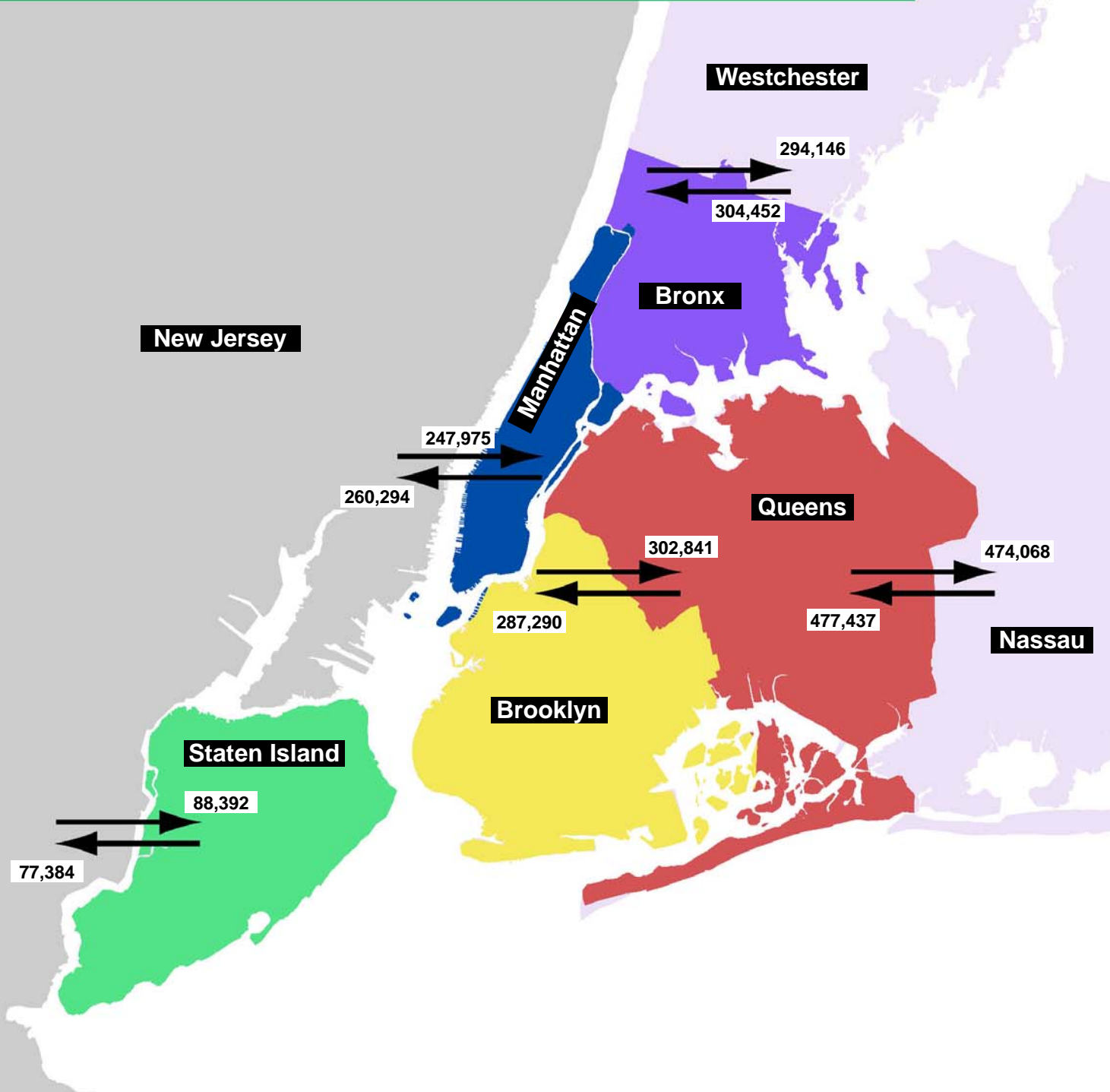


New York City Screenline Traffic Flow 2008



Michael R. Bloomberg
Mayor



Janette Sadik-Khan
Commissioner

October
2010

New York City Screenline Traffic Flow 2008

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**NEW YORK CITY
SCREENLINE TRAFFIC FLOW
2008**

TABLE OF CONTENTS

	PAGE
INTRODUCTION	1
SUMMARY	5
2008 Daily Traffic	7
Bronx - Westchester	7
Queens - Nassau	8
New York – New Jersey	9
Brooklyn - Queens	10
2007-2008 Screenline Daily Traffic Volume Trends	12
Bronx - Westchester	15
Queens - Nassau	16
New York – New Jersey	17
Brooklyn - Queens	18
TEN – YEAR TRENDS ~ 1998 – 2008	19
1998-2008 Screenline Daily Traffic Volume Trends	21
Bronx - Westchester	26
Queens - Nassau	27
New York – New Jersey	28
Brooklyn - Queens	29
NEW YORK CITY SCREENLINE	31
Flow Map.	34
Historical Screenline Volumes	35
Hourly Screenline Volumes by Direction	39
BRONX – WESTCHESTER SCREENLINE	41
Flow Map	44

	PAGE
Historical Daily Facility Volumes by Direction	45
Hourly Facility Volumes by Direction	49
Boston Road	52
Broadway	53
Bronx River Parkway	54
Henry Hudson Parkway	55
Hutchinson River Parkway	56
Major Deegan Expressway	57
New England Thruway	58
Riverdale Avenue	59
Van Cortlandt Park East	60
Webster Avenue	61
White Plains Road	62
QUEENS - NASSAU SCREENLINE	63
Flow Map	66
Historical Daily Facility Volumes by Direction	67
Hourly Facility Volumes by Direction	71
Beach Channel Drive	75
Central Avenue	76
Grand Central Parkway	77
Hempstead Avenue	78
Hillside Avenue	79
Jamaica Avenue	80
Laurelton Parkway	81
Linden Boulevard	82
Long Island Expressway	83

	PAGE
Merrick Boulevard	84
Northern Boulevard	85
Rockaway Boulevard	86
Seagirt Boulevard	87
Sunrise Highway	88
Union Turnpike.	89
NEW YORK - NEW JERSEY SCREENLINE	91
Flow Map.	95
Historical Daily Facility Volumes by Direction	96
Hourly Facility Volumes by Direction	100
Manhattan - New Jersey Crossings.	103
George Washington Bridge	103
Holland Tunnel	104
Lincoln Tunnel	105
Staten Island - New Jersey Bridges	106
Bayonne Bridge	106
Goethals Bridge	107
Outerbridge Crossing	108
BROOKLYN - QUEENS SCREENLINE	109
Flow Map	112
Historical Daily Facility Volumes by Direction	113
Hourly Facility Volumes by Direction	117
Newtown Creek Bridges	122
Grand Street Bridge	122
Greenpoint Avenue Bridge.	123

	PAGE
Kosciuszko Bridge	124
Pulaski Bridge	125
Other Facilities	126
Atlantic Avenue	126
Cooper Street	127
Cornelia Street	128
Decatur Street	129
DeKalb Avenue	130
Greene Avenue	131
Jackie Robinson Parkway	132
Linden Boulevard	133
Linden Street	134
Shore Parkway	135
Sutter Avenue	136

Introduction



Sunrise Highway at the Queens-Nassau Screenline (Looking West)

INTRODUCTION

The 2008 *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), and the Safe, Accountable, Flexible, Efficient Transportation Equity Act – A Legacy for Users (SAFETEA-LU). 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 2008 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 1993–2007. The statistical analysis presented in the report was performed by staff of NYCDOT during the 2008–2009 and 2009–2010 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.

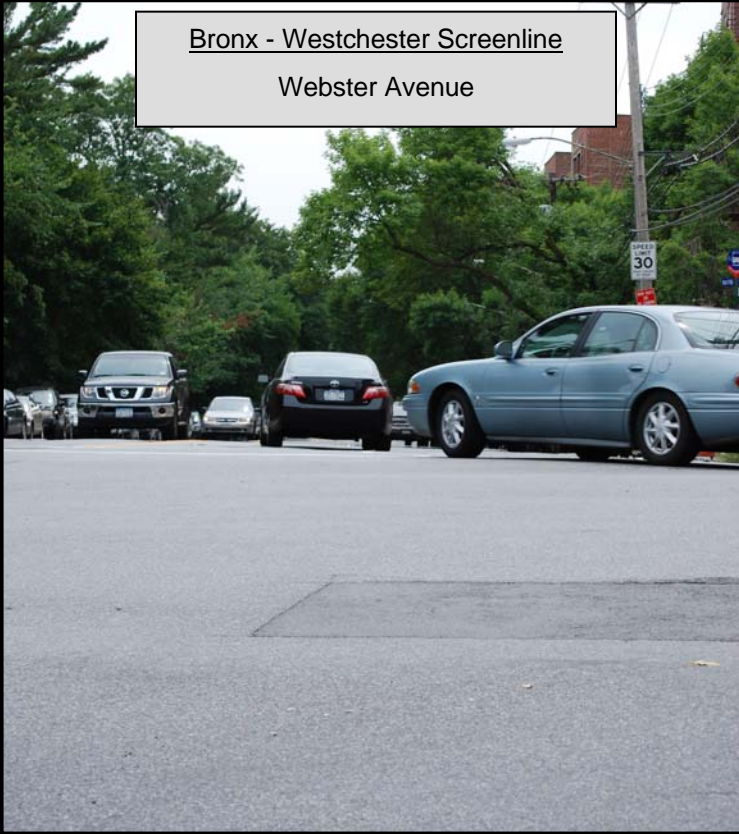
The five functional classifications are defined as follows:

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.

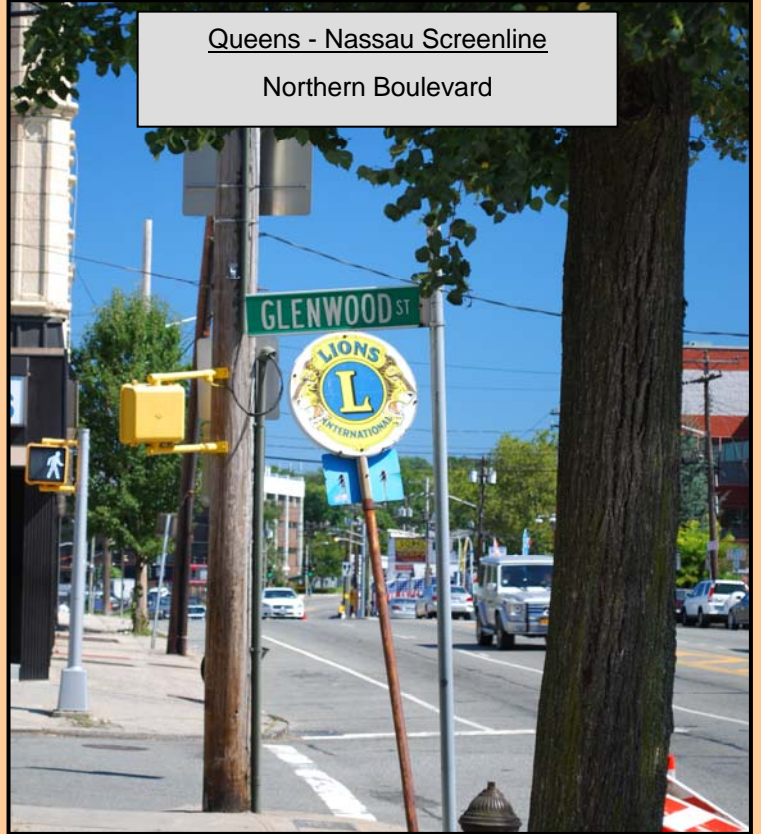
Note: NYCDOT uses the averages of vehicular volumes from selected representative weekdays. Publications from other sources may be based on alternative computation methodologies for some facilities, notably the tolled bridges and tunnels, possibly yielding different results for those facilities.

Summary

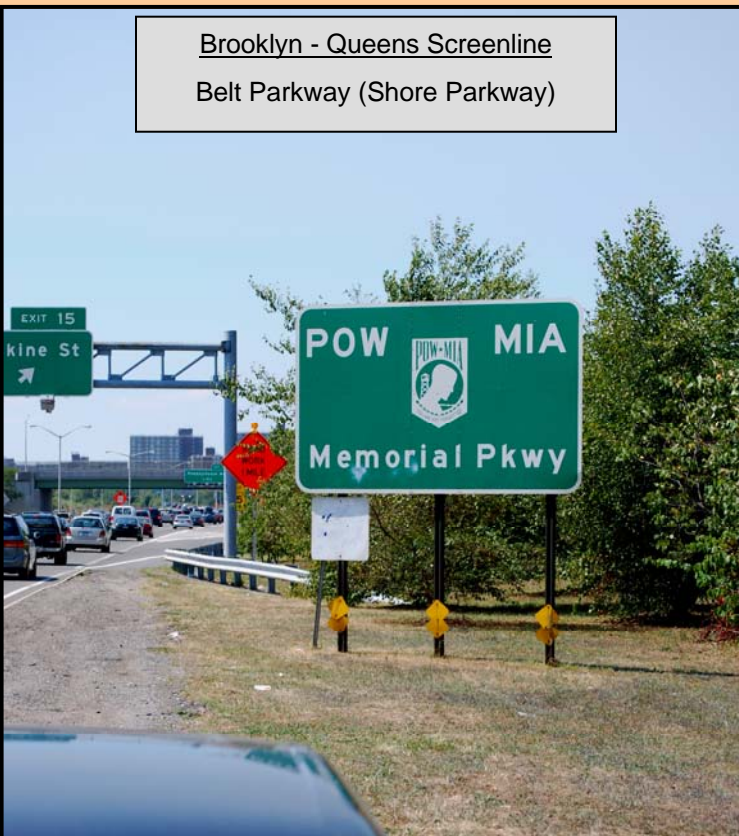
Bronx - Westchester Screenline
Webster Avenue



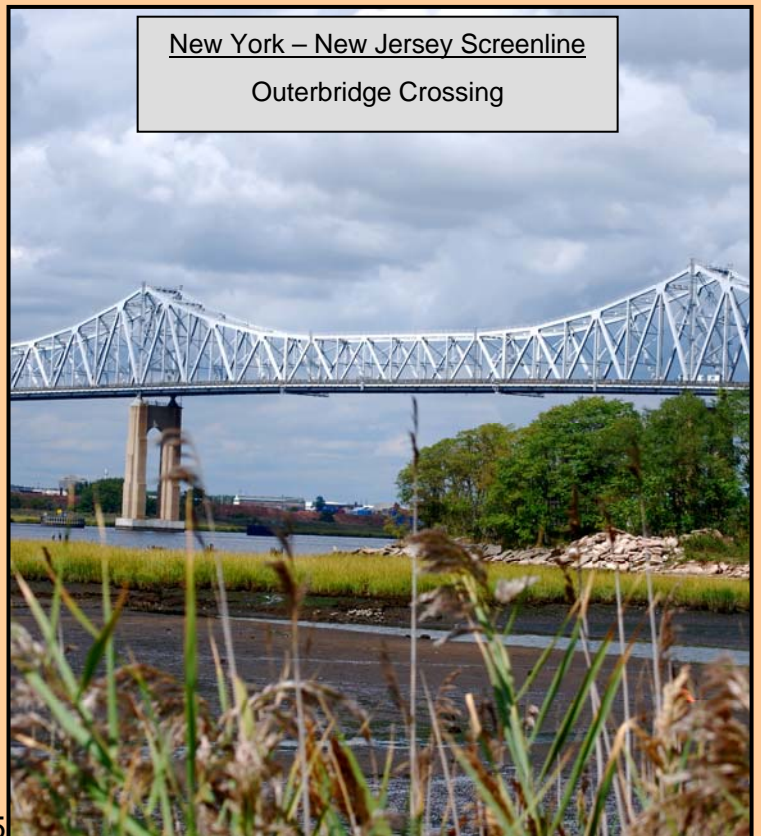
Queens - Nassau Screenline
Northern Boulevard



Brooklyn - Queens Screenline
Belt Parkway (Shore Parkway)



New York - New Jersey Screenline
Outerbridge Crossing



SUMMARY

2008 Daily Traffic

- Just over 2,224,000 daily motor vehicles crossed the 32 New York City border screenline monitoring locations in 2008, 2.1% fewer than the 2,272,000 daily vehicles recorded in 2007.
- Since the first survey in 1963, the highest volumes have been at the Queens–Nassau border. In 2008, 951,500 daily vehicles were counted at the fifteen Queens–Nassau monitoring locations, 42.8% of the total traffic recorded at the City boundaries. The eleven Bronx–Westchester locations yielded 26.9% of the total (598,600), the three Manhattan–New Jersey river crossings 22.8% (508,300), and the three Staten Island–New Jersey bridges 7.5% (165,800). The six New York–New Jersey facilities are operated by the Port Authority of New York and New Jersey (PANYNJ).
- Morning hourly inbound volume peaked between 7-8 am, when 76,400 vehicles were recorded entering the City limits. Between 6-10 am, a total of 279,400 vehicles entered the City from Nassau and Westchester Counties, and New Jersey.
- During the 4-5 pm evening peak hour, 76,600 vehicles were recorded leaving the City. Between 3-7 pm, 302,900 vehicles exited the City.
- 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 2008 weekday, 598,600 vehicles crossed the eleven Bronx-Westchester screenline monitoring locations, 5.9% fewer than the 635,800 daily vehicles recorded in 2007.
- Over 86% of the recorded vehicles (516,500 per day) were on the five limited access highways (interstate and principal arterials) that cross the screenline.
- The New England Thruway, with a total two-way volume of 124,500 daily vehicles, is the most-traveled Bronx-Westchester highway, carrying 20.8% of the total traffic on the monitored thoroughfares. The Major Deegan Expressway (including service roads) is second with 119,700 daily vehicles, 20.0% of the total. The Henry Hudson Parkway serves 93,700 daily vehicles (15.7%), the Hutchinson River Parkway 91,000 (15.2%), and the Bronx River Parkway 87,700 (14.6%).
- Boston Road is the busiest surface arterial monitored, averaging 23,100 vehicles per day, 3.9% of the total.
- The morning inbound (southbound) peak hour occurred during 7-8am, when 23,200 vehicles were recorded entering The Bronx from Westchester. The Henry Hudson Parkway carried 4,800 of those peak hour inbound vehicles, with another 4,500 on the Major Deegan Expressway and its service road, and 4,400 on the Bronx River Parkway.

- During the 6-10 am inbound rush period, 78,300 vehicles were recorded entering The Bronx. Some 16,000 of those vehicles were on the Major Deegan Expressway and its service road, with another 15,600 accommodated by the Henry Hudson Parkway, and 13,500 on the Bronx River Parkway.
- A total of 21,000 vehicles were counted crossing the screenline from The Bronx into Westchester during the 5-6 pm evening peak hour. Over 4,600 of those vehicles used the Major Deegan Expressway and its service road.
- During the 3-7 pm evening rush period, 81,500 vehicles were recorded leaving The Bronx. The Major Deegan Expressway and its service road accommodated 17,600 of those northbound vehicles.
- Reverse traffic was heavy during the 3-7 pm evening period, with an inbound volume of 79,000, compared to the outbound total of 81,500. During this period, the New England Thruway actually carried more inbound than outbound traffic (16,000 inbound vs. 13,900 outbound), consistent with recent screenline counts.
- Reverse traffic was less intense during the 6-10 am morning period: 78,300 inbound vs. 63,300 outbound. New England Thruway traffic was heavier in the reverse direction: 15,300 outbound vs. 11,800 inbound.

