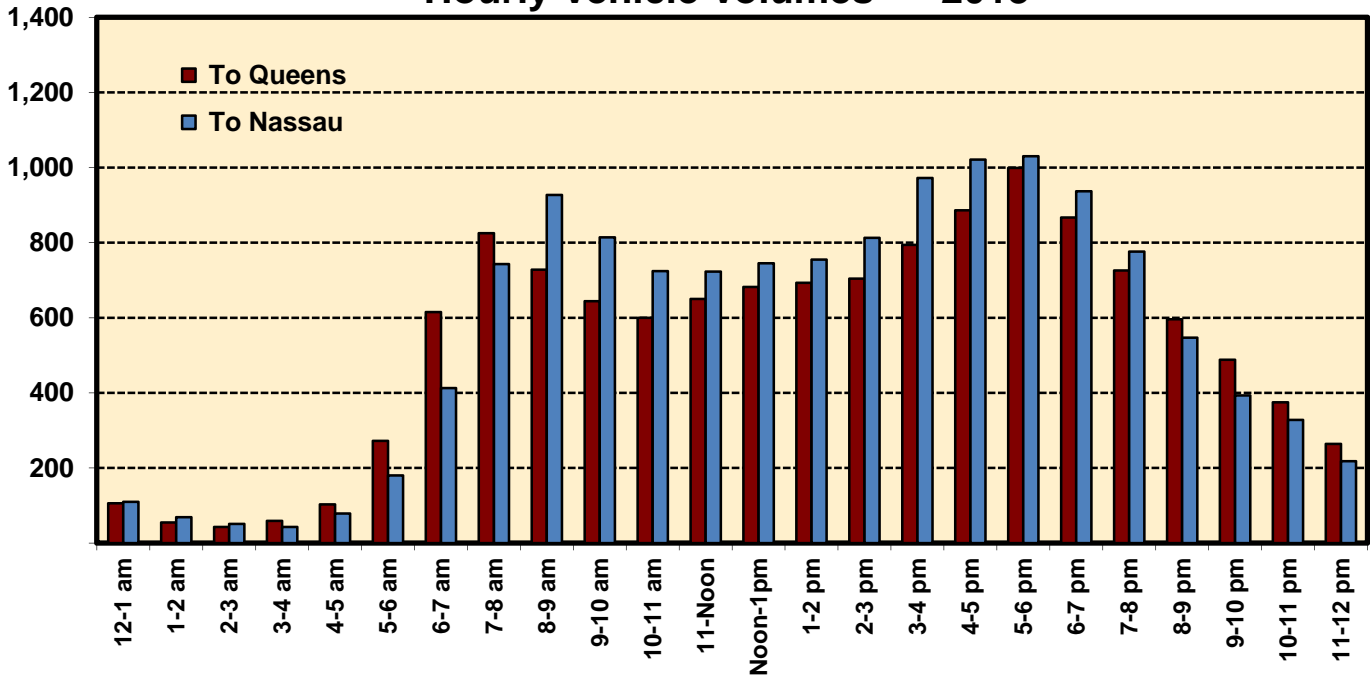


Hillside Avenue Average Daily Traffic Volumes Total of Both Directions

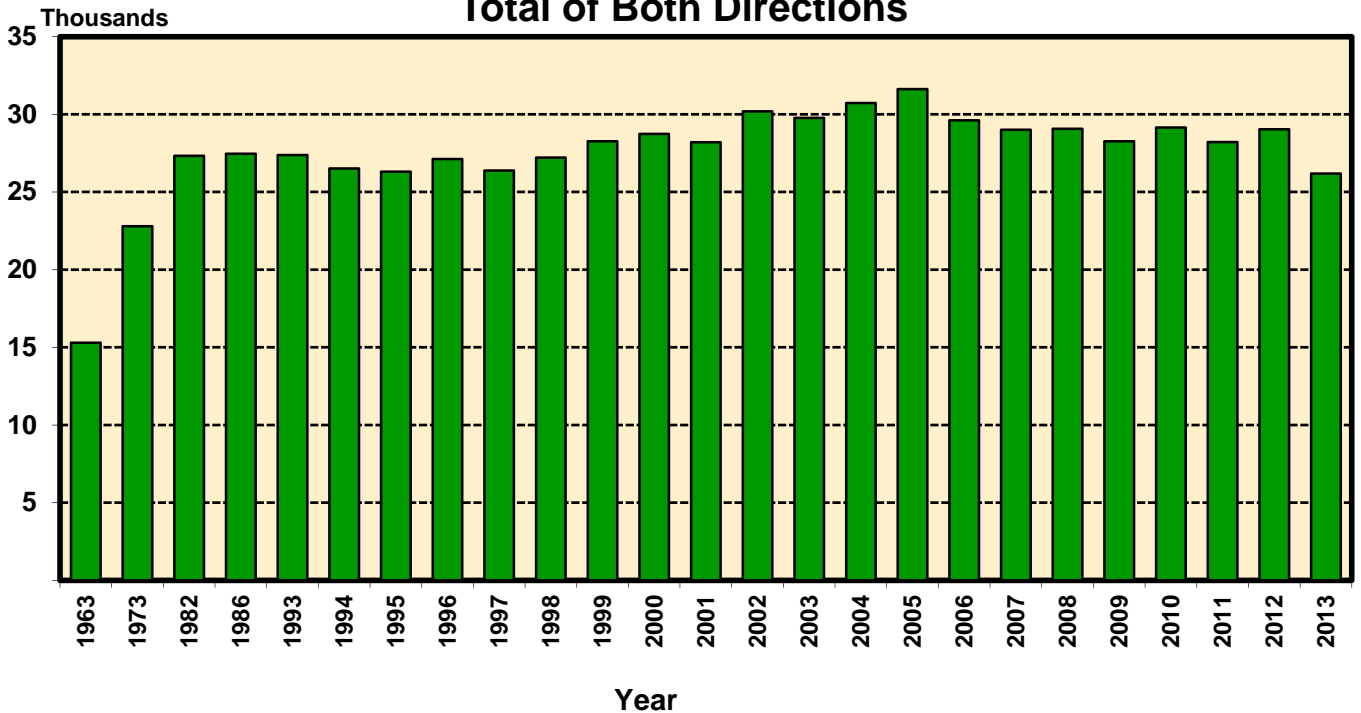


Queens – Nassau Screenline Volumes

Jamaica Avenue Hourly Vehicle Volumes ~ 2013

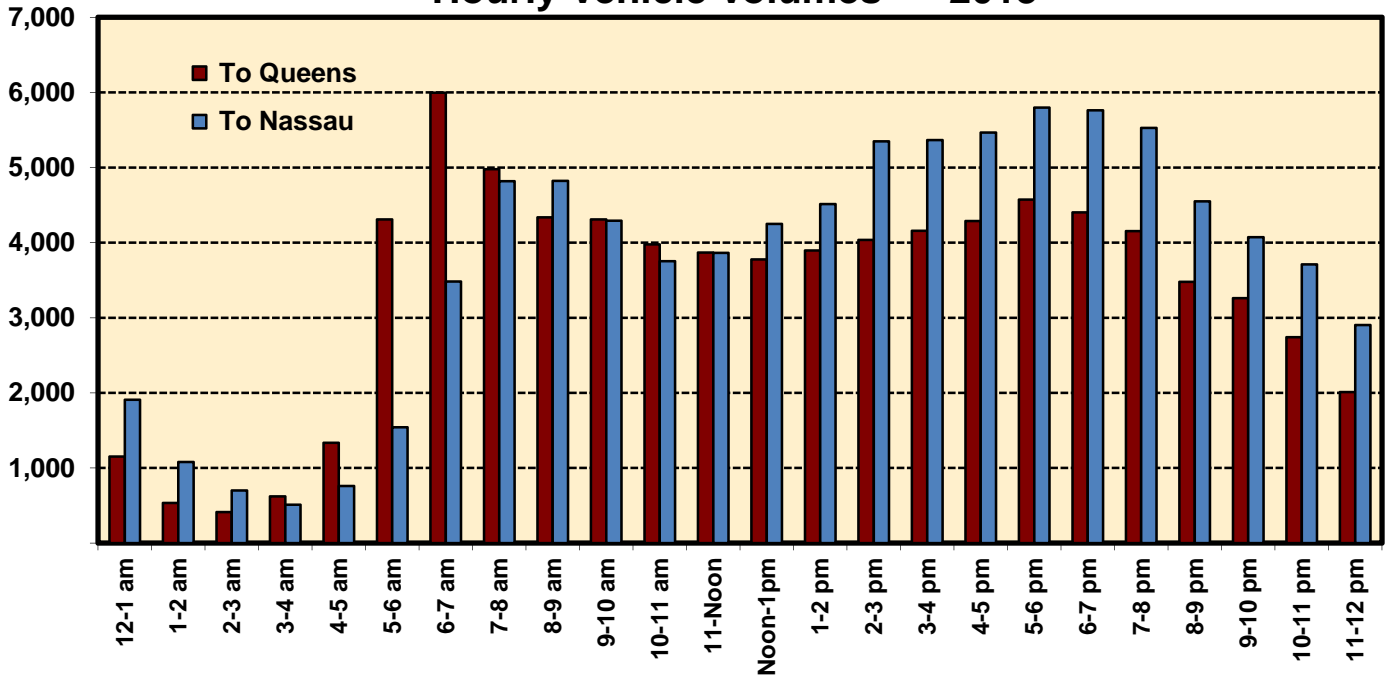


Jamaica Avenue Average Daily Traffic Volumes Total of Both Directions

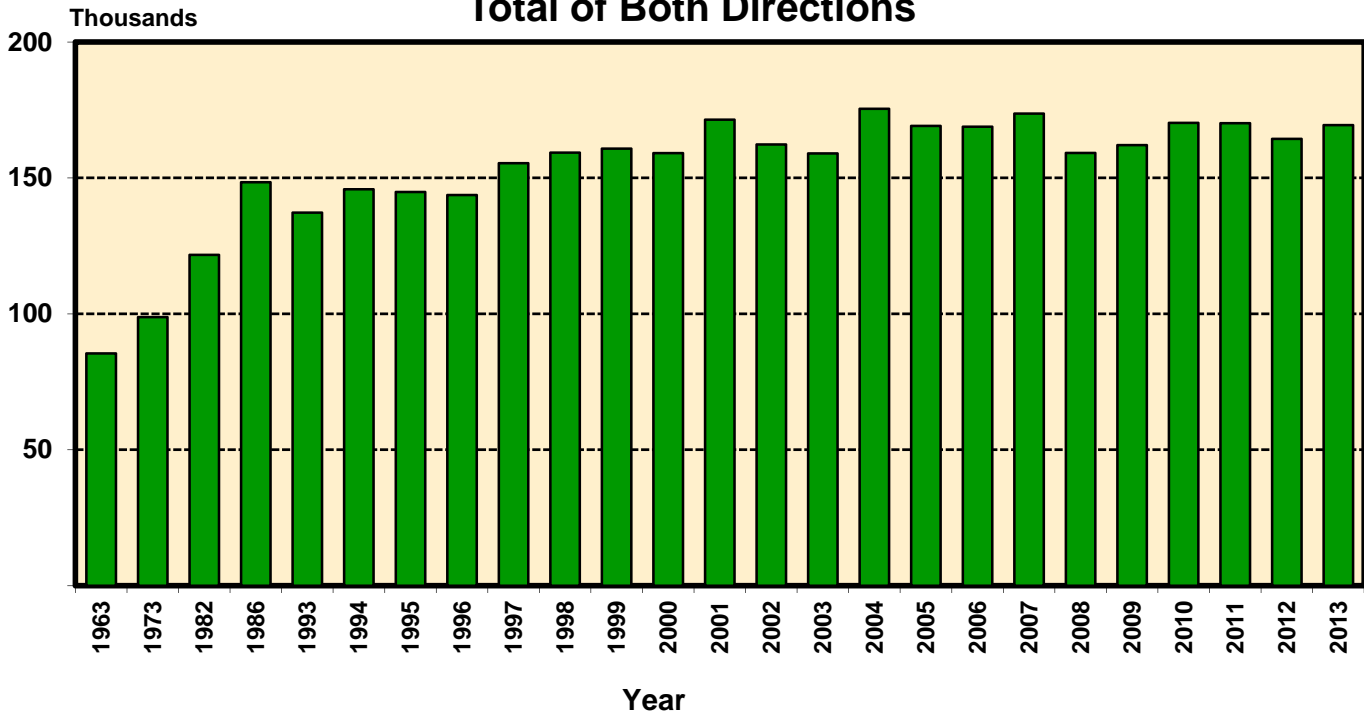


Queens – Nassau Screenline Volumes

Laurelton Parkway Hourly Vehicle Volumes ~ 2013

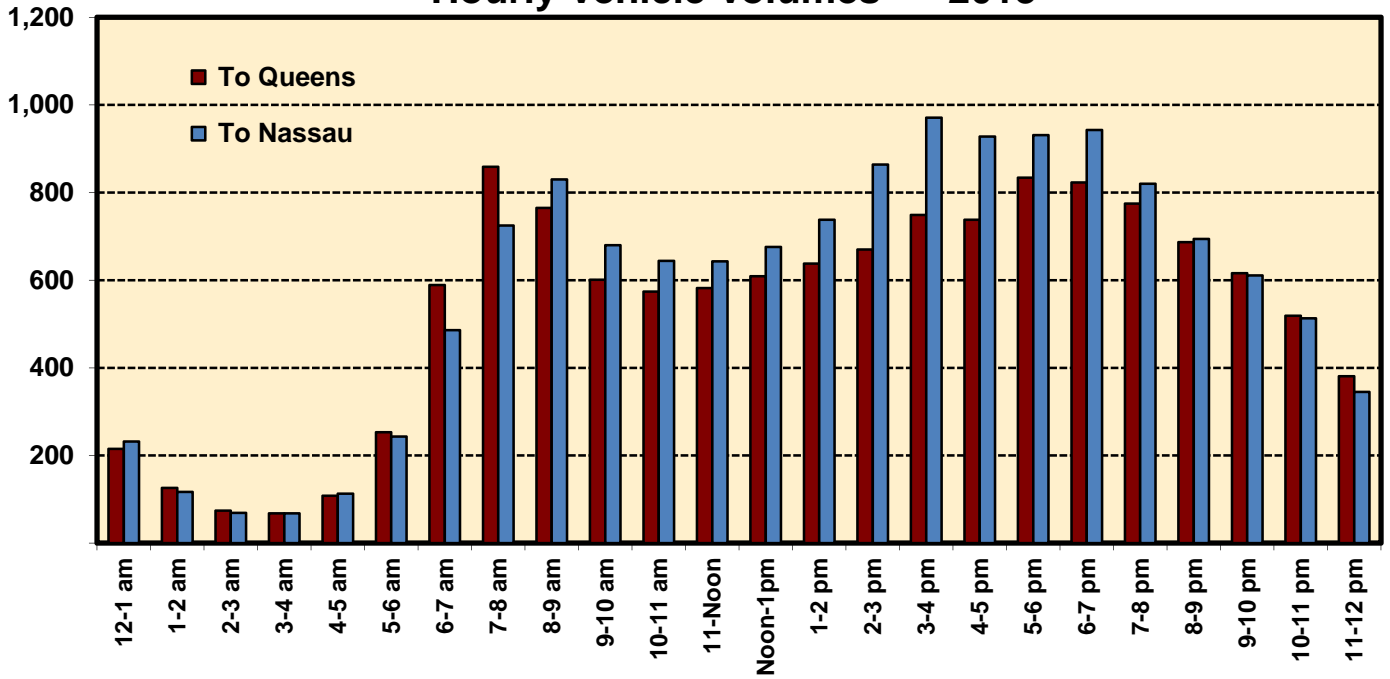


Laurelton Parkway Average Daily Traffic Volumes Total of Both Directions

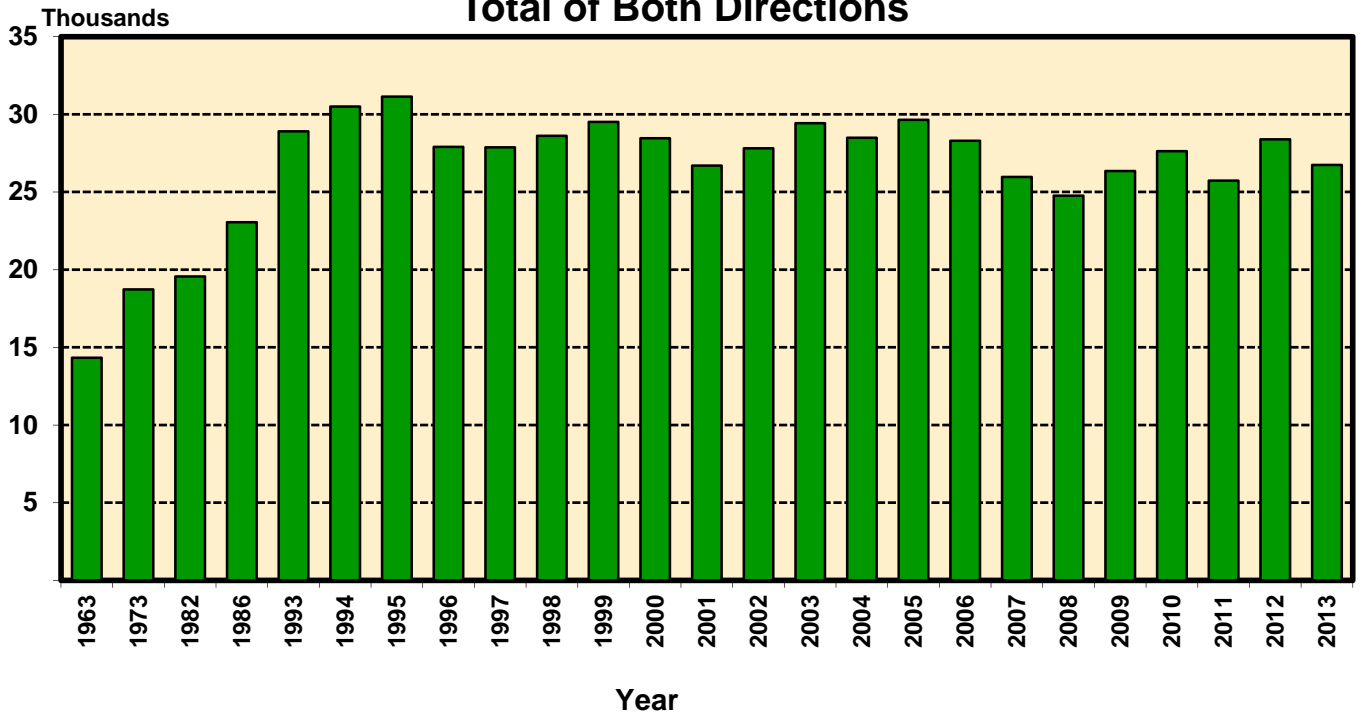


Queens – Nassau Screenline Volumes

Linden Boulevard Hourly Vehicle Volumes ~ 2013

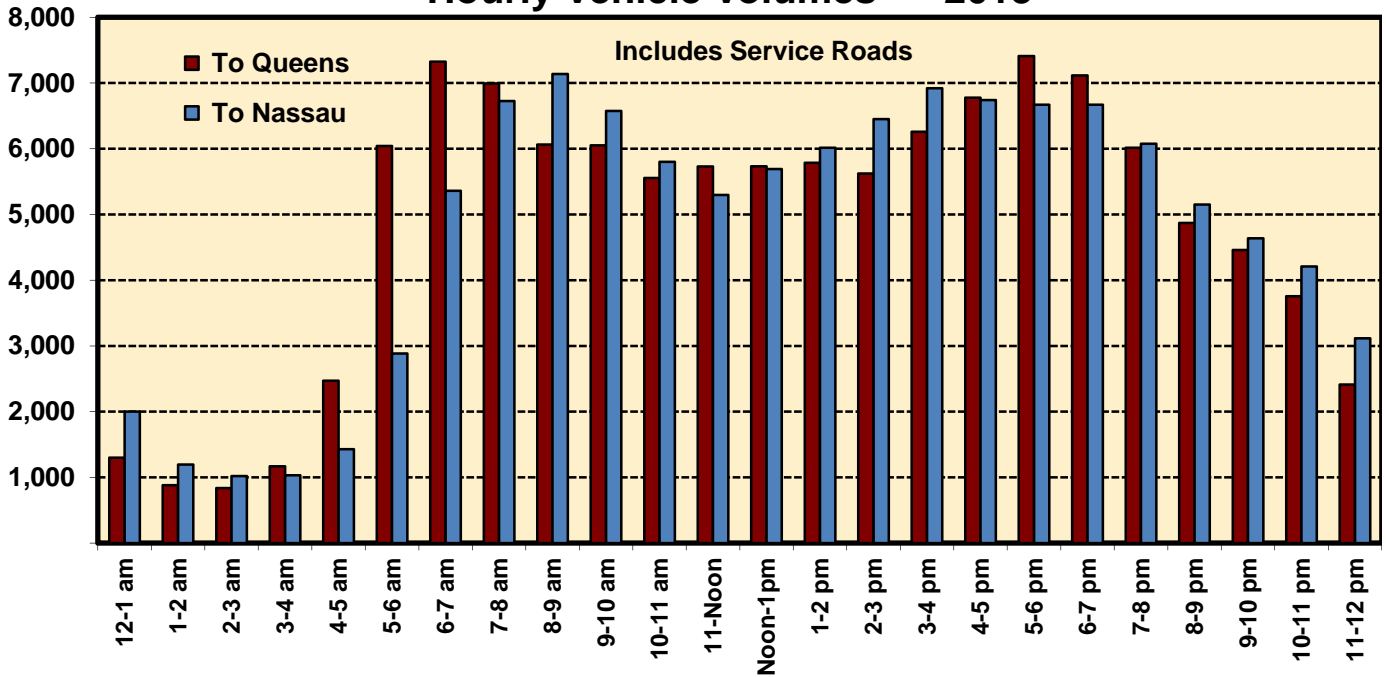


Linden Boulevard Average Daily Traffic Volumes Total of Both Directions

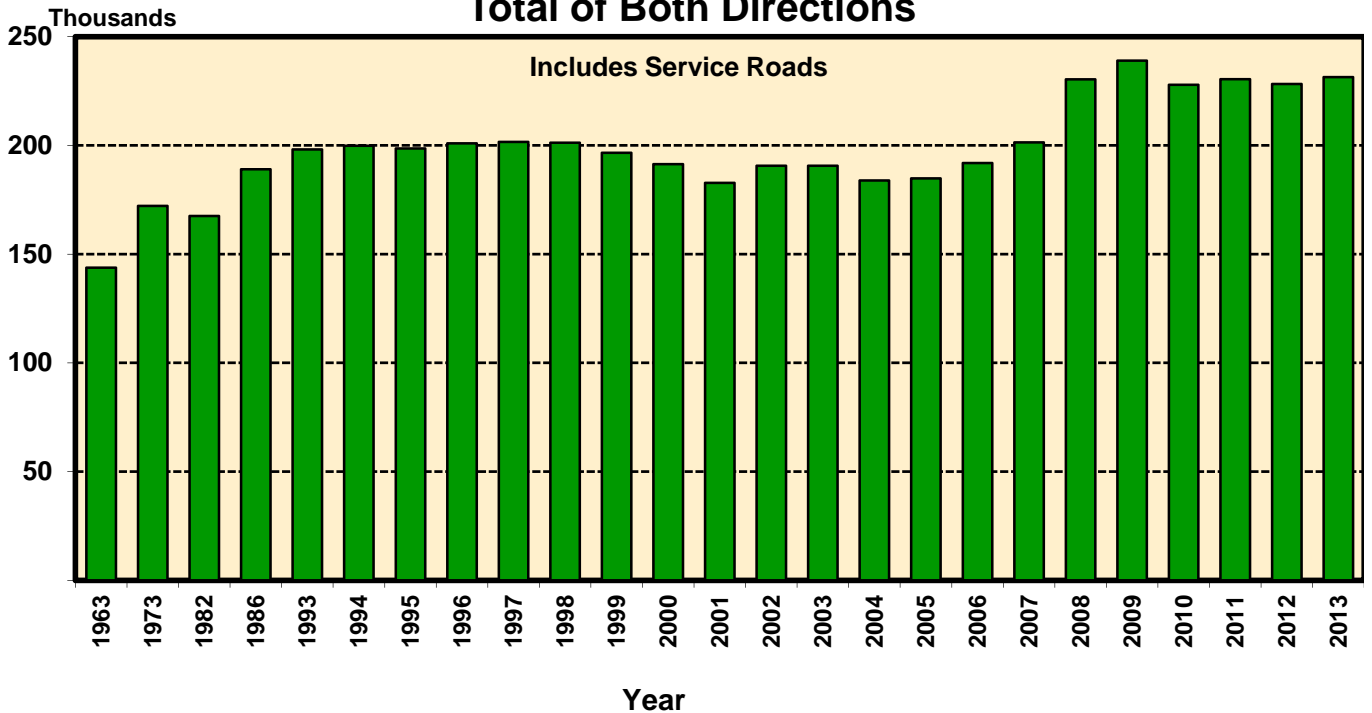


Queens – Nassau Screenline Volumes

Long Island Expressway Hourly Vehicle Volumes ~ 2013

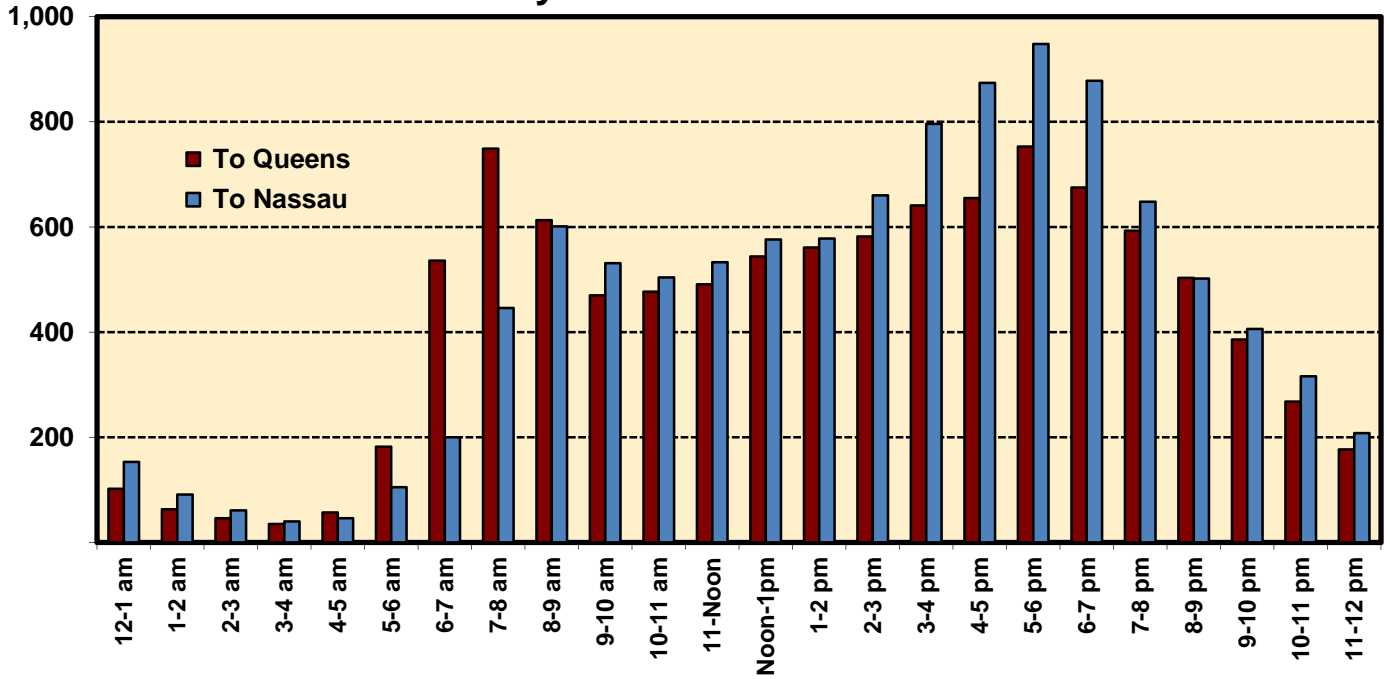


Long Island Expressway Average Daily Traffic Volumes Total of Both Directions

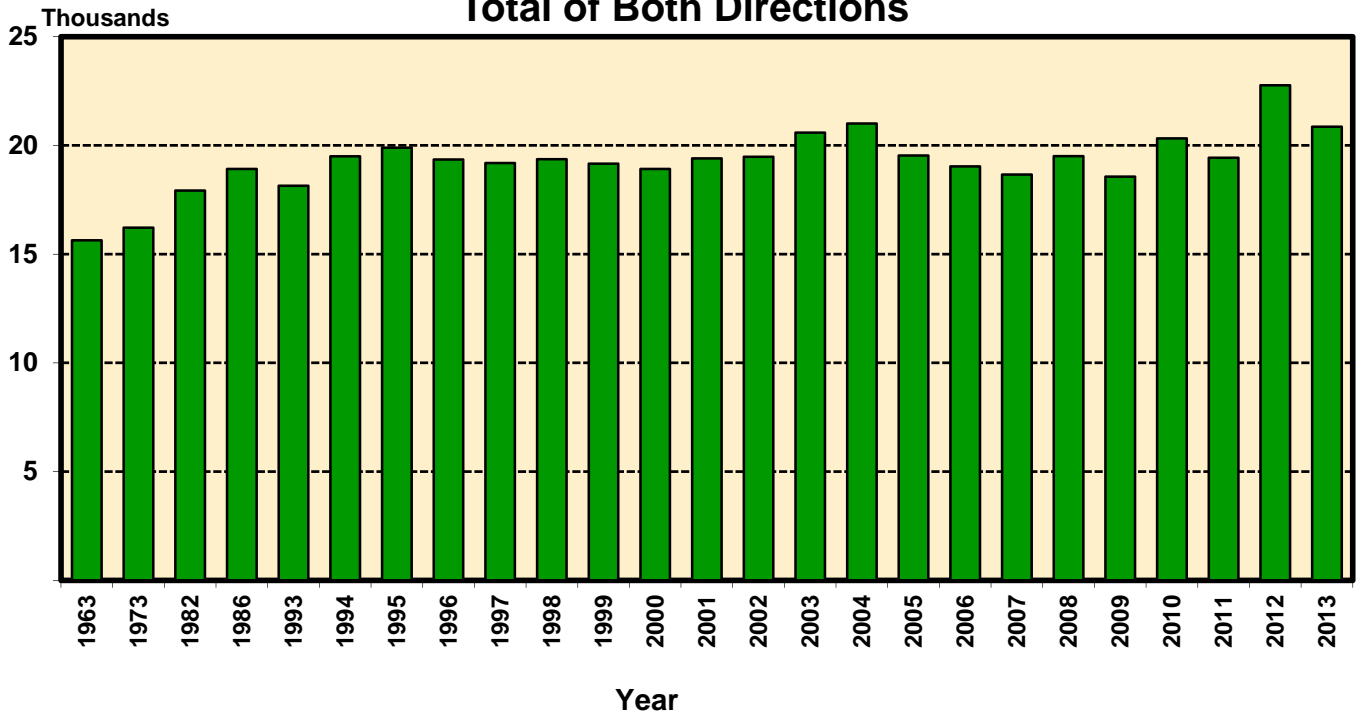


Queens – Nassau Screenline Volumes

Merrick Boulevard Hourly Vehicle Volumes ~ 2013

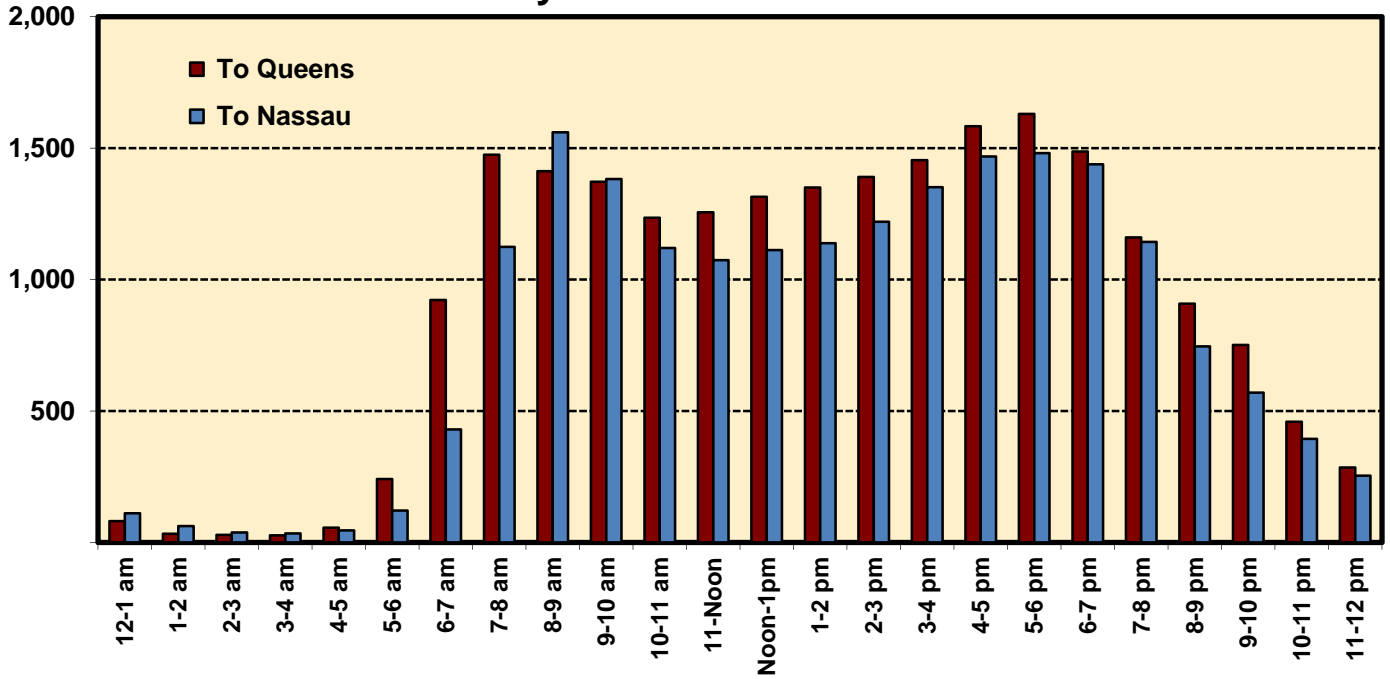


Merrick Boulevard Average Daily Traffic Volumes Total of Both Directions

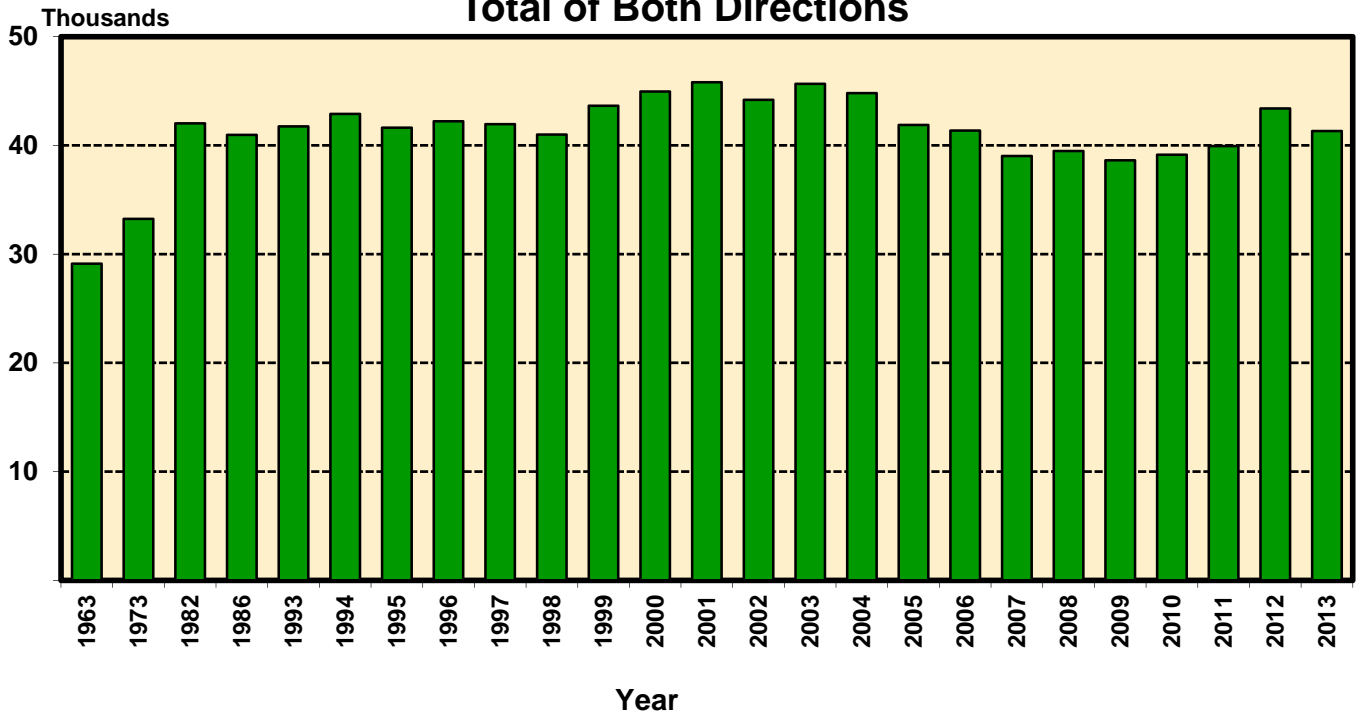


Queens – Nassau Screenline Volumes

Northern Boulevard Hourly Vehicle Volumes ~ 2013

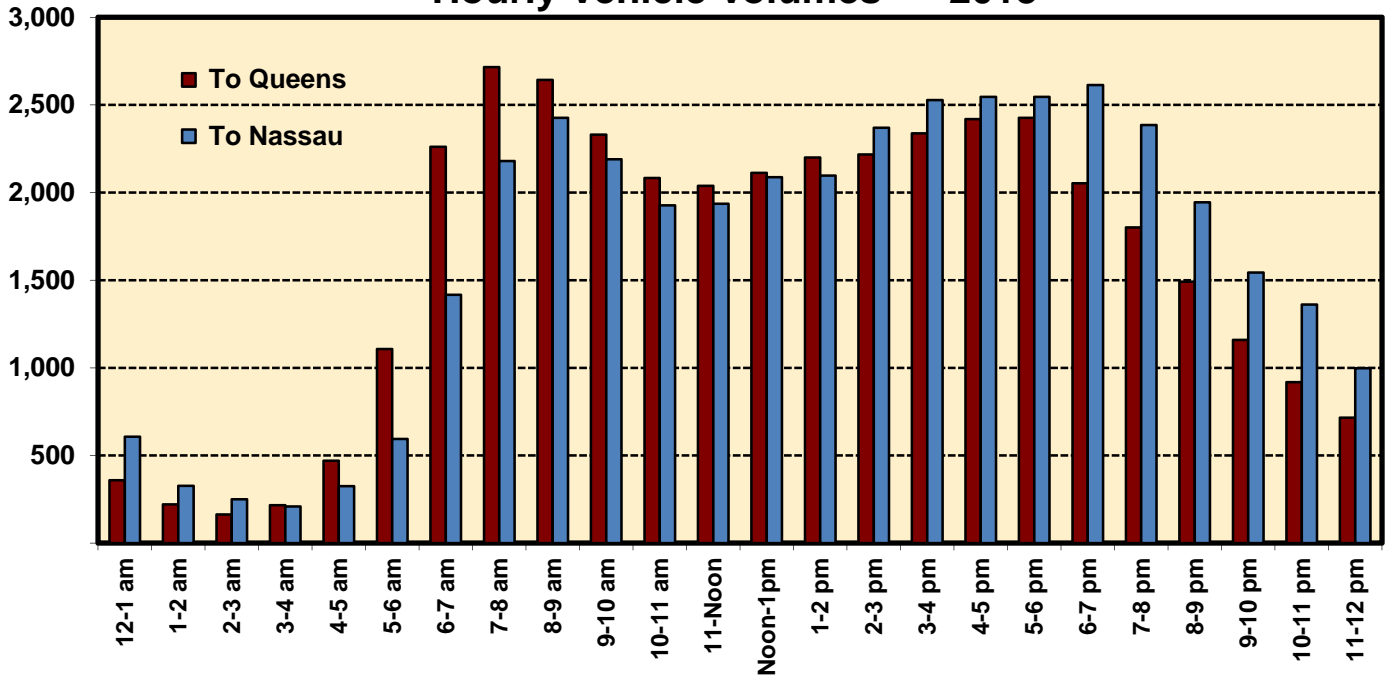


Northern Boulevard Average Daily Traffic Volumes Total of Both Directions

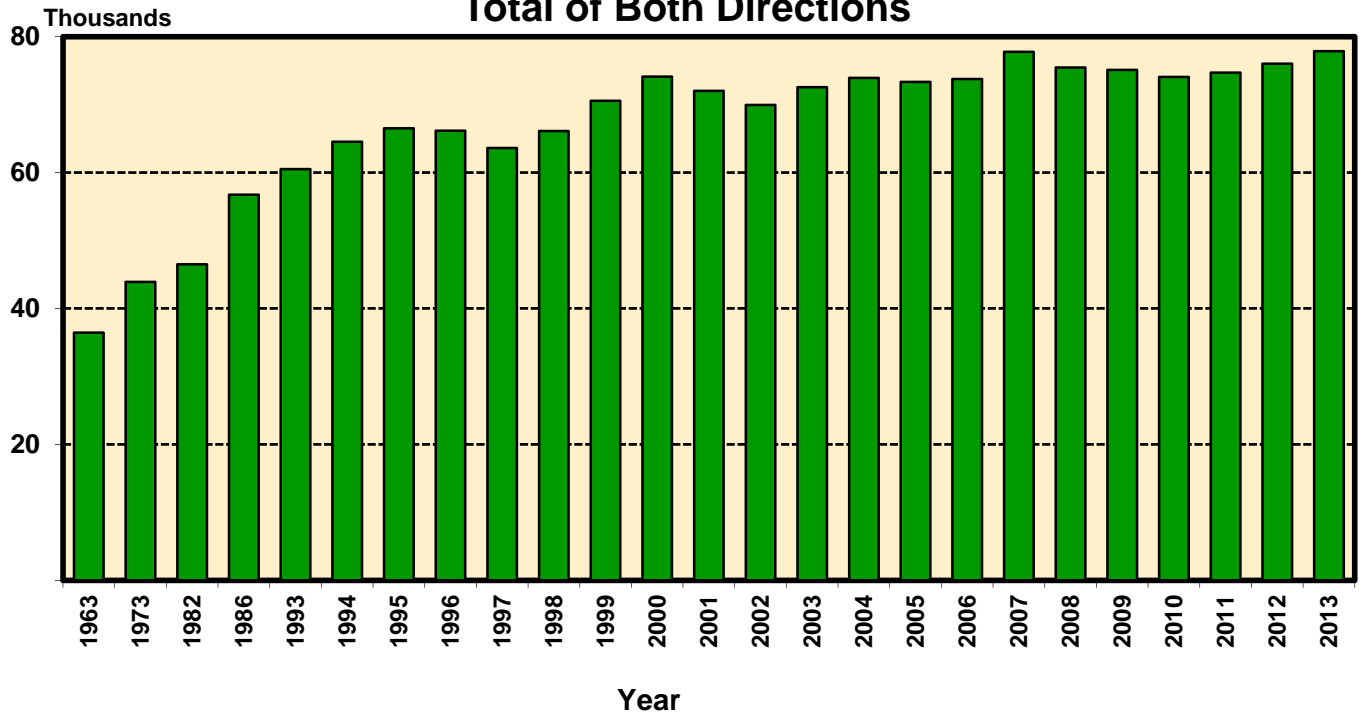


Queens – Nassau Screenline Volumes

Rockaway Boulevard Hourly Vehicle Volumes ~ 2013

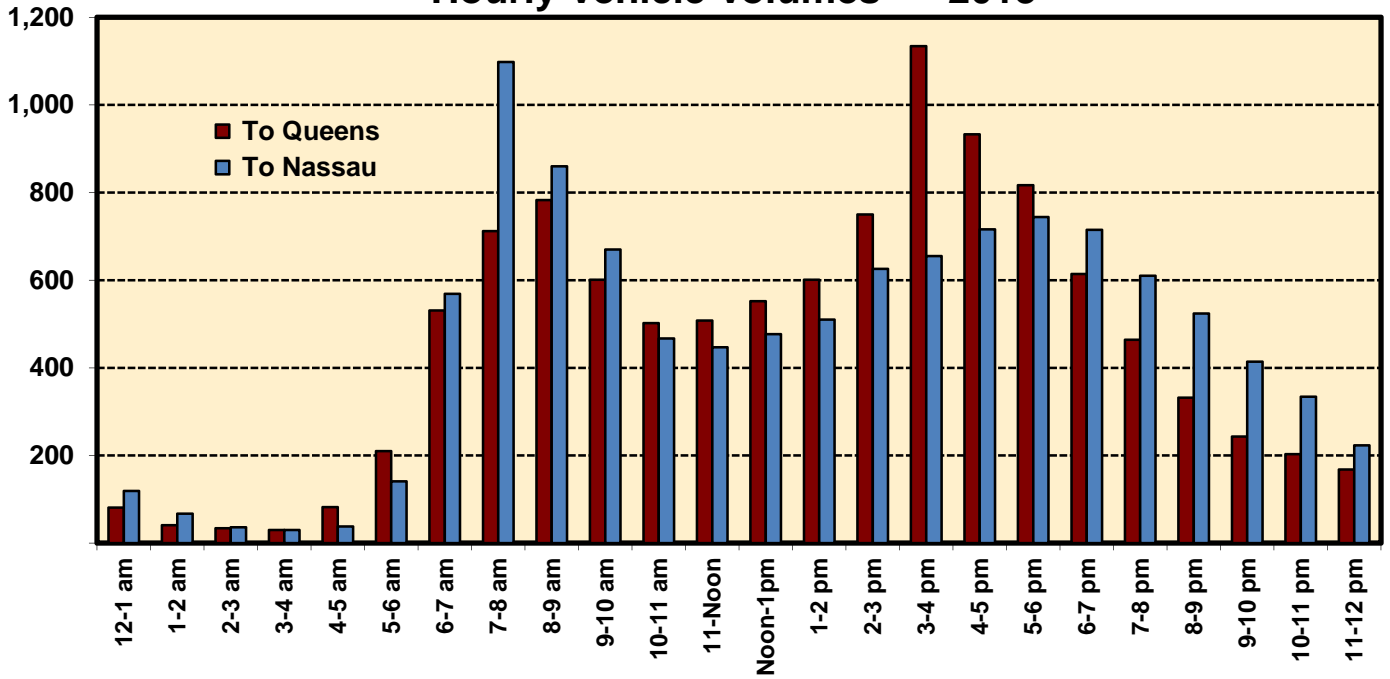


Rockaway Boulevard Average Daily Traffic Volumes Total of Both Directions

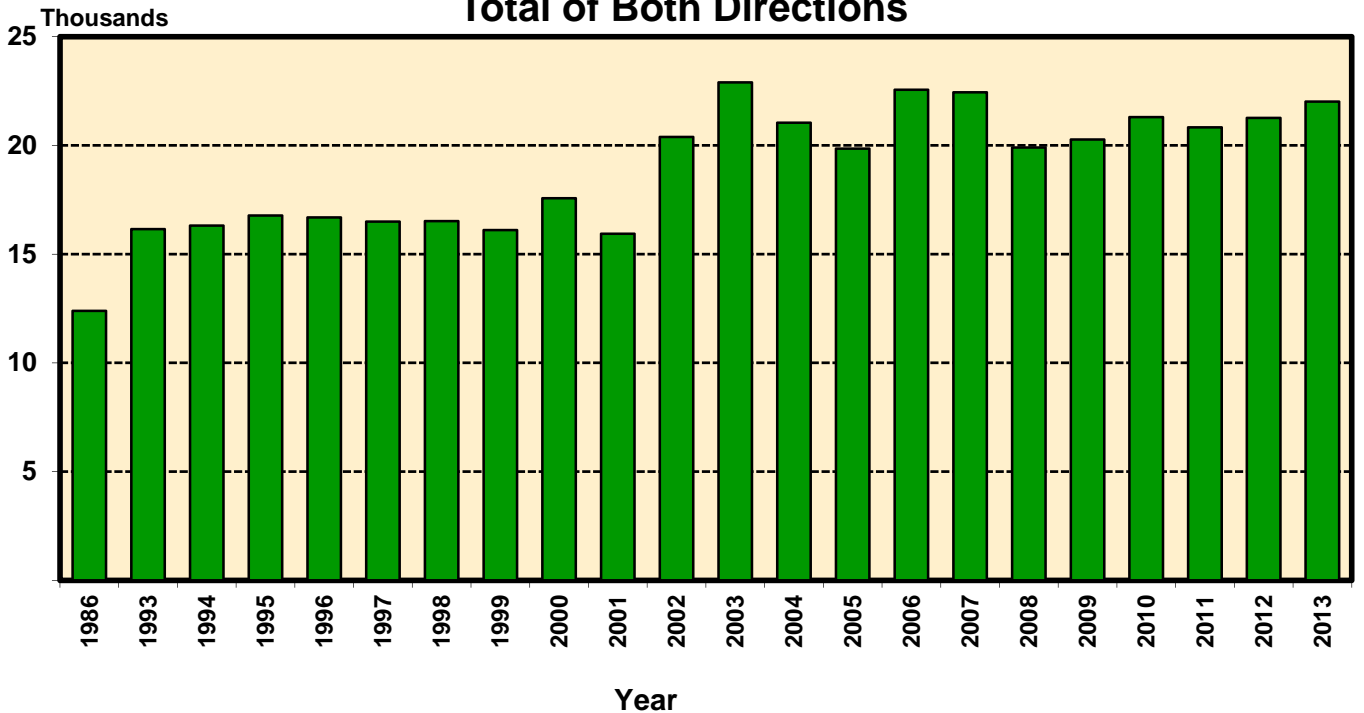


Queens – Nassau Screenline Volumes

Seagirt Boulevard Hourly Vehicle Volumes ~ 2013

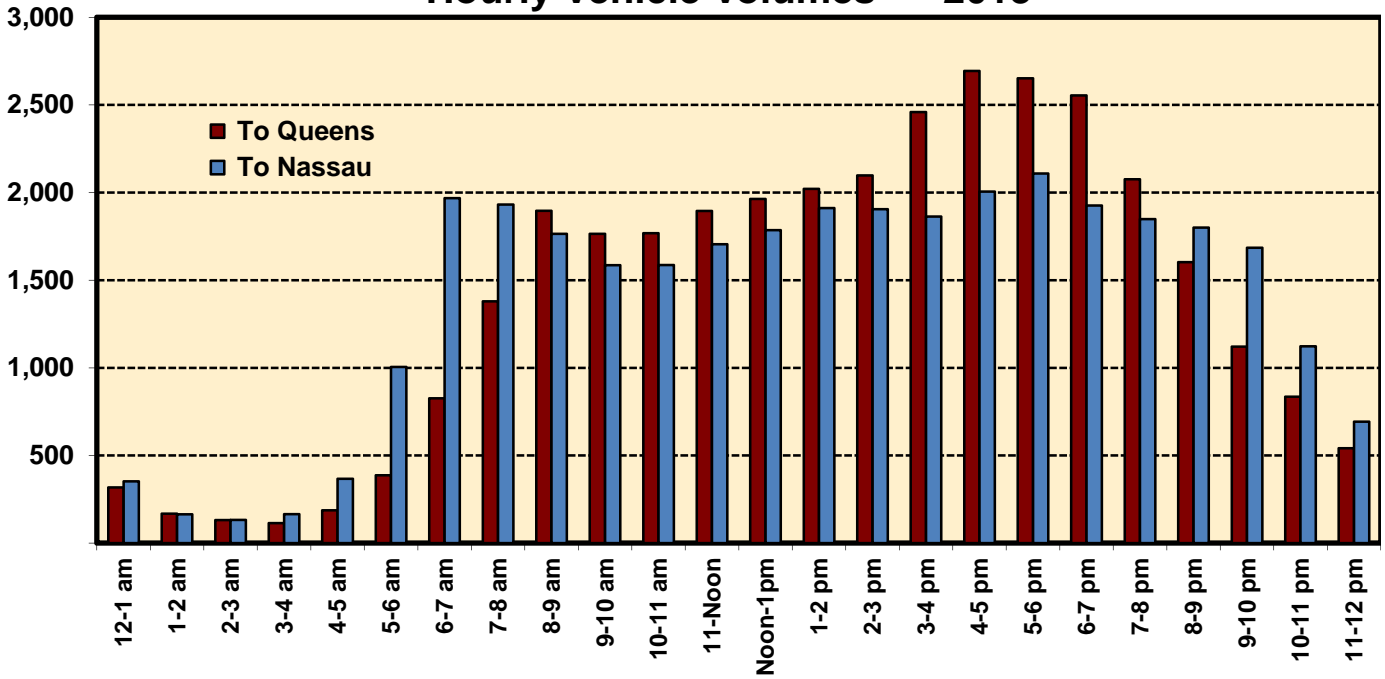


Seagirt Boulevard Average Daily Traffic Volumes Total of Both Directions

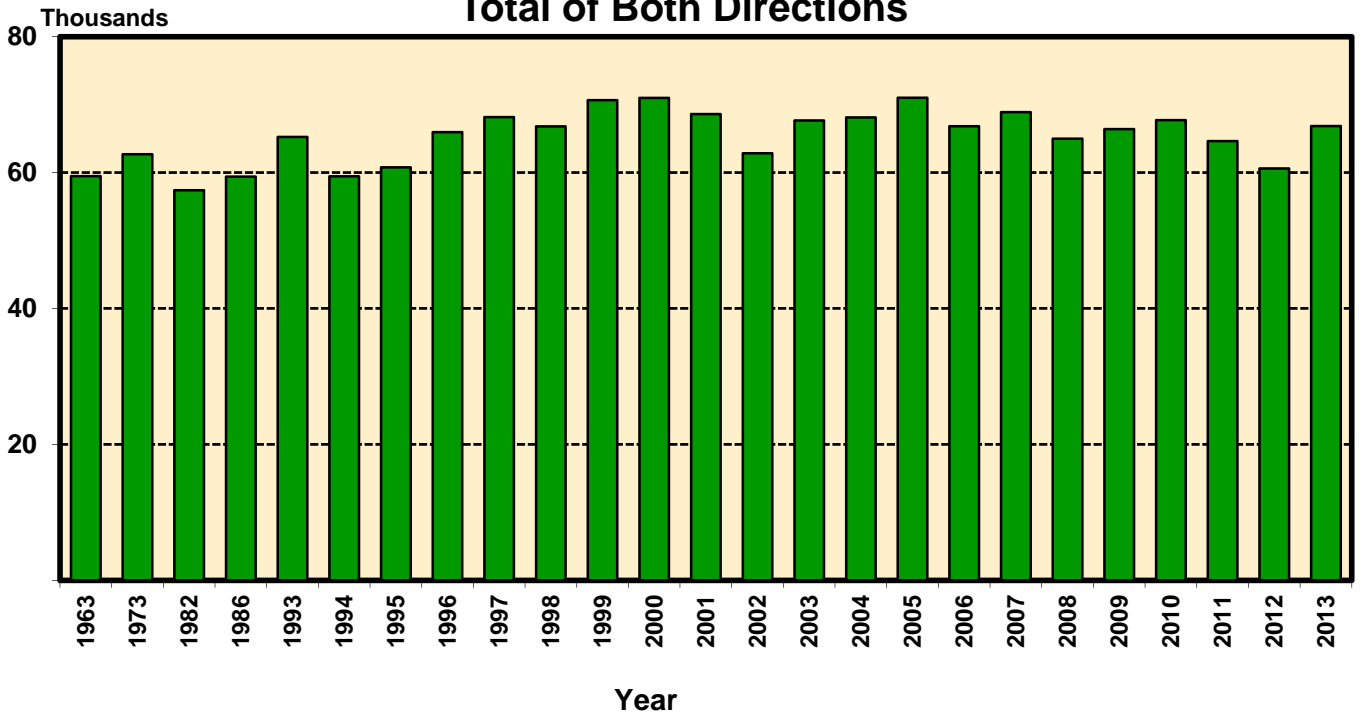


Queens – Nassau Screenline Volumes

Sunrise Highway Hourly Vehicle Volumes ~ 2013

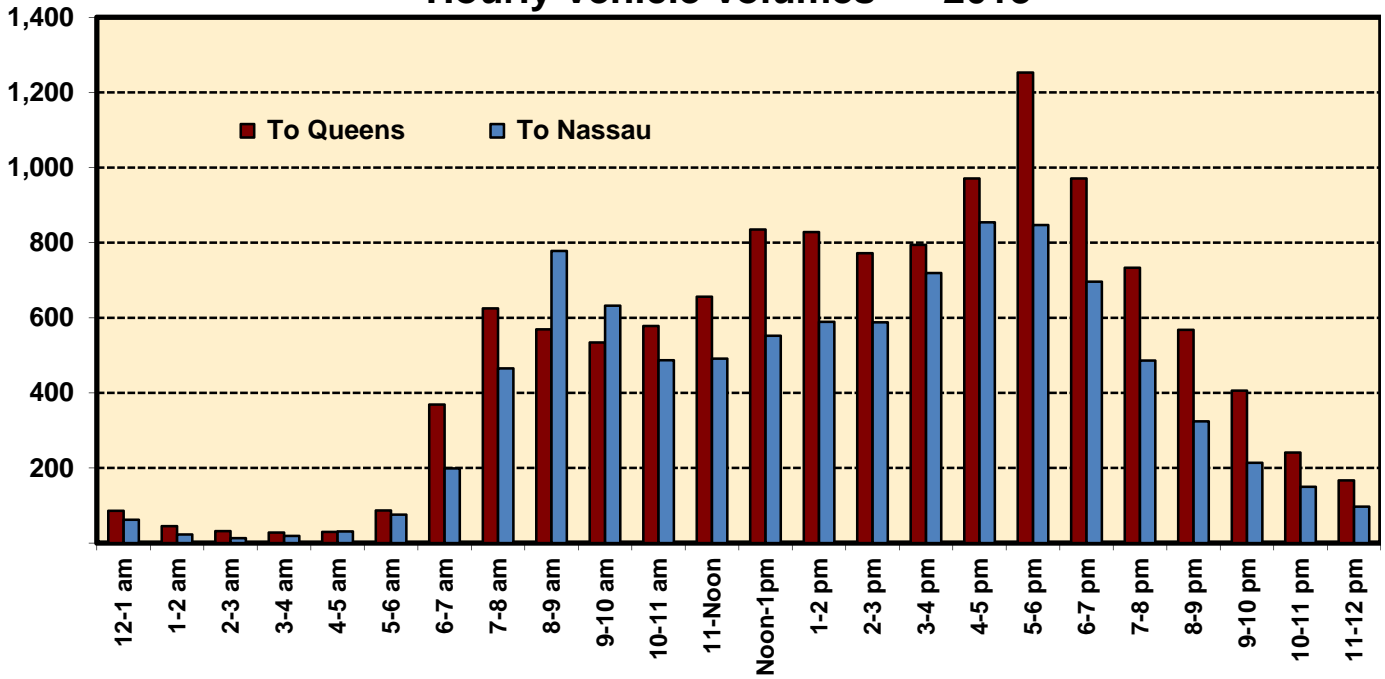