Queens - Nassau

- A total of 951,500 motor vehicles crossed the fifteen Queens-Nassau screenline monitoring locations on a typical 2008 weekday, 0.1% fewer than the 952,200 daily vehicles recorded in 2007.
- The three limited access highways that cross the screenline accommodated more than half (57.6%) of the recorded vehicles (548,200 per day).
- The Long Island Expressway (including service roads) was the highest volume Queens-Nassau facility in 2008, with a total two-way volume of 230,400 daily vehicles, 24.2% of the total daily traffic on the monitored thoroughfares. The Laurelton Parkway was second with 159,200 daily vehicles (16.7% of the total), followed by 158,600 on the Grand Central Parkway and its service road (16.7%).
- Rockaway Boulevard and Sunrise Highway are the busiest surface arterials, with average daily volumes of 75,500 and 65,000 vehicles, respectively.
- Other high volume principal arterials are Hempstead Avenue and Northern Boulevard, serving 46,600 and 39,500 daily vehicles, respectively.
- The morning inbound peak hour occurred during 7-8 am, when 30,700 vehicles were recorded entering Queens from Nassau. The Long Island Expressway (including service road) was the route for 6,800 of those morning inbound peak hour vehicles, with the Laurelton Parkway accommodating an additional 4,900, and the Grand Central Parkway (including service road) serving another 4,800.
- The morning outbound peak hour occurred during 8-9 am, when 31,400 vehicles were recorded entering Nassau from Queens. The Long Island Expressway (including service road) was the route for 7,200 of those morning outbound peak hour vehicles. The Grand Central Parkway (including service road) accommodated 6,700. Another 4,800 used the Laurelton Parkway.

- During the 6-10 am rush period, 113,900 vehicles entered Queens from Nassau, and 103,400 entered Nassau from Queens. The Long Island Expressway and its service roads carried a total of 52,300 vehicles, 26,600 to Queens and 25,700 to Nassau. The Laurelton Parkway was used by 19,300 Queens-bound vehicles, and 17,000 entering Nassau. On the Grand Central Parkway and its service road, the heavier volume was in the eastbound direction (leaving New York City), with 19,400 entering Queens and 21,400 entering Nassau.
- The evening outbound peak hour occurred during 3-4 pm, when 32,900 vehicles were recorded departing Queens for Nassau. The Long Island Expressway and its service road were used by 7,100 of those evening outbound peak hour vehicles. Another 5,900 used the Laurelton Parkway. The Grand Central Parkway and its service road accommodated an additional 5,700.
- The evening inbound peak hour occurred during 5-6 pm, when 32,600 vehicles were recorded departing Nassau for Queens. The Long Island Expressway (including service road) was used by 7,700 of those inbound evening peak hour vehicles. Another 5,600 used the Grand Central Parkway and its service road, with the Laurelton Parkway accommodating an additional 4,500.
- During the 3-7 pm evening rush period, 129,700 vehicles entered Nassau, and 120,200 entered Queens. The Long Island Expressway and its service roads accommodated 27,900 vehicles in each direction. The Laurelton Parkway served 23,400 vehicles entering Nassau and 17,000 entering Queens. The Grand Central Parkway and its service road were used by 20,800 vehicles entering Nassau and 21,300 entering Queens.
- Volumes were heavy crossing the Queens-Nassau screenline throughout the day, with two-way traffic exceeding 40,000 vehicles per hour continuously between 6 am and 9 pm.

New York – New Jersey

- On a fall 2008 weekday, 674,000 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), 1.5% fewer than the 684,200 recorded in fall of 2007.
- Manhattan-New Jersey traffic decreased 1.1% (to 508,300 daily vehicles in 2008 from 514,000 in 2007), while daily volume between Staten Island and New Jersey decreased 2.6% (to 165,800 from 170,200).
- The George Washington Bridge, with a total two-way volume of 293,100 daily vehicles in 2008, continues to be the highest volume crossing by a wide margin. In fall 2008, this facility carried 43% of total New York City-New Jersey traffic, and 58% of the volume between Manhattan and New Jersey. The George Washington Bridge, with eight lanes on the upper level and six lanes on the lower level, is the busiest of all screenline facilities citywide.
- The Lincoln Tunnel accommodated 118,200 daily vehicles in 2008; the Holland Tunnel, 97,100.
- The Outerbridge Crossing was the busiest Staten Island-New Jersey facility, with an average daily volume of 72,900 vehicles in 2008, down 3.8% from 75,800 in 2007. Traffic on the Goethals Bridge decreased 0.2%, to 72,800 daily vehicles in 2008 from 73,000 in 2007. The Bayonne Bridge accommodated 20,100 daily vehicles, a decrease of 6.5% from the 21,500 daily vehicles recorded in 2007.

- Some 19,300 vehicles entered Manhattan from New Jersey during the 6-7 am morning peak hour. The George Washington Bridge was used by 11,100 (57%) of those Manhattan-bound peak hour vehicles.
- During the 6-10 am inbound rush period, Manhattan vehicle entries from New Jersey amounted to 68,900. The George Washington Bridge was the route for 57% of these 6-10 am entries (39,500 vehicles).
- Some 18,600 vehicles departed Manhattan for New Jersey during the 6-7 pm evening peak hour, with the George Washington Bridge accommodating 10,700 (58%) of those departing vehicles.
- During the 3-7 pm evening rush period, 71,900 vehicles crossed the Hudson River from Manhattan to New Jersey. The George Washington Bridge carried 59% of that departing traffic (42,400 vehicles).
- Staten Island-New Jersey traffic is predominantly westbound (to New Jersey) during the morning rush period and eastbound (to Staten Island) during the evening rush.
- Between 6-10 am, 20,800 vehicles crossed from Staten Island to New Jersey. During the same period, 18,400 vehicles entered Staten Island.
- Between 3-7 pm, traffic entering Staten Island from New Jersey amounted to 25,200 vehicles, while traffic bound for New Jersey totaled 20,000.

Brooklyn - Queens

- On a typical 2008 weekday, 590,100 vehicles crossed the fifteen monitored Brooklyn-Queens screenline locations. This was 1.8% fewer than the 601,000 daily vehicles that had been recorded in 2007. Except for the four bridges over Newtown Creek (monitored annually in the *New York City Bridge Traffic Volumes* report), traffic volumes at this screenline were analyzed for the first time in 1993.
- Over two-thirds (70.0%) of the vehicles (413,000 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 Parkway. Some 43.8% (258,800 per day) were crossing Newtown Creek via the Grand Street, Greenpoint Avenue, Kosciuszko, and Pulaski Bridges.
- The highest volume Brooklyn-Queens highway was the Kosciuszko Bridge on the Brooklyn-Queens Expressway, with two-way daily volume of 181,800 vehicles, 30.8% of all traffic on the monitored thoroughfares and 70.3% of Newtown Creek crossings. Shore Parkway was second with 163,400 vehicles per day, 27.7% of the total recorded screenline traffic.
- Shore Parkway, Jackie Robinson Parkway, Linden Boulevard, Pulaski Bridge, Greenpoint Avenue Bridge, and Atlantic Avenue were the busiest of the principal arterials surveyed, with average daily volumes of 163,400, 67,700, 46,700, 37,000, 26,900, and 21,600 vehicles, respectively.
- A total of 19,400 vehicles were recorded entering Brooklyn from Queens during the 7-8 am morning peak hour. The Kosciuszko Bridge and Shore Parkway accommodated 4,800 and 5,200 of those vehicles, respectively.

- Morning traffic to Queens also peaked between 7-8 am, at 16,900 vehicles, including 5,000 on the Kosciuszko Bridge and 4,600 on Shore Parkway.
- During the 6-10 am rush period, 70,500 vehicles were recorded entering Brooklyn, with the Kosciuszko Bridge and Shore Parkway carrying 19,100 and 19,200, respectively. Simultaneously, 63,100 vehicles entered Queens, including 19,200 on the Kosciuszko Bridge and 17,400 on Shore Parkway.
- Evening traffic entering Queens from Brooklyn peaked between 5-6 pm, when 19,400 vehicles were recorded. The Kosciuszko Bridge was the route of 4,900 of those vehicles, while 5,400 used Shore Parkway.
- Evening traffic entering Brooklyn from Queens peaked between 4-5 pm, at 17,200 vehicles. The Kosciuszko Bridge was used by 4,400 of those vehicles, while another 4,700 were on Shore Parkway.
- During the 3-7 pm evening rush period, 75,500 vehicles were recorded entering Queens, while 65,700 were counted in the opposite direction. The Kosciuszko Bridge carried 19,400 to Queens and 17,700 to Brooklyn, while Shore Parkway carried 21,300 to Queens and 17,700 to Brooklyn.

2007 vs. 2008
Screenline Traffic Volume Trends
Both Directions

Page 1 of 2

BRONX-WESTCHESTER	Highway Functional Classification	2007	2008	Percent Change
Boston Road	Principal Arterial	24,350	23,107	- 5.1 %
Broadway	Principal Arterial	15,819	15,386	- 2.7 %
Bronx River Parkway	Principal Arterial	92,004	87,677	- 4.7 %
Henry Hudson Parkway	Principal Arterial	104,325	93,705	-10.2 %
Hutchinson River Parkway	Principal Arterial	89,750	90,973	1.4 %
Major Deegan Expressway	Interstate	115,263	108,757	- 5.6 %
Major Deegan Svce Roads	Principal Arterial	10,760	10,901	1.3 %
New England Thruway	Interstate	137,777	124,472	- 9.7 %
Riverdale Avenue	Principal Arterial	11,741	10,905	- 7.1 %
Van Cortlandt Park East	Minor Arterial	9,925	10,374	4.5 %
Webster Avenue	Local	10,713	9,863	- 7.9 %
White Plains Road	Principal Arterial	13,411	12,478	- 7.0 %
Total Bronx-Westchester Screenline		635,838	598,598	- 5.9 %

QUEENS-NASSAU

Beach Channel Drive	Minor Arterial	28,992	24,352	-16.0 %
Central Avenue	Minor Arterial	13,655	13,854	1.5 %
Grand Central Parkway	Principal Arterial	152,221	148,708	- 2.3 %
Grand Central Parkway Svce Road	Minor Arterial	10,528	9,900	- 6.0 %
Hempstead Avenue	Principal Arterial	46,078	46,615	1.2 %
Hillside Avenue	Principal Arterial	24,328	24,900	2.4 %
Jamaica Avenue	Principal Arterial	29,003	29,074	0.2 %
Laurelton Parkway	Principal Arterial	173,654	159,167	- 8.3 %
Linden Boulevard	Principal Arterial	25,972	24,767	- 4.6 %
Long Island Expressway	Interstate	191,035	221,943	16.2 %
Long Island Exp Svce Roads	Principal Arterial	10,360	8,461	-18.3 %
Merrick Boulevard	Minor Arterial	18,659	19,508	4.6 %
Northern Boulevard	Principal Arterial	39,025	39,483	1.2 %
Rockaway Boulevard	Principal Arterial	77,759	75,460	- 3.0 %
Seagirt Boulevard	Principal Arterial	22,442	19,907	-11.3 %
Sunrise Highway	Principal Arterial	68,898	64,994	- 5.7 %
Union Turnpike	Principal Arterial	19,600	20,412	4.1 %
Total Queens-Nassau Screenline		952,209	951,505	- 0.1 %

2007 vs. 2008
Screenline Traffic Volume Trends
Both Directions

Page 2 of 2

NEW YORK - NEW JERSEY	Highway Functional Classification	2007	2008	Percent Change
George Washington Bridge	Interstate	291,391	293,059	0.6 %
Holland Tunnel	Interstate	100,491	97,057	- 3.4 %
Lincoln Tunnel	Principal Arterial	122,092	118,153	- 3.2 %
Bayonne Bridge	Principal Arterial	21,451	20,058	- 6.5 %
Goethals Bridge	Interstate	72,999	72,834	- 0.2 %
Outerbridge Crossing	Principal Arterial	75,778	72,884	- 3.8 %
Total New York - New Jersey Screenline		684,202	674,045	- 1.5 %

BROOKLYN - QUEENS

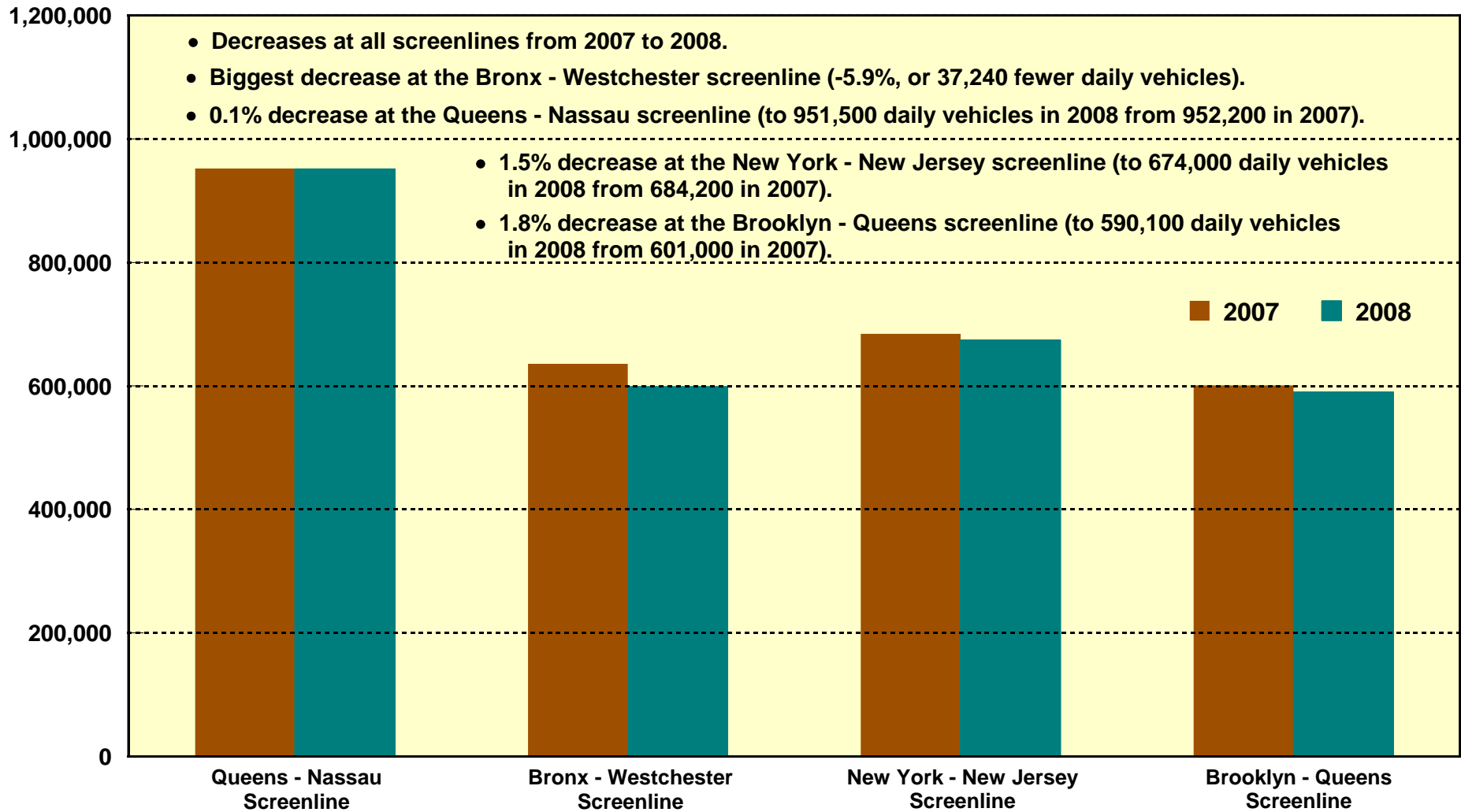
Newtown Creek Bridges				
Grand Street Bridge	Principal Arterial	12,585	13,031	3.5 %
Greenpoint Avenue Bridge	Principal Arterial	27,027	26,926	- 0.4 %
Kosciuszko Bridge	Interstate	186,493	181,783	- 2.5 %
Pulaski Bridge	Principal Arterial	37,221	37,019	- 0.5 %
Subtotal, Newtown Creek Bridges		263,326	258,759	- 1.7 %

Other Facilities

Atlantic Avenue	Principal Arterial	22,246	21,560	- 3.1 %
Cooper Street	Minor Arterial	8,943	9,502	6.3 %
Cornelia Street	Local	1,727	1,753	1.5 %
Decatur Street	Collector	2,059	2,203	7.0 %
DeKalb Avenue	Minor Arterial	5,274	5,402	2.4 %
Greene Avenue	Minor Arterial	1,733	1,883	8.7 %
Jackie Robinson Parkway	Principal Arterial	70,697	67,735	- 4.2 %
Linden Boulevard	Principal Arterial	49,422	46,721	- 5.5 %
Linden Street	Collector	2,012	1,992	- 1.0 %
Shore Parkway	Principal Arterial	164,481	163,439	- 0.6 %
Sutter Avenue	Minor Arterial	9,096	9,182	0.9 %
Subtotal, Other Facilities		337,690	331,372	- 1.9 %

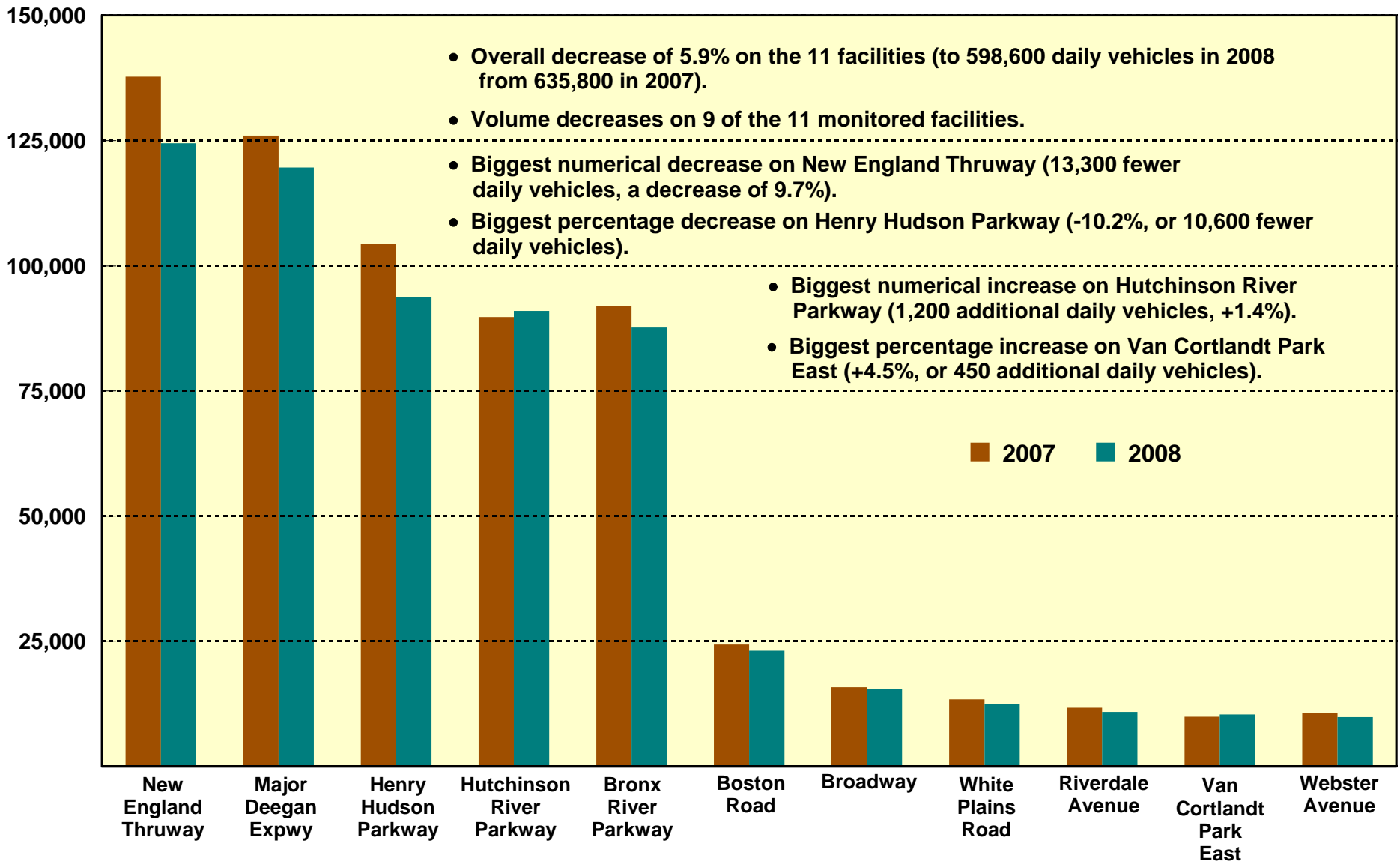
Total Brooklyn - Queens Screenline		601,016	590,131	- 1.8 %
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New York City Screenlines ~ Daily Volumes 2008 vs. 2007



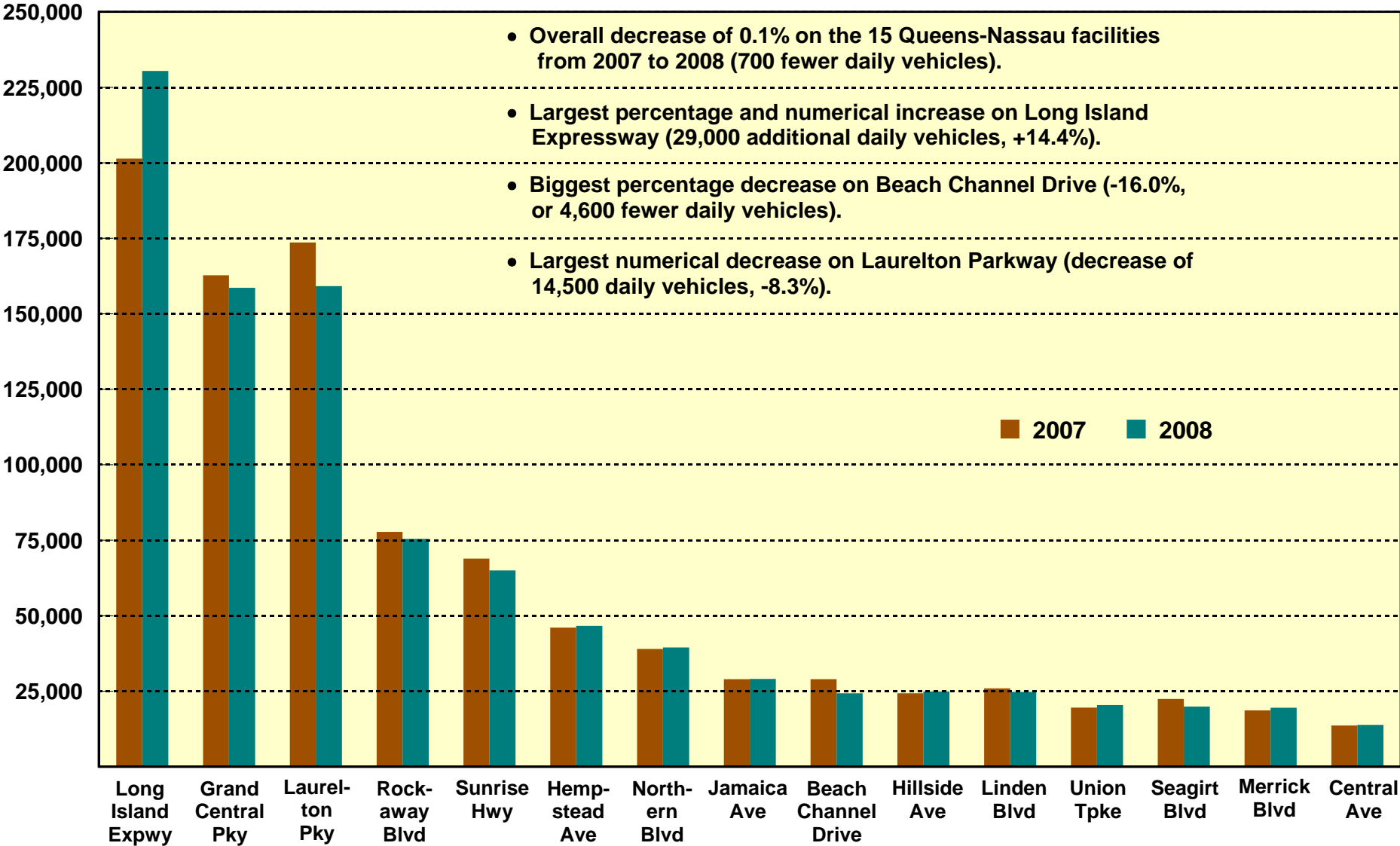
Bronx - Westchester Screenline Daily Volumes

2008 vs. 2007



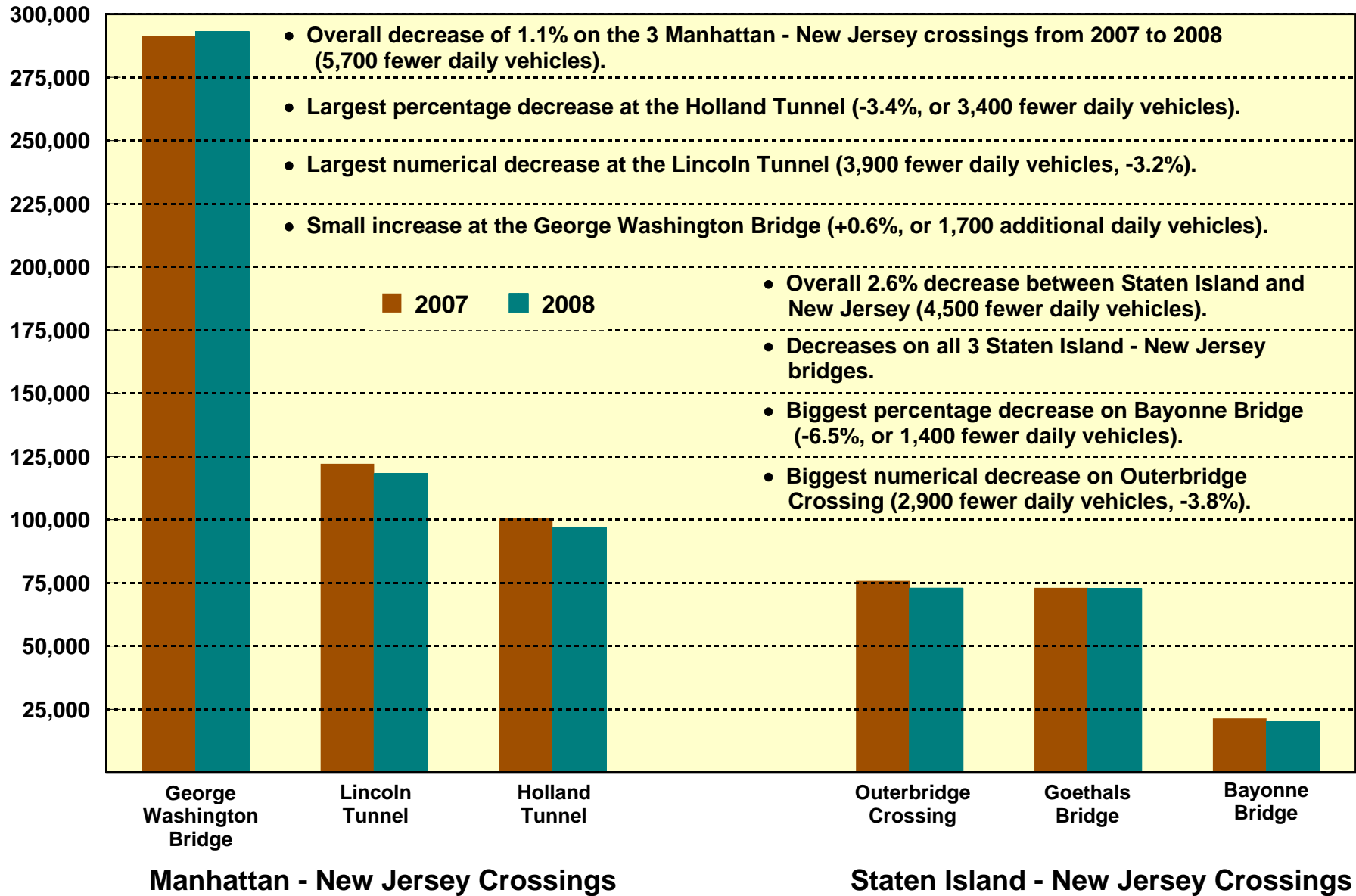
Queens - Nassau Screenline Daily Volumes

2008 vs. 2007



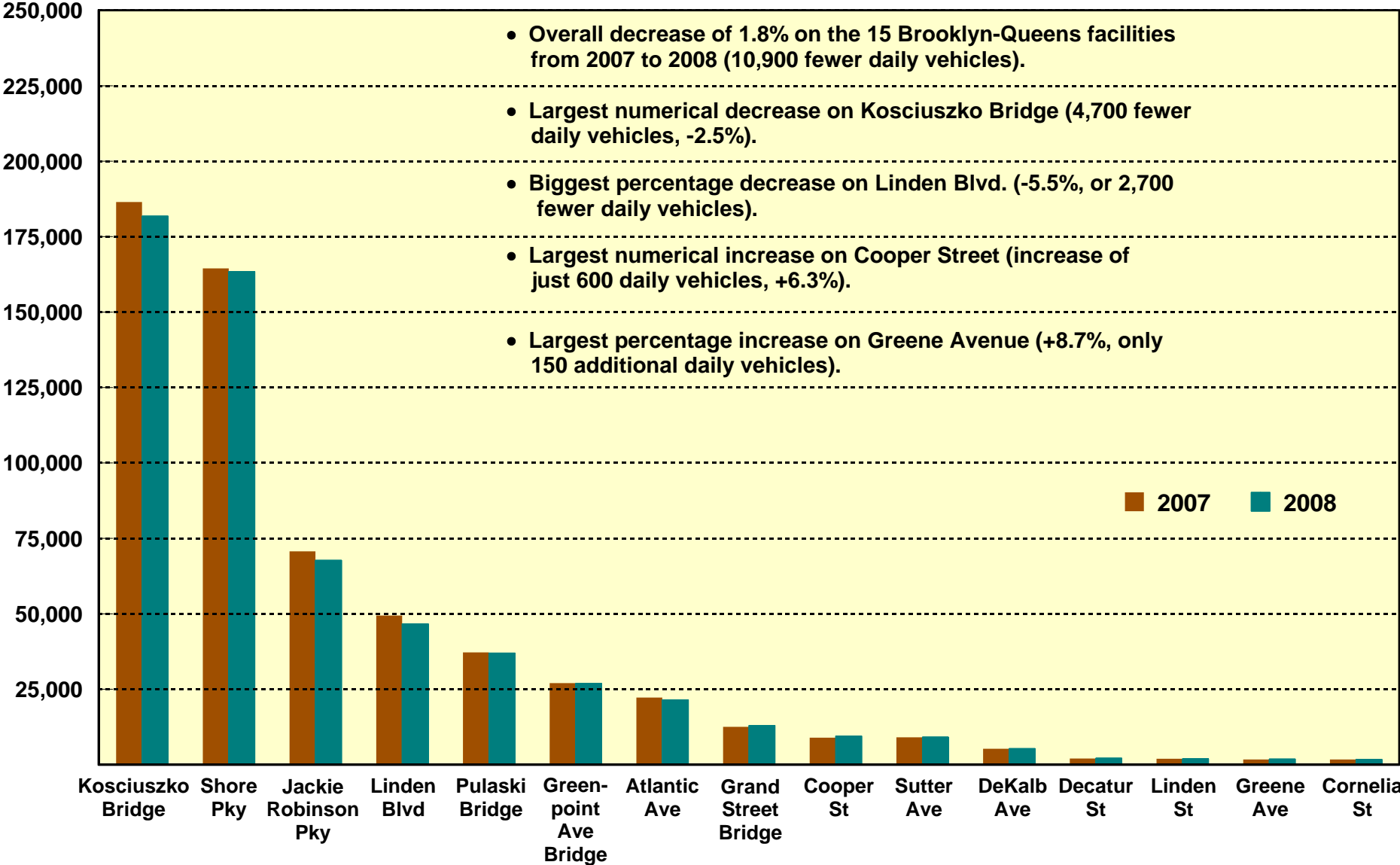
New York - New Jersey Screenline Daily Volumes

2008 vs. 2007



Brooklyn - Queens Screenline Daily Volumes

2008 vs. 2007



10-Year Trends ~ 1998-2008



Grand Central Parkway at the Queens-Nassau Screenline (Looking East).

TEN-YEAR TRENDS: 1998-2008

- Total monitored daily traffic volume at the City boundaries increased 2.8% during this ten-year period, to 2,224,100 in 2008 from 2,164,400 in 1998.

Bronx - Westchester

- The eleven Bronx-Westchester monitoring sites showed the largest overall increase of any screenline, as traffic volume was 5.8% higher in 2008 than in 1998: 598,600 daily vehicles vs. 565,700.
- The largest individual Bronx-Westchester traffic increase occurred on the Henry Hudson Parkway, where traffic volume was 19.3% higher in 2008 than in 1998 (93,700 daily vehicles vs. 78,600). Daily volume on the Hutchinson River Parkway was up 9.9%, to 91,000 in 2008 from 82,800 in 1998.
- The biggest decline occurred on Boston Road, where volume was down 5.1%, to 23,100 daily vehicles in 2008 from 24,400 in 1998.

Queens - Nassau

- Between Queens and Nassau, traffic growth has been moderate during the past ten years. Monitored daily volume rose 3.5% to 951,500 in 2008 from 919,400 in 1998.
- The largest individual Queens-Nassau traffic increase since 1998 occurred on the Long Island Expressway and its service roads: up 14.5% to 230,400 daily vehicles from 201,200. This was followed by Rockaway Boulevard with a growth of 9,300 daily vehicles, to 75,400 from 66,100 (+14.1%).
- The most significant declines in Queens-Nassau traffic occurred on Linden Boulevard, where daily traffic decreased by 13.5%, to 24,800 daily vehicles in 2008 from 28,600 in 1998 (decrease of 3,800 daily vehicles), and on the Grand Central Parkway and its service road where daily traffic decreased to 158,600 from 163,500 (a decrease of 4,900 daily vehicles, or 3.0%).

New York – New Jersey

- Between Manhattan and New Jersey, daily traffic decreased 2.7% during this ten-year period, to 508,300 in 2008 from 522,500 in 1998.
- The steepest decline in Manhattan-New Jersey traffic was at the Lincoln Tunnel, where daily traffic decreased 5.1%, to 118,200 in 2008 from 124,500 in 1998. Traffic using the Holland Tunnel decreased 3.8%, to 97,100 daily vehicles in 2008 from 100,900 in 1998. Daily volume over the George Washington Bridge decreased 1.4%, to 293,100 in 2008 from 297,200 in 1998.
- On the three Staten Island-New Jersey bridges, daily volume increased 5.7%, to 165,800 in 2008 from 156,800 in 1998. Daily traffic on the Bayonne Bridge increased 19.1%, to 20,100 in 2008 from 16,800 in 1998. Traffic using the Goethals Bridge increased 8.6%, to 72,800 in 2008 from 67,100 in 1998.

Brooklyn – Queens

- At the Brooklyn-Queens screenline, traffic increased less than 1%, to 590,100 daily vehicles in 2008 from 586,700 in 1998.
- The largest Brooklyn-Queens volume increase since 1998 occurred on the Shore Parkway (increase of 10.6% to 163,400 daily vehicles from 147,800). This was followed by the Pulaski Bridge over Newtown Creek (increase of 15.0% to 37,000 daily vehicles from 32,200), and the Jackie Robinson Parkway (increase of 6.1%, to 67,700 daily vehicles from 63,800).
- The largest decreases in Brooklyn-Queens traffic occurred on the Kosciuszko Bridge (down 6.9%, to 181,800 in 2008 from 195,200 in 1998), and on Atlantic Avenue (down 24.5%, to 21,600 from 28,500).