Sunrise Highway Average Daily Traffic Volumes Total of Both Directions

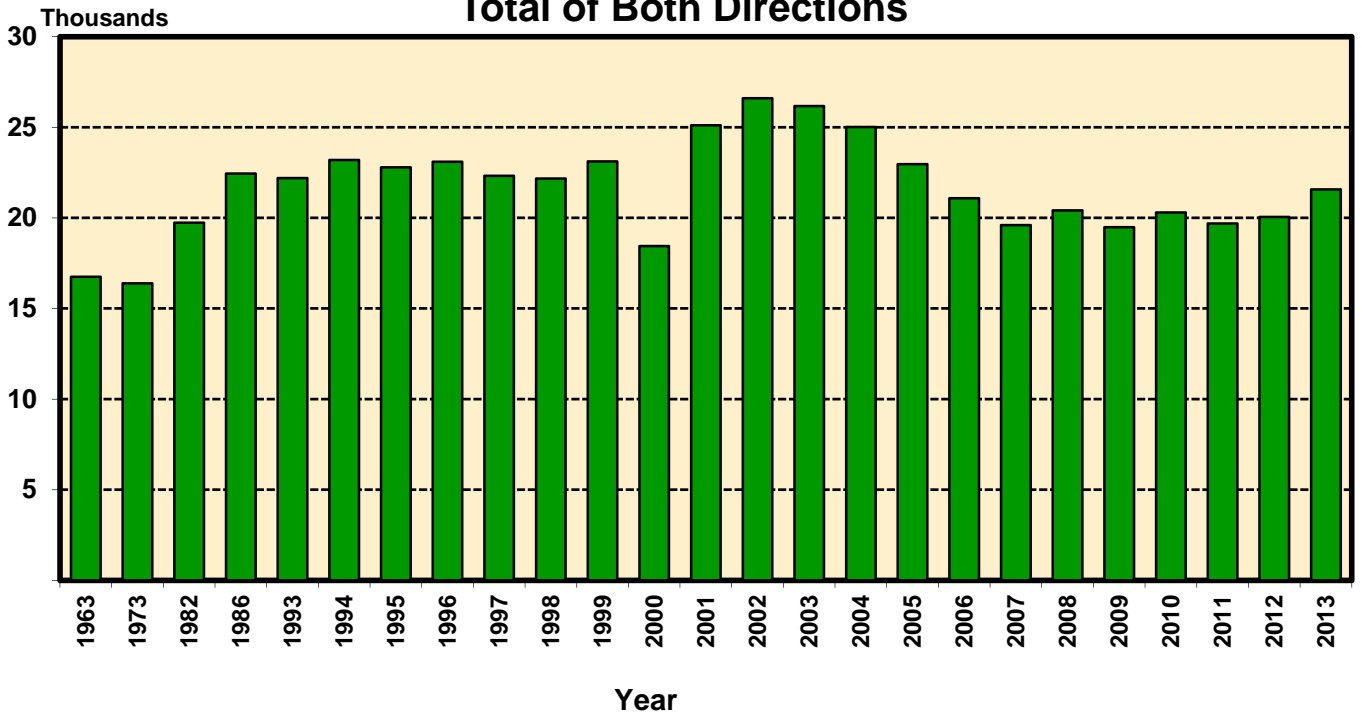


Queens – Nassau Screenline Volumes

Union Turnpike Hourly Vehicle Volumes ~ 2013



Union Turnpike Average Daily Traffic Volumes Total of Both Directions



New York – New Jersey Screenline



Outerbridge Crossing

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 – 1993 Manhattan – New Jersey

From 1986 to 1993, Manhattan - New Jersey traffic decreased 2.6%, to 473,069 daily vehicles from 485,751.

- George Washington Bridge traffic decreased 9.0%, to 260,732 daily vehicles in 1993 from 286,398 in 1986.
- Lincoln Tunnel traffic decreased 2.0%, to 119,652 daily vehicles from 122,053.
- The only increase was at the Holland Tunnel, where traffic increased 19.9%, to 92,685 daily vehicles from 77,300.

1993 – 2003 Manhattan – New Jersey

Manhattan - New Jersey traffic increased 15.7%, to 547,449 daily vehicles in 2003 from 473,069 in 1993.

- George Washington Bridge traffic increased 22.4%, to 319,029 daily vehicles in 2003 from 260,732 in 1993.
- Lincoln Tunnel traffic increased 6.4%, to 127,323 daily vehicles from 119,652.
- Holland Tunnel traffic increased 9.1%, to 101,097 daily vehicles from 92,685.

2003 – 2013 Manhattan – New Jersey

During the most recent ten-year period, Manhattan – New Jersey traffic decreased 12.4%, to 479,819 daily vehicles in 2013 from 547,449 in 2003.

- George Washington Bridge traffic decreased 13.0%, to 277,645 daily vehicles from 319,029.
- Lincoln Tunnel traffic decreased 11.9%, to 112,162 daily vehicles from 127,323.
- Holland Tunnel traffic decreased 11.0%, to 90,012 daily vehicles from 101,097.

1963 – 2013 Manhattan – New Jersey

During the 50 years from 1963 to 2013, traffic between Manhattan and New Jersey increased 80.7%, to 479,819 daily vehicles from 265,603.

- George Washington Bridge traffic climbed 117.8%, to 277,645 daily vehicles from 127,452.
- Holland Tunnel traffic increased 53.0%, to 90,012 daily vehicles from 58,814.
- Lincoln Tunnel traffic increased 41.4%, to 112,162 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 – 1993 Staten Island – New Jersey

From 1986 to 1993, Staten Island - New Jersey traffic increased by a modest 1.7%, to 140,775 vehicles per day from 138,436.