10-Year Volume Trends ~ 1998-2008

New York City Screenline Traffic Volumes

Both Directions

Page 1 of 2

BRONX-WESTCHESTER	Highway Functional Classification	1998	2008	Percent Change
Boston Road	Principal Arterial	24,356	23,107	- 5.1 %
Broadway	Principal Arterial	16,513	15,386	- 6.8 %
Bronx River Parkway	Principal Arterial	80,219	87,677	9.3 %
Henry Hudson Parkway	Principal Arterial	78,554	93,705	19.3 %
Hutchinson River Parkway	Principal Arterial	82,788	90,973	9.9 %
Major Deegan Expressway	Interstate	104,230	108,757	4.3 %
Major Deegan Svce Roads	Principal Arterial	10,488	10,901	3.9 %
New England Thruway	Interstate	124,220	124,472	0.2 %
Riverdale Avenue	Principal Arterial	11,650	10,905	- 6.4 %
Van Cortlandt Park East	Minor Arterial	9,471	10,374	9.5 %
Webster Avenue	Local	10,590	9,863	- 6.9 %
White Plains Road	Principal Arterial	12,667	12,478	- 1.5 %
Total Bronx-Westchester Screenline		565,746	598,598	5.8 %

QUEENS-NASSAU

Beach Channel Drive	Minor Arterial	24,242	24,352	0.5 %
Central Avenue	Minor Arterial	13,995	13,854	- 1.0 %
Grand Central Parkway	Principal Arterial	152,835	148,708	- 2.7 %
Grand Central Parkway Svce Road	Minor Arterial	10,657	9,900	- 7.1 %
Hempstead Avenue	Principal Arterial	42,376	46,615	10.0 %
Hillside Avenue	Principal Arterial	26,913	24,900	- 7.5 %
Jamaica Avenue	Principal Arterial	27,213	29,074	6.8 %
Laurelton Parkway	Principal Arterial	159,320	159,167	- 0.1 %
Linden Boulevard	Principal Arterial	28,621	24,767	-13.5 %
Long Island Expressway	Interstate	186,481	221,943	19.0 %
Long Island Exp Svce Roads	Principal Arterial	14,767	8,461	-42.7 %
Merrick Boulevard	Minor Arterial	19,369	19,508	0.7 %
Northern Boulevard	Principal Arterial	41,003	39,483	- 3.7 %
Rockaway Boulevard	Principal Arterial	66,123	75,460	14.1 %
Seagirt Boulevard	Principal Arterial	16,522	19,907	20.5 %
Sunrise Highway	Principal Arterial	66,796	64,994	- 2.7 %
Union Turnpike	Principal Arterial	22,170	20,412	- 7.9 %
Total Queens-Nassau Screenline		919,403	951,505	3.5 %

10-Year Volume Trends ~ 1998-2008

New York City Screenline Traffic Volumes

Both Directions

Page 2 of 2

NEW YORK - NEW JERSEY	Highway Functional Classification	1998	2008	Percent Change
George Washington Bridge	Interstate	297,188	293,059	- 1.4 %
Holland Tunnel	Interstate	100,872	97,057	- 3.8 %
Lincoln Tunnel	Principal Arterial	124,452	118,153	- 5.1 %
Bayonne Bridge	Principal Arterial	16,846	20,058	19.1 %
Goethals Bridge	Interstate	67,076	72,834	8.6 %
Outerbridge Crossing	Principal Arterial	72,864	72,884	0.0 %
Total New York - New Jersey Screenline		679,298	674,045	- 0.8 %

BROOKLYN - QUEENS

Newtown Creek Bridges				
Grand Street Bridge	Principal Arterial	15,328	13,031	-15.0 %
Greenpoint Avenue Bridge	Principal Arterial	25,604	26,926	5.2 %
Kosciuszko Bridge	Interstate	195,192	181,783	- 6.9 %
Pulaski Bridge	Principal Arterial	32,200	37,019	15.0 %
Subtotal, Newtown Creek Bridges		268,324	258,759	- 3.6 %

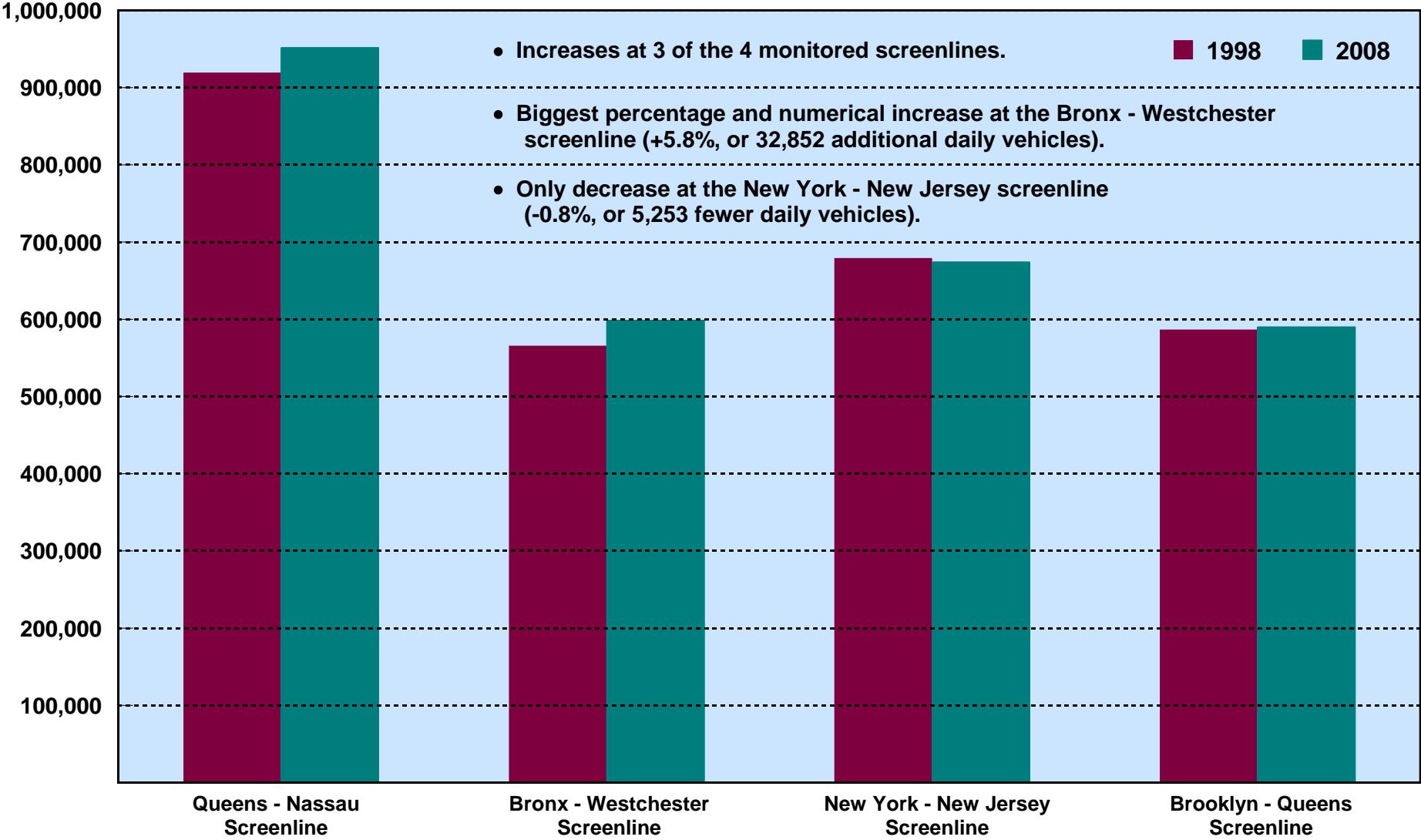
Other Facilities

Atlantic Avenue	Principal Arterial	28,546	21,560	-24.5 %
Cooper Street	Minor Arterial	9,058	9,502	4.9 %
Cornelia Street	Local	1,454	1,753	20.6 %
Decatur Street	Collector	2,242	2,203	- 1.7 %
DeKalb Avenue	Minor Arterial	4,599	5,402	17.5 %
Greene Avenue	Minor Arterial	2,223	1,883	-15.3 %
Jackie Robinson Parkway	Principal Arterial	63,828	67,735	6.1 %
Linden Boulevard	Principal Arterial	48,682	46,721	- 4.0 %
Linden Street	Collector	2,420	1,992	-17.7 %
Shore Parkway	Principal Arterial	147,839	163,439	10.6 %
Sutter Avenue	Minor Arterial	7,509	9,182	22.3 %
Subtotal, Other Facilities		318,400	331,372	4.1 %

Total Brooklyn - Queens Screenline		586,724	590,131	0.6 %
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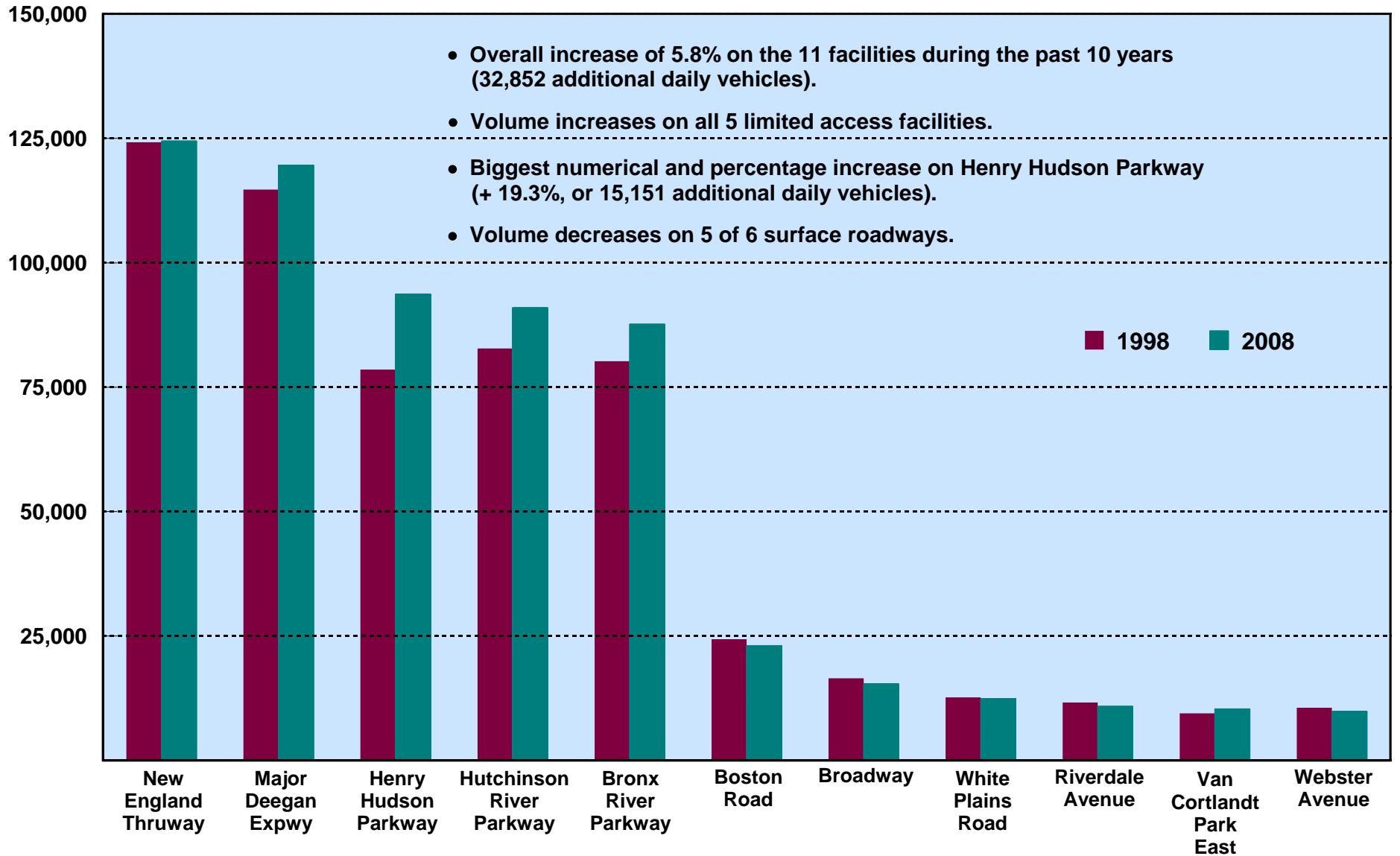
10-Year Volume Changes ~ 1998 - 2008