- All growth occurred at the Outerbridge Crossing, where daily traffic increased 14.6%, to 66,372 daily vehicles in 1993 from 57,896 in 1986.
- Goethals Bridge traffic decreased 6.5%, to 60,424 daily vehicles from 64,634.
- Bayonne Bridge traffic decreased 12.1%, to 13,979 daily vehicles from 15,906.

1993 – 2003 Staten Island – New Jersey

From 1993 to 2003, Staten Island - New Jersey traffic increased 24.0%, to 174,582 daily vehicles from 140,775.

- Bayonne Bridge traffic increased 44.6%, to 20,208 daily vehicles from 13,979.
- Goethals Bridge traffic increased 25.3%, to 75,724 daily vehicles from 60,424.
- Outerbridge Crossing traffic increased 18.5%, to 78,650 daily vehicles from 66,372.

2003 – 2013 Staten Island – New Jersey

During the past ten years, Staten Island - New Jersey traffic decreased 9.3%, to 158,267 daily vehicles from 174,582.

- Decreases on all three Staten Island – New Jersey bridges.
- Bayonne Bridge traffic decreased 8.2%, to 18,541 daily vehicles from 20,208.
- Goethals Bridge traffic decreased 3.6%, to 72,986 daily vehicles from 75,724.
- Outerbridge Crossing traffic decreased 15.1%, to 66,740 daily vehicles from 78,650.

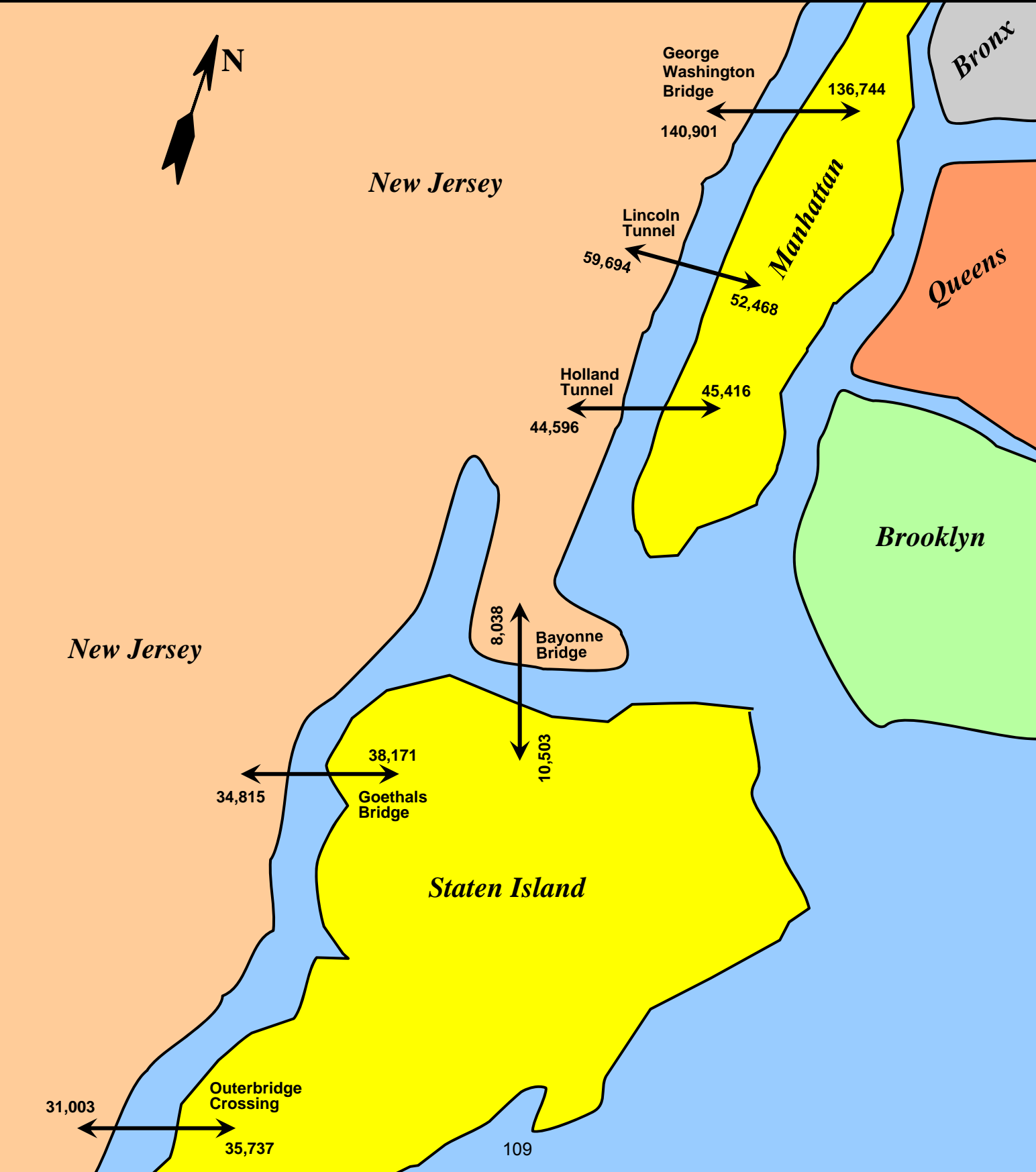
1963 – 2013 Staten Island – New Jersey

During the 50 years from 1963 to 2013, daily traffic between Staten Island and New Jersey soared 478%, to 158,267 daily vehicles from just 27,398.

- Outerbridge Crossing traffic skyrocketed more than eight fold, to 66,740 vehicles per day in 2013 from 7,114 in 1963.
- Goethals Bridge traffic jumped 485%, to 72,986 daily vehicles from 12,478.
- Bayonne Bridge traffic increased 138%, to 18,541 daily vehicles from 7,806.

New York – New Jersey Screenline

2013 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 Crossing	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
G Washington Bridge	152,418	147,861	151,639	148,567	145,102	145,105	142,321	135,932	137,949	136,744
Holland Tunnel	46,806	46,968	48,161	48,226	46,061	46,696	47,827	45,519	46,524	45,416
Lincoln Tunnel	62,826	61,460	61,812	61,619	56,812	57,507	57,542	54,850	53,731	52,468
Manhattan Totals	262,050	256,289	261,612	258,412	247,975	249,308	247,690	236,301	238,204	234,628
Bayonne Bridge	12,275	11,933	13,290	12,469	11,094	10,985	11,248	10,460	10,672	10,503
Goethals Bridge	37,559	36,905	34,327	38,687	37,979	38,397	39,470	38,676	37,670	38,171
Outerbridge Crossing	41,018	41,090	43,723	41,282	39,319	40,079	39,724	38,917	38,662	35,737
Staten Is Totals	90,852	89,928	91,340	92,438	88,392	89,461	90,442	88,053	87,004	84,411
Grand Totals	352,902	346,217	352,952	350,850	336,367	338,769	338,132	324,354	325,208	319,039

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

	1963	1973	1982	1986	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
To New Jersey															
G Washington Bridge	N/A	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	N/A	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	N/A	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	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
Bayonne Bridge*	N/A	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*	N/A	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 Crossing*	N/A	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	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
Grand Totals	N/A	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

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
To New Jersey										
G Washington Bridge	162,648	156,441	160,439	142,824	147,957	144,589	149,726	143,964	138,699	140,901
Holland Tunnel	49,365	49,992	50,284	52,265	50,996	49,488	46,840	48,041	46,219	44,596
Lincoln Tunnel	62,333	64,995	65,433	60,473	61,341	61,475	62,290	62,803	59,435	59,694
Manhattan Totals	274,346	271,428	276,136	255,562	260,294	255,552	258,856	254,808	244,353	245,191
Bayonne Bridge*	10,235	9,822	10,940	8,982	8,964	8,437	8,733	8,205	8,083	8,038
Goethals Bridge*	33,973	31,885	31,051	34,312	34,855	32,833	34,016	36,904	35,465	34,815
Outerbridge Crossing*	39,208	40,018	42,583	34,496	33,565	34,773	34,941	36,374	33,154	31,003
Staten Is Totals	83,416	81,725	84,574	77,790	77,384	76,043	77,690	81,483	76,702	73,856
Grand Totals	357,762	353,153	360,710	333,352	337,678	331,595	336,546	336,291	321,055	319,047

* 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 Crossing*	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

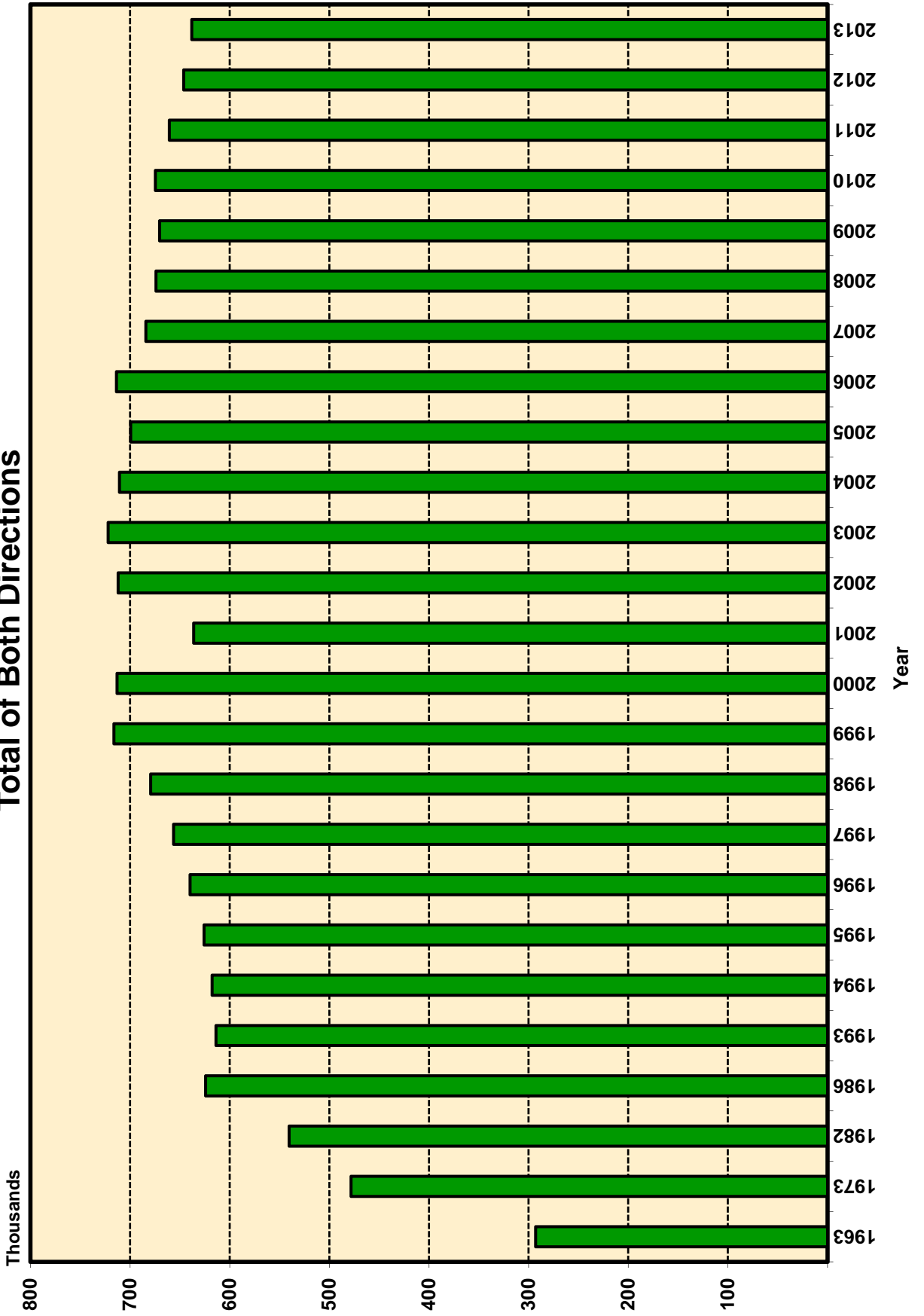
Both Directions

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
G Washington Bridge	315,066	304,302	312,078	291,391	293,059	289,694	292,047	279,896	276,648	277,645
Holland Tunnel	96,171	96,960	98,425	100,491	97,057	96,184	94,667	93,560	92,743	90,012
Lincoln Tunnel	125,159	126,455	127,245	122,092	118,153	118,982	119,832	117,653	113,166	112,162
Manhattan Totals	536,396	527,717	537,748	513,974	508,269	504,860	506,546	491,109	482,557	479,819
Bayonne Bridge*	22,510	21,755	24,230	21,451	20,058	19,422	19,981	18,665	18,755	18,541
Goethals Bridge*	71,532	68,790	65,378	72,999	72,834	71,230	73,486	75,580	73,135	72,986
Outerbridge Crossing*	80,226	81,108	86,306	75,778	72,884	74,852	74,665	75,291	71,816	66,740
Staten Is Totals	174,268	171,653	175,914	170,228	165,776	165,504	168,132	169,536	163,706	158,267
Grand Totals	710,664	699,370	713,662	684,202	674,045	670,364	674,678	660,645	646,263	638,086

* 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



2013 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	1,803	2,474	693	996	762	1,403	3,258	4,873
1-2am	1,106	1,304	447	619	460	784	2,013	2,707
2-3am	955	995	314	441	373	469	1,642	1,905
3-4am	1,175	1,062	375	486	437	379	1,987	1,927
4-5am	2,075	1,444	681	760	788	514	3,544	2,718
5-6am	6,086	2,976	2,207	1,381	2,724	824	11,017	5,181
6-7am	11,120	5,031	3,040	2,142	5,069	1,728	19,229	8,901
7-8am	9,799	6,516	2,882	2,579	4,708	2,640	17,389	11,735
8-9am	8,826	7,076	2,752	2,367	4,285	2,434	15,863	11,877
9-10am	8,359	6,425	2,661	2,016	3,888	2,362	14,908	10,803
10-11am	7,461	5,541	2,510	1,836	3,254	1,823	13,225	9,200
11-Noon	6,615	5,805	2,068	1,943	2,732	2,174	11,415	9,922
Noon-1	6,293	6,087	1,943	1,998	2,485	2,388	10,721	10,473
1-2pm	6,209	6,377	1,962	2,264	2,354	2,905	10,525	11,546
2-3pm	6,595	8,072	2,134	2,618	2,460	3,418	11,189	14,108
3-4pm	7,216	10,148	2,374	2,646	2,457	4,634	12,047	17,428
4-5pm	7,857	10,737	2,617	2,689	1,755	4,728	12,229	18,154
5-6pm	8,290	10,718	2,757	2,171	1,418	4,584	12,465	17,473
6-7pm	7,861	10,104	2,655	2,237	1,706	4,666	12,222	17,007
7-8pm	6,328	9,634	2,269	2,272	2,126	3,570	10,723	15,476
8-9pm	4,846	7,746	1,745	2,212	1,820	3,197	8,411	13,155
9-10pm	4,014	5,897	1,570	2,282	1,689	3,203	7,273	11,382
10-11pm	3,298	4,588	1,578	2,013	1,475	3,056	6,351	9,657
11-Mid	2,557	4,144	1,182	1,628	1,243	1,811	4,982	7,583
24 hr Total	136,744	140,901	45,416	44,596	52,468	59,694	234,628	245,191
6-10am	38,104	25,048	11,335	9,104	17,950	9,164	67,389	43,316
10am-1pm	20,369	17,433	6,521	5,777	8,471	6,385	35,361	29,595
1-3pm	12,804	14,449	4,096	4,882	4,814	6,323	21,714	25,654
3-7pm	31,224	41,707	10,403	9,743	7,336	18,612	48,963	70,062
6am-7pm	102,501	98,637	32,355	29,506	38,571	40,484	173,427	168,627

* To Manhattan

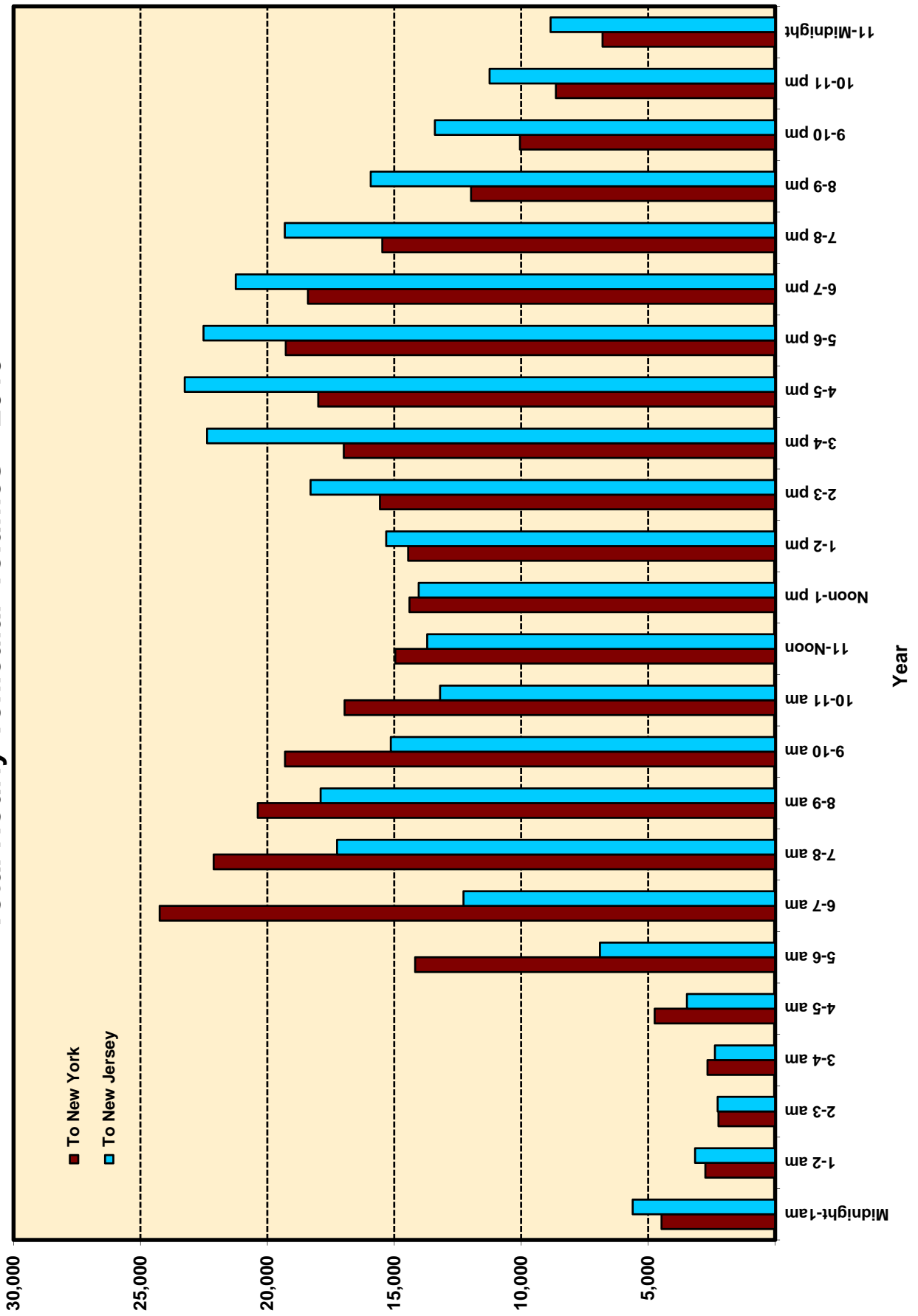
2013 Screenline Volumes New York - New Jersey (cont'd)

	Bayonne Bridge		Goethals Bridge		Outerbridge Crossing		Staten Island Totals		Grand Totals	
	* S/B	N/B	* E/B	W/B	* E/B	W/B	To Staten Is.	To N.J.	To N.Y.	To N.J.
Mid-1am	143	57	721	389	352	289	1,216	735	4,474	5,608
1-2am	87	34	430	233	219	180	736	447	2,749	3,154
2-3am	70	25	342	213	178	120	590	358	2,232	2,263
3-4am	73	43	375	275	229	126	677	444	2,664	2,371
4-5am	94	106	613	452	495	199	1,202	757	4,746	3,475
5-6am	161	273	1,297	982	1,703	462	3,161	1,717	14,178	6,898
6-7am	424	607	1,937	1,567	2,652	1,200	5,013	3,374	24,242	12,275
7-8am	494	918	1,780	2,647	2,456	1,958	4,730	5,523	22,119	17,258
8-9am	520	1,016	1,845	2,637	2,154	2,374	4,519	6,027	20,382	17,904
9-10am	433	487	1,895	1,973	2,068	1,878	4,396	4,338	19,304	15,141
10-11am	372	401	1,658	1,904	1,706	1,694	3,736	3,999	16,961	13,199
11-Noon	374	353	1,582	1,891	1,592	1,541	3,548	3,785	14,963	13,707
Noon-1	407	339	1,668	1,818	1,606	1,410	3,681	3,567	14,402	14,040
1-2pm	461	400	1,791	1,789	1,678	1,585	3,930	3,774	14,455	15,320
2-3pm	597	382	1,944	1,884	1,837	1,924	4,378	4,190	15,567	18,298
3-4pm	733	390	2,260	2,127	1,951	2,432	4,944	4,949	16,991	22,377
4-5pm	916	388	2,582	2,394	2,268	2,320	5,766	5,102	17,995	23,256
5-6pm	1,197	424	3,001	2,282	2,614	2,340	6,812	5,046	19,277	22,519
6-7pm	1,034	370	2,830	1,782	2,314	2,085	6,178	4,237	18,400	21,244
7-8pm	653	319	2,264	1,839	1,834	1,681	4,751	3,839	15,474	19,315
8-9pm	423	226	1,651	1,273	1,493	1,278	3,567	2,777	11,978	15,932
9-10pm	343	189	1,465	1,006	972	825	2,780	2,020	10,053	13,402
10-11pm	260	167	1,217	785	806	637	2,283	1,589	8,634	11,246
11-Mid	234	124	1,023	673	560	465	1,817	1,262	6,799	8,845
24 hr Total	10,503	8,038	38,171	34,815	35,737	31,003	84,411	73,856	319,039	319,047
6-10am	1,871	3,028	7,457	8,824	9,330	7,410	18,658	19,262	86,047	62,578
10am-1pm	1,153	1,093	4,908	5,613	4,904	4,645	10,965	11,351	46,326	40,946
1-3pm	1,058	782	3,735	3,673	3,515	3,509	8,308	7,964	30,022	33,618
3-7pm	3,880	1,572	10,673	8,585	9,147	9,177	23,700	19,334	72,663	89,396
6am-7pm	7,962	6,475	26,773	26,695	26,896	24,741	61,631	57,911	235,058	226,538

* To Staten Island

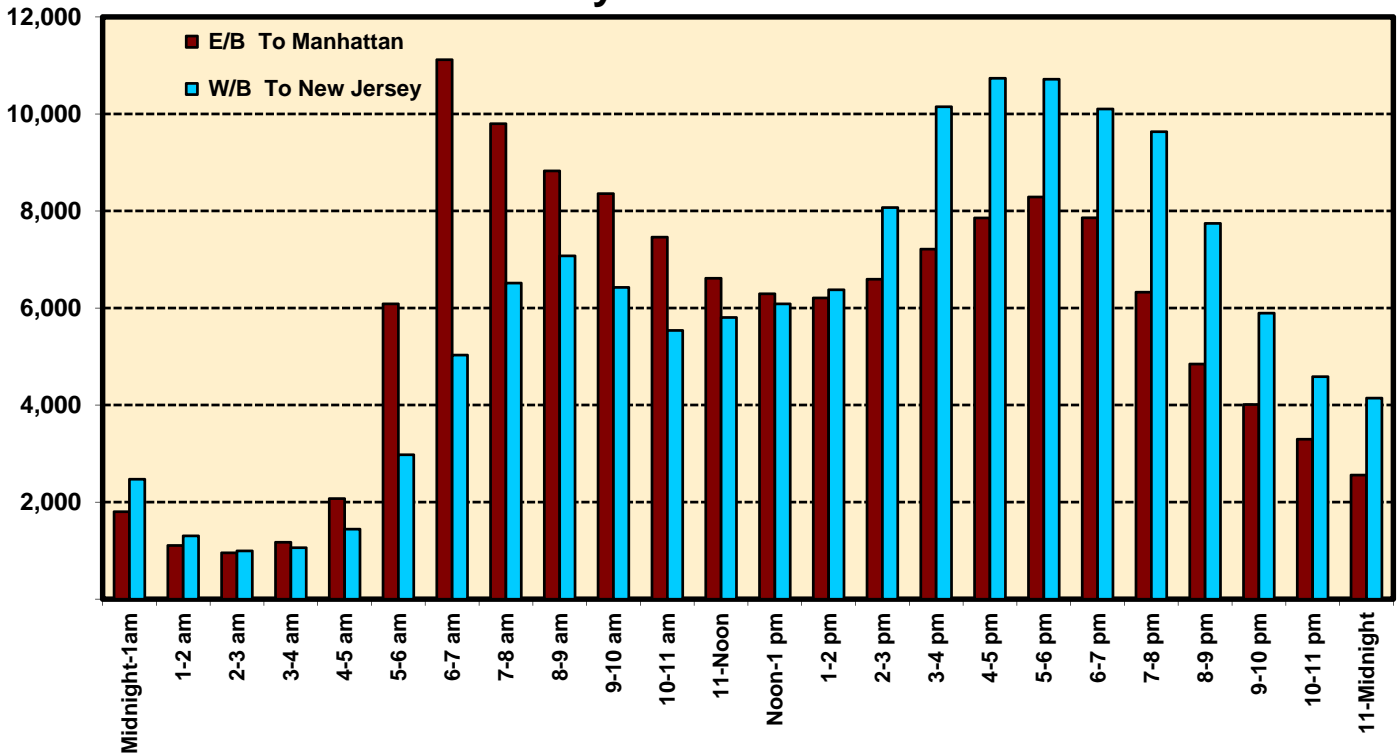
New York – New Jersey Screenline Volumes

Total Hourly Vehicular Volumes ~ 2013

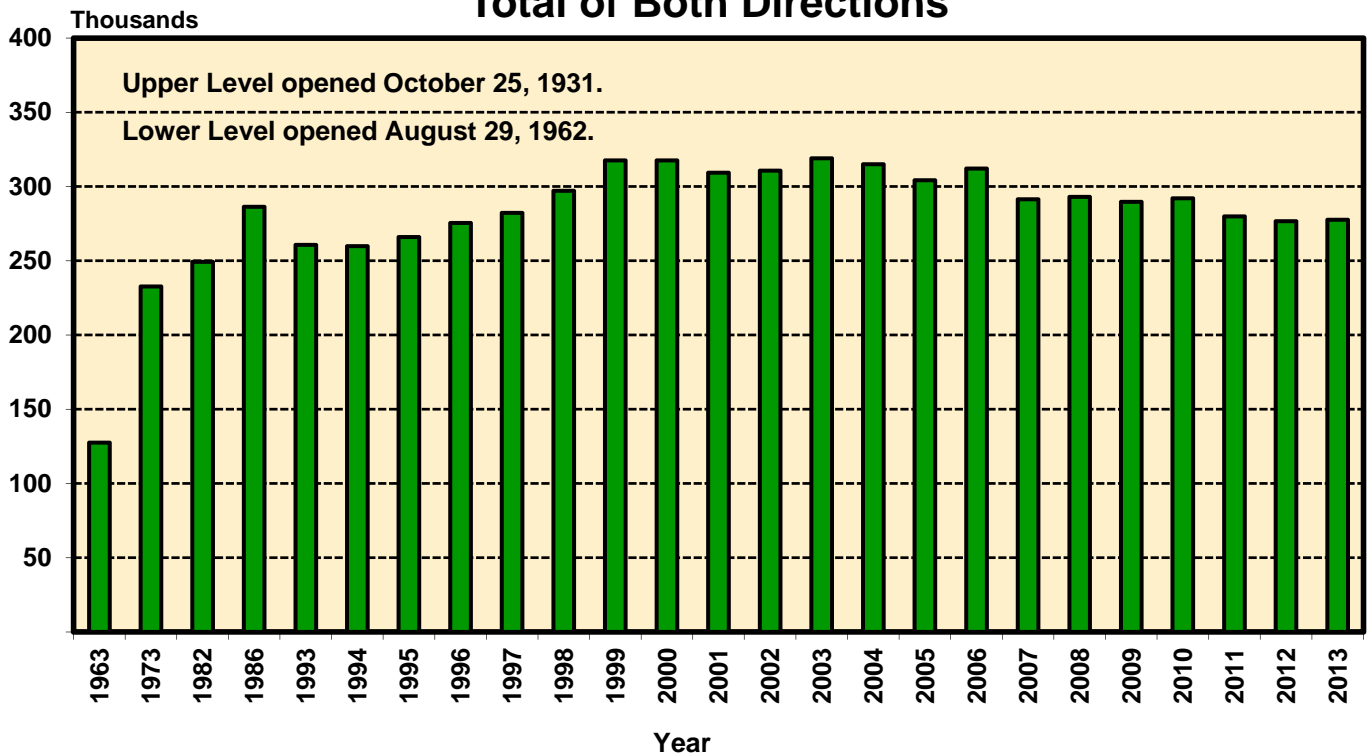


New York – New Jersey Screenline Volumes

George Washington Bridge ~ 2013 Hourly Vehicular Volumes

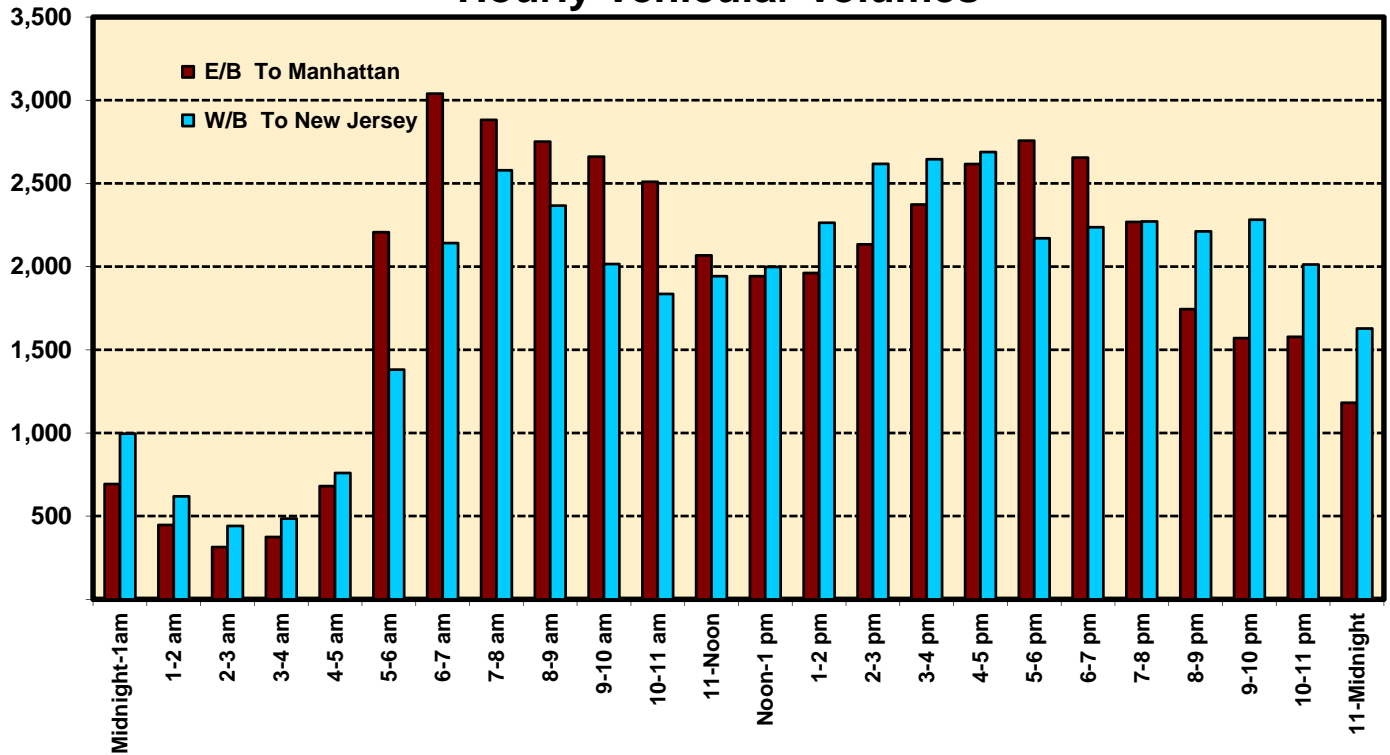


George Washington Bridge Average Daily Traffic Volumes Total of Both Directions

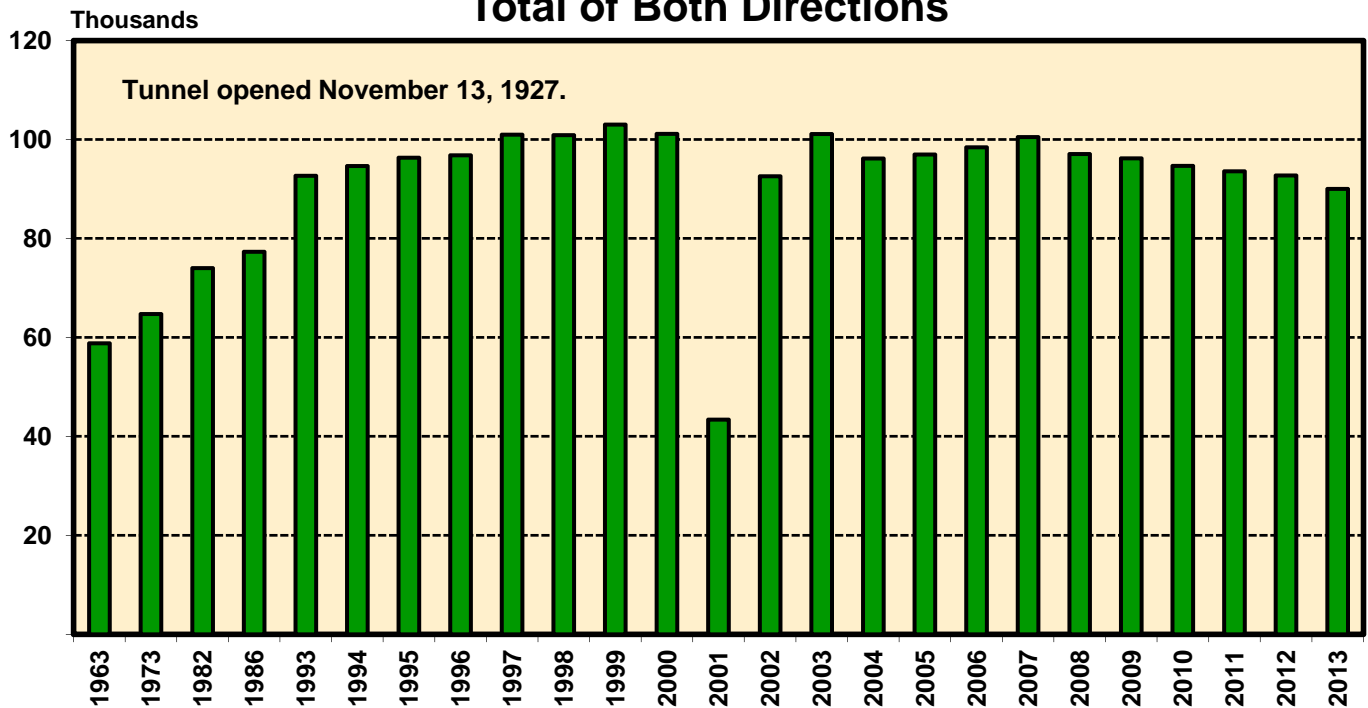


New York – New Jersey Screenline Volumes

Holland Tunnel ~ 2013 Hourly Vehicular Volumes



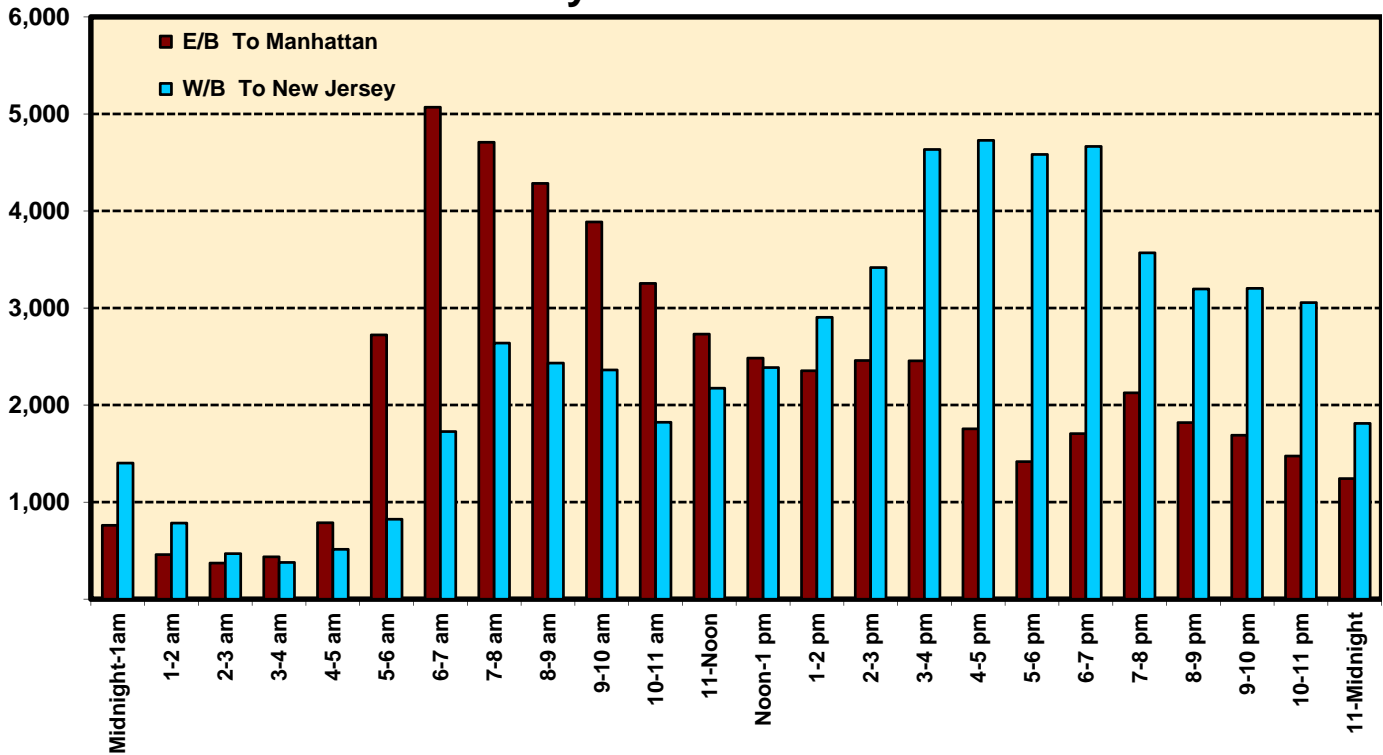
Holland Tunnel Average Daily Traffic Volumes Total of Both Directions



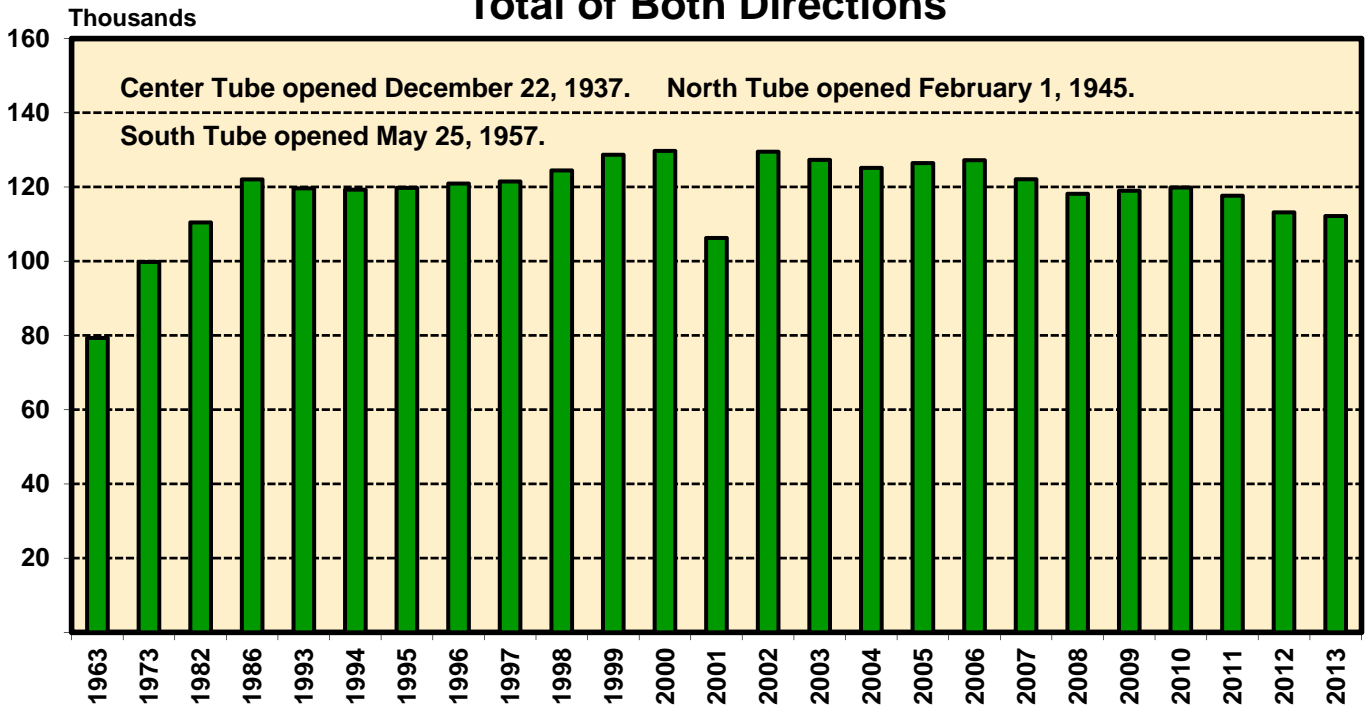
Following 9/11/2001, Holland Tunnel daily traffic volume fell 57% compared to fall 2000. Inbound volume was down 75%; outbound down 40%.

New York – New Jersey Screenline Volumes

Lincoln Tunnel ~ 2013 Hourly Vehicular Volumes



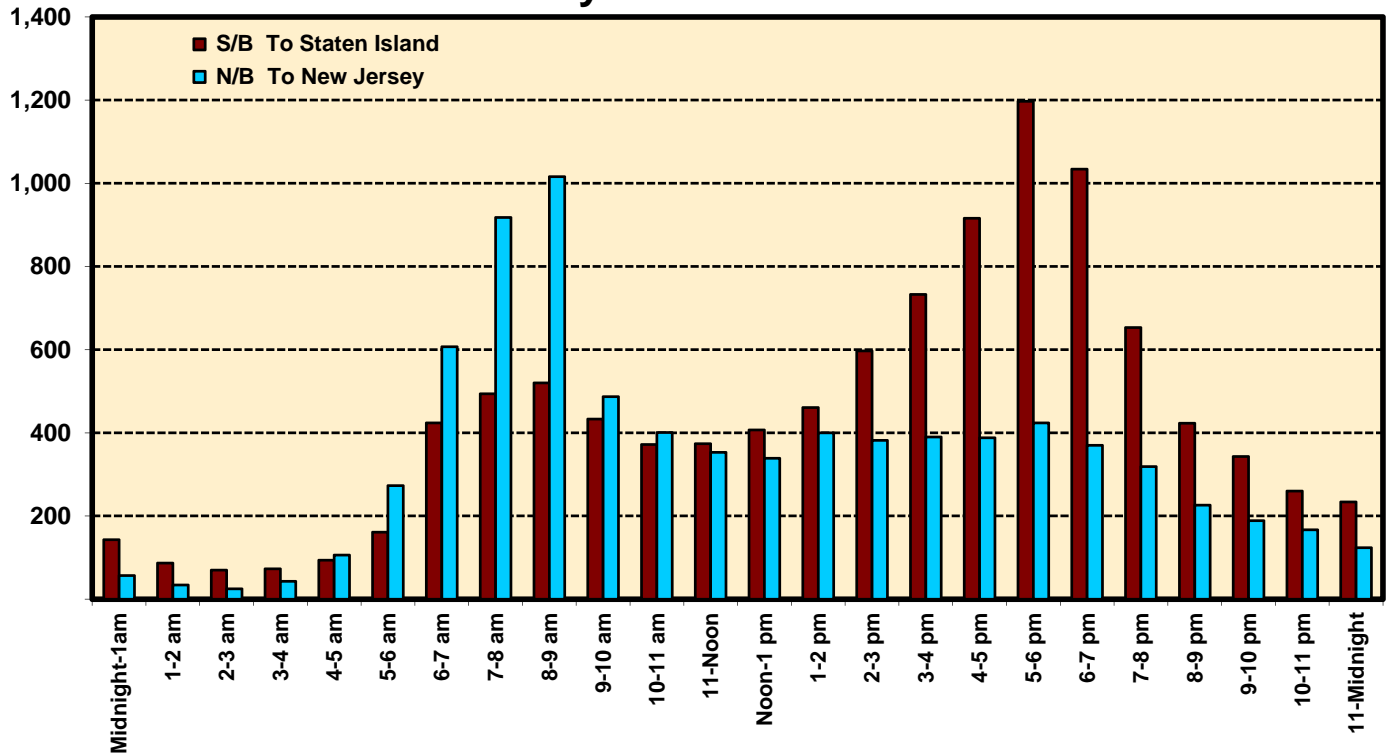
Lincoln Tunnel Average Daily Traffic Volumes Total of Both Directions



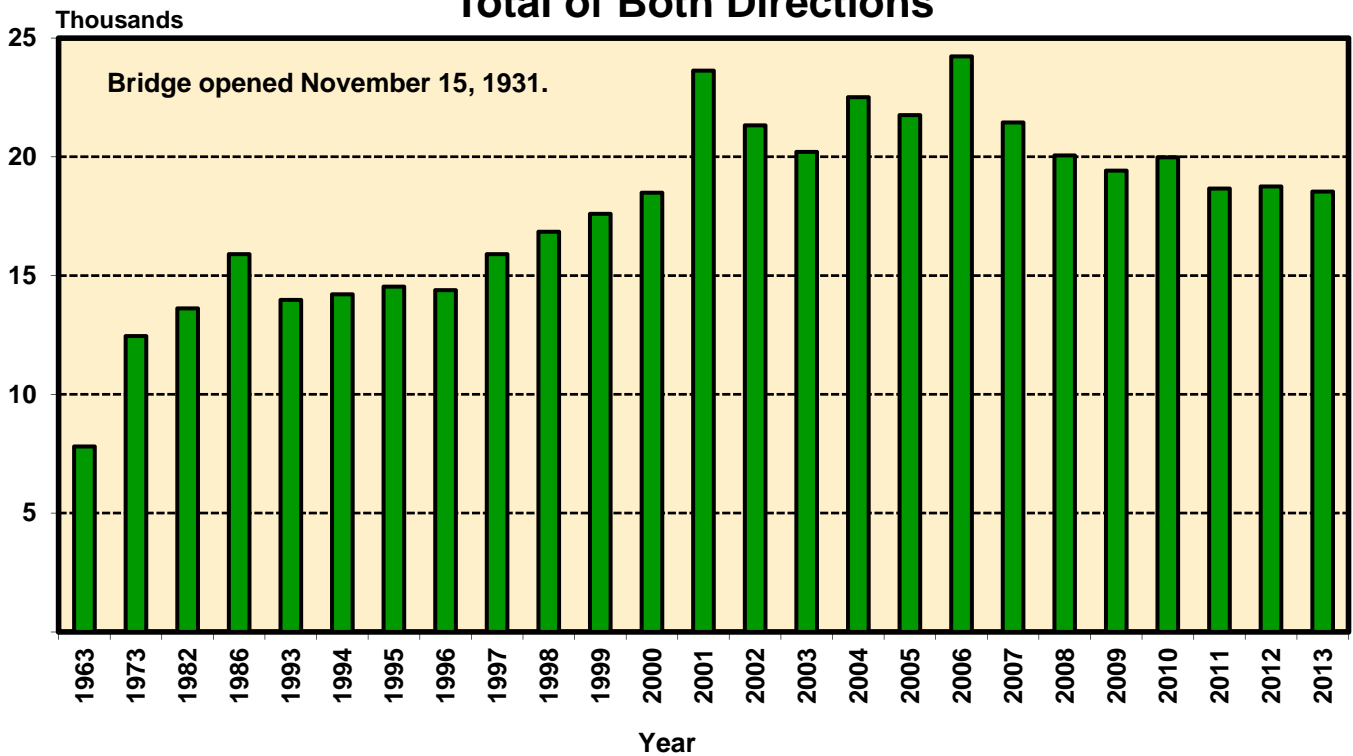
Following 9/11/2001, Lincoln Tunnel daily traffic volume fell 18% compared to fall 2000. Inbound volume was down 13%; outbound down 23%.

New York – New Jersey Screenline Volumes

Bayonne Bridge ~ 2013 Hourly Vehicular Volumes

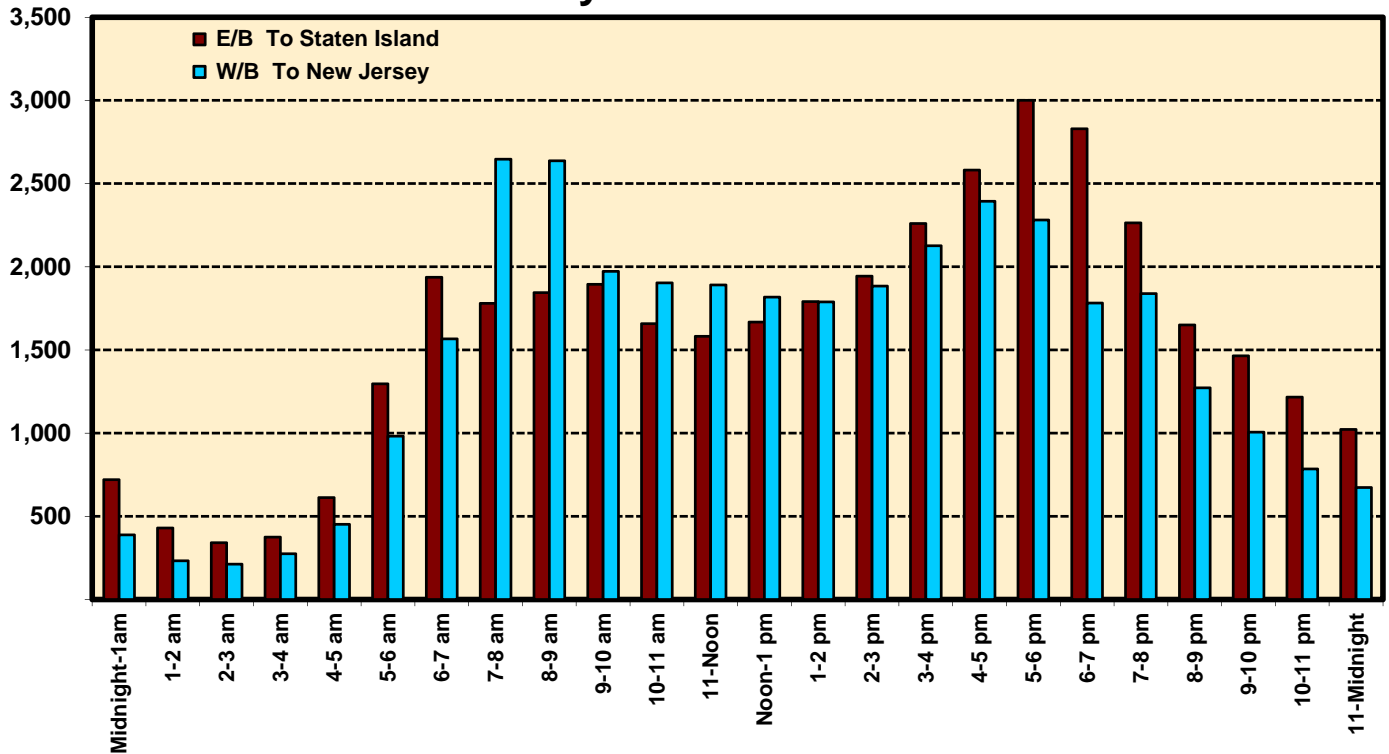


Bayonne Bridge Average Daily Traffic Volumes Total of Both Directions

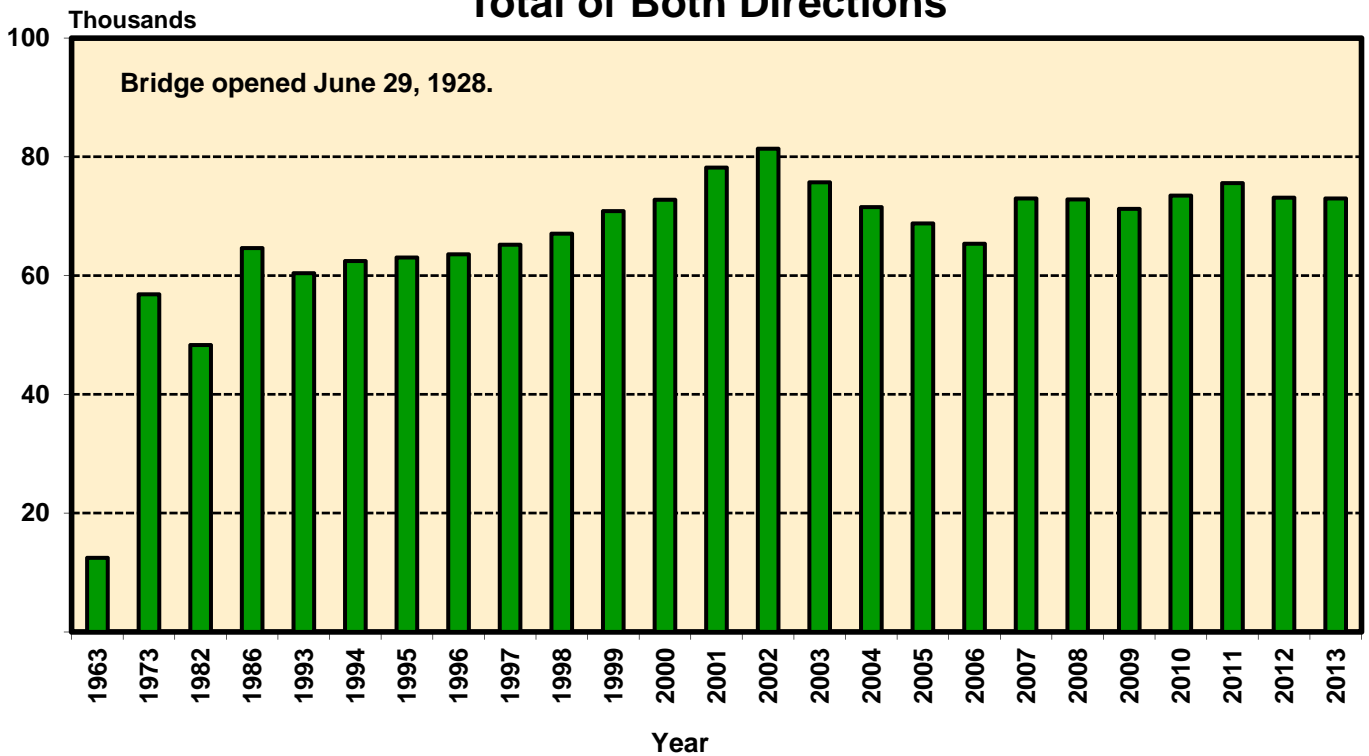


New York – New Jersey Screenline Volumes

Goethals Bridge ~ 2013 Hourly Vehicular Volumes

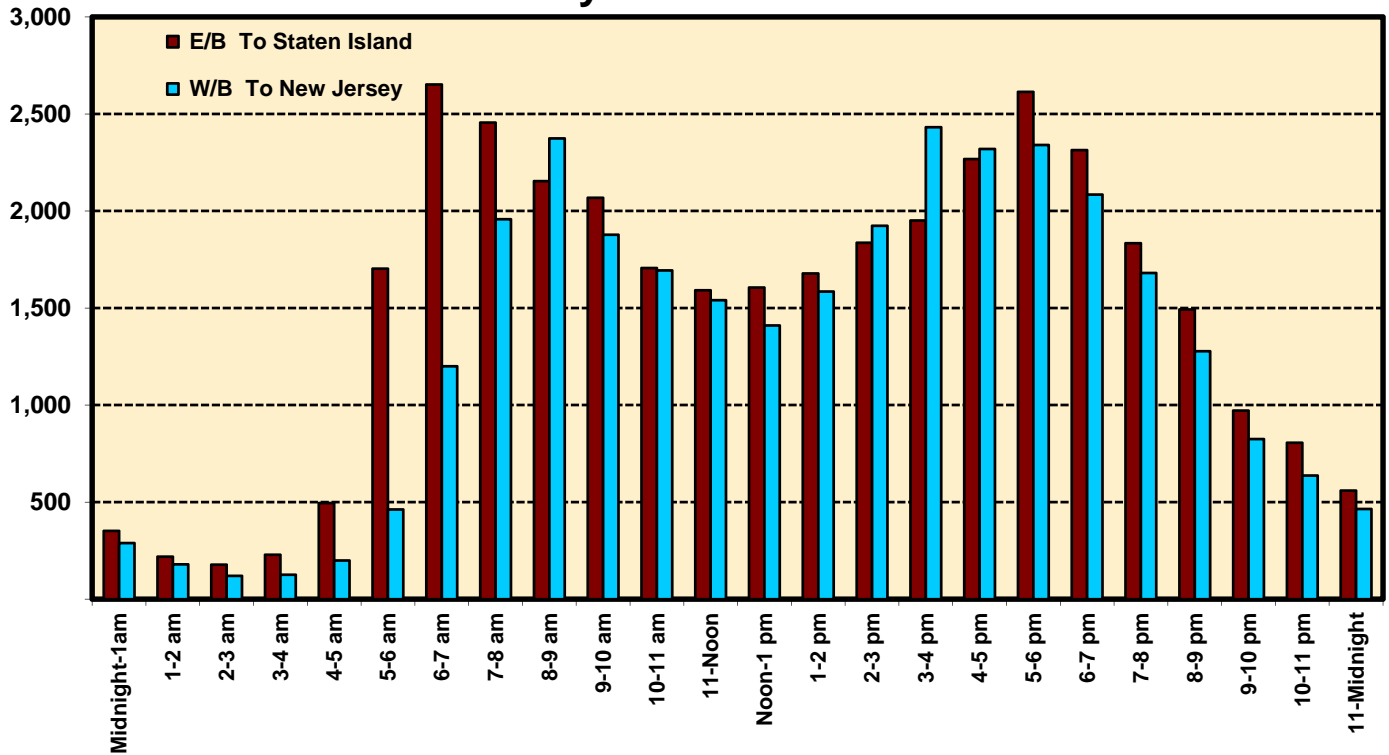


Goethals Bridge Average Daily Traffic Volumes Total of Both Directions

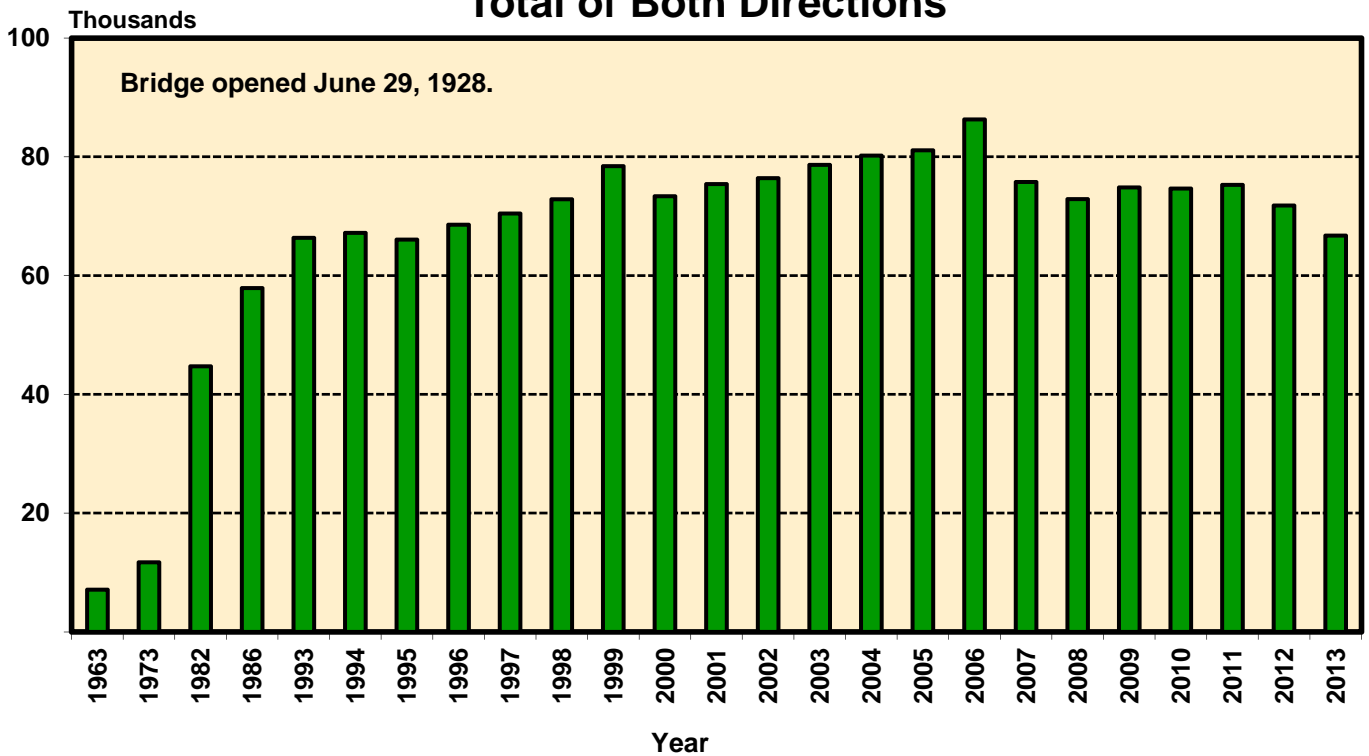


New York – New Jersey Screenline Volumes

Outerbridge Crossing ~ 2013 Hourly Vehicular Volumes



Outerbridge Crossing Average Daily Traffic Volumes Total of Both Directions



Brooklyn-Queens Screenline



Linden Boulevard 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 – 1993 Newtown Creek Bridges

Growth slowed between 1986 and 1993, as traffic crossing Newtown Creek increased just 2.3% during that seven-year period, to 230,020 in 1993 from 224,816 in 1986.

- Growth was concentrated at the J.J. Byrne Memorial Bridge, where traffic increased 79.3%, to 25,701 daily vehicles in 1993 from 14,338 in 1986.
- Grand Street Bridge traffic increased 9.1%, to 12,448 daily vehicles in 1993 from 11,413 in 1986.
- Kosciuszko Bridge traffic decreased 1.0%, to 166,592 daily vehicles from 168,314.
- Pulaski Bridge traffic decreased 17.8%, to 25,279 daily vehicles from 30,751.

1993 – 2003 Newtown Creek Bridges

Faster growth resumed between 1993 and 2003, as Newtown Creek crossings increased 19.9%, to 275,737 daily vehicles in 2003 from 230,020 in 1993, with increases recorded on all four bridges.

- The largest numerical increase occurred on the Kosciuszko Bridge, where daily volume increased to 194,497 in 2003 from 166,592 in 1993 (+16.8%).
- The largest percentage increase occurred on the Pulaski Bridge, where daily volume increased 51.7%, to 38,346 from 25,279.

2003 – 2013 Newtown Creek Bridges

During the most recent ten-year period, Newtown Creek crossings decreased 2.1%, to 269,845 daily vehicles in 2013 from 275,737 in 2003.

- The largest decrease occurred on the Kosciuszko Bridge: decrease of 3,272 daily vehicles, to 191,225 in 2013 from 194,497 in 2003 (-1.7%).
- The only increase occurred on the Pulaski Bridge: up 1.9% to 39,076 daily vehicles in 2013 from 38,346 in 2003 (730 additional daily vehicles).

1963 – 2013 Newtown Creek Bridges

During the 50 years from 1963 to 2013, traffic crossing Newtown Creek increased 68.2%, to 269,845 daily vehicles in 2013 from 160,400 in 1963.