New York City Screenlines Daily Volumes



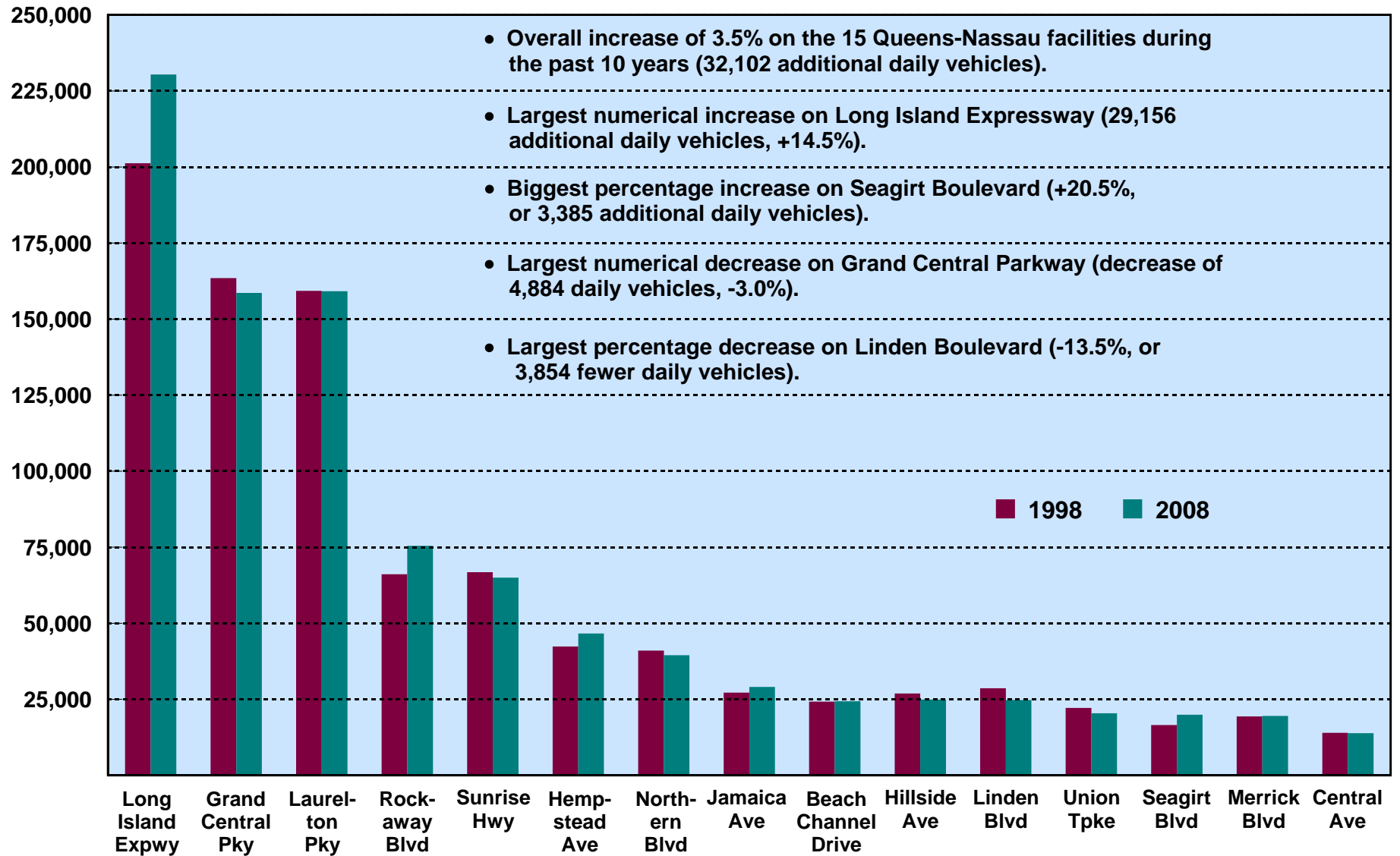
10-Year Volume Changes ~ 1998 - 2008

Bronx - Westchester Screenline Daily Volumes



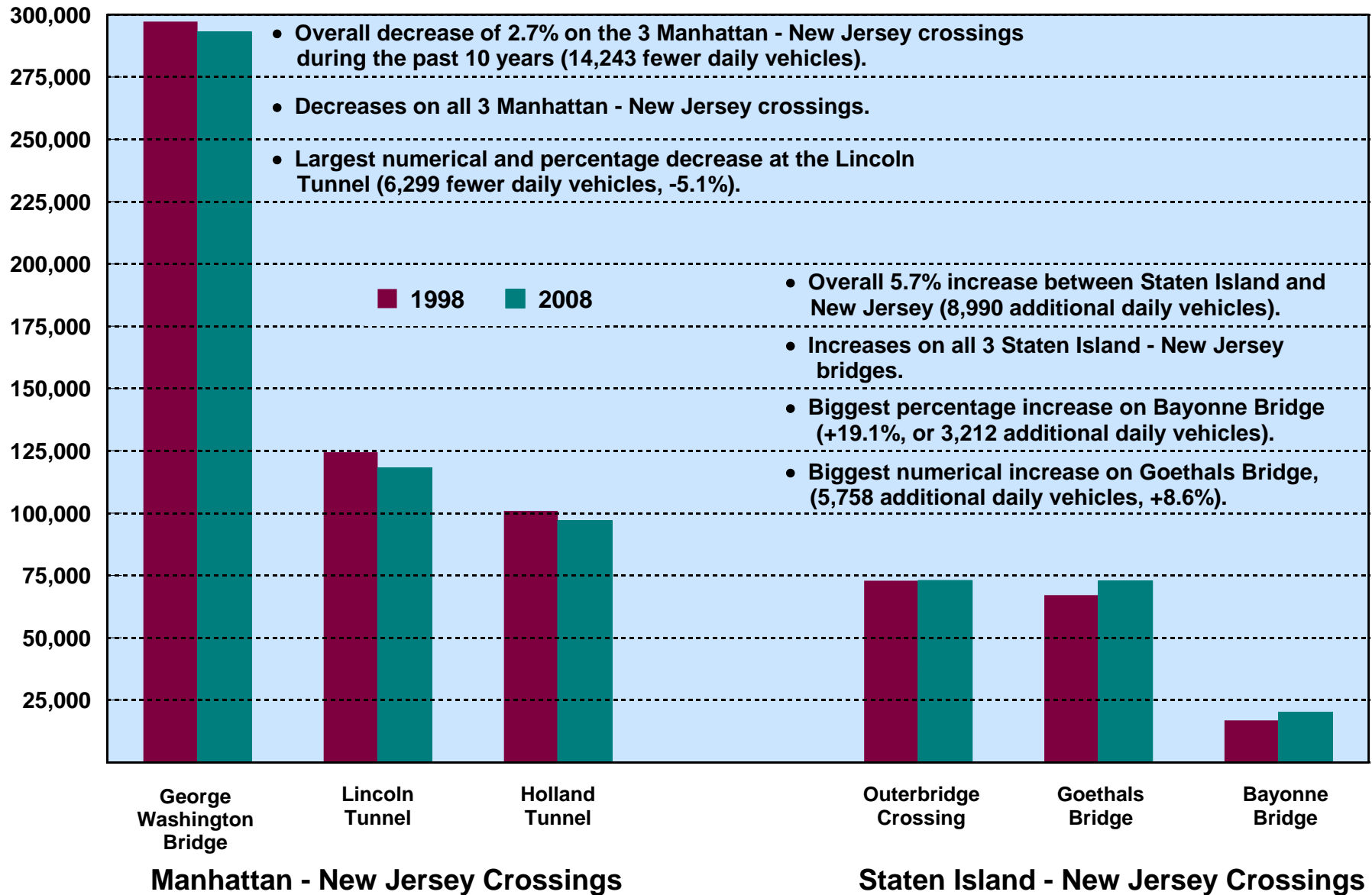
10-Year Volume Changes ~ 1998 - 2008

Queens - Nassau Screenline Daily Volumes



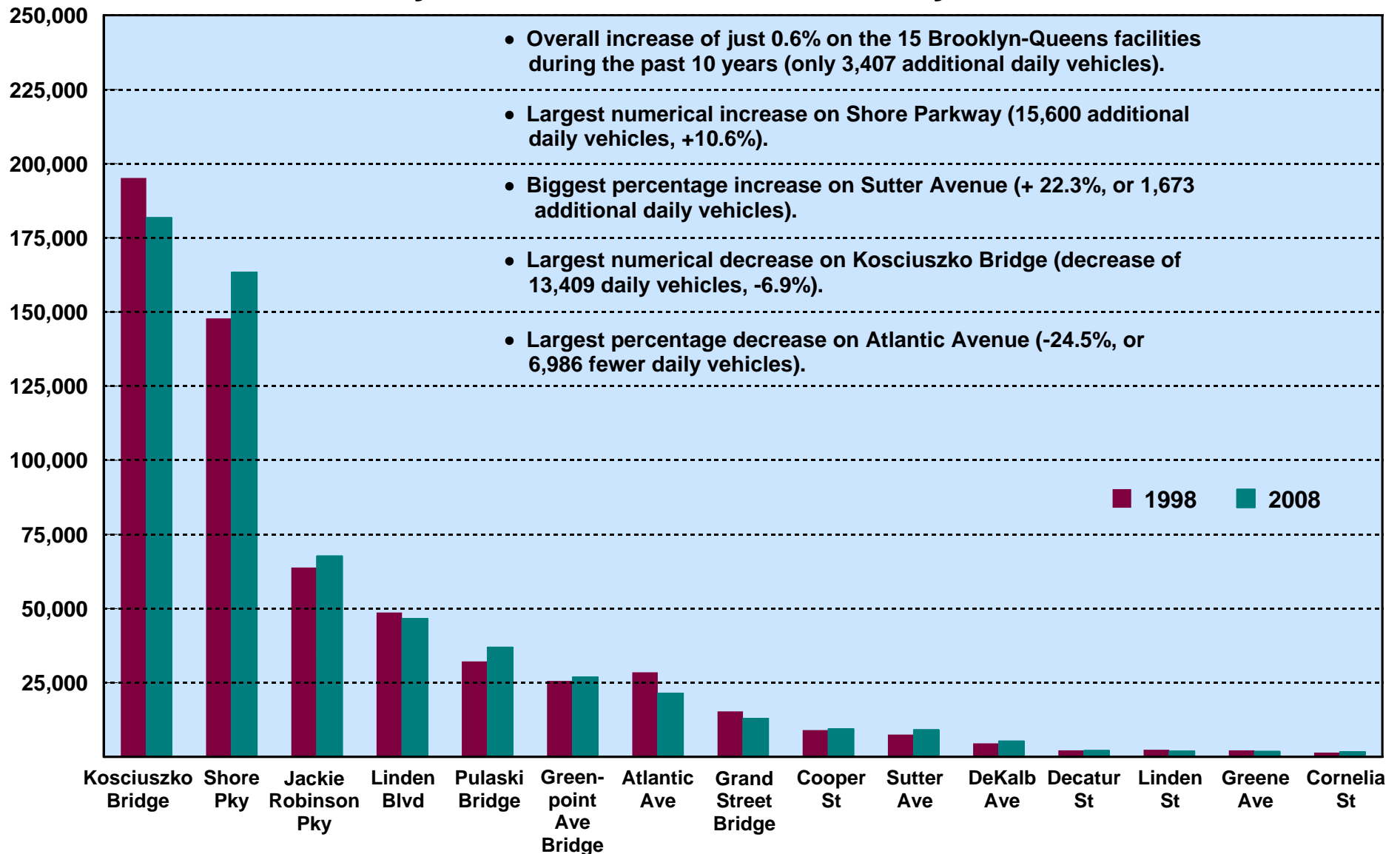
10-Year Volume Changes ~ 1998 - 2008

New York - New Jersey Screenline Daily Volumes



10-Year Volume Changes ~ 1998 - 2008

Brooklyn - Queens Screenline Daily Volumes



New York City Screenline



Boston Road at the New York City – Westchester County 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 1,109,200 (volumes on Van Cortlandt Park East in The Bronx, and Central Avenue and Seagirt Boulevard in Queens were not collected prior to 1986). The 546,600 daily vehicles recorded at the Queens–Nassau border accounted for 49.3% of the total.

During the ten years between 1963 and 1973, volume recorded at the City borders rose 36.2% to an average of 1,510,700 vehicles per day (401,500 additional vehicles), with increases exceeding 20% at all border screenlines. Daily volume on the three Staten Island–New Jersey bridges nearly tripled to 81,000 from 27,400. The largest numerical increase was at the Manhattan–New Jersey screenline, where daily volume rose to 397,200 vehicles from 265,600, an increase of 49.5%. Bronx–Westchester traffic rose 34.1% to 361,700 from 269,700, while traffic between Queens and Nassau was up 22.7% to 670,700 from 546,600.

Growth subsided between 1973 and 1982, with volume recorded at the City borders rising 10.4% during the nine-year period, to 1,667,300 daily vehicles. Traffic continued to increase at all City boundaries: Staten Island–New Jersey up 31.6% to 106,700, Bronx–Westchester up 14.4% to 413,800, Manhattan–New Jersey up 9.2% to 433,700, and Queens–Nassau up 6.3% to 713,100.

Between 1982 and 1986, there was increased growth, as monitored traffic at the City borders increased 14.8% during the four-year period, to 1,914,800 daily vehicles (excluding Van Cortlandt Park East in The Bronx, and Central Avenue and Seagirt Boulevard in Queens where traffic was not counted in 1982). Daily volume was up 29.8% to 138,400 on the Staten Island–New Jersey bridges, up 14.6% to 474,000 at the Bronx–Westchester border, up 14.5% to 816,600 between Queens and Nassau, and up 12.0% to 485,800 crossing the Hudson River between Manhattan and New Jersey.

From 1986 to 1998, monitored traffic at the New York City boundaries increased modestly, rising by 10.9% during that twelve-year period, to 2,164,400 daily vehicles in 1998 from 1,951,000 in 1986. The largest volume and percentage increase was at the Bronx–Westchester screenline, where daily volume was up 17.1%, to 565,700 in 1998 from 483,300 in 1986 (+82,400 daily vehicles). Daily traffic volume between Queens and Nassau increased 9.0%, to 919,400 in 1998 from 843,500 in 1986. Staten Island–New Jersey daily volume rose 13.3%, to 156,800 from 138,400. Daily traffic between Manhattan and New Jersey increased 7.6%, to 522,500 from 485,800.

From 1963 to 2008, daily two-way traffic at the 29 City border locations monitored throughout the period nearly doubled, to 2,180,000 in 2008 from 1,109,200 in 1963.

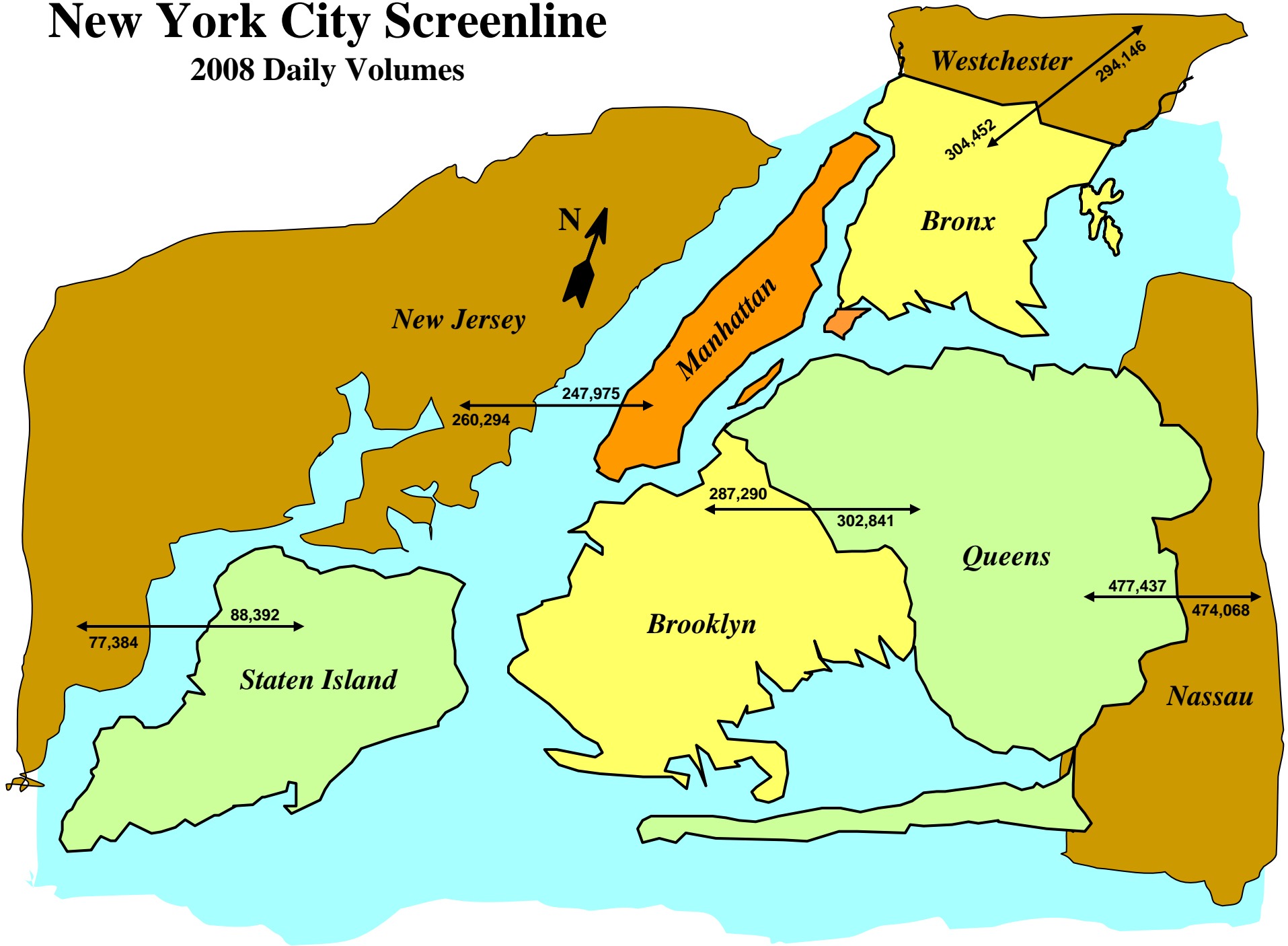
Staten Island–New Jersey traffic expanded by 505%, to 165,800 daily vehicles in 2008 from 27,400 in 1963, largely as a result of the opening of the Verrazano–Narrows Bridge in 1964.

Manhattan–New Jersey volume increased 91%, to 508,300 in 2008 from 265,600 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 167,300 daily vehicles from 111,100.

During the 45-year period from 1963 to 2008, continuously monitored daily traffic increased 118% between The Bronx and Westchester (to 588,200 from 269,700), and 68% between Queens and Nassau (to 917,700 from 546,600).

New York City Screenline

2008 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
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
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
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
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
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

Entering New York City

	2001	2002	2003	2004	2005	2006	2007	2008
Bronx - Westchester	308,307	314,460	315,038	320,086	323,025	314,134	325,814	304,452
Queens - Nassau	473,363	468,813	485,332	480,260	473,349	462,916	469,587	477,437
N.J. - Manhattan	222,389	254,895	260,117	262,050	256,289	261,612	258,412	247,975
N.J. - Staten Island	94,413	90,510	92,108	90,852	89,928	91,340	92,438	88,392
Totals	1,098,472	1,128,678	1,152,595	1,153,248	1,142,591	1,130,002	1,146,251	1,118,256

**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
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
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
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
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
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

Leaving New York City

	2001	2002	2003	2004	2005	2006	2007	2008
Bronx - Westchester	298,359	305,478	304,411	307,208	310,325	310,424	310,024	294,146
Queens - Nassau	473,364	475,193	483,362	485,345	485,740	471,633	482,622	474,068
N.J. - Manhattan	236,555	277,944	287,332	274,346	271,428	276,136	255,562	260,294
N.J. - Staten Island	82,838	88,630	82,474	83,416	81,725	84,574	77,790	77,384
Totals	1,091,116	1,147,245	1,157,579	1,150,315	1,149,218	1,142,767	1,125,998	1,105,892

* 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
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
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
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
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
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

Both Directions

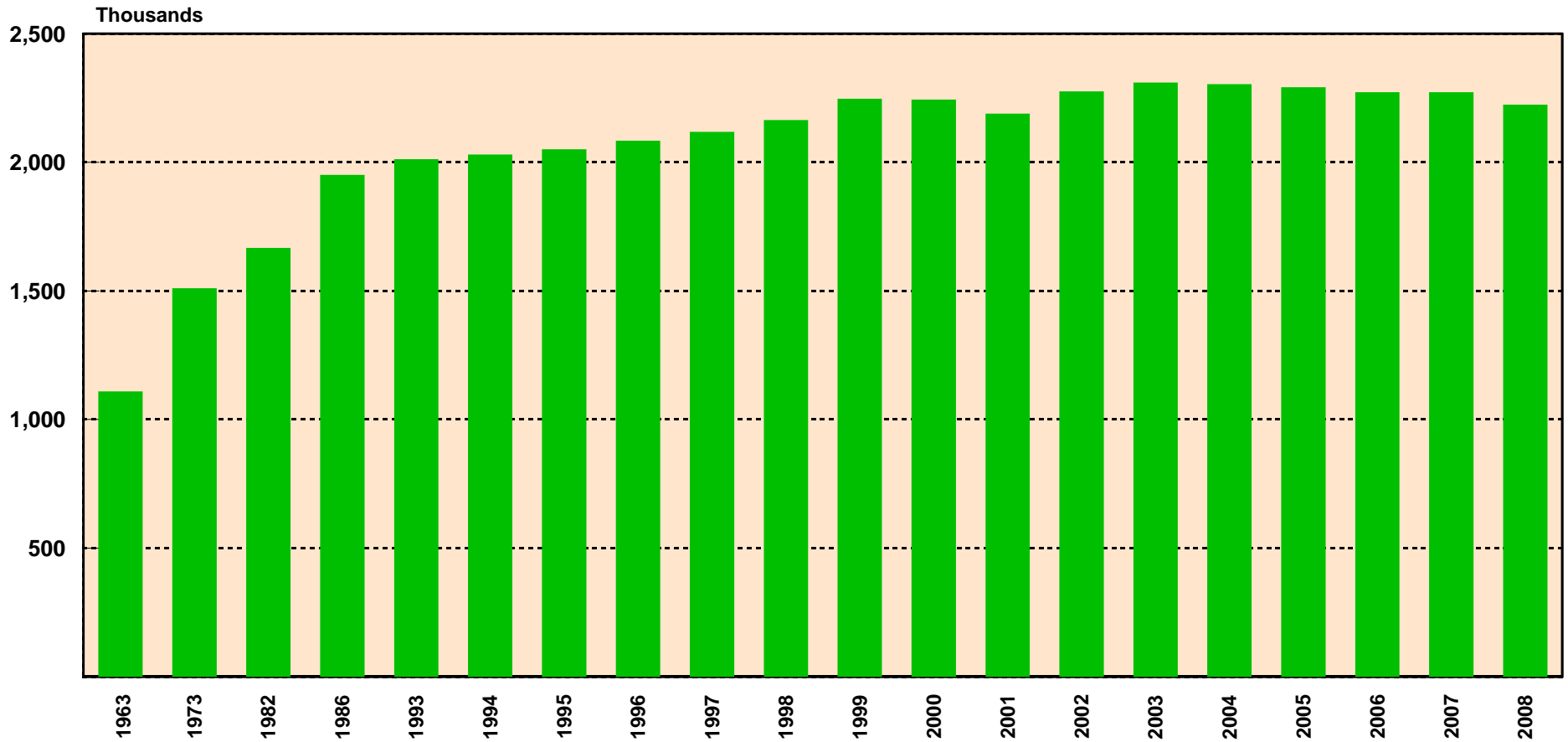
	2001	2002	2003	2004	2005	2006	2007	2008
Bronx - Westchester	606,666	619,938	619,449	627,294	633,350	624,558	635,838	598,598
Queens - Nassau	946,727	944,006	968,694	965,605	959,089	934,549	952,209	951,505
N.J. - Manhattan	458,944	532,839	547,449	536,396	527,717	537,748	513,974	508,269
N.J. - Staten Island	177,251	179,140	174,582	174,268	171,653	175,914	170,228	165,776
Totals	2,189,588	2,275,923	2,310,174	2,303,563	2,291,809	2,272,769	2,272,249	2,224,148