- Volumes increased on all four crossings.
- Kosciuszko Bridge traffic increased 87.1%, to 191,225 daily vehicles in 2013 from 102,190 in 1963.
- J.J. Byrne Memorial Bridge traffic increased 45.8%, to 25,701 daily vehicles from 17,630.
- Pulaski Bridge traffic increased 36.8%, to 39,076 daily vehicles from 28,560.
- Grand Street Bridge traffic increased 15.2%, to 13,843 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 – 2003 Other Brooklyn – Queens Screenline Facilities

Daily volumes on these eleven facilities increased 16.4%, to 336,270 daily vehicles in 2003 from 288,774 in 1993.

- Increases on ten of the eleven facilities.
- Jackie Robinson Parkway traffic increased 40.8%, to 73,706 vehicles per day in 2003 from 52,332 in 1993.
- Traffic on Shore Parkway (Belt Parkway) increased 10.6%, to 150,040 daily vehicles in 2003 from 135,706 in 1993.

2003 – 2013 Other Brooklyn – Queens Screenline Facilities

From 2003 to 2013, total volumes on these eleven facilities increased 0.5%, to 337,962 daily vehicles in 2013 from 336,270 in 2003.

- The largest increase occurred on Shore Parkway (Belt Parkway), an increase of 14,200 daily vehicles (+9.5%).
- Linden Boulevard traffic decreased 9.1%, to 46,435 daily vehicles in 2013 from 51,110 in 2003.
- Jackie Robinson Parkway traffic decreased 5.8%, to 69,463 daily vehicles from 73,706.

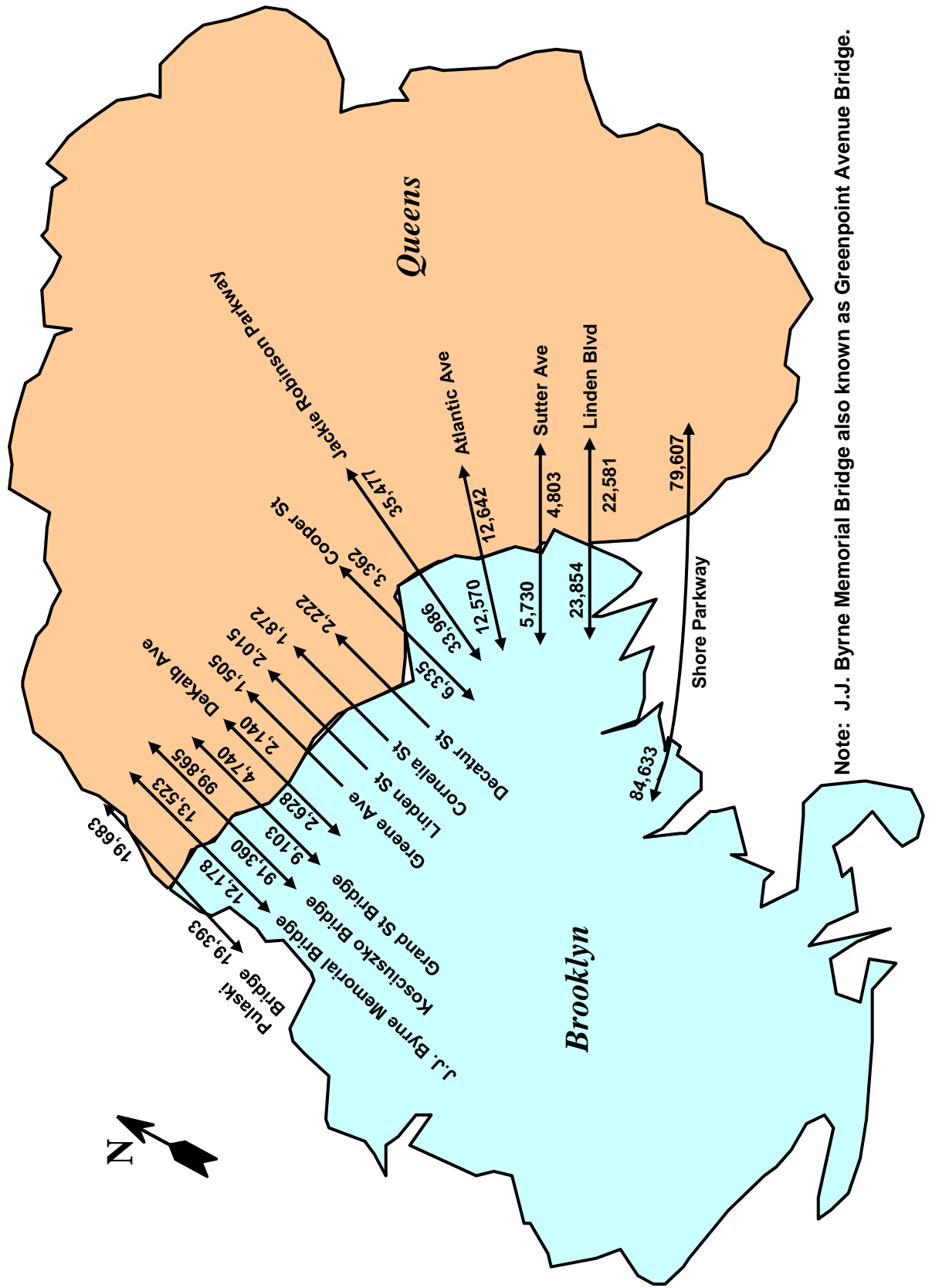
1993 – 2013 Other Brooklyn – Queens Screenline Facilities

During the twenty years from 1993 to 2013, total daily volumes on these eleven facilities increased by 17.0%, to 337,962 in 2013 from 288,774 in 1993.

- The largest increase was on Shore Parkway (Belt Parkway): up 21.0% to 164,240 daily vehicles in 2013 from 135,706 in 1993.
- The largest decrease was on Atlantic Avenue: down 8.3%, to 25,212 daily vehicles from 27,485, a decrease of 2,273 daily vehicles.

Brooklyn - Queens Screenline

2013 Daily Volumes Shown



Note: J.J. Byrne Memorial Bridge 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 Bridge	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 Memorial Bridge	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 Bridge	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 Bridge	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	N/A	N/A	N/A	<i>One-Way to Queens</i>							
Decatur St	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<i>One-Way to Queens</i>							
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	N/A	N/A	N/A	<i>One-Way to Queens</i>							
Jackie 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	N/A	N/A	N/A	<i>One-Way to Queens</i>							
Shore 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
Grand Street Bridge	7,465	6,455	6,920	6,858	7,378	7,134	7,268	7,231	7,272	9,103
J.J. Byrne Memorial Bridge	13,509	13,951	14,318	13,453	12,756	12,753	13,016	12,238	12,436	12,178
Kosciuszko Bridge	92,556	94,830	86,969	91,026	87,257	91,267	91,098	91,471	96,950	91,360
Pulaski Bridge	19,923	19,431	18,500	18,417	18,295	17,881	18,166	19,288	18,258	19,393
Newtown Creek Totals	133,453	134,667	126,707	129,754	125,686	129,035	129,548	130,228	134,916	132,034
Atlantic Ave	14,693	12,611	12,095	11,180	10,947	10,776	11,265	11,913	11,655	12,570
Cooper St	5,832	6,160	5,921	5,565	6,025	6,216	6,357	5,910	6,109	6,335
Cornelia St	<i>One-Way to Queens</i>									
Decatur St	<i>One-Way to Queens</i>									
DeKalb Ave	3,697	3,583	3,109	3,016	3,061	2,986	2,869	2,904	3,121	2,628
Greene Ave	<i>One-Way to Queens</i>									
Jackie Robinson Pky	35,680	36,037	34,799	34,804	33,302	33,337	34,419	32,734	32,266	33,986
Linden Blvd	27,251	28,195	27,119	25,993	23,784	23,209	26,718	22,798	23,132	23,854
Linden St	<i>One-Way to Queens</i>									
Shore Pky	76,608	76,393	79,763	81,339	79,589	81,737	77,981	74,208	78,936	84,633
Sutter Ave	4,137	4,810	4,218	4,685	4,896	5,075	5,332	5,109	5,244	5,730
Other Totals	167,898	167,789	167,024	166,582	161,604	163,336	164,941	155,576	160,463	169,736
Grand Totals	301,351	302,456	293,731	296,336	287,290	292,371	294,489	285,804	295,379	301,770

Note: J.J. Byrne Memorial Bridge also known as Greenpoint Avenue Bridge.

**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 Bridge	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 Memorial Bridge	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 Bridge	N/A	55,926	66,127	86,951	88,221	85,354	87,283	90,775	99,988	102,427	97,094	99,020	99,323	93,772	98,344
Pulaski Bridge	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	133,025	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
Jackie 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	2,552	2,400	2,420	2,439	2,477	2,544	2,609	2,270
Shore 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	308,969	310,188	300,285	307,937

To Queens

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Grand Street Bridge	5,994	6,561	5,973	5,727	5,653	5,442	5,394	5,089	5,323	4,740
J.J. Byrne Memorial Bridge	14,928	15,498	15,522	13,574	14,170	13,884	13,700	13,471	13,943	13,523
Kosciuszko Bridge	101,056	103,983	97,372	95,467	94,526	97,055	99,655	100,153	99,267	99,865
Pulaski Bridge	20,223	19,480	19,724	18,804	18,724	18,222	18,815	18,134	18,609	19,683
Newtown Creek Totals	142,201	145,522	138,591	133,572	133,073	134,603	137,564	136,847	137,142	137,811
Atlantic Ave	13,903	13,349	11,961	11,066	10,613	10,701	12,081	12,006	11,967	12,642
Cooper St	3,388	3,622	3,372	3,378	3,477	3,482	3,688	3,077	3,425	3,362
Cornelia St	1,844	1,787	1,660	1,727	1,753	1,847	1,848	1,723	1,768	1,872
Decatur St	2,332	2,003	2,247	2,059	2,203	2,091	2,101	2,226	2,087	2,222
DeKalb Ave	2,607	2,626	2,197	2,258	2,341	2,548	2,229	2,230	2,154	2,140
Greene Ave	2,029	1,551	1,854	1,733	1,883	1,887	1,655	1,555	1,520	1,505
Jackie Robinson Pky	38,624	37,490	36,034	35,893	34,433	34,140	34,701	34,563	34,696	35,477
Linden Blvd	24,502	21,692	24,950	23,429	22,937	21,255	22,077	21,385	21,936	22,581
Linden St	2,161	2,123	2,192	2,012	1,992	1,936	1,938	1,776	1,923	2,015
Shore Pky	74,997	75,733	78,046	83,142	83,850	81,070	77,631	66,426	73,021	79,607
Sutter Ave	4,595	4,938	4,401	4,411	4,286	4,349	4,757	4,579	4,537	4,803
Other Totals	170,982	166,914	168,914	171,108	169,768	165,306	164,706	151,546	159,034	168,226
Grand Totals	313,183	312,436	307,505	304,680	302,841	299,909	302,270	288,393	296,176	306,037

Note: J.J. Byrne Memorial Bridge also known as Greenpoint Avenue Bridge.

**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 Bridge	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 Memorial Bridge	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 Bridge	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 Bridge	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
Jackie 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 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

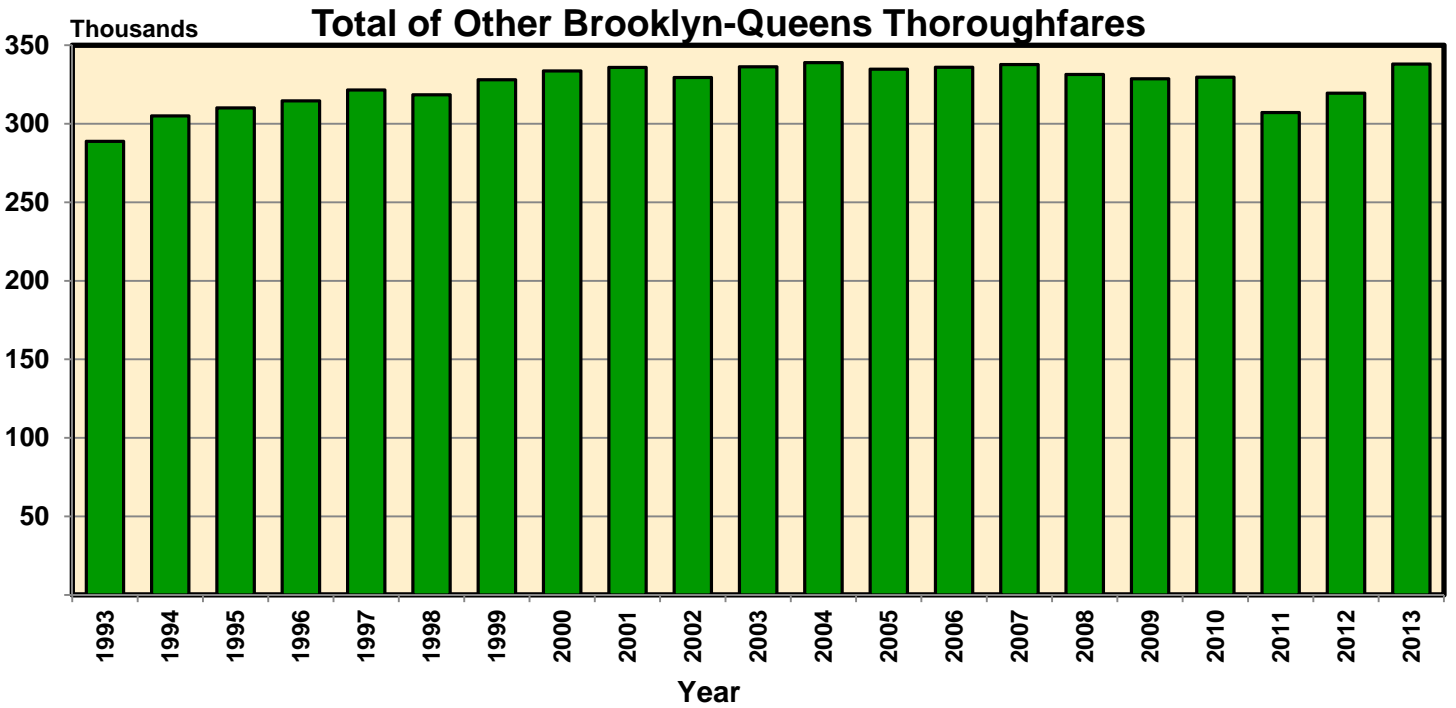
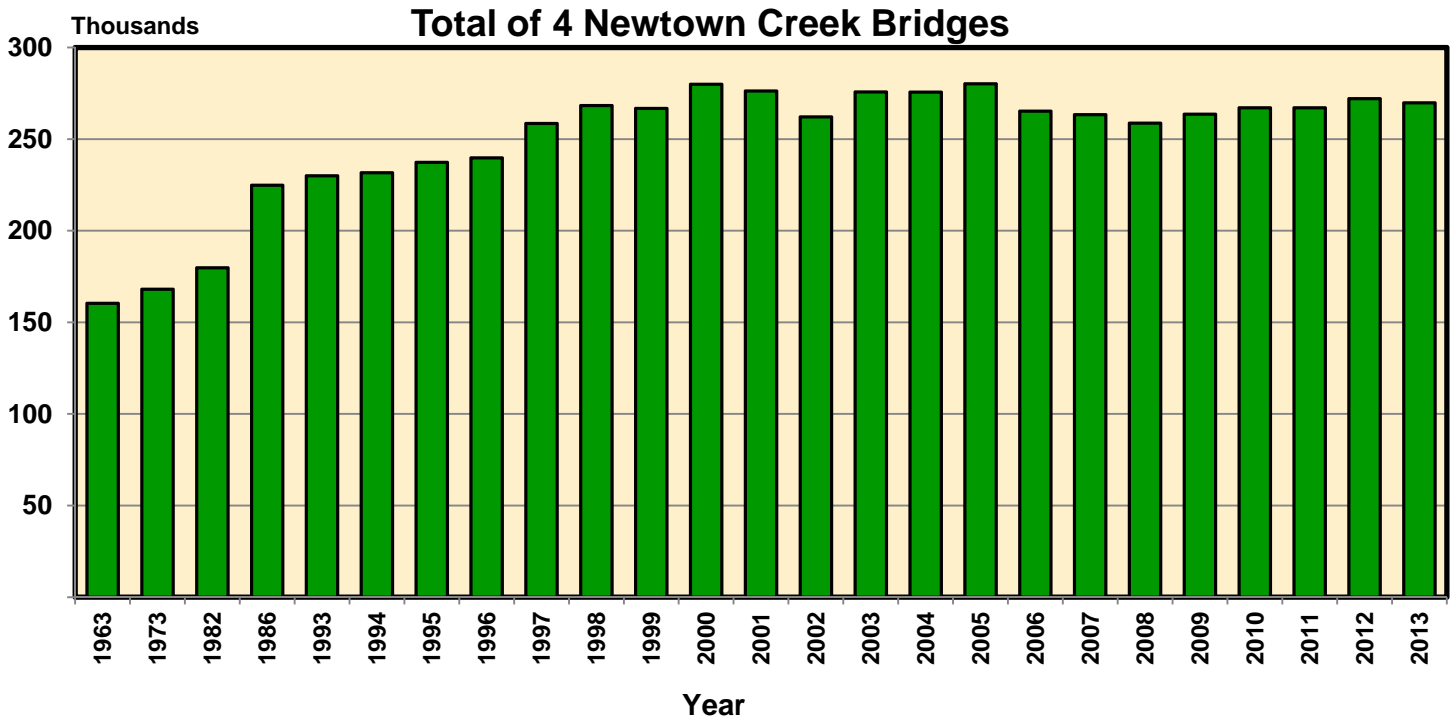
Both Directions

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Grand Street Bridge	13,459	13,016	12,893	12,585	13,031	12,576	12,662	12,320	12,595	13,843
J.J. Byrne Memorial Bridge	28,437	29,449	29,840	27,027	26,926	26,637	26,716	25,709	26,379	25,701
Kosciuszko Bridge	193,612	198,813	184,341	186,493	181,783	188,322	190,753	191,624	196,217	191,225
Pulaski Bridge	40,146	38,911	38,224	37,221	37,019	36,103	36,981	37,422	36,867	39,076
Newtown Creek Totals	275,654	280,189	265,298	263,326	258,759	263,638	267,112	267,075	272,058	269,845
Atlantic Ave	28,596	25,960	24,056	22,246	21,560	21,477	23,346	23,919	23,622	25,212
Cooper St	9,220	9,782	9,293	8,943	9,502	9,698	10,045	8,987	9,534	9,697
Cornelia St	1,844	1,787	1,660	1,727	1,753	1,847	1,848	1,723	1,768	1,872
Decatur St	2,332	2,003	2,247	2,059	2,203	2,091	2,101	2,226	2,087	2,222
DeKalb Ave	6,304	6,209	5,306	5,274	5,402	5,534	5,098	5,134	5,275	4,768
Greene Ave	2,029	1,551	1,884	1,733	1,883	1,887	1,655	1,555	1,520	1,505
Jackie Robinson Pky	74,304	73,527	70,833	70,697	67,735	67,477	69,120	67,297	66,962	69,463
Linden Blvd	51,753	49,887	52,069	49,422	46,721	44,464	48,795	44,183	45,068	46,435
Linden St	2,161	2,123	2,192	2,012	1,992	1,936	1,938	1,776	1,923	2,015
Shore Pky	151,605	152,126	157,809	164,481	163,439	162,807	155,612	140,634	151,957	164,240
Sutter Ave	8,732	9,748	8,619	9,096	9,182	9,424	10,089	9,688	9,781	10,533
Other Totals	338,880	334,703	335,938	337,690	331,372	328,642	329,647	307,122	319,497	337,962
Grand Totals	614,534	614,892	601,236	601,016	590,131	592,280	596,759	574,197	591,555	607,807

Note: J.J. Byrne Memorial Bridge also known as Greenpoint Avenue Bridge.

Brooklyn – Queens Screenline Historical Comparisons

Average Daily Traffic Volumes ~ Total of Both Directions



2013 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	76	49	98	175	1,450	3,080	411	321	2,035	3,625
1-2am	61	38	61	119	1,081	1,995	235	241	1,438	2,393
2-3am	55	41	55	93	1,086	1,456	181	189	1,377	1,779
3-4am	80	65	57	89	1,933	1,400	170	184	2,240	1,738
4-5am	141	77	123	148	3,938	2,163	211	313	4,413	2,701
5-6am	296	186	359	339	5,179	3,492	360	634	6,194	4,651
6-7am	458	196	721	631	5,116	5,159	698	1,201	6,993	7,187
7-8am	658	236	940	810	4,643	5,243	1,047	1,466	7,288	7,755
8-9am	731	243	881	766	4,231	5,080	1,174	1,556	7,017	7,645
9-10am	701	255	826	677	4,480	4,911	991	1,249	6,998	7,092
10-11am	711	267	784	633	4,259	4,555	919	999	6,673	6,454
11-Noon	620	278	714	676	4,312	4,587	925	980	6,571	6,521
Noon-1	519	293	618	699	4,703	4,988	932	997	6,772	6,977
1-2pm	565	316	570	757	4,510	5,051	966	1,033	6,611	7,157
2-3pm	566	347	660	873	4,657	4,796	1,153	1,059	7,036	7,075
3-4pm	612	338	848	1,043	4,533	4,694	1,475	1,214	7,468	7,289
4-5pm	632	364	926	1,102	4,574	4,905	1,536	1,204	7,668	7,575
5-6pm	530	390	935	1,096	4,655	4,902	1,562	1,176	7,682	7,564
6-7pm	375	292	700	851	4,660	4,909	1,146	933	6,881	6,985
7-8pm	235	158	460	621	4,221	4,952	847	735	5,763	6,466
8-9pm	138	92	291	450	4,067	4,842	747	600	5,243	5,984
9-10pm	134	73	232	360	3,864	4,625	652	522	4,882	5,580
10-11pm	108	72	182	280	3,035	4,161	546	451	3,871	4,964
11-Mid	101	74	137	235	2,173	3,919	509	426	2,920	4,654
24 hr Total	9,103	4,740	12,178	13,523	91,360	99,865	19,393	19,683	132,034	137,811
6-10am	2,548	930	3,368	2,884	18,470	20,393	3,910	5,472	28,296	29,679
10am-1pm	1,850	838	2,116	2,008	13,274	14,130	2,776	2,976	20,016	19,952
1-3pm	1,131	663	1,230	1,630	9,167	9,847	2,119	2,092	13,647	14,232
3-7pm	2,149	1,384	3,409	4,092	18,422	19,410	5,719	4,527	29,699	29,413
6am-7pm	7,678	3,815	10,123	10,614	59,333	63,780	14,524	15,067	91,658	93,276

* To Brooklyn

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

2013 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	N/B	N/B	N/B	N/B	S/B*	N/B	N/B	N/B	W/B*	E/B
Mid-1am	164	186	62	37	26	25	28	29	28	21	504	543		
1-2am	105	112	50	23	16	18	17	20	17	18	220	289		
2-3am	82	76	26	31	9	12	15	17	15	15	144	218		
3-4am	78	77	27	20	7	9	15	12	15	11	140	213		
4-5am	145	98	42	31	11	14	19	23	19	9	320	439		
5-6am	304	204	109	60	14	37	35	44	35	23	872	894		
6-7am	687	415	328	112	38	70	80	88	80	50	2,261	1,955		
7-8am	992	576	596	191	85	145	98	168	98	67	2,930	2,181		
8-9am	907	604	496	188	108	109	131	161	131	73	2,564	1,886		
9-10am	706	527	324	148	84	97	117	142	117	68	2,168	1,555		
10-11am	595	537	275	143	77	103	109	137	109	59	1,599	1,412		
11-Noon	572	588	257	160	94	123	119	140	119	73	1,373	1,465		
Noon-1	610	626	297	163	101	113	123	148	123	71	1,391	1,560		
1-2pm	636	702	290	178	111	122	136	161	136	76	1,456	1,762		
2-3pm	665	747	371	191	126	153	133	168	133	81	1,718	2,183		
3-4pm	733	905	363	240	130	168	151	167	151	89	2,139	2,484		
4-5pm	787	1,060	427	243	133	163	152	177	152	98	2,246	2,565		
5-6pm	813	1,087	450	261	157	191	145	178	145	119	2,192	2,638		
6-7pm	738	1,022	388	237	144	144	127	164	127	122	2,049	2,437		
7-8pm	639	754	326	211	107	116	122	145	122	113	1,584	1,960		
8-9pm	542	601	285	175	99	99	89	120	89	88	1,286	1,557		
9-10pm	438	472	225	129	75	82	73	88	73	67	1,073	1,299		
10-11pm	373	382	188	114	70	65	61	74	61	60	925	1,154		
11-Mid	259	284	133	76	50	44	45	57	45	34	832	828		
24 hr Total	12,570	12,642	6,335	3,362	1,872	2,222	2,140	2,628	2,140	1,505	33,986	35,477		
6-10am	3,292	2,122	1,744	639	315	421	426	559	426	258	9,923	7,577		
10am-1pm	1,777	1,751	829	466	272	339	351	425	351	203	4,363	4,437		
1-3pm	1,301	1,449	661	369	237	275	269	329	269	157	3,174	3,945		
3-7pm	3,071	4,074	1,628	981	564	666	575	686	575	428	8,626	10,124		
6am-7pm	9,441	9,396	4,862	2,455	1,388	1,701	1,621	1,999	1,621	1,046	26,086	26,083		

* To Brooklyn

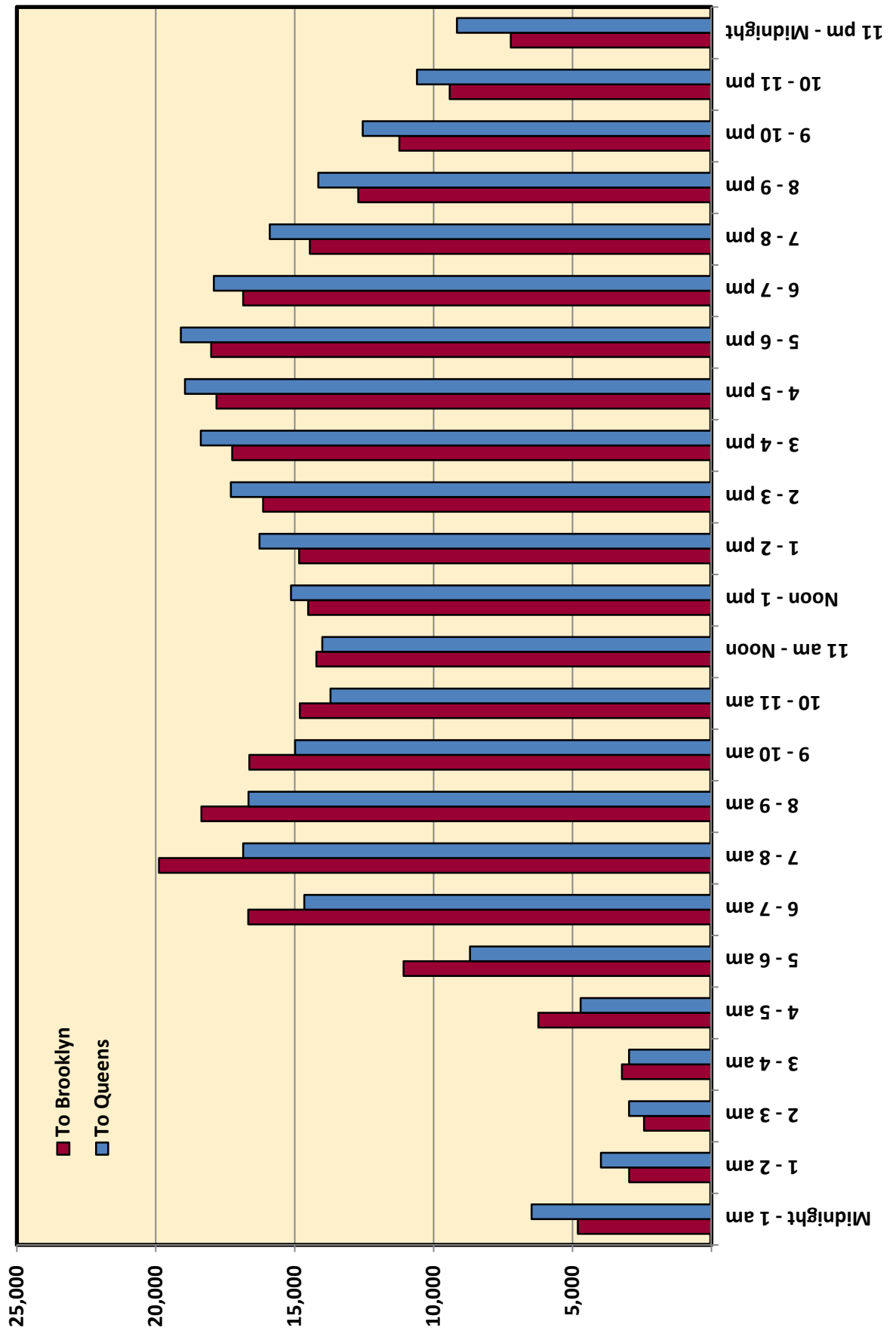
2013 Screenline Volumes Brooklyn - Queens (cont'd)

	Linden Blvd		Linden St		Shore Parkway		Sutter Ave		Other Totals		Grand Totals	
	W/B*	E/B	N/B		W/B*	E/B	W/B*	E/B	To Brooklyn	To Queens	To Brooklyn	To Queens
Mid-1am	368	349	32		1,564	1,531	83	69	2,774	2,847	4,809	6,472
1-2am	224	220	15		862	812	43	43	1,524	1,583	2,962	3,976
2-3am	182	190	11		565	582	33	28	1,049	1,187	2,426	2,966
3-4am	191	223	15		499	616	34	20	981	1,226	3,221	2,964
4-5am	309	328	25		912	999	67	35	1,818	2,008	6,231	4,709
5-6am	651	561	31	One Way to Queens	2,789	2,094	117	88	4,886	4,041	11,080	8,692
6-7am	1,486	778	64		4,555	3,708	273	199	9,678	7,469	16,671	14,656
7-8am	2,228	963	93		5,242	4,379	440	322	12,596	9,100	19,884	16,855
8-9am	1,878	1,069	114		4,902	4,475	435	260	11,343	9,017	18,360	16,662
9-10am	1,401	1,048	98		4,606	3,939	287	210	9,634	7,891	16,632	14,983
10-11am	1,106	1,029	116		4,222	3,471	208	200	8,142	7,256	14,815	13,710
11-Noon	1,117	1,113	101		3,972	3,442	217	209	7,648	7,487	14,219	14,008
Noon-1	1,129	1,193	104		3,928	3,865	239	236	7,742	8,155	14,514	15,132
1-2pm	1,165	1,302	107		4,265	4,329	256	284	8,229	9,109	14,840	16,266
2-3pm	1,259	1,496	117		4,571	4,700	349	295	9,101	10,222	16,137	17,297
3-4pm	1,307	1,673	125		4,705	4,775	367	350	9,781	11,090	17,249	18,379
4-5pm	1,314	1,728	138		4,778	4,723	419	370	10,148	11,373	17,816	18,948
5-6pm	1,321	1,715	164		4,950	4,693	420	364	10,324	11,534	18,006	19,098
6-7pm	1,298	1,445	149		4,947	4,798	390	299	9,974	10,924	16,855	17,909
7-8pm	1,100	1,134	119		4,606	4,521	293	275	8,693	9,432	14,456	15,898
8-9pm	865	973	97		4,130	4,170	242	218	7,470	8,166	12,713	14,150
9-10pm	745	841	80		3,579	3,670	205	182	6,353	6,970	11,235	12,550
10-11pm	670	675	59		3,142	2,858	177	136	5,549	5,634	9,420	10,598
11-Mid	540	535	41		2,342	2,457	136	111	4,299	4,505	7,219	9,159
24 hr Total	23,854	22,581	2,015		84,633	79,607	5,730	4,803	169,736	168,226	301,770	306,037
6-10am	6,993	3,858	369		19,305	16,501	1,435	991	43,251	33,477	71,547	63,156
10am-1pm	3,352	3,335	321		12,122	10,778	664	645	23,532	22,898	43,548	42,850
1-3pm	2,424	2,798	224		8,836	9,029	605	579	17,330	19,331	30,977	33,563
3-7pm	5,240	6,561	576		19,380	18,989	1,596	1,383	40,227	44,921	69,926	74,334
6am-7pm	18,009	16,552	1,490		59,643	55,297	4,300	3,598	124,340	120,627	215,998	213,903

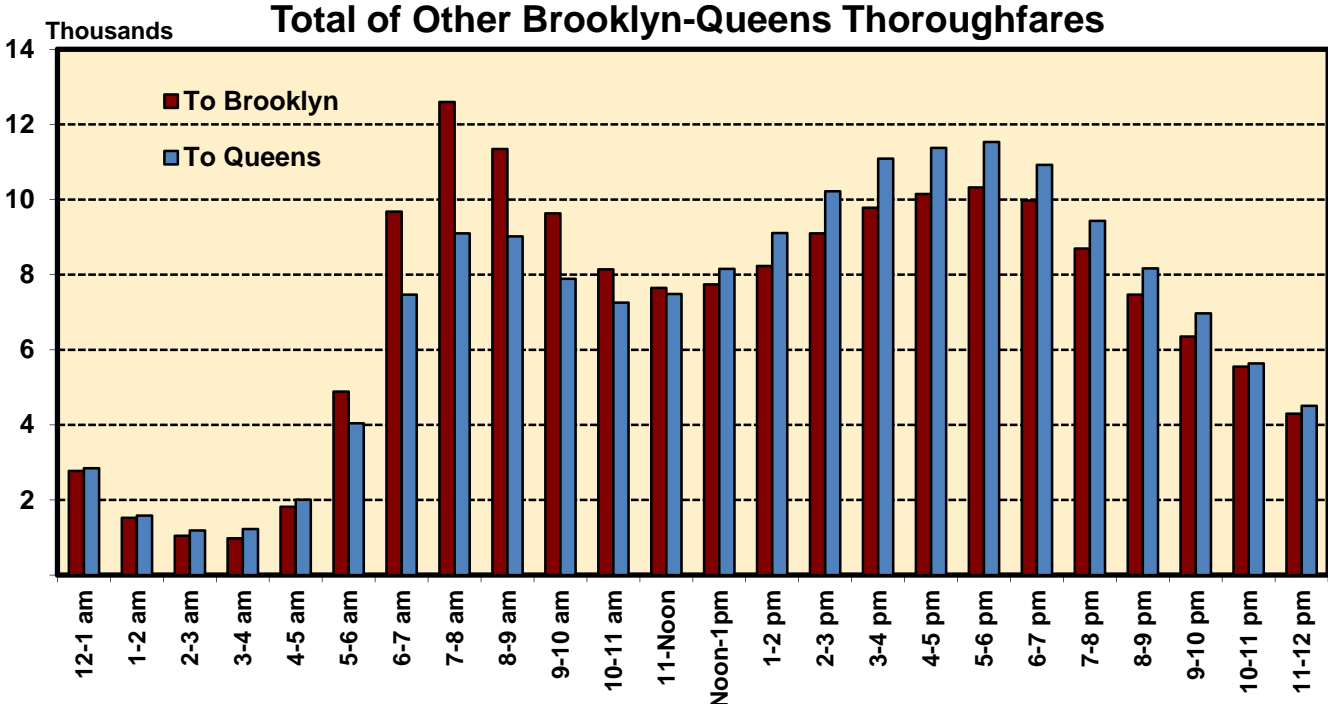
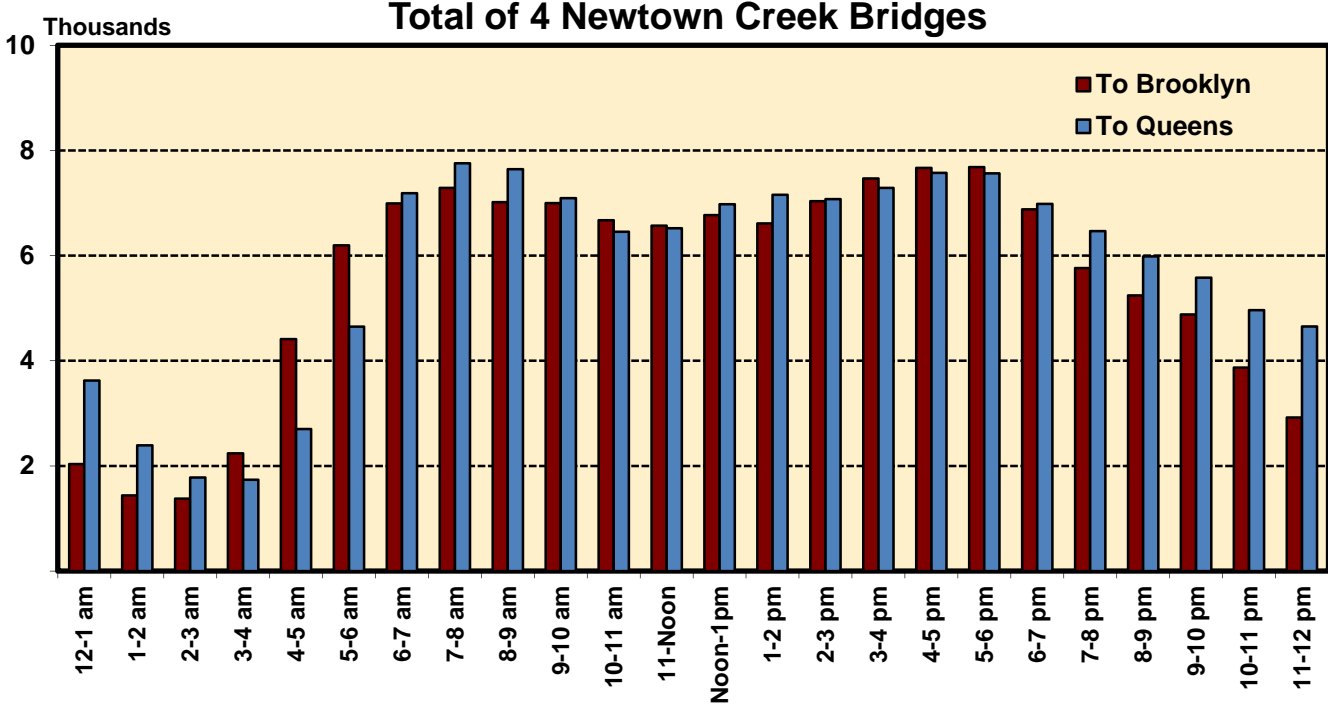
* To Brooklyn

Brooklyn – Queens Screenline

Total Hourly Vehicle Volumes ~ 2013

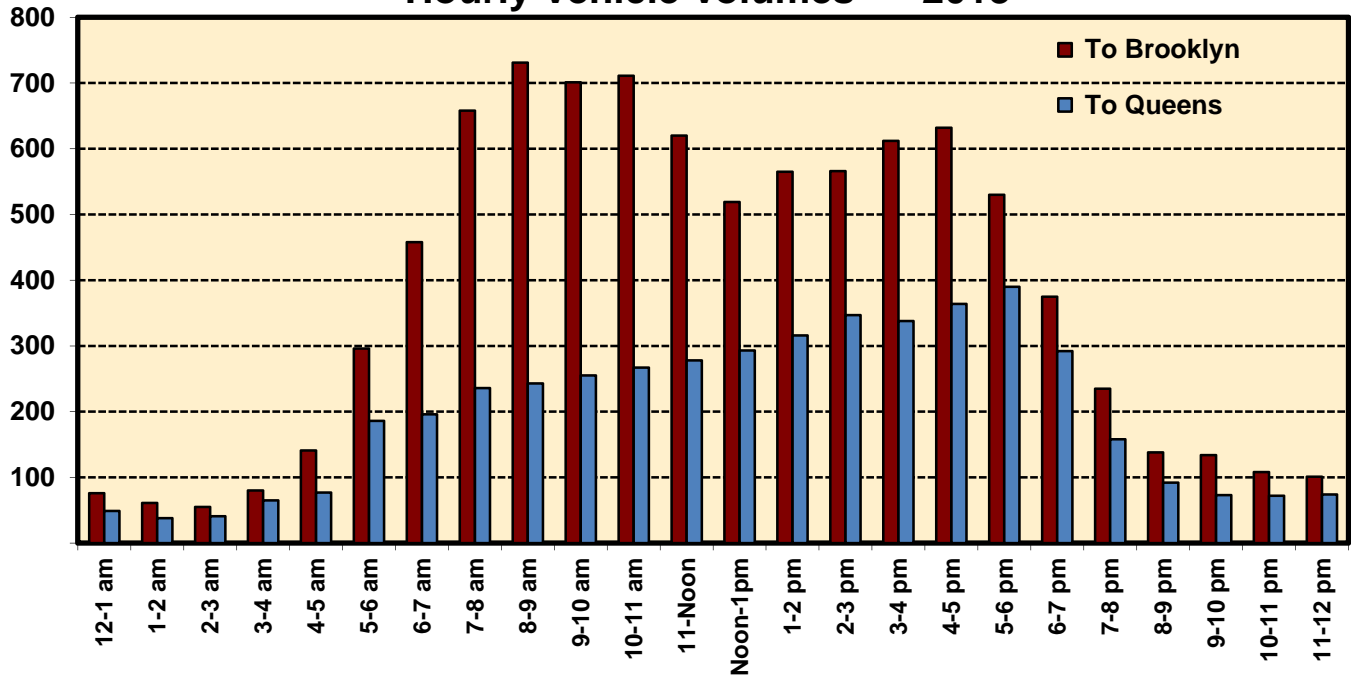


Brooklyn – Queens Screenline Hourly Vehicle Volumes ~ 2013

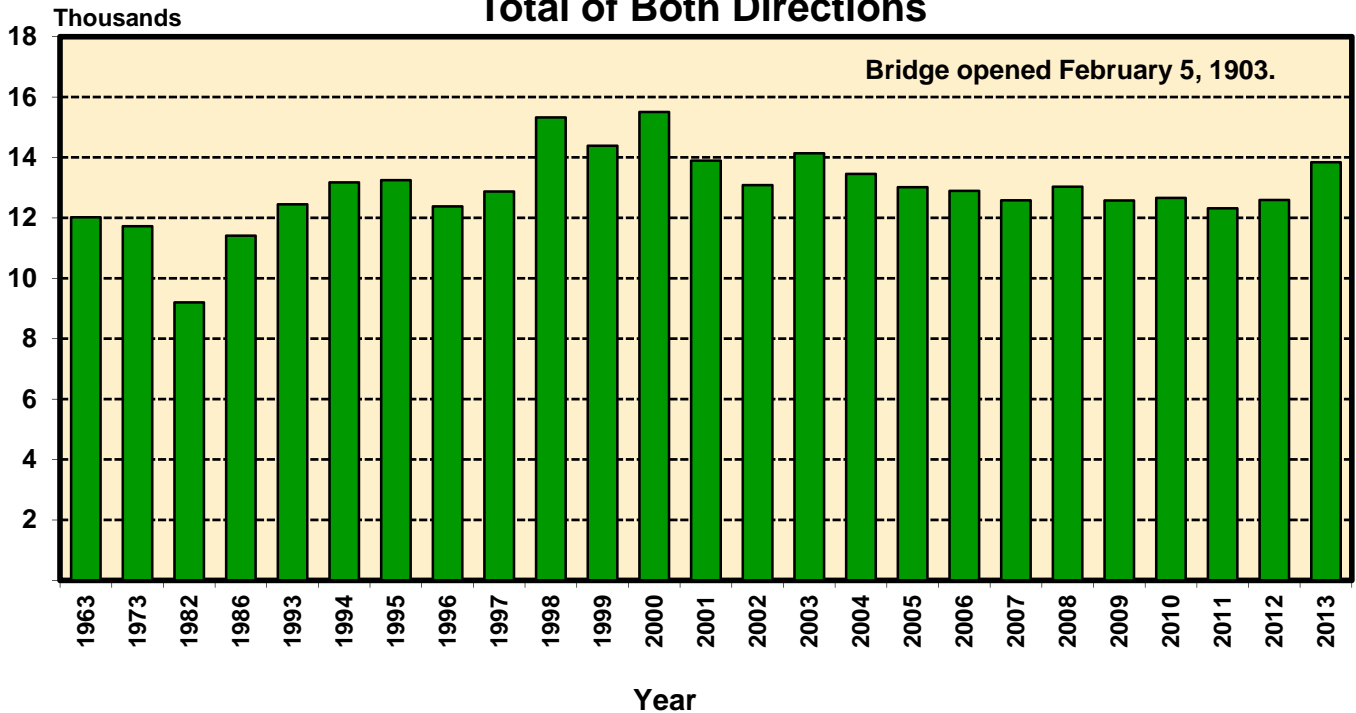


Brooklyn – Queens Screenline Volumes

Grand Street Bridge Hourly Vehicle Volumes ~ 2013

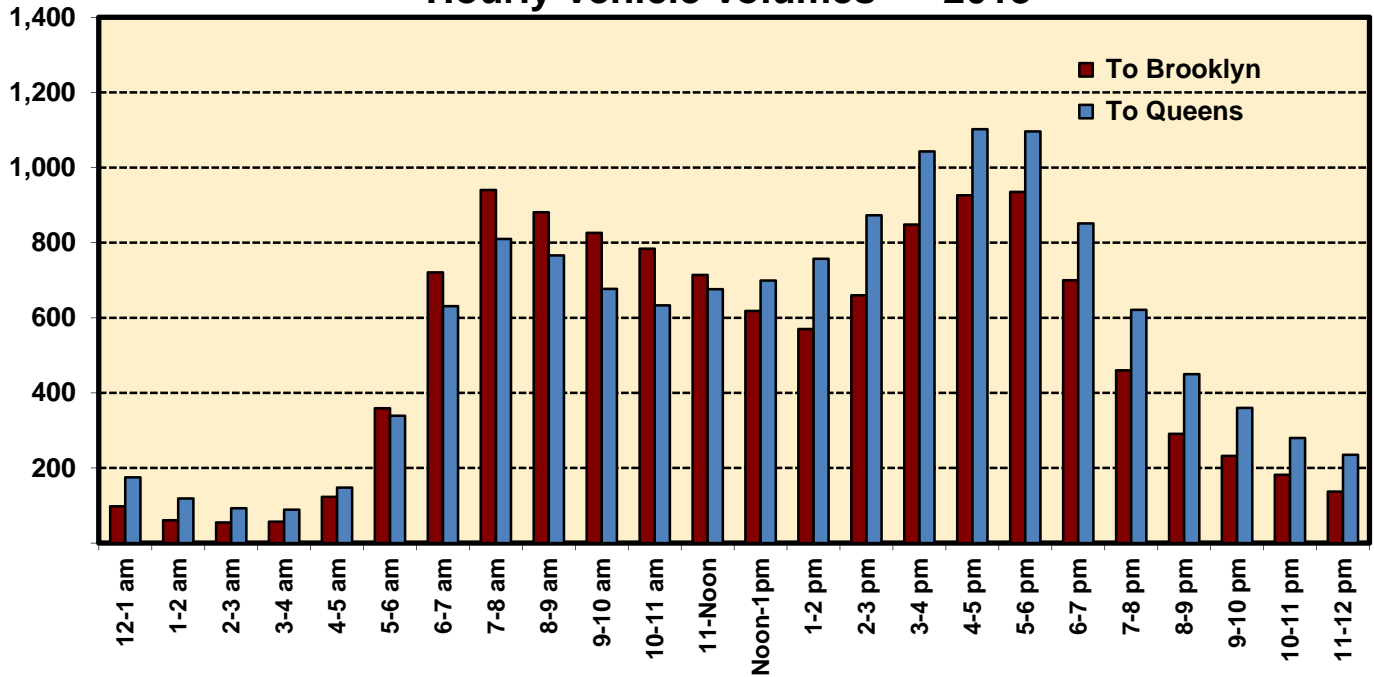


Grand Street Bridge Average Daily Traffic Volumes Total of Both Directions

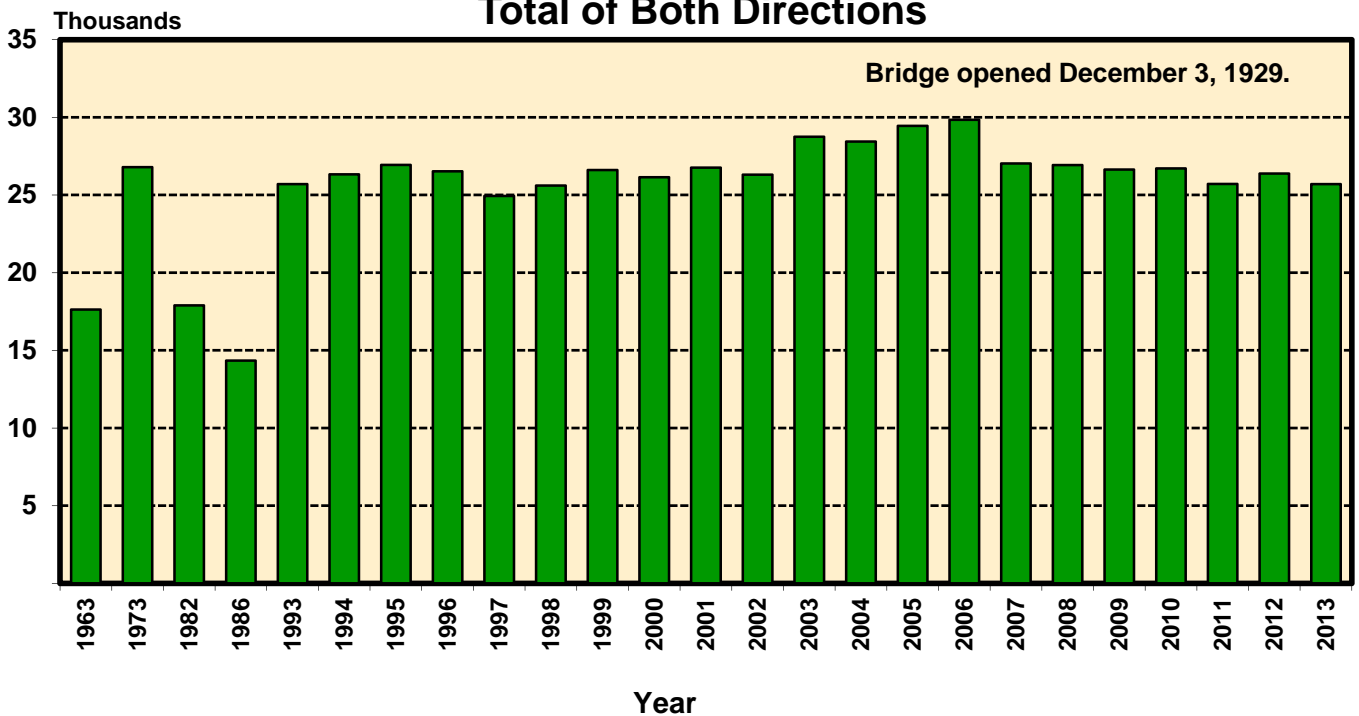


Brooklyn – Queens Screenline Volumes

J.J. Byrne Memorial Bridge (Greenpoint Avenue Bridge) Hourly Vehicle Volumes ~ 2013

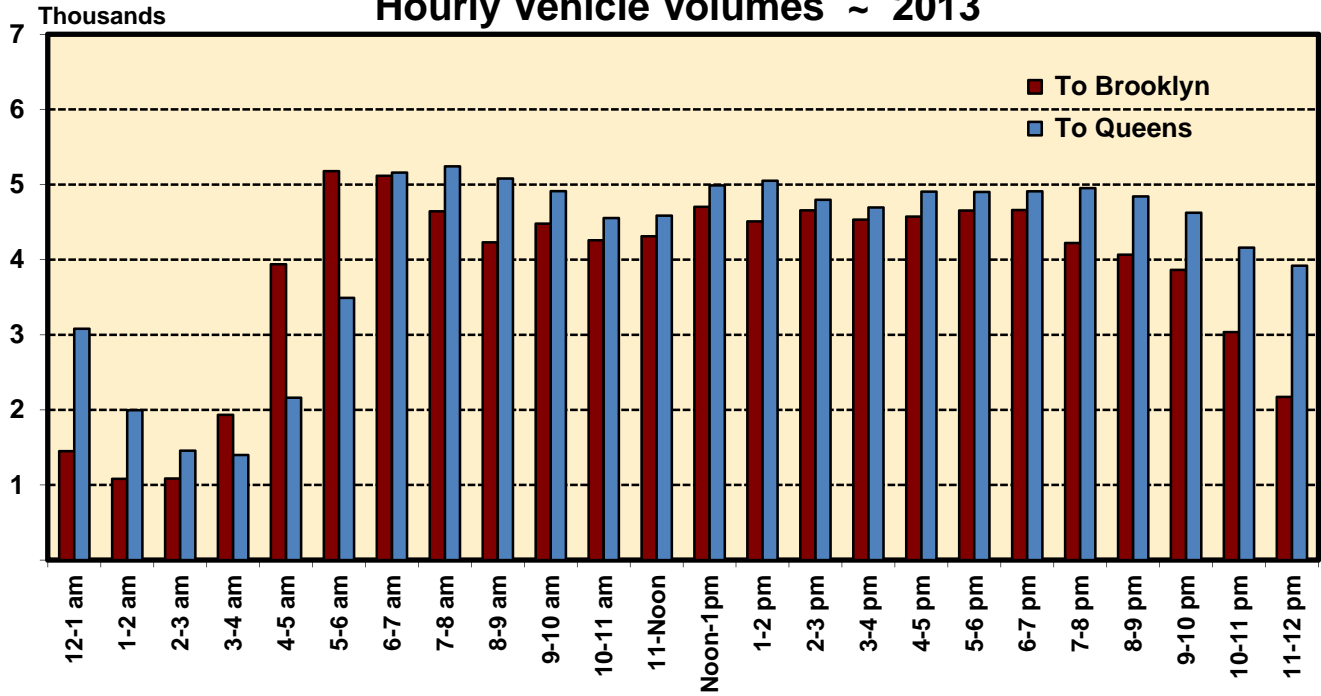


J.J. Byrne Memorial Bridge (Greenpoint Avenue Bridge) Average Daily Traffic Volumes Total of Both Directions