* 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

Average Daily Traffic Volumes



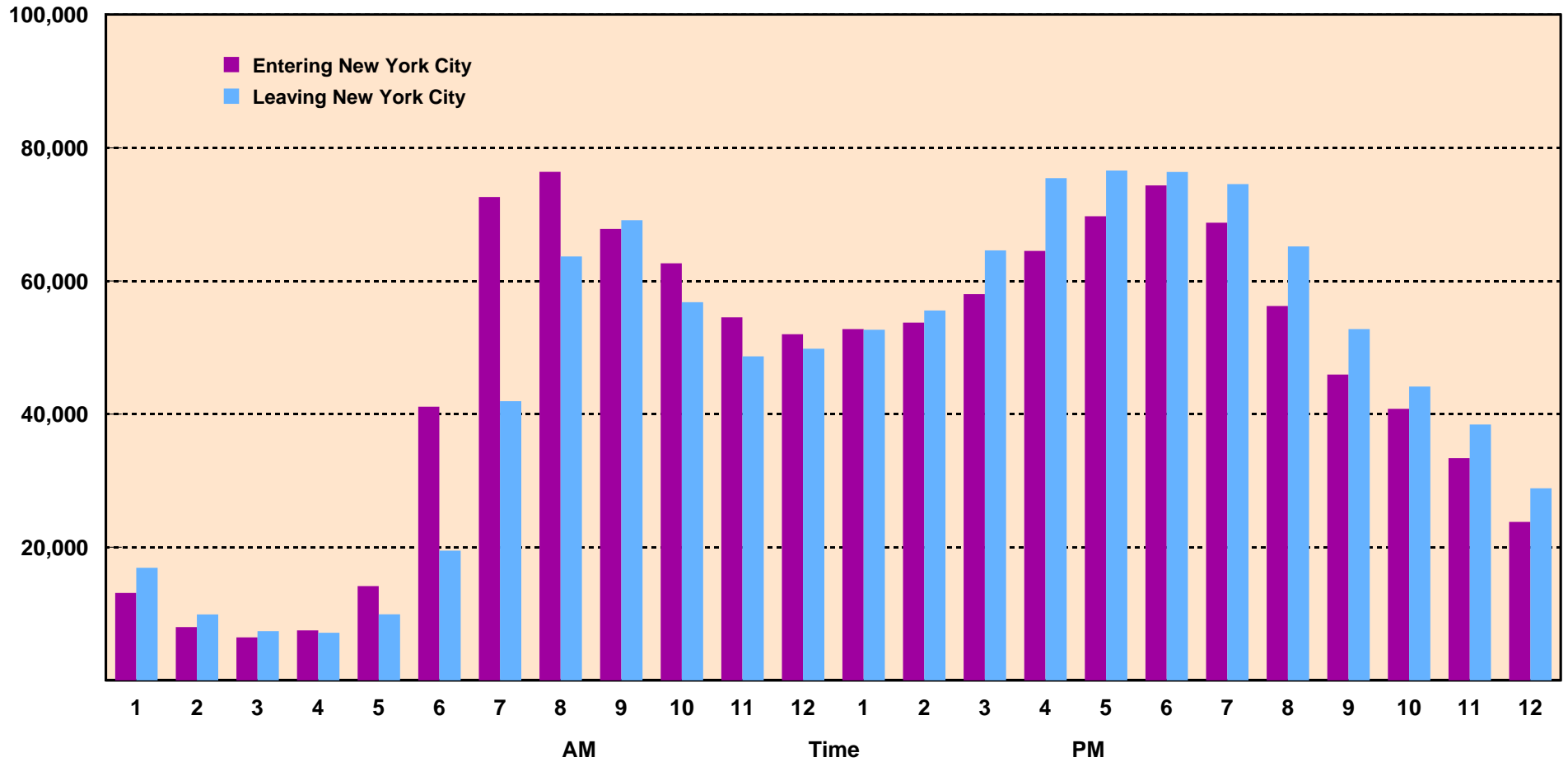
Includes Bronx-Westchester, Queens-Nassau, and New York-New Jersey Screenlines

2008 Screenline Volumes New York City

	<i>New York-New Jersey</i>								NYC Totals	
	<i>Bronx-Westchester</i>		<i>Queens-Nassau</i>		<i>Manhattan</i>		<i>Staten Island</i>		<i>To N.Y.C.</i>	<i>From N.Y.C.</i>
	<i>To Bronx</i>	<i>To W'chstr</i>	<i>To Qns.</i>	<i>To Nas.</i>	<i>To Manh.</i>	<i>To N.J.</i>	<i>To S.I.</i>	<i>To N.J.</i>		
Mid-1am	3,473	4,360	4,928	6,355	3,519	5,302	1,199	884	13,119	16,901
1-2am	2,197	2,758	2,782	3,426	2,255	3,199	754	516	7,988	9,899
2-3am	1,833	2,013	2,163	2,479	1,824	2,485	640	412	6,460	7,389
3-4am	1,776	2,075	2,931	2,187	2,105	2,461	679	432	7,491	7,155
4-5am	3,313	2,759	6,003	3,231	3,608	3,284	1,225	655	14,149	9,929
5-6am	8,485	5,421	18,503	7,498	11,029	5,093	3,086	1,462	41,103	19,474
6-7am	18,827	12,122	29,832	17,836	19,261	8,664	4,691	3,302	72,611	41,924
7-8am	23,192	18,231	30,670	28,056	17,725	11,609	4,799	5,794	76,386	63,690
8-9am	19,761	18,675	27,287	31,357	16,273	12,540	4,487	6,560	67,808	69,132
9-10am	16,547	14,272	26,075	26,172	15,605	11,168	4,414	5,189	62,641	56,801
10-11am	14,228	12,733	23,192	22,216	13,105	9,947	4,003	3,766	54,528	48,662
11-Noon	13,927	13,088	22,468	22,293	11,743	10,530	3,874	3,904	52,012	49,815
Noon-1	14,267	13,674	23,409	23,527	11,041	11,602	4,046	3,880	52,763	52,683
1-2pm	14,563	14,538	23,705	25,224	11,035	12,013	4,439	3,797	53,742	55,572
2-3pm	16,155	16,779	25,120	29,172	11,748	14,470	4,981	4,176	58,004	64,597
3-4pm	18,316	20,480	27,711	32,930	12,933	16,947	5,546	5,069	64,506	75,426
4-5pm	19,553	20,565	30,455	32,603	13,371	18,152	6,343	5,257	69,722	76,577
5-6pm	21,424	21,004	32,616	32,145	13,296	18,203	7,024	5,019	74,360	76,371
6-7pm	19,733	19,416	29,396	31,977	13,302	18,558	6,317	4,607	68,748	74,558
7-8pm	15,356	16,351	24,307	28,119	11,809	16,771	4,755	3,946	56,227	65,187
8-9pm	12,301	13,241	20,569	22,058	9,426	14,482	3,641	2,976	45,937	52,757
9-10pm	10,504	11,807	18,628	17,635	8,529	12,355	3,115	2,329	40,776	44,126
10-11pm	8,533	10,280	14,694	14,880	7,648	11,297	2,502	1,969	33,377	38,426
11-Mid	6,188	7,504	9,993	10,692	5,785	9,162	1,832	1,483	23,798	28,841
24 hr Total	304,452	294,146	477,437	474,068	247,975	260,294	88,392	77,384	1,118,256	1,105,892
6-10am	78,327	63,300	113,864	103,421	68,864	43,981	18,391	20,845	279,446	231,547
10am-1pm	42,422	39,495	69,069	68,036	35,889	32,079	11,923	11,550	159,303	151,160
1-3pm	30,718	31,317	48,825	54,396	22,783	26,483	9,420	7,973	111,746	120,169
3-7pm	79,026	81,465	120,178	129,655	52,902	71,860	25,230	19,952	277,336	302,932
6am-7pm	230,493	215,577	351,936	355,508	180,438	174,403	64,964	60,320	827,831	805,808

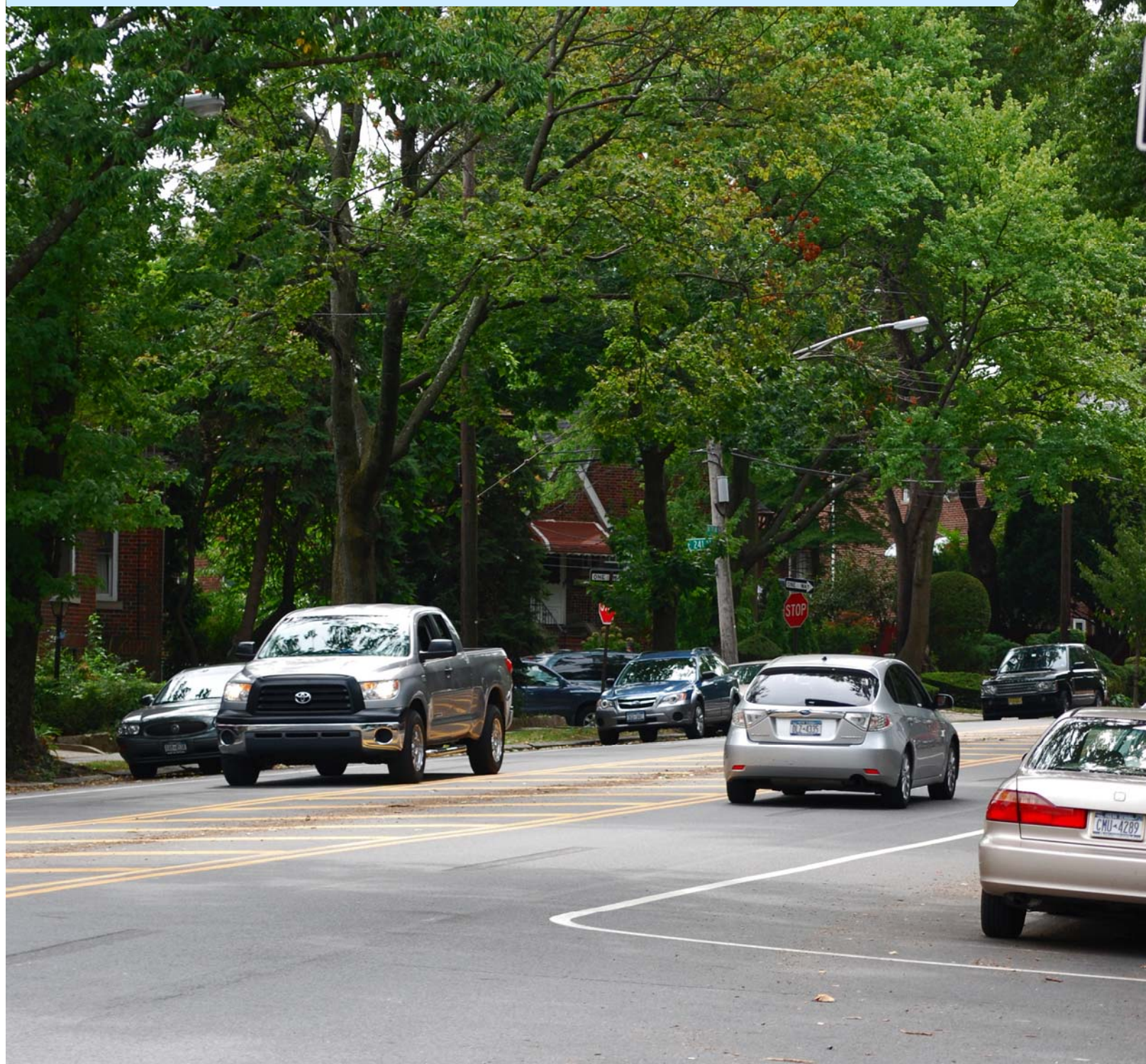
New York City Border Screenlines

Total Hourly Vehicle Volumes - 2008



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

Bronx – Westchester Screenline



Van Cortlandt Park East at the 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 269,700 (volumes on Van Cortlandt Park East were not collected prior to 1986). The Major Deegan Expressway and the New England Thruway were the most-traveled facilities, serving 68,300 and 56,100 vehicles per day, respectively.

By 1973, daily volume had risen 34.1% to 361,700, some 92,000 more than in 1963. The Major Deegan Expressway remained the highest volume facility, carrying 90,900 daily vehicles, 33.2% more than in 1963, followed by 82,600 on the New England Thruway, 47.4% above the 1963 count. Daily traffic on the Hutchinson River Parkway jumped 80.1% to 29,100 from 16,200. Traffic on Boston Road doubled, to 22,800 daily vehicles from 11,000.

Between 1973 and 1982, growth moderated, with average daily traffic rising 14.4% to 413,800 daily vehicles. The largest increase occurred on the Hutchinson River Parkway, where daily traffic rose 65.9% to 48,300 from 29,100.

Growth accelerated between 1982 and 1986, boosting Bronx-Westchester traffic to 474,000 daily vehicles, an increase of 14.6% over the four-year period (excluding 9,200 on Van Cortlandt Park East where traffic was not counted in 1982). Large increases in daily volumes were recorded on the Henry Hudson Parkway (up 27.5% to 53,300 from 41,800), the Major Deegan Expressway (up 27.0% to 124,900 from 98,300), and the Bronx River Parkway (up 20.3% to 79,200 from 65,800).

From 1986 to 1998, Bronx-Westchester screenline traffic volume increased 17.1%, to 565,700 from 483,300 (including Van Cortlandt Park East, where traffic was counted for the first time in 1986). The largest increases occurred on the Hutchinson River Parkway (up 52.5%, to 82,800 daily vehicles from 54,300), on the Henry Hudson Parkway (up 47.5%, to 78,600 from 53,300), and on the New England Thruway (up 33.8%, to 124,200 from 92,900). Daily volume on Boston Road increased 18.4%, to 24,400 in 1998 from 20,600 in 1986. The only significant decline was on the Major Deegan Expressway, where daily volume decreased 8.1%, to 114,700 in 1998 from 124,900 in 1986.

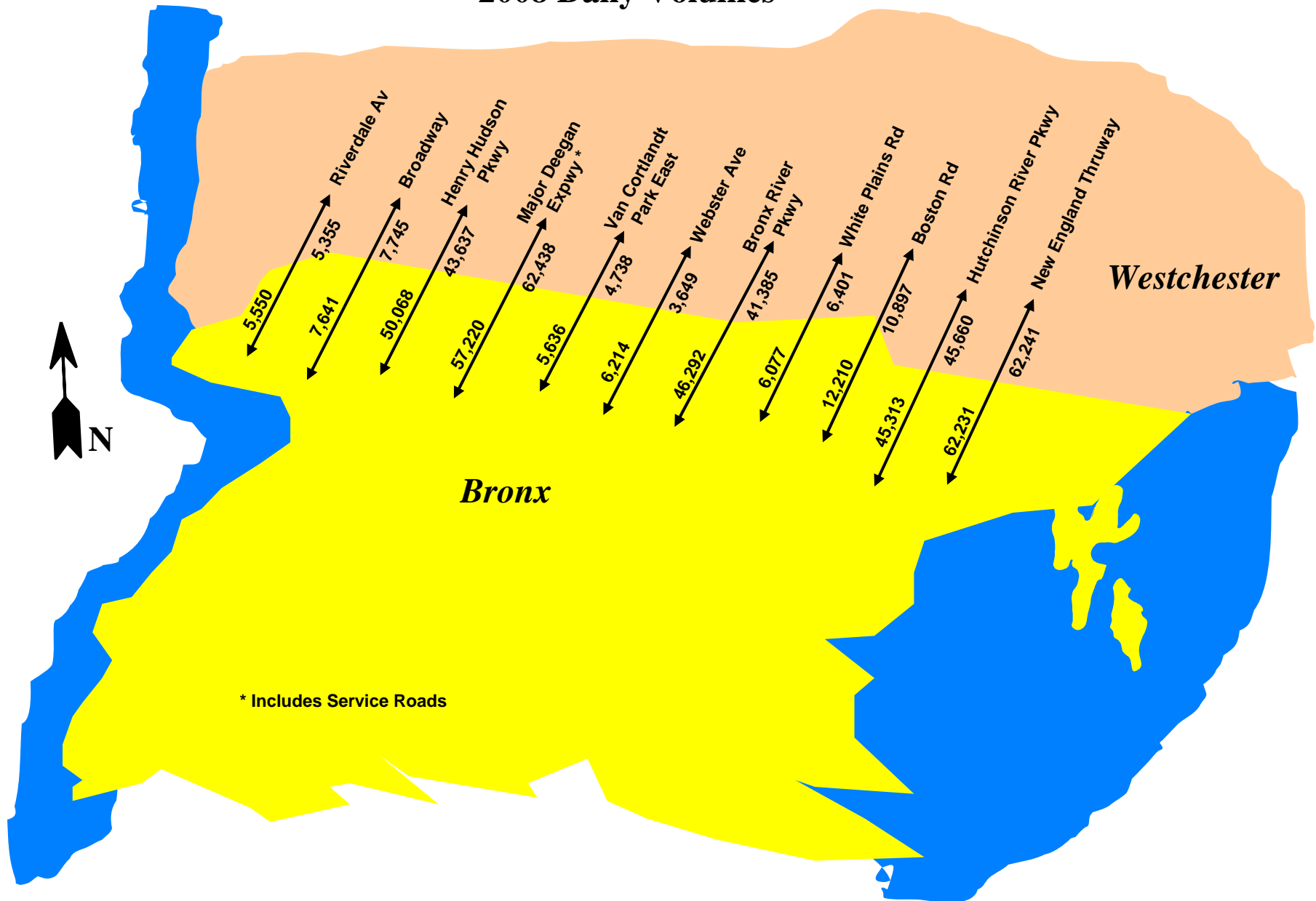
During the 45 years from 1963 to 2008, total daily traffic on the ten facilities monitored throughout the period more than doubled, to 588,200 from 269,700.

Most of the growth in Bronx-Westchester traffic since 1963 has occurred on the five limited access highways crossing the screenline. Of the 318,600 additional daily vehicles on the ten continuously-monitored facilities, 302,900 (95% of the total increase) are on the limited access highways. The fastest growth occurred on the Hutchinson River Parkway, where daily volume soared 463%, to 91,000 daily vehicles from 16,200. Henry Hudson Parkway volume more than tripled, to 93,700 from 29,000. New England Thruway volume climbed 122%, to 124,500 from 56,100. On the Bronx River Parkway, volume nearly doubled (to 87,700 from 44,100), while volume on the Major Deegan Expressway and its service roads was up 75% (to 119,700 from 68,300).

Boston Road exhibited the largest change of any arterial facility since 1963, with daily volume rising 110%, to 23,100 from 11,000. Volume on White Plains Road increased 36% to 12,500 daily vehicles from 9,200.

Bronx - Westchester Screenline

2008 Daily Volumes



* Includes Service Roads

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

To Bronx

	1963	1973	1982	1986	1993	1994	1995	1996	1997	1998	1999	2000
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
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
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
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
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
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
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
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
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
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
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
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

To Bronx

	2001	2002	2003	2004	2005	2006	2007	2008
Boston Rd	13,262	12,997	13,839	13,016	12,370	12,537	12,418	12,210
Broadway	8,143	7,989	8,117	8,125	8,196	8,327	7,971	7,641
Bronx River Pky	46,681	49,382	47,061	47,666	48,587	47,918	47,563	46,292
Henry Hudson Pky	51,091	52,378	51,151	51,983	54,310	52,413	55,925	50,068
Hutchinson River Pky	44,624	46,446	44,690	48,534	46,537	42,783	47,698	45,313
Major Deegan Exp *	54,052	56,811	59,430	58,735	58,734	59,856	61,525	57,220
New England Thruway	66,091	64,042	66,454	66,869	68,815	65,776	68,247	62,231
Riverdale Ave	5,816	5,643	5,490	6,098	6,167	5,965	6,160	5,550
Van Cortlandt Pk E	5,399	5,816	5,874	6,193	5,952	6,012	5,388	5,636
Webster Ave	6,605	6,736	6,804	6,885	7,003	6,634	6,412	6,214
White Plains Rd	6,543	6,220	6,128	5,982	6,354	5,913	6,507	6,077
Totals	308,307	314,460	315,038	320,086	323,025	314,134	325,814	304,452

* 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
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
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
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
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
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
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
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
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
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
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
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
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

To Westchester

	2001	2002	2003	2004	2005	2006	2007	2008
Boston Rd	12,825	12,296	13,198	11,596	12,099	11,866	11,932	10,897
Broadway	8,152	8,005	8,353	7,778	8,256	7,611	7,848	7,745
Bronx River Pky	42,812	45,596	43,908	46,473	45,883	44,205	44,441	41,385
Henry Hudson Pky	44,236	45,624	47,583	46,067	46,797	46,931	48,400	43,637
Hutchinson River Pky	44,027	47,490	44,858	47,731	45,718	45,662	42,052	45,660
Major Deegan Exp *	62,772	62,022	64,285	63,451	62,823	64,320	64,498	62,438
New England Thruway	61,554	62,469	61,103	63,168	67,393	69,383	69,530	62,241
Riverdale Ave	6,143	5,187	5,464	5,261	5,636	5,505	5,581	5,355
Van Cortlandt Pk E	4,961	4,801	4,625	4,577	4,779	4,663	4,537	4,738
Webster Ave	4,236	4,811	4,630	4,523	4,321	3,901	4,301	3,649
White Plains Rd	6,641	7,177	6,404	6,583	6,620	6,377	6,904	6,401
Totals	298,359	305,478	304,411	307,208	310,325	310,424	310,024	294,146

* 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
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
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
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
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
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
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
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
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
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
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
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
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

Both Directions

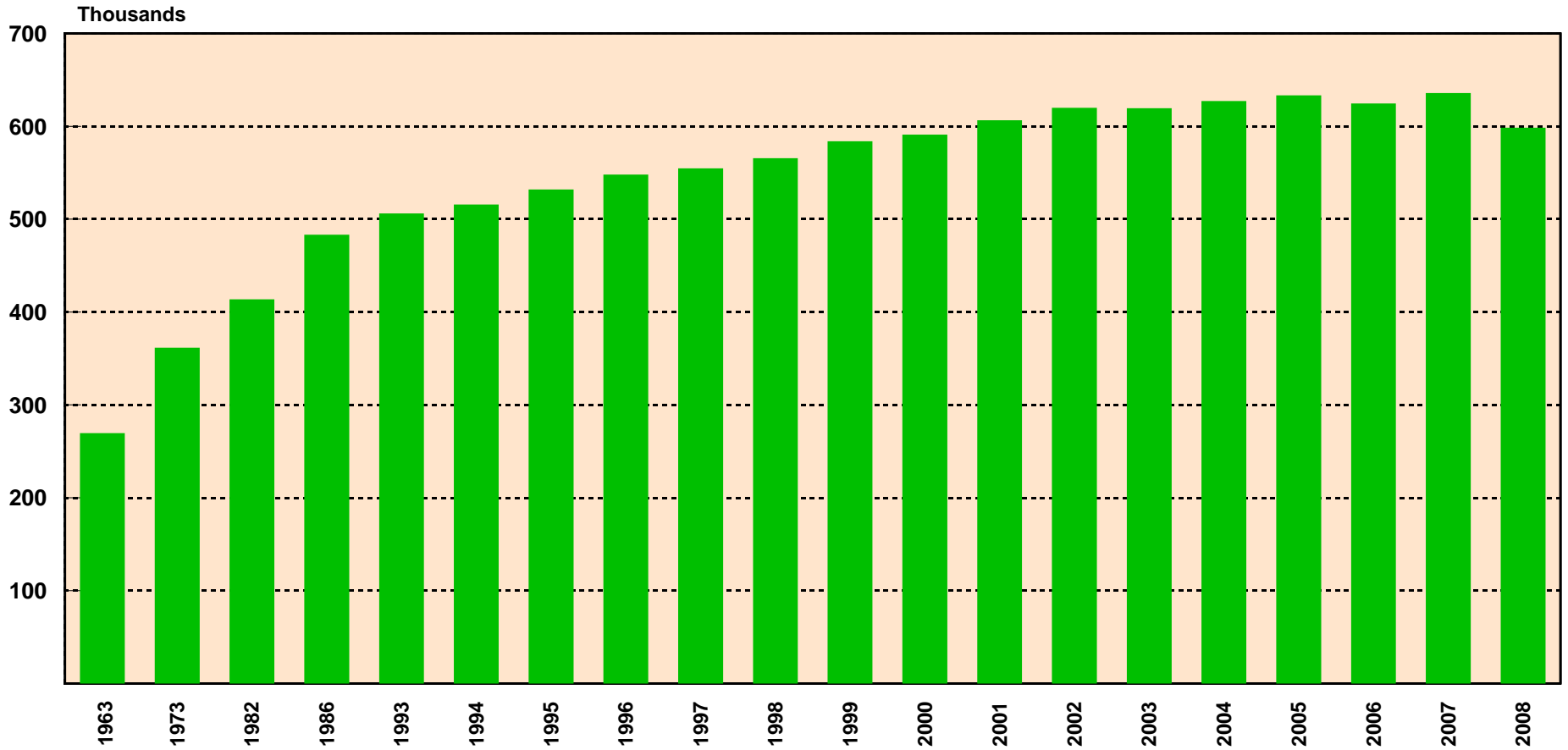
	2001	2002	2003	2004	2005	2006	2007	2008
Boston Rd	26,087	25,293	27,037	24,612	24,469	24,403	24,350	23,107
Broadway	16,295	15,994	16,470	15,903	16,452	15,938	15,819	15,386
Bronx River Pky	89,493	94,978	90,969	94,139	94,470	92,123	92,004	87,677
Henry Hudson Pky	95,327	98,002	98,734	98,050	101,107	99,344	104,325	93,705
Hutchinson River Pky	88,651	93,936	89,548	96,265	92,255	88,445	89,750	90,973
Major Deegan Exp *	116,824	118,833	123,715	122,186	121,557	124,176	126,023	119,658
New England Thruway	127,645	126,511	127,557	130,037	136,208	135,159	137,777	124,472
Riverdale Ave	11,959	10,830	10,954	11,359	11,803	11,470	11,741	10,905
Van Cortlandt Pk E	10,360	10,617	10,499	10,770	10,731	10,675	9,925	10,374
Webster Ave	10,841	11,547	11,434	11,408	11,324	10,535	10,713	9,863
White Plains Rd	13,184	13,397	12,532	12,565	12,974	12,290	13,411	12,478
Totals	606,666	619,938	619,449	627,294	633,350	624,558	635,838	598,598

* Includes service roads

Bronx-Westchester Screenline

Historical Comparisons

Average Daily Traffic Volumes



2008 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	124	94	107	161	476	393	293	684	413	565	666	1,010	41	111
1-2am	59	58	68	113	226	231	157	323	222	289	484	587	36	66
2-3am	60	42	48	63	196	144	111	178	145	157	437	385	21	47
3-4am	65	56	49	50	173	153	117	123	159	145	305	375	20	35
4-5am	84	63	76	57	363	272	336	146	385	289	659	475	39	38
5-6am	239	125	148	100	1,125	746	1,264	412	1,185	945	2,004	1,013	114	79
6-7am	458	350	384	227	3,287	1,909	3,752	1,358	2,516	2,460	4,120	2,129	258	244
7-8am	773	588	596	349	4,354	2,938	4,834	2,452	3,338	3,110	4,094	3,075	361	330
8-9am	740	739	635	388	3,244	2,772	3,823	2,658	3,044	2,852	3,589	3,067	330	373
9-10am	593	602	437	351	2,596	1,750	3,181	1,803	2,680	2,557	2,987	2,525	244	292
10-11am	613	565	329	338	1,979	1,461	2,486	1,529	2,153	2,217	2,408	2,428	202	287
11-Noon	684	640	343	332	1,872	1,627	2,250	1,659	1,973	2,122	2,365	2,526	196	306
Noon-1	741	711	370	354	1,854	1,659	2,175	1,760	2,092	2,231	2,348	2,567	223	315
1-2pm	736	715	370	383	1,930	1,942	2,113	1,989	2,290	2,402	2,344	2,659	227	332
2-3pm	716	728	432	403	2,266	2,638	2,533	2,448	2,622	2,780	2,523	3,053	228	393
3-4pm	805	849	464	480	2,761	3,707	3,022	3,341	3,031	2,969	2,823	3,837	239	473
4-5pm	839	757	466	529	2,992	3,522	3,462	3,461	3,122	2,821	3,004	3,957	228	545
5-6pm	856	745	469	578	3,389	3,445	3,825	3,744	3,056	2,658	3,565	4,075	245	565
6-7pm	806	651	461	573	3,010	2,905	3,421	3,473	2,909	2,821	3,188	3,650	240	494
7-8pm	681	553	410	528	2,369	2,138	2,288	2,831	2,443	2,567	2,405	3,198	186	383
8-9pm	512	452	315	450	1,855	1,610	1,627	2,144	1,973	2,182	2,083	2,646	160	341
9-10pm	408	362	267	387	1,602	1,376	1,330	1,986	1,532	1,887	1,932	2,449	135	274
10-11pm	304	263	227	308	1,344	1,222	1,017	1,720	1,234	1,583	1,536	2,357	105	225
11-Mid	314	189	170	243	1,029	825	651	1,415	796	1,051	1,193	1,652	80	195
24 hr Total	12,210	10,897	7,641	7,745	46,292	41,385	50,068	43,637	45,313	45,660	53,062	55,695	4,158	6,743
6-10am	2,564	2,279	2,052	1,315	13,481	9,369	15,590	8,271	11,578	10,979	14,790	10,796	1,193	1,239
10am-1pm	2,038	1,916	1,042	1,024	5,705	4,747	6,911	4,948	6,218	6,570	7,121	7,521	621	908
1-3pm	1,452	1,443	802	786	4,196	4,580	4,646	4,437	4,912	5,182	4,867	5,712	455	725
3-7pm	3,306	3,002	1,860	2,160	12,152	13,579	13,730	14,019	12,118	11,269	12,580	15,519	952	2,077
6am-7pm	9,360	8,640	5,756	5,285	35,534	32,275	40,877	31,675	34,826	34,000	39,358	39,548	3,221	4,949

* To Bronx

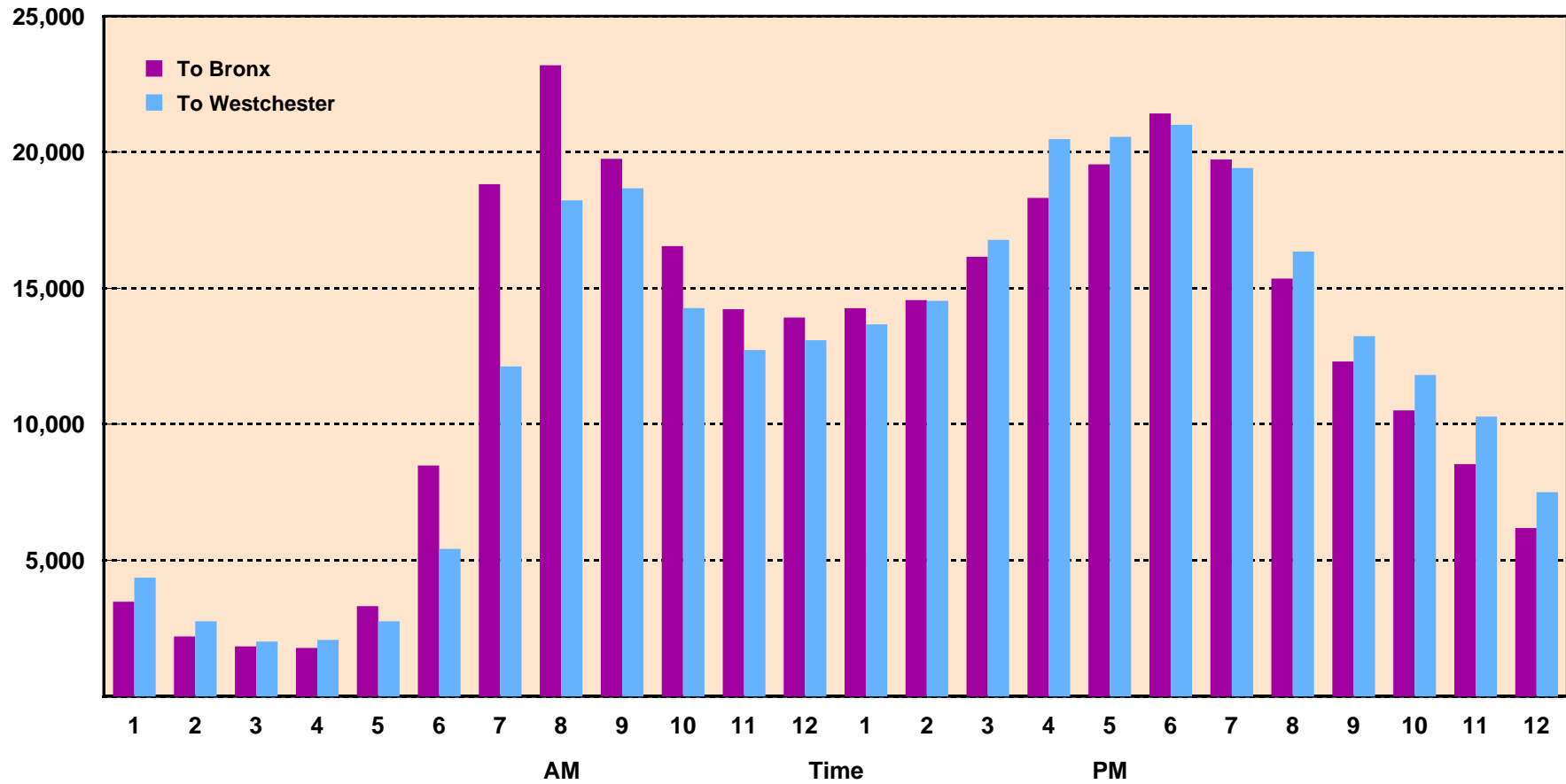
2008 Screenline Volumes Bronx - Westchester (cont'd)

	New England Thruway		Riverdale Ave		Van Cortlandt Park East		Webster Ave		White Plains Rd		Totals	
	<i>S/B*</i>	<i>N/B</i>	<i>S/B*</i>	<i>N/B</i>	<i>S/B*</i>	<i>N/B</i>	<i>S/B*</i>	<i>N/B</i>	<i>S/B*</i>	<i>N/B</i>	<i>To Bronx</i>	<i>To Westchester</i>
Mid-1am	1,053	1,011	39	82	54	52	69	53	138	144	3,473	4,360
1-2am	753	861	25	47	30	36	39	28	98	119	2,197	2,758
2-3am	661	848	11	20	30	23	39	19	74	87	1,833	2,013
3-4am	749	1,012	14	15	21	21	33	17	71	73	1,776	2,075
4-5am	1,180	1,290	23	23	29	26	55	12	84	68	3,313	2,759
5-6am	1,950	1,746	100	46	97	62	142	32	117	115	8,485	5,421
6-7am	3,051	2,868	278	136	220	143	341	100	162	198	18,827	12,122
7-8am	3,266	4,355	437	268	349	253	506	191	284	322	23,192	18,231
8-9am	2,793	4,613	463	371	353	252	450	230	297	360	19,761	18,675
9-10am	2,704	3,440	296	264	272	223	313	170	244	295	16,547	14,272
10-11am	3,024	3,016	265	239	238	223	285	150	246	280	14,228	12,733
11-Noon	3,120	2,936	290	243	264	243	290	161	280	293	13,927	13,088
Noon-1	3,255	3,016	287	286	308	273	306	183	308	319	14,267	13,674
1-2pm	3,304	3,013	288	294	310	271	332	205	319	333	14,563	14,538
2-3pm	3,414	3,143	366	314	363	306	369	217	323	356	16,155	16,779
3-4pm	3,645	3,427	417	388	382	340	380	275	347	394	18,316	20,480
4-5pm	3,854	3,497	383	389	419	382	388	291	396	414	19,553	20,565
5-6pm	4,331	3,599	386	409	451	404	414	352	437	430	21,424	21,004
6-7pm	4,193	3,393	321	402	407	361	366	276	411	417	19,733	19,416
7-8pm	3,271	2,954	268	336	345	290	312	208	378	365	15,356	16,351
8-9pm	2,750	2,463	192	272	262	214	251	160	321	307	12,301	13,241
9-10pm	2,428	2,339	154	209	197	145	212	132	307	261	10,504	11,807
10-11pm	2,056	1,996	150	166	134	105	193	104	233	231	8,533	10,280
11-Mid	1,426	1,405	97	136	101	90	129	83	202	220	6,188	7,504
24 hr Total	62,231	62,241	5,550	5,355	5,636	4,738	6,214	3,649	6,077	6,401	304,452	294,146
6-10am	11,814	15,276	1,474	1,039	1,194	871	1,610	691	987	1,175	78,327	63,300
10am-1pm	9,399	8,968	842	768	810	739	881	494	834	892	42,422	39,495
1-3pm	6,718	6,156	654	608	673	577	701	422	642	689	30,718	31,317
3-7pm	16,023	13,916	1,507	1,588	1,659	1,487	1,548	1,194	1,591	1,655	79,026	81,465
6am-7pm	43,954	44,316	4,477	4,003	4,336	3,674	4,740	2,801	4,054	4,411	230,493	215,577