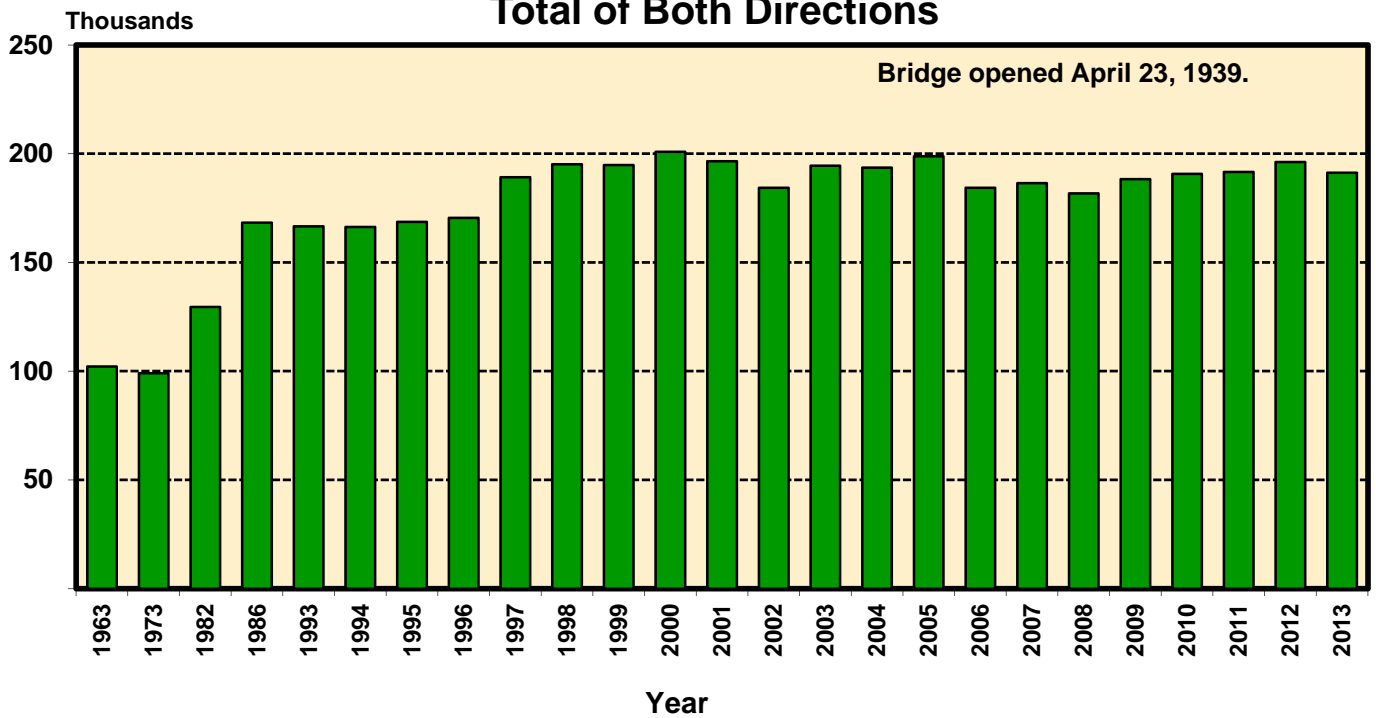


Brooklyn – Queens Screenline Volumes

Kosciuszko Bridge Hourly Vehicle Volumes ~ 2013

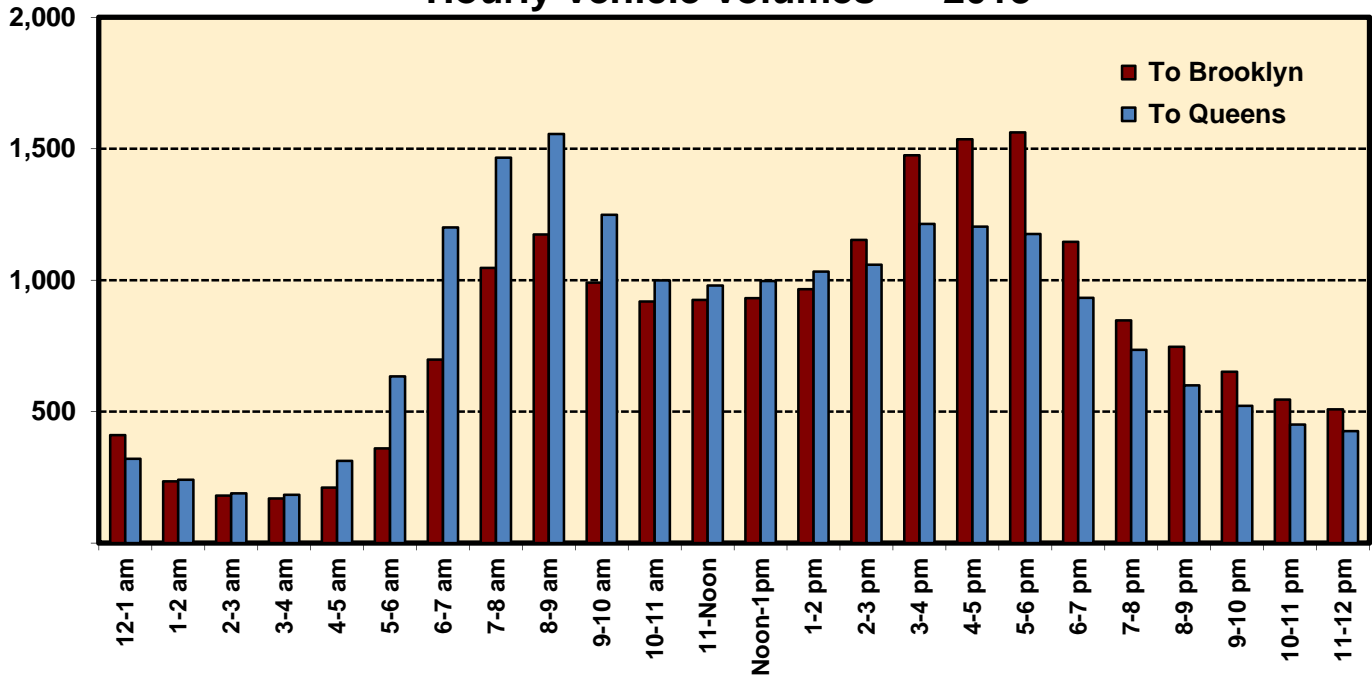


Kosciuszko Bridge Average Daily Traffic Volumes Total of Both Directions

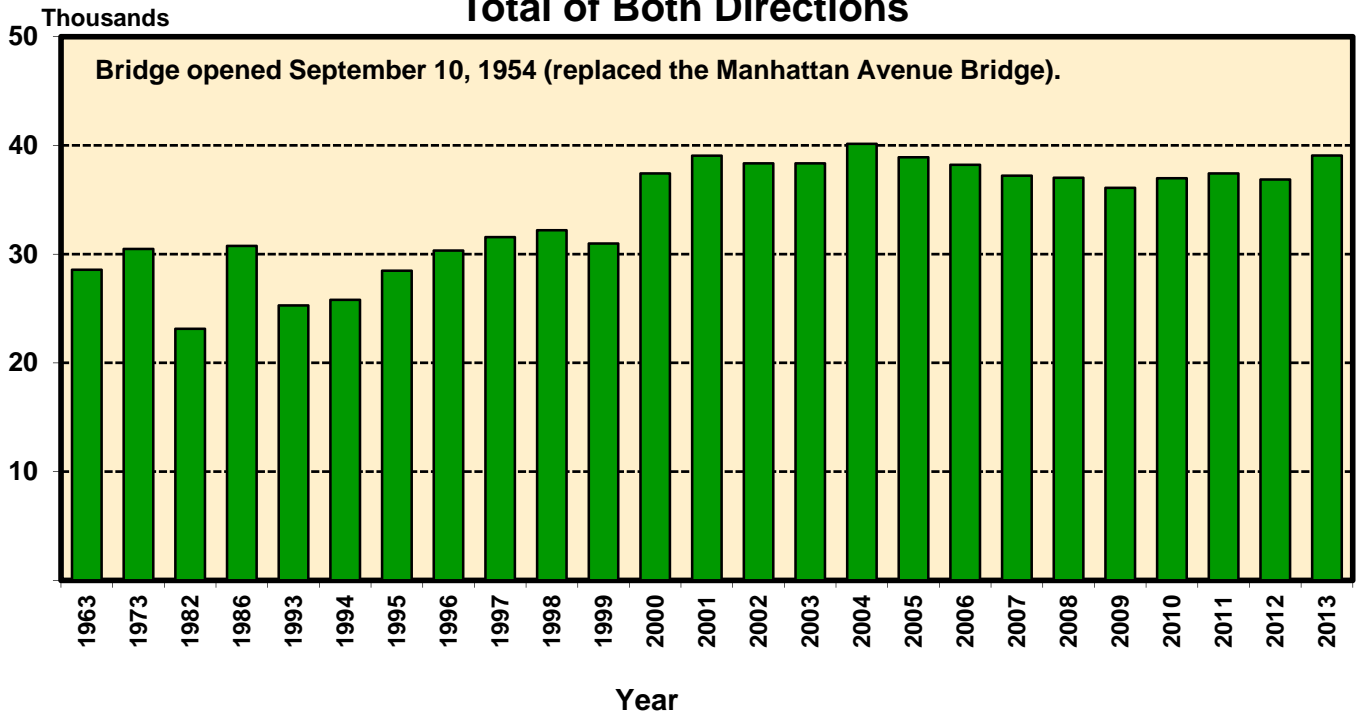


Brooklyn – Queens Screenline Volumes

Pulaski Bridge Hourly Vehicle Volumes ~ 2013

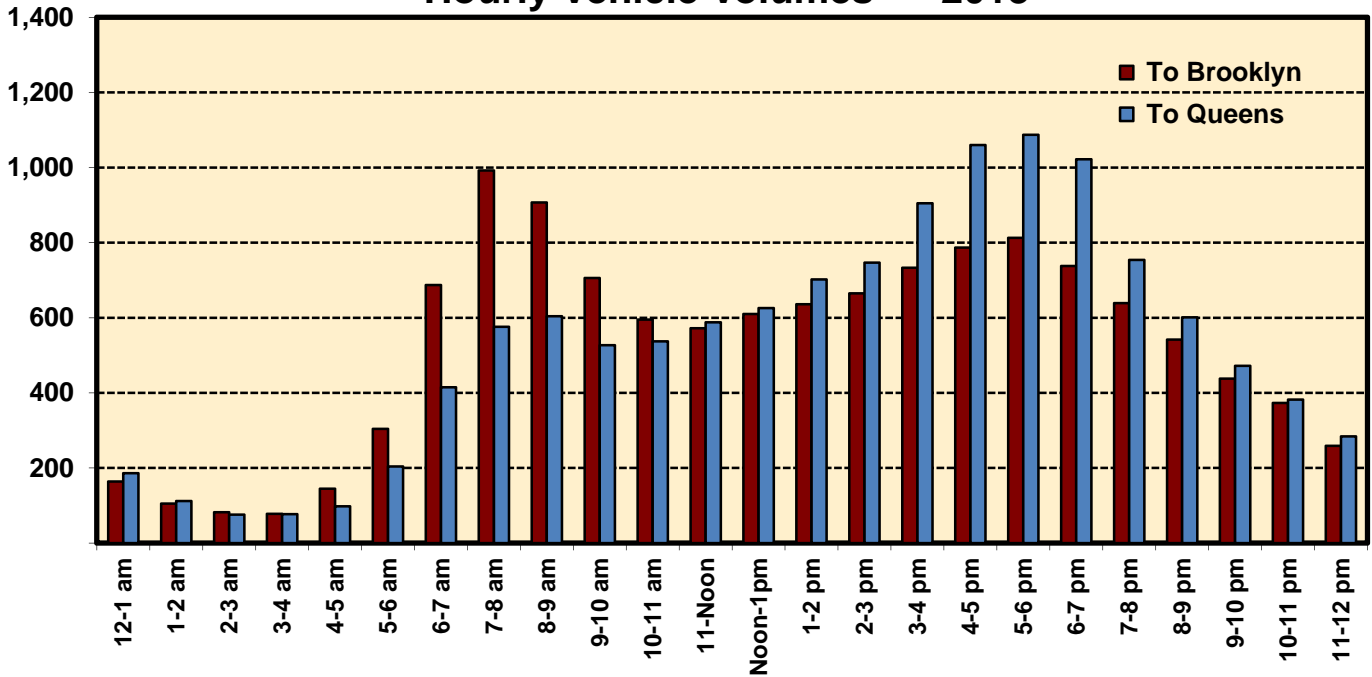


Pulaski Bridge Average Daily Traffic Volumes Total of Both Directions

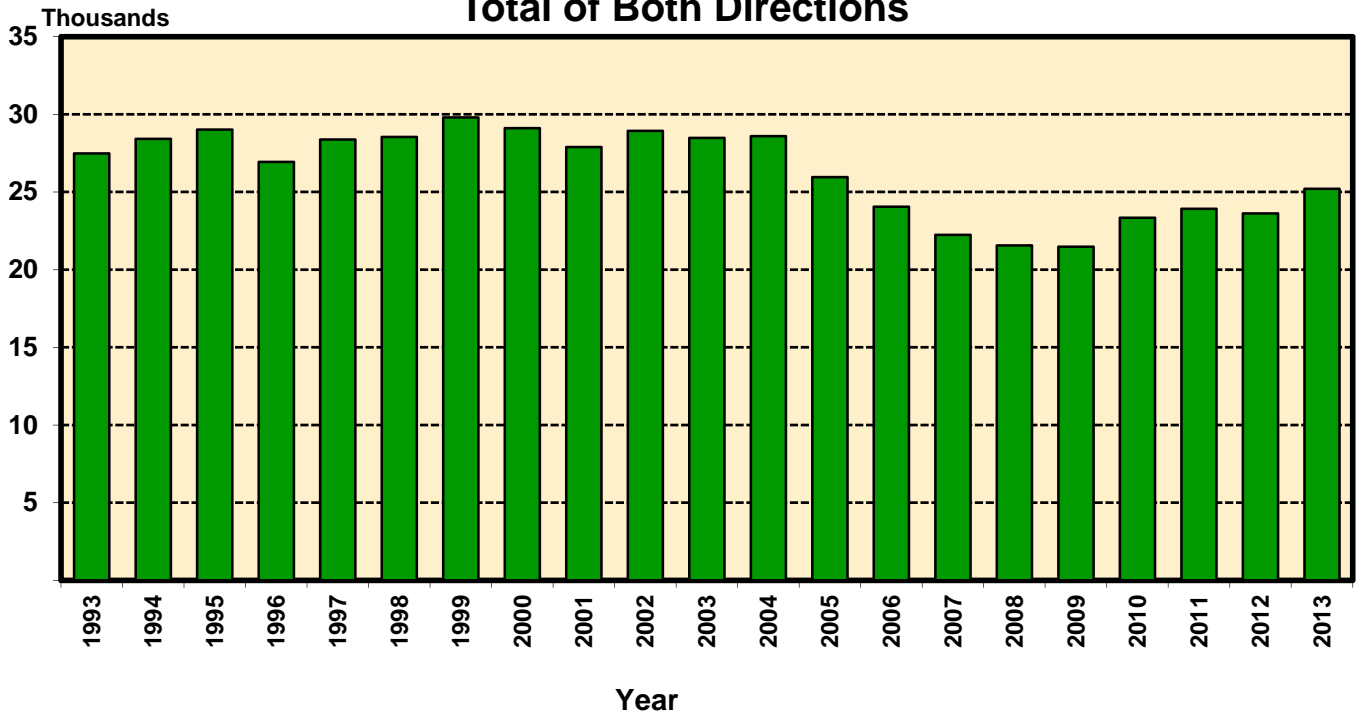


Brooklyn – Queens Screenline Volumes

Atlantic Avenue Hourly Vehicle Volumes ~ 2013

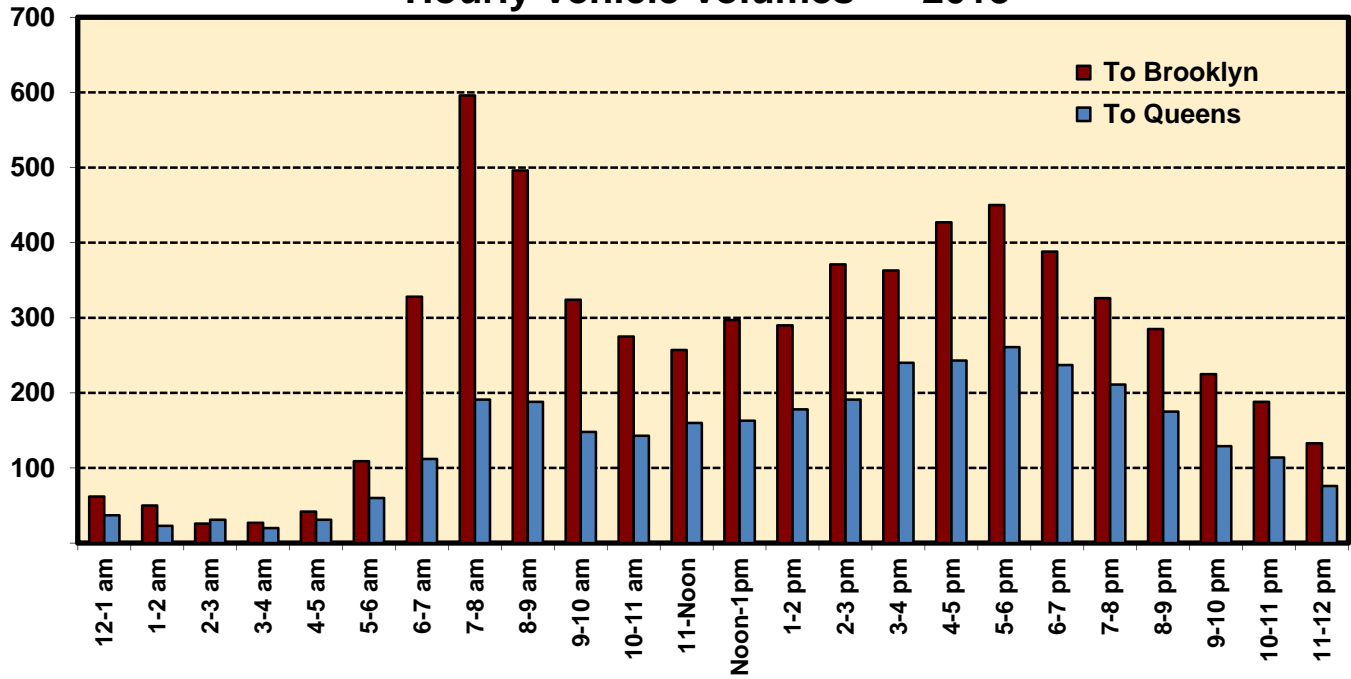


Atlantic Avenue Average Daily Traffic Volumes Total of Both Directions

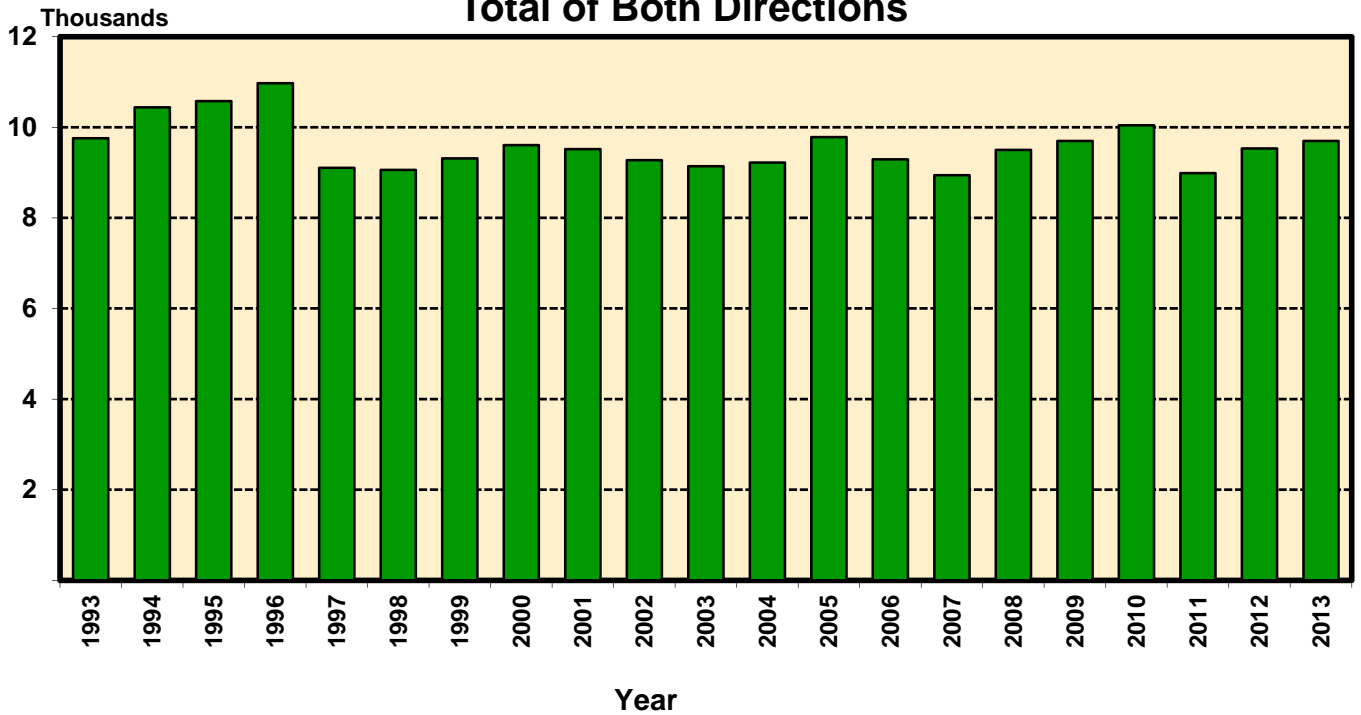


Brooklyn – Queens Screenline Volumes

Cooper Street Hourly Vehicle Volumes ~ 2013

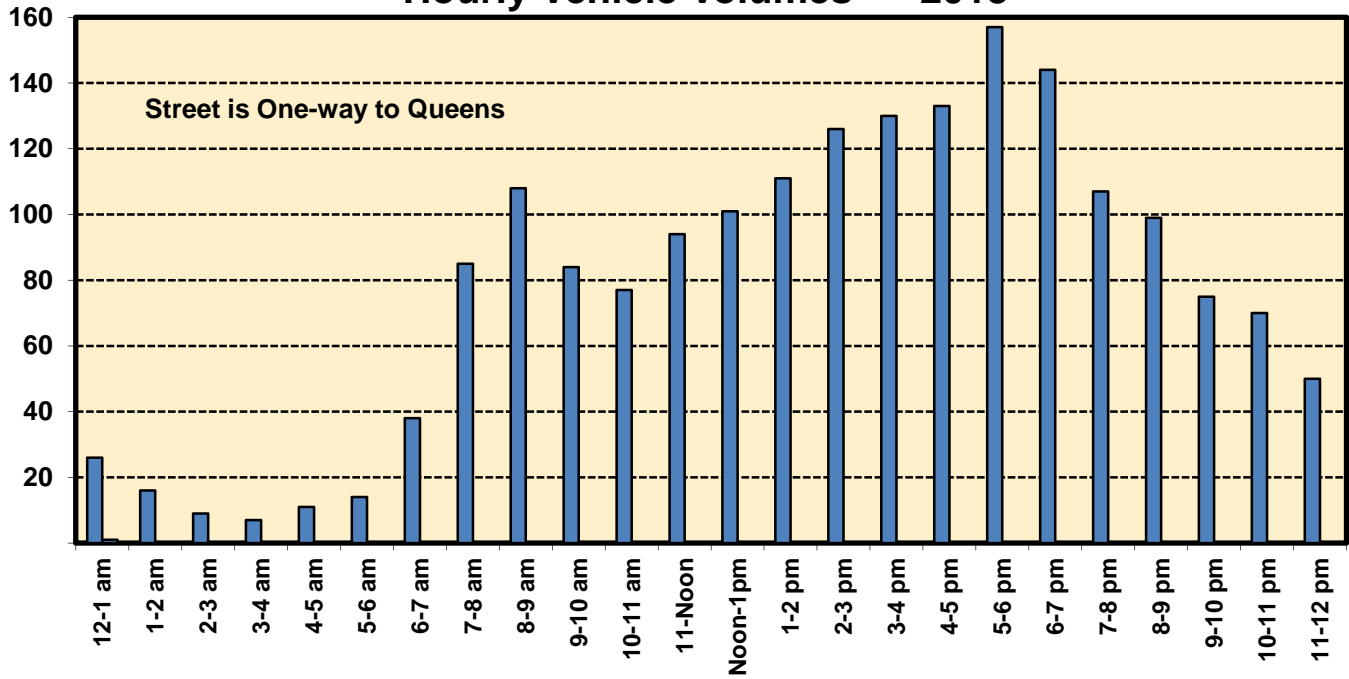


Cooper Street Average Daily Traffic Volumes Total of Both Directions

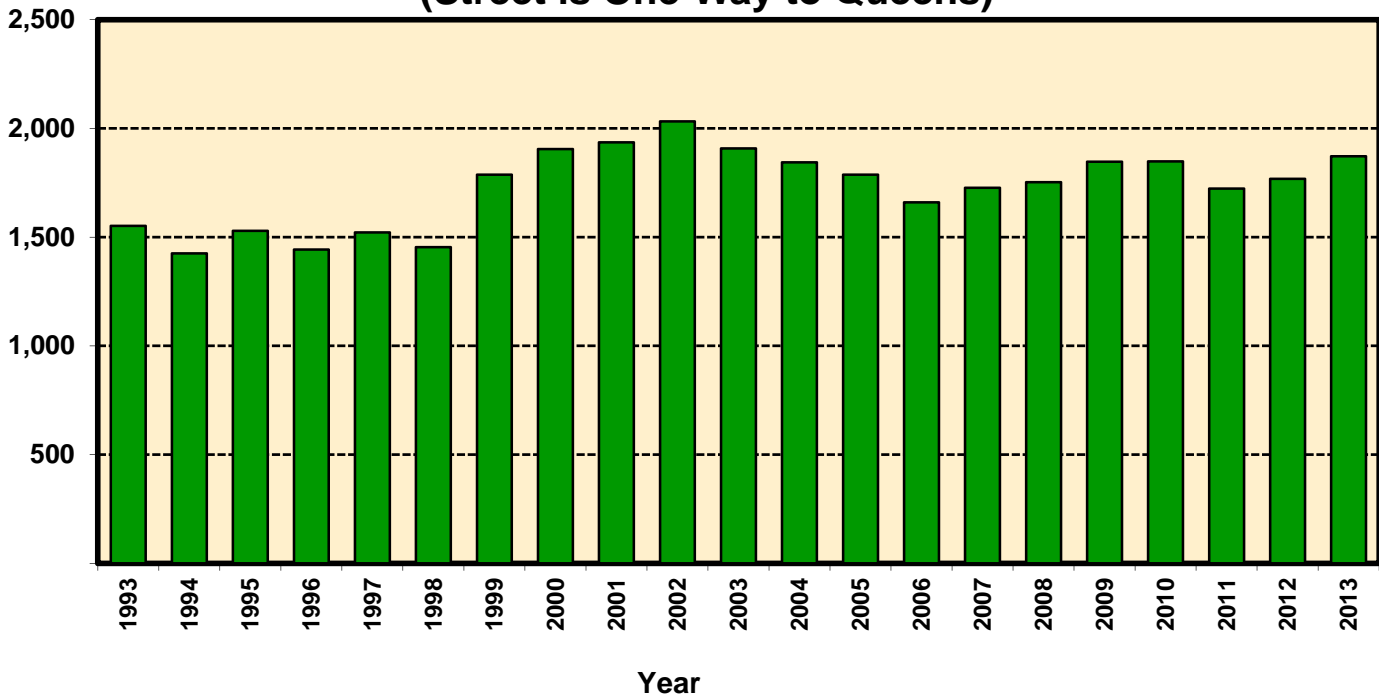


Brooklyn – Queens Screenline Volumes

Cornelia Street Hourly Vehicle Volumes ~ 2013

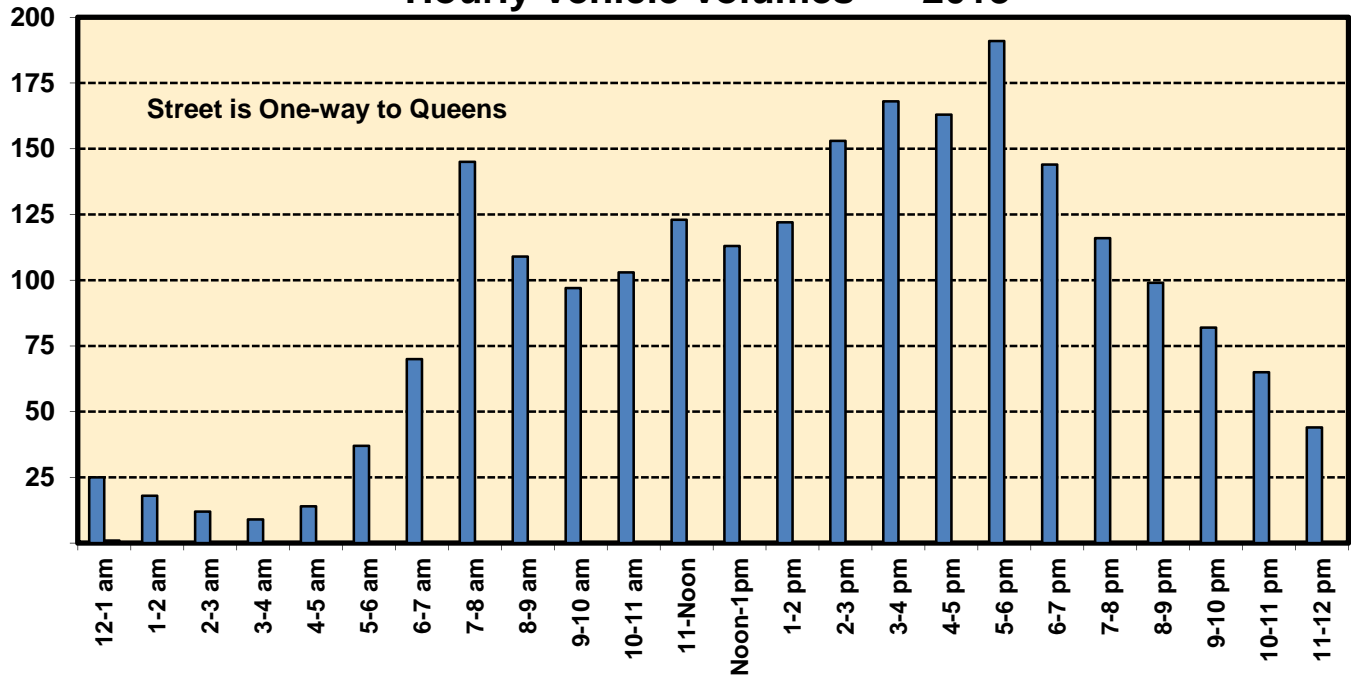


Cornelia Street Average Daily Traffic Volumes (Street is One-Way to Queens)

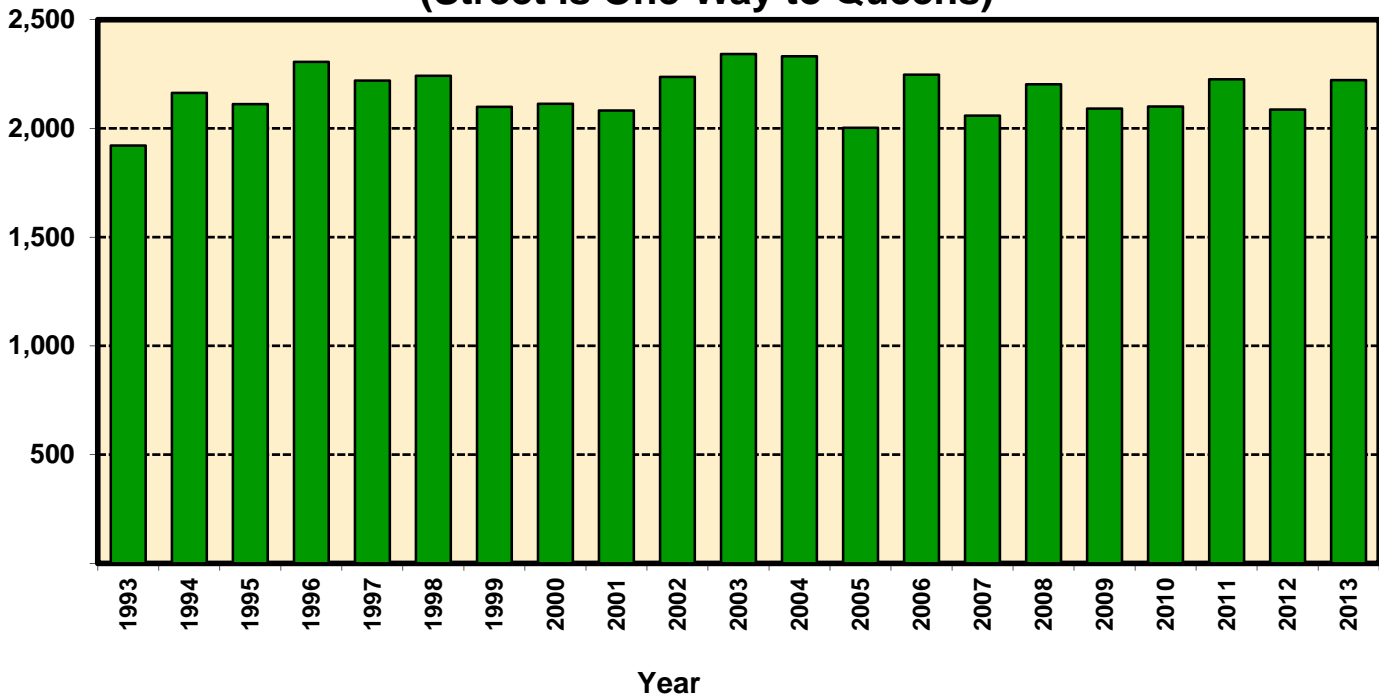


Brooklyn – Queens Screenline Volumes

Decatur Street Hourly Vehicle Volumes ~ 2013

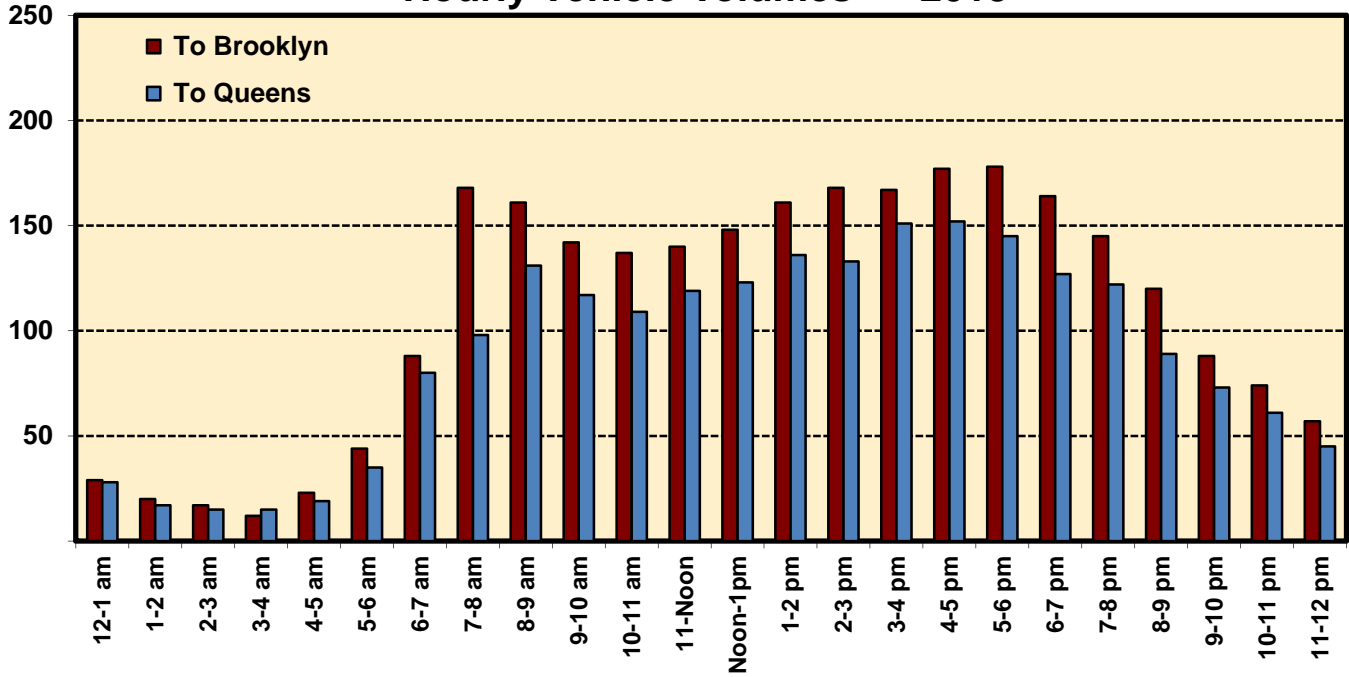


Decatur Street Average Daily Traffic Volumes (Street is One-Way to Queens)

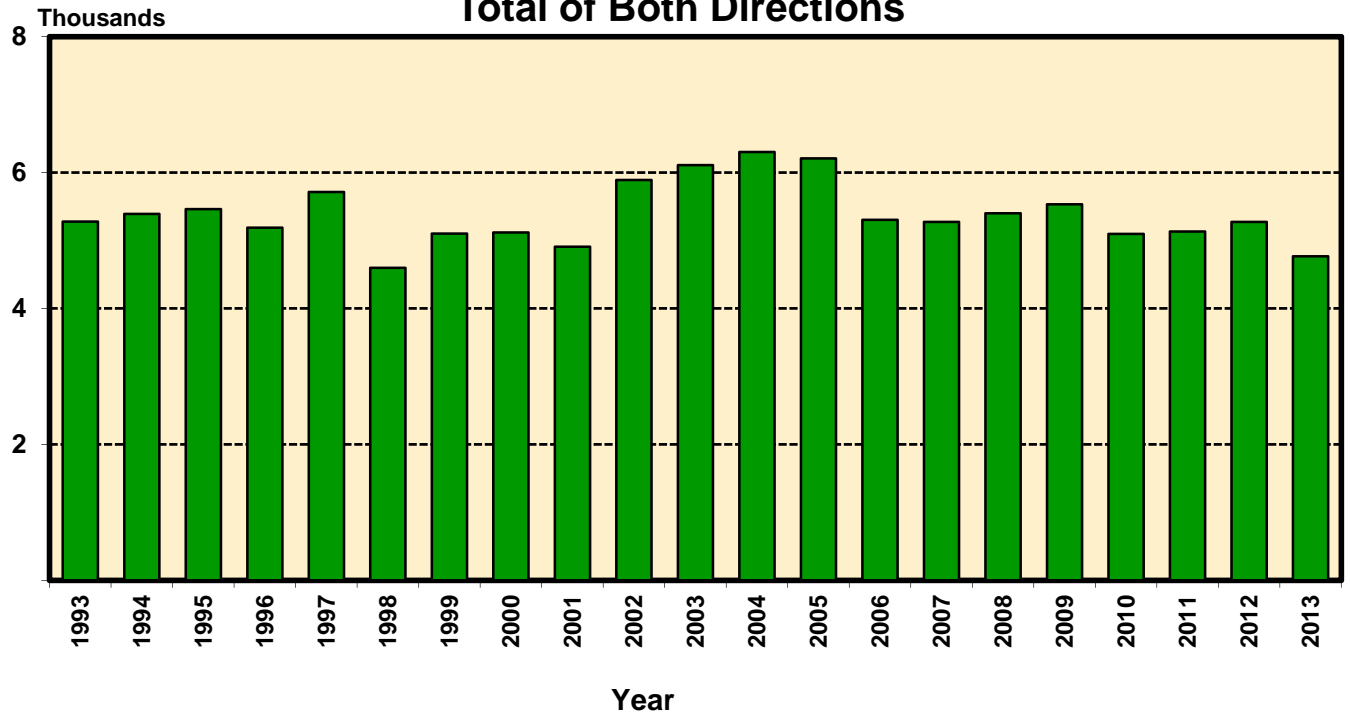


Brooklyn – Queens Screenline Volumes

DeKalb Avenue Hourly Vehicle Volumes ~ 2013

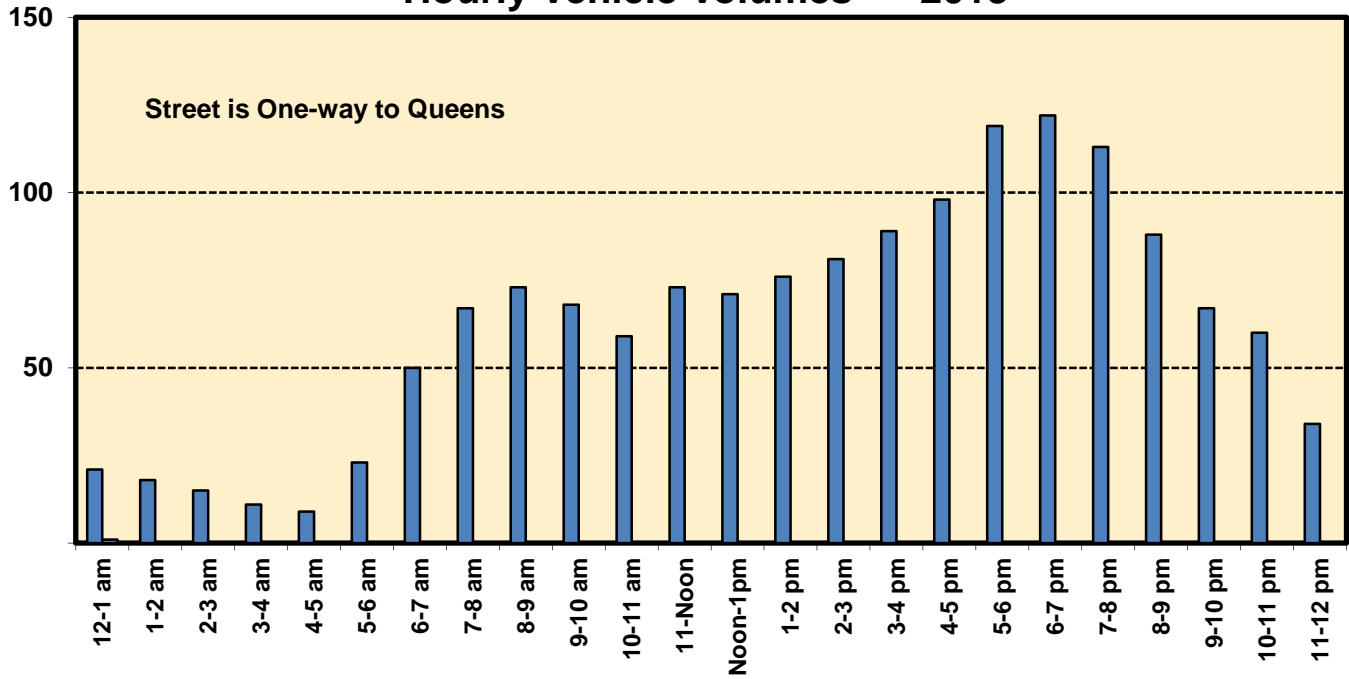


DeKalb Avenue Average Daily Traffic Volumes Total of Both Directions

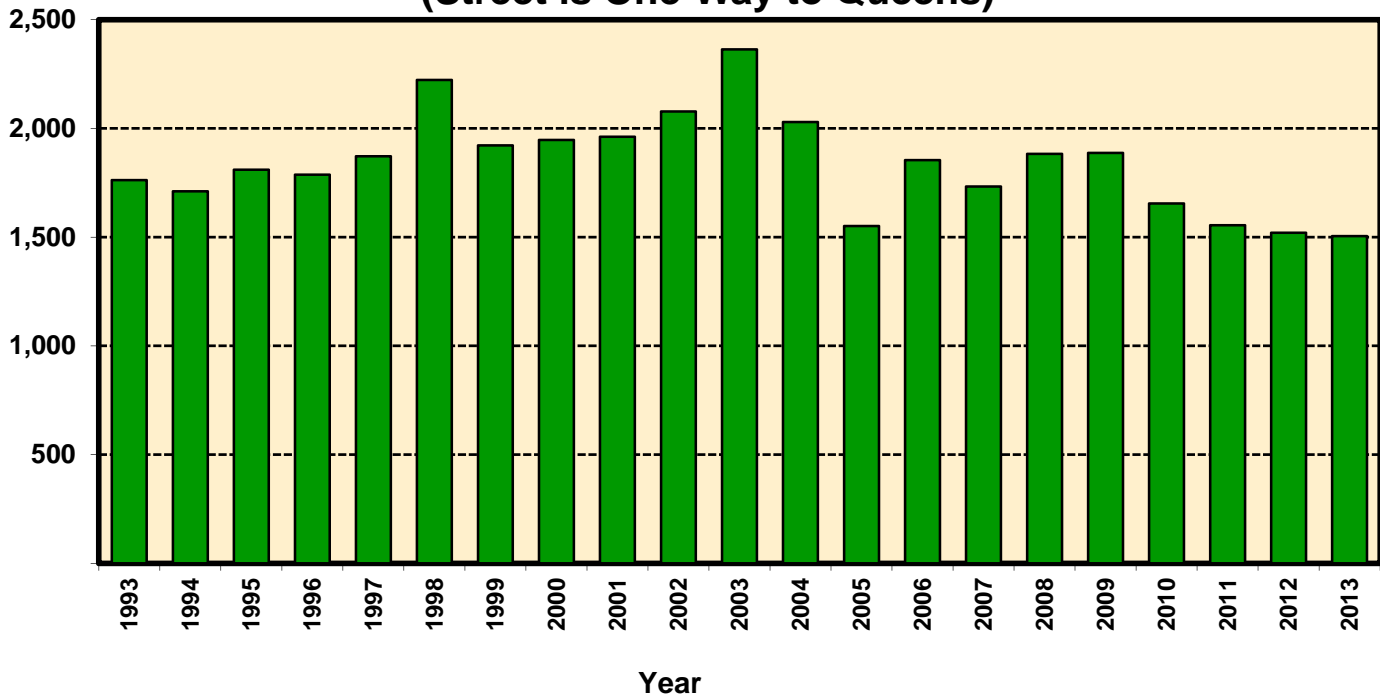


Brooklyn – Queens Screenline Volumes

Greene Avenue Hourly Vehicle Volumes ~ 2013

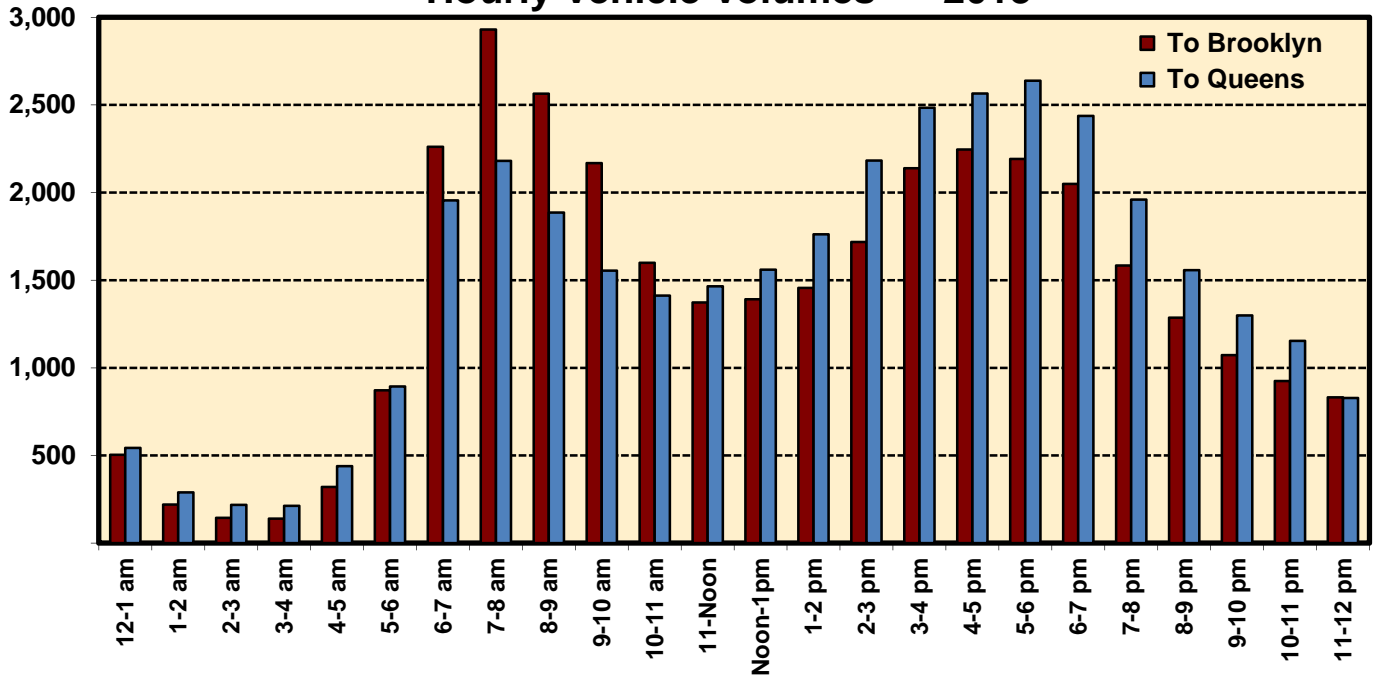


Greene Avenue Average Daily Traffic Volumes (Street is One-Way to Queens)

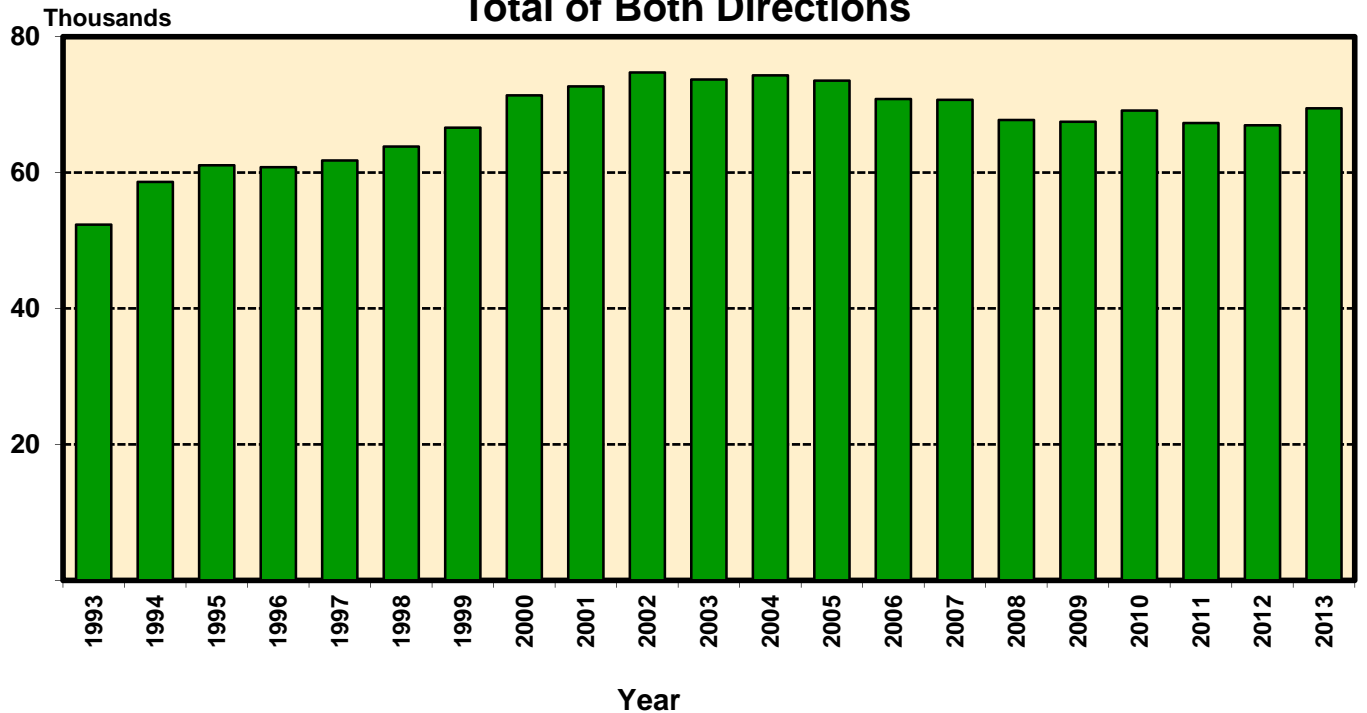


Brooklyn – Queens Screenline Volumes

Jackie Robinson Parkway Hourly Vehicle Volumes ~ 2013

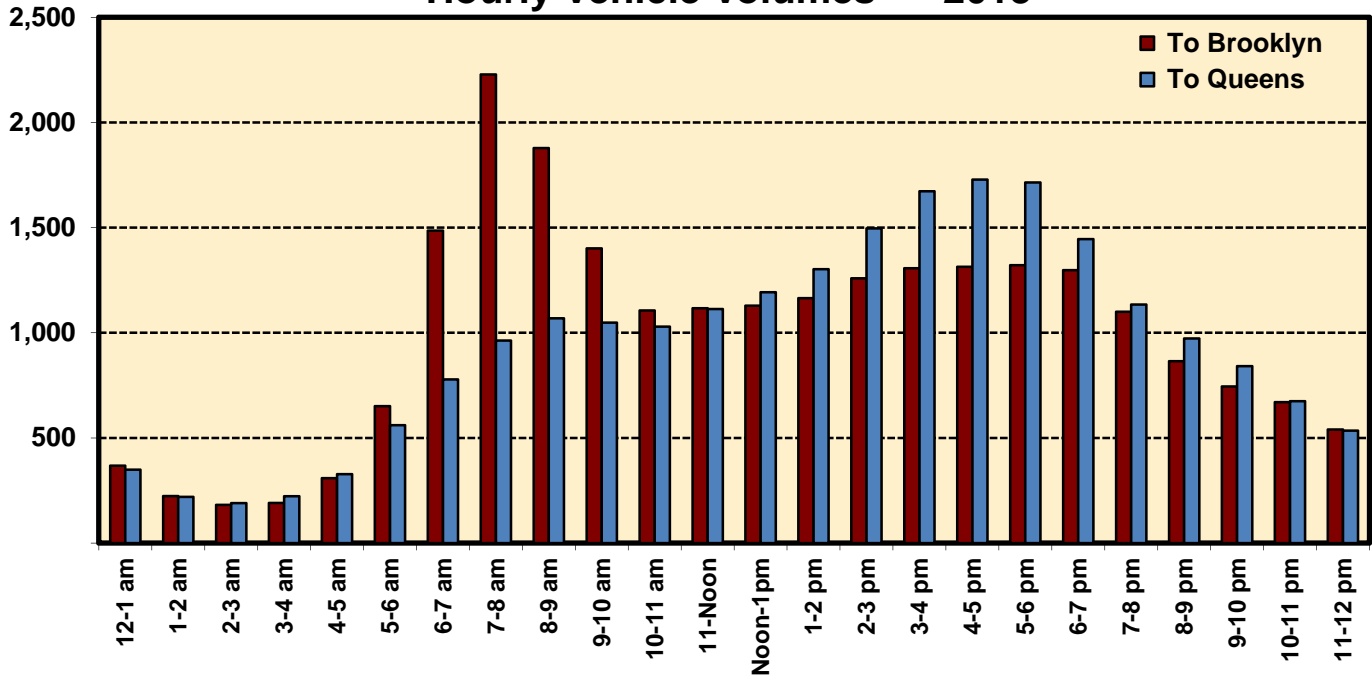


Jackie Robinson Parkway Average Daily Traffic Volumes Total of Both Directions

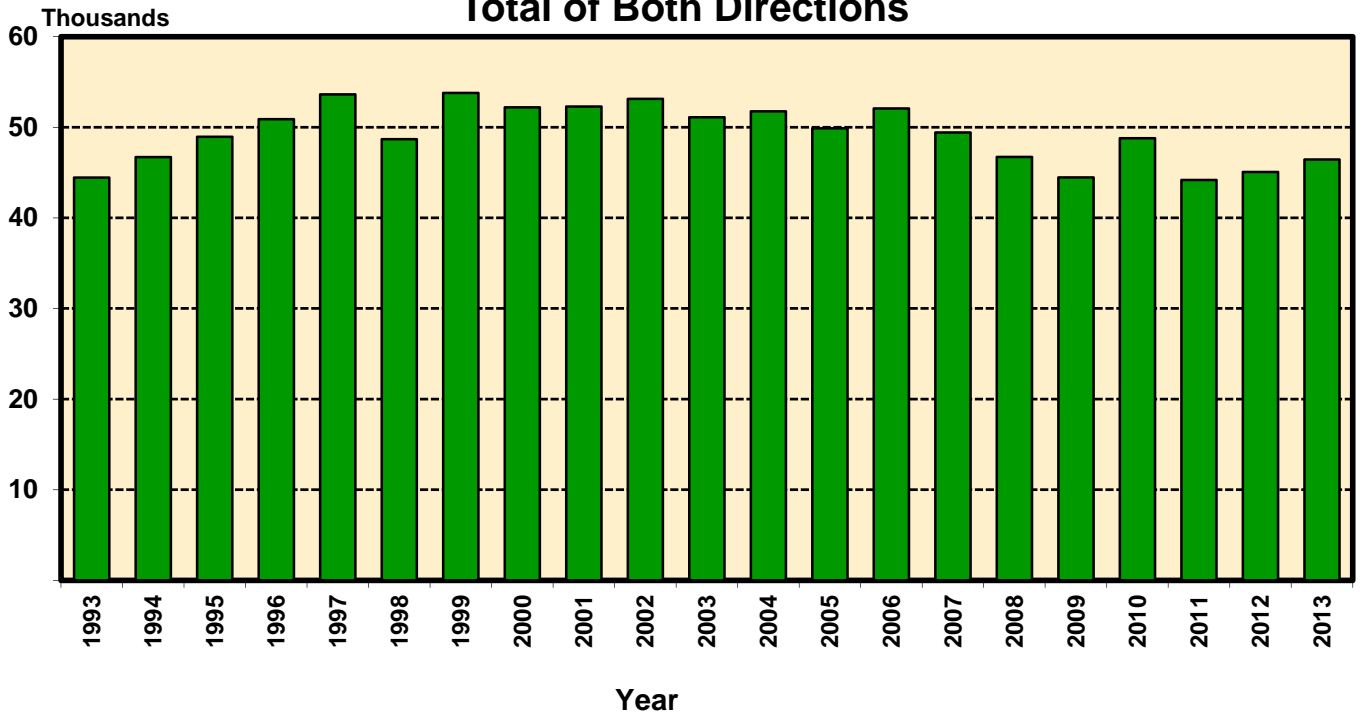


Brooklyn – Queens Screenline Volumes

Linden Boulevard Hourly Vehicle Volumes ~ 2013

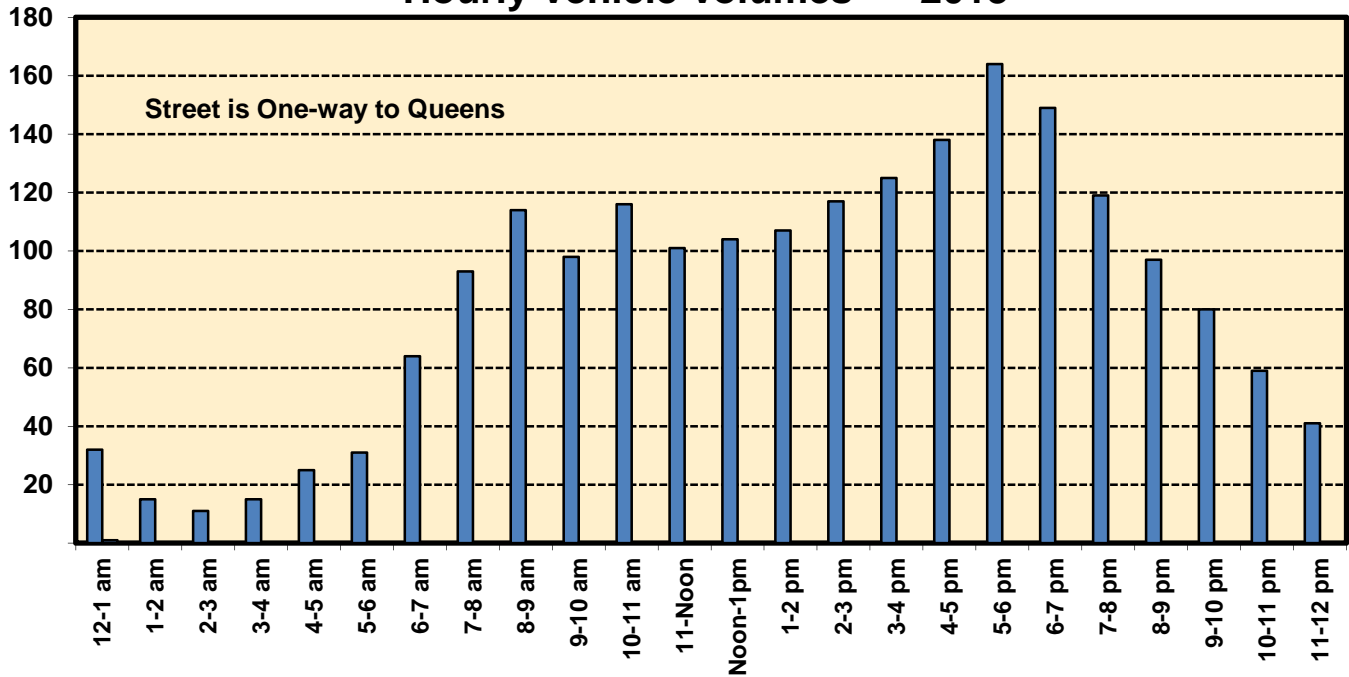


Linden Boulevard Average Daily Traffic Volumes Total of Both Directions

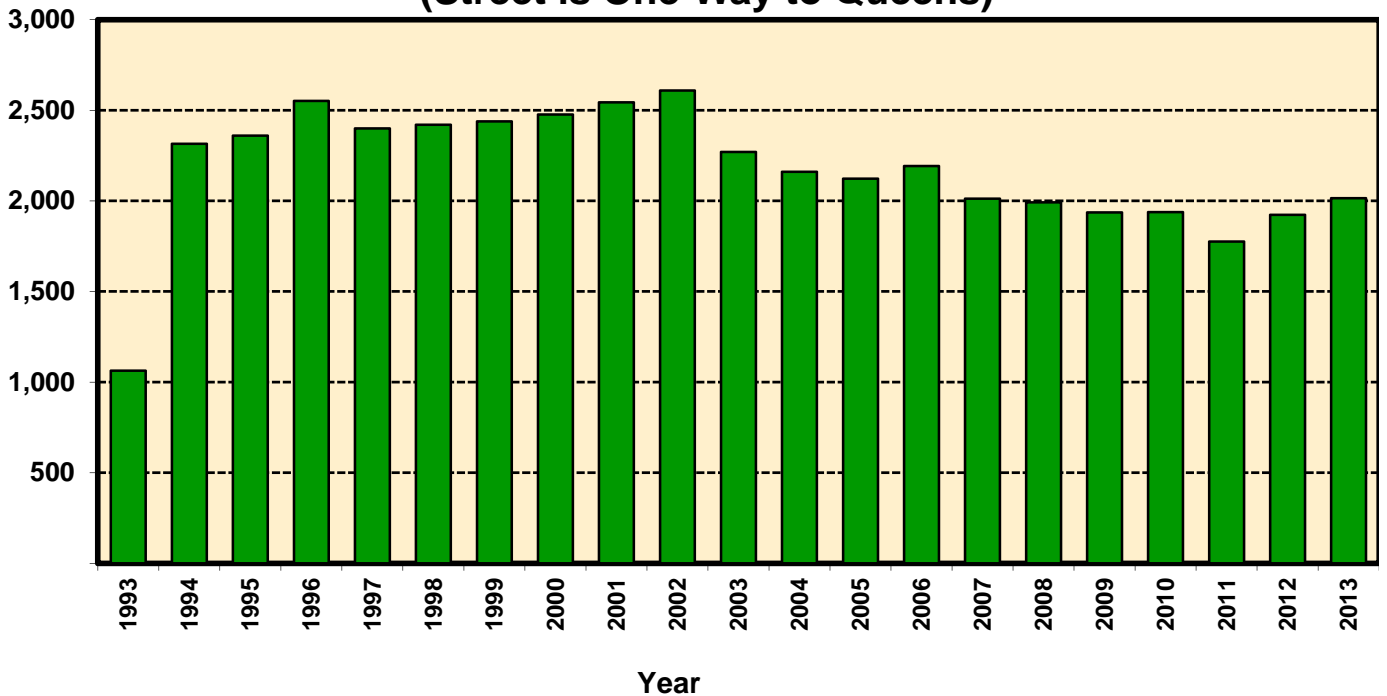


Brooklyn – Queens Screenline Volumes

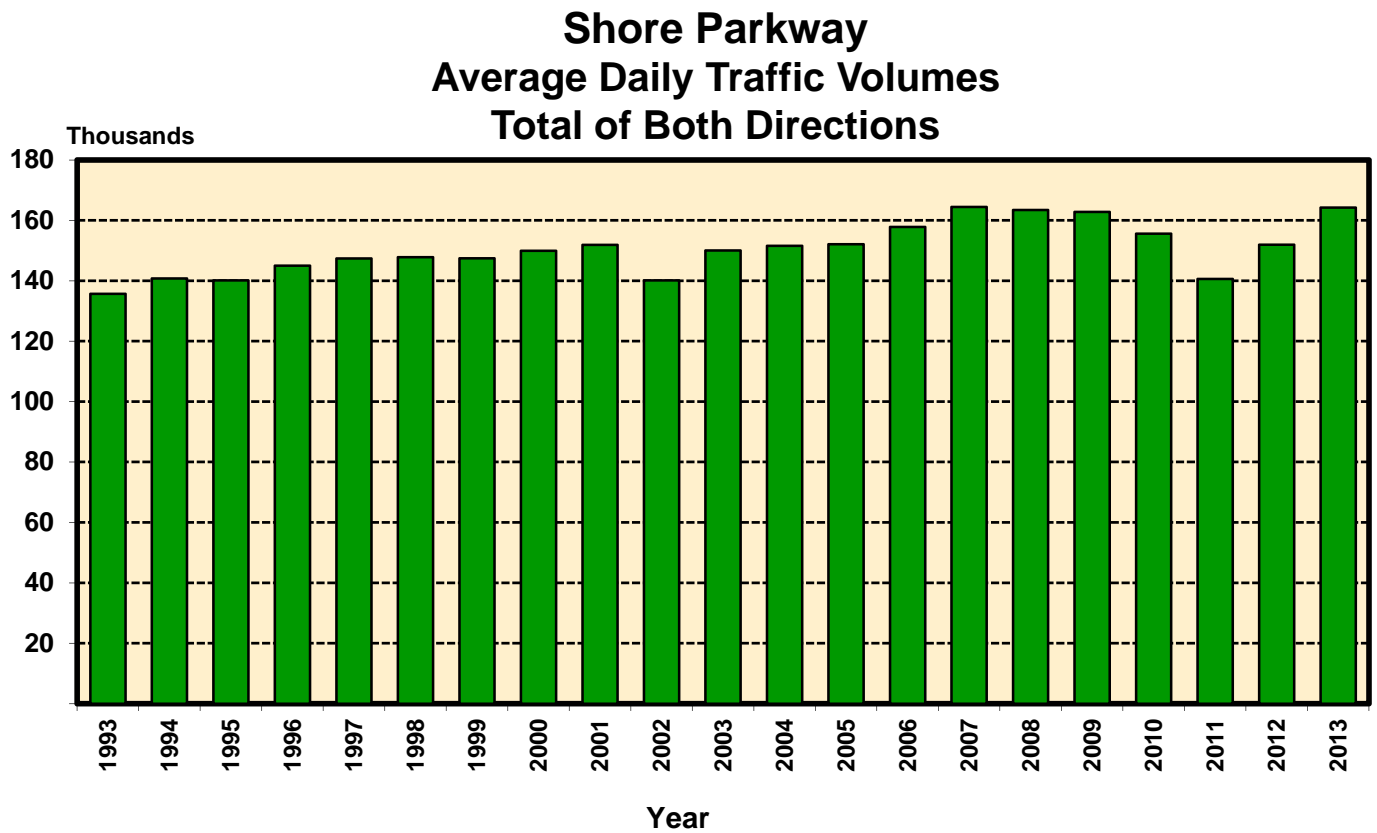
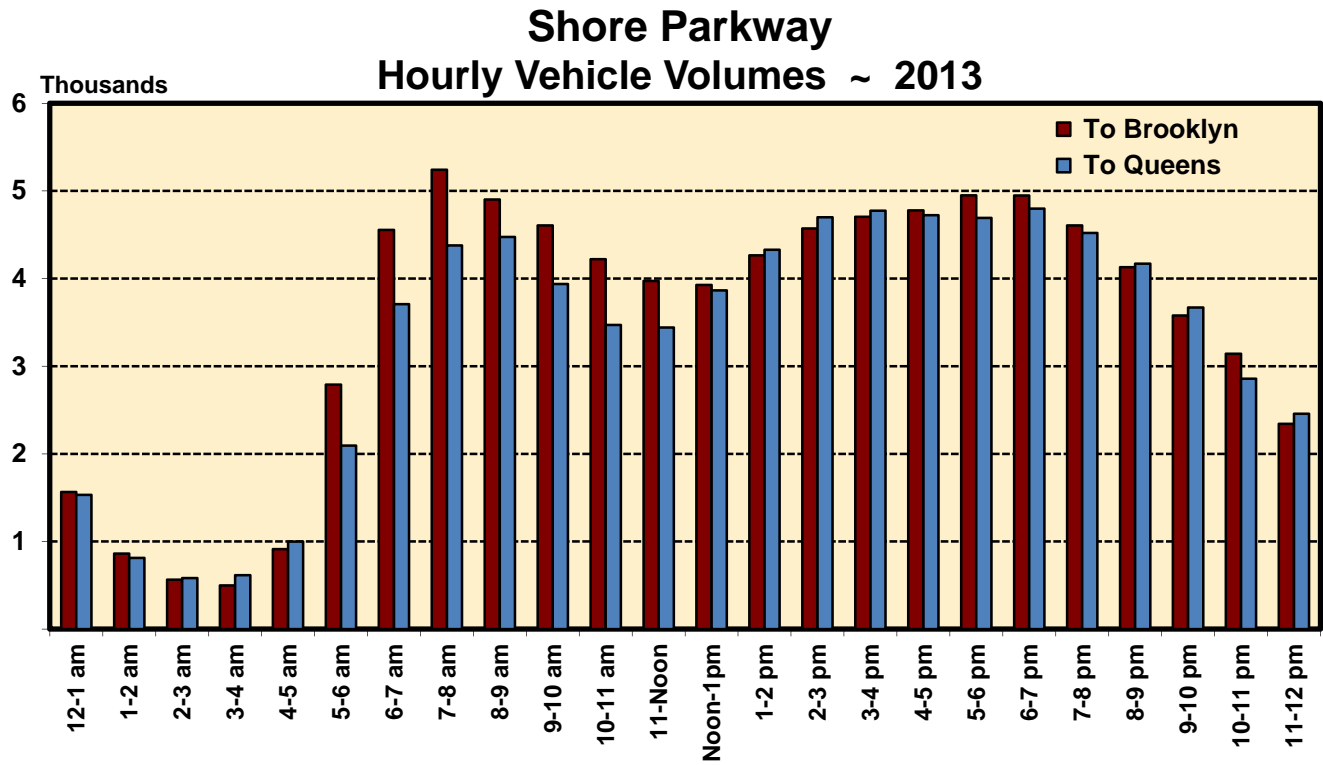
Linden Street Hourly Vehicle Volumes ~ 2013



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

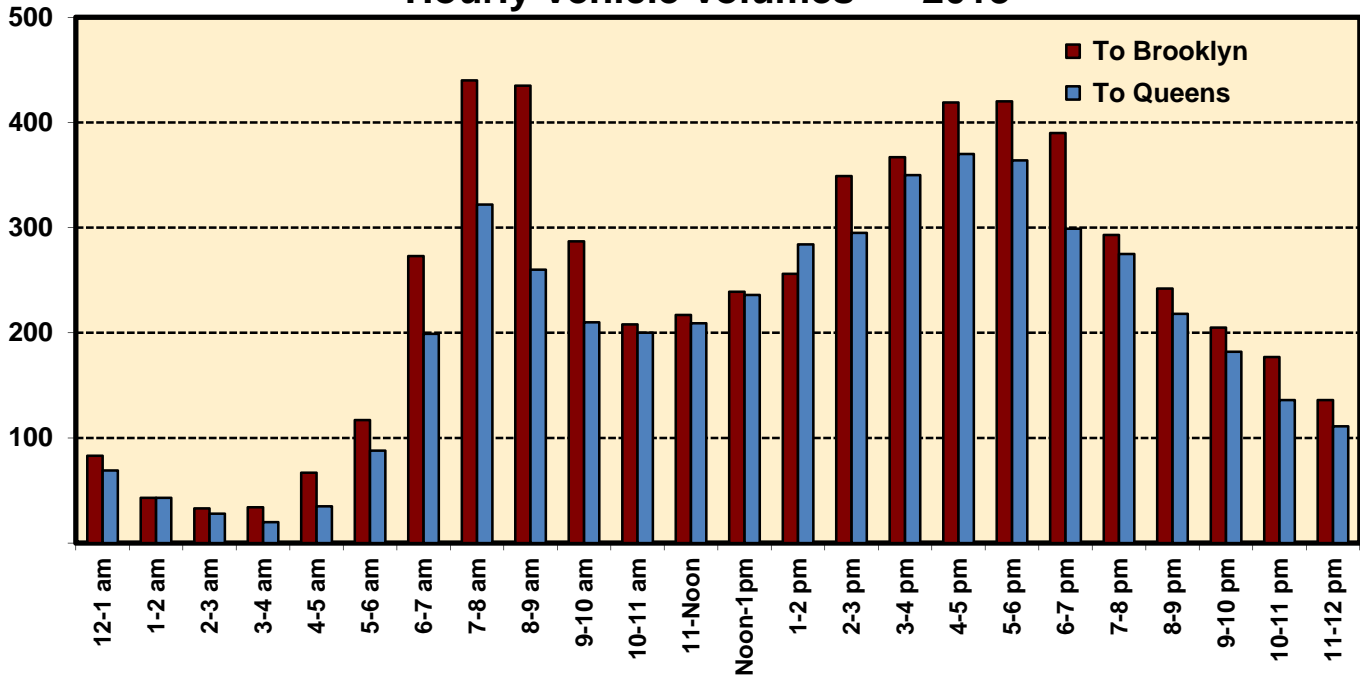


Brooklyn – Queens Screenline Volumes



Brooklyn – Queens Screenline Volumes

Sutter Avenue Hourly Vehicle Volumes ~ 2013



Sutter Avenue Average Daily Traffic Volumes Total of Both Directions