* To Bronx

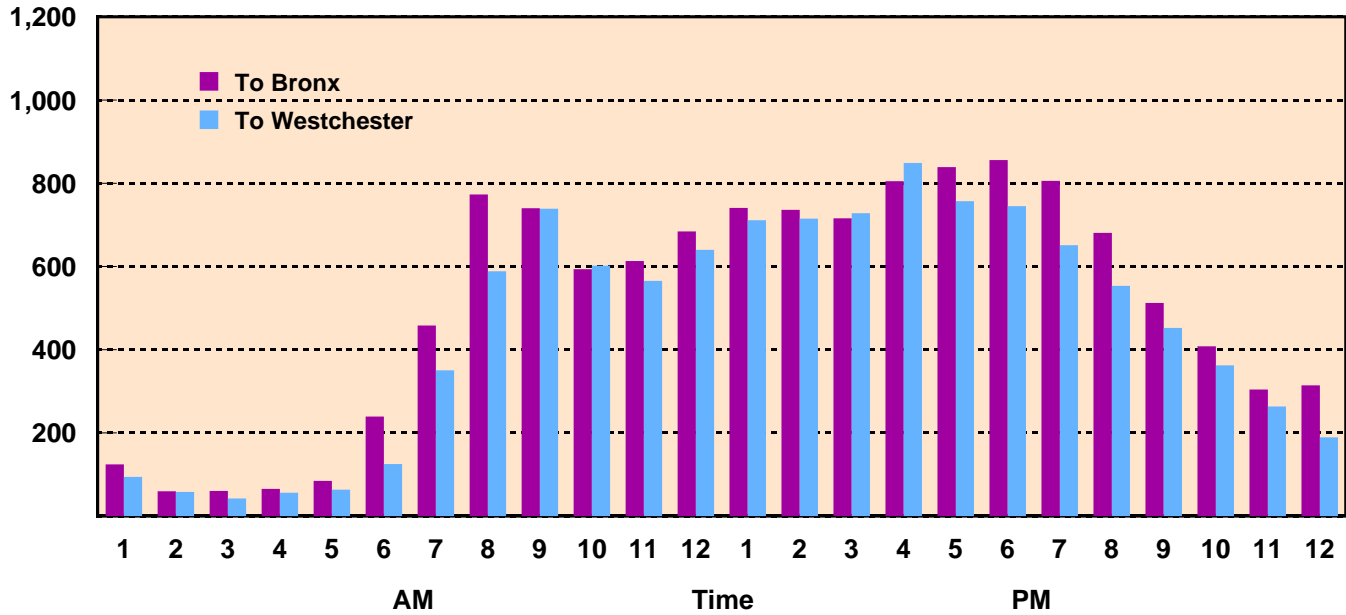
Bronx-Westchester Screenline

Total Hourly Vehicle Volumes - 2008

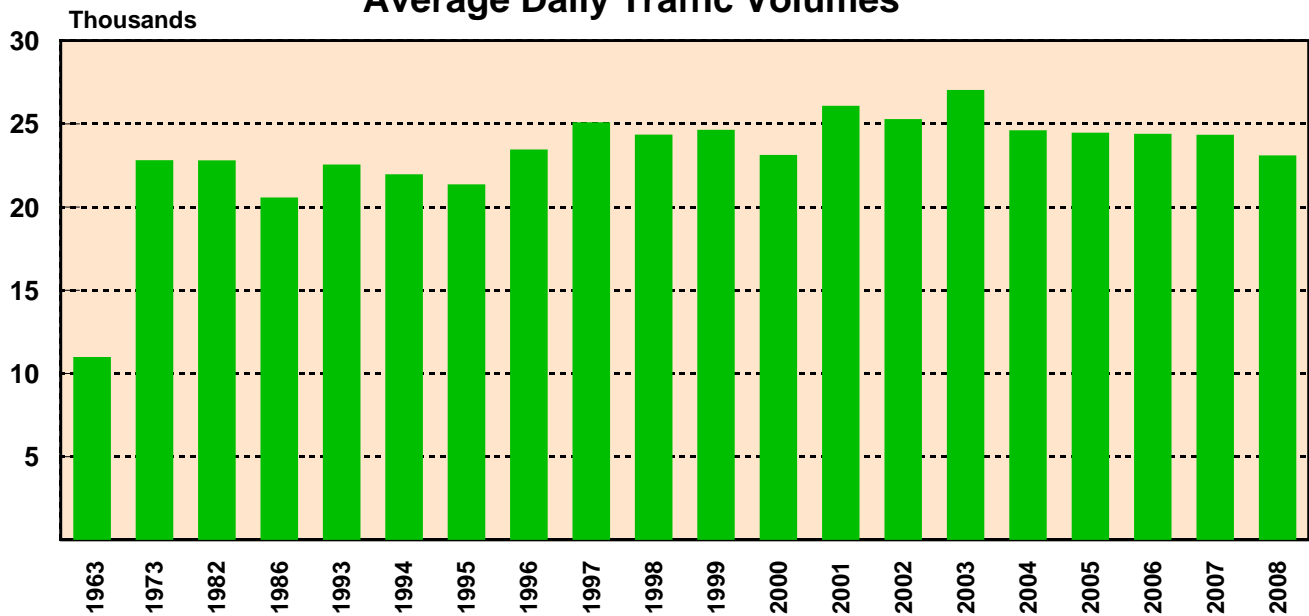


Bronx-Westchester Screenline Volumes

Boston Road - 2008 Hourly Vehicular Volumes

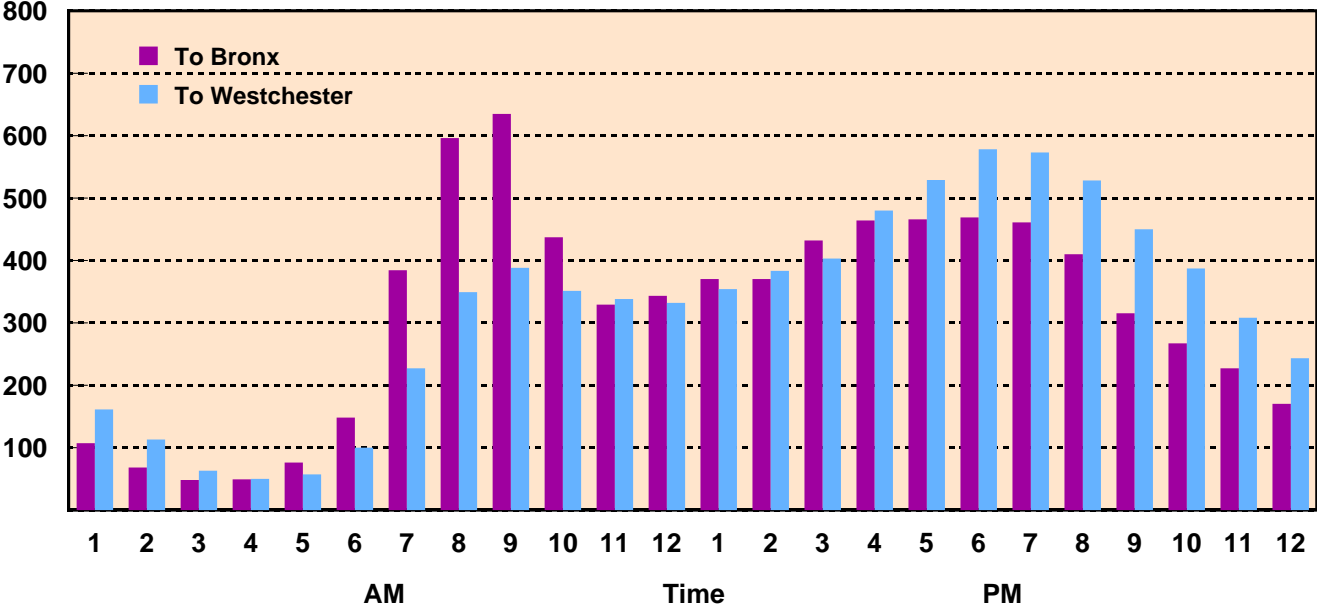


Boston Road Average Daily Traffic Volumes

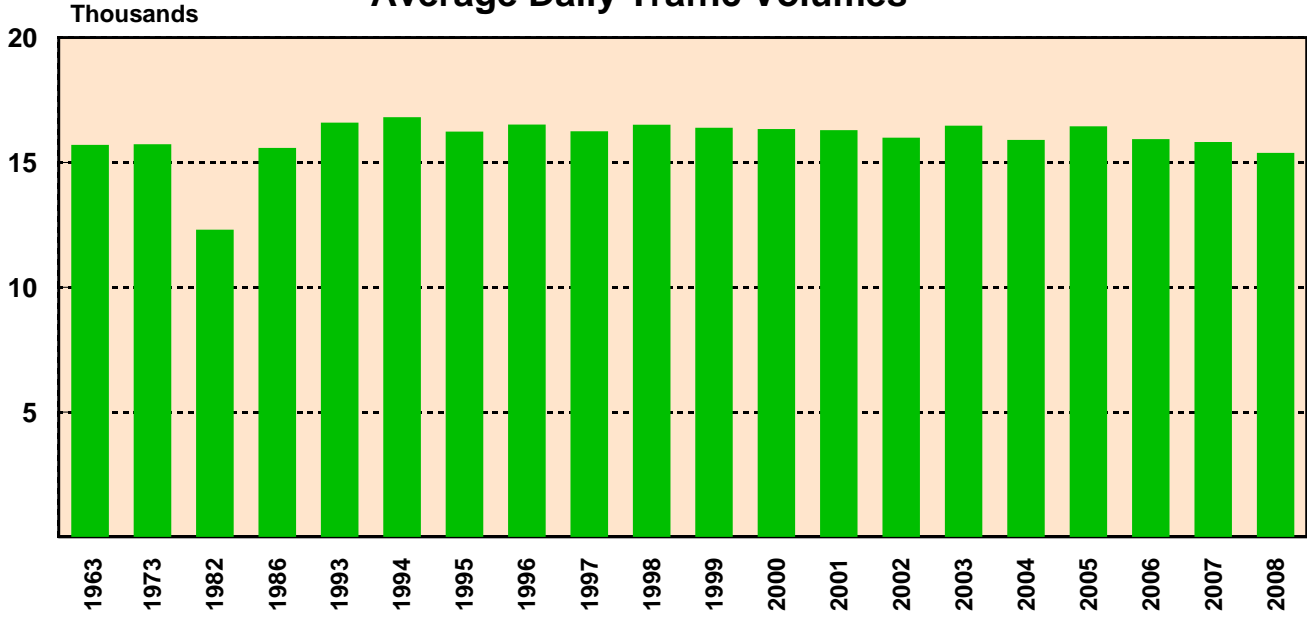


Bronx-Westchester Screenline Volumes

Broadway - 2008 Hourly Vehicular Volumes

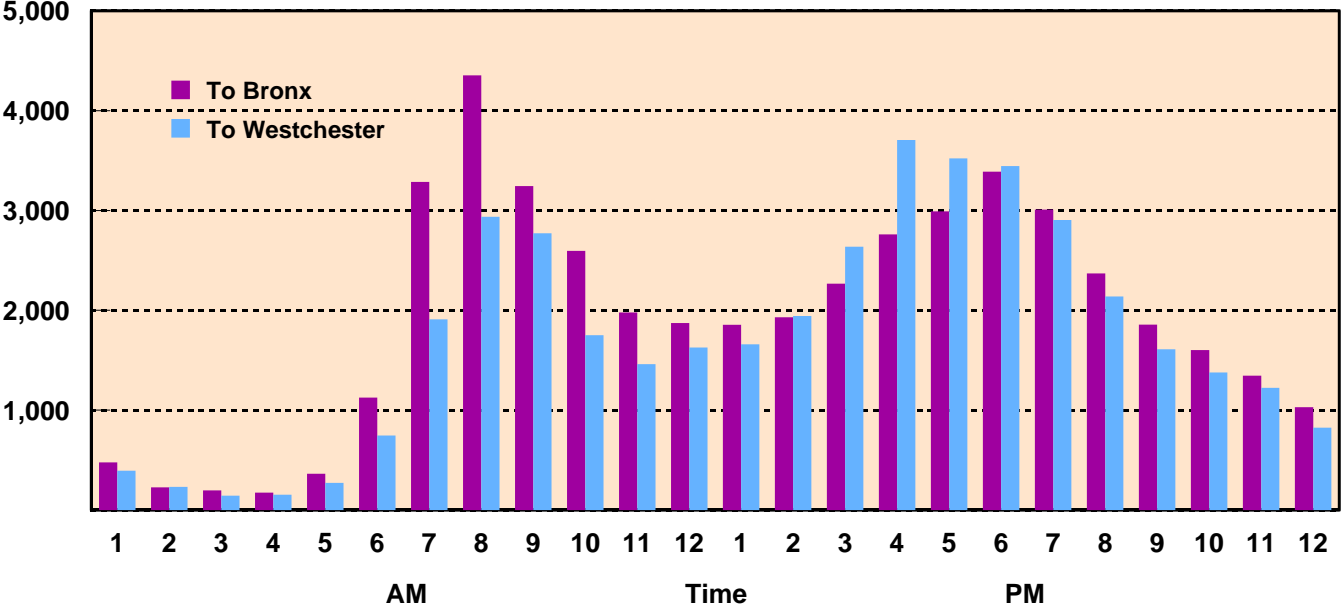


Broadway Average Daily Traffic Volumes

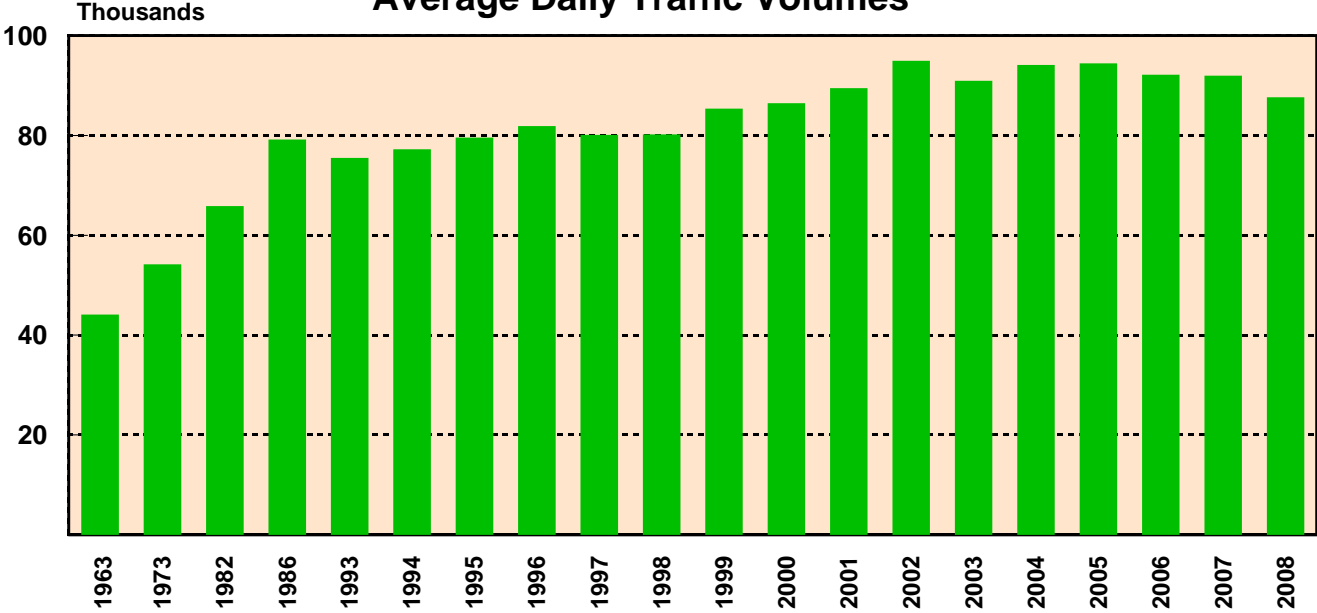


Bronx-Westchester Screenline Volumes

Bronx River Parkway - 2008 Hourly Vehicular Volumes

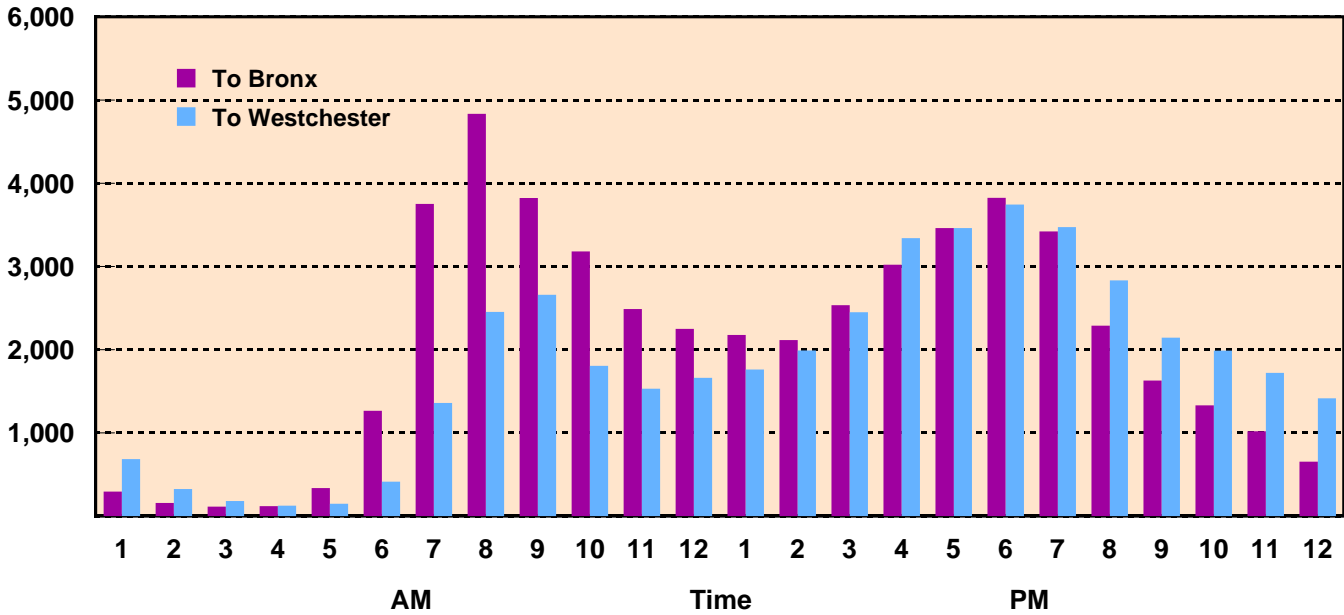


Bronx River Parkway Average Daily Traffic Volumes

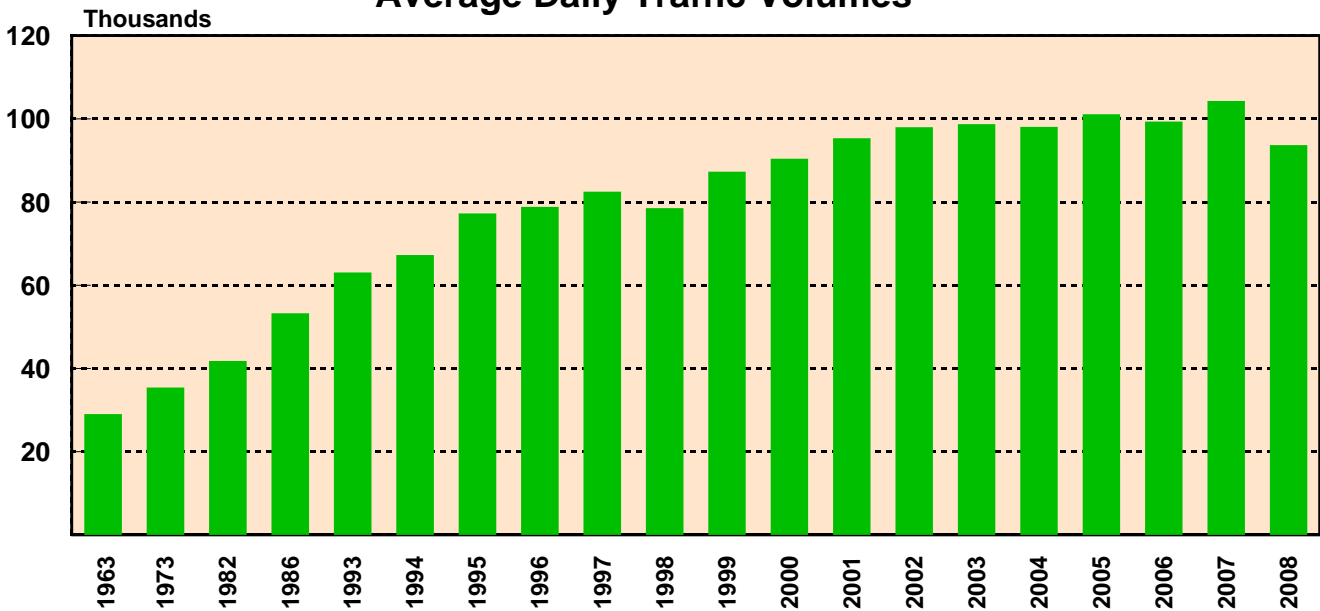


Bronx-Westchester Screenline Volumes

Henry Hudson Parkway - 2008 Hourly Vehicular Volumes

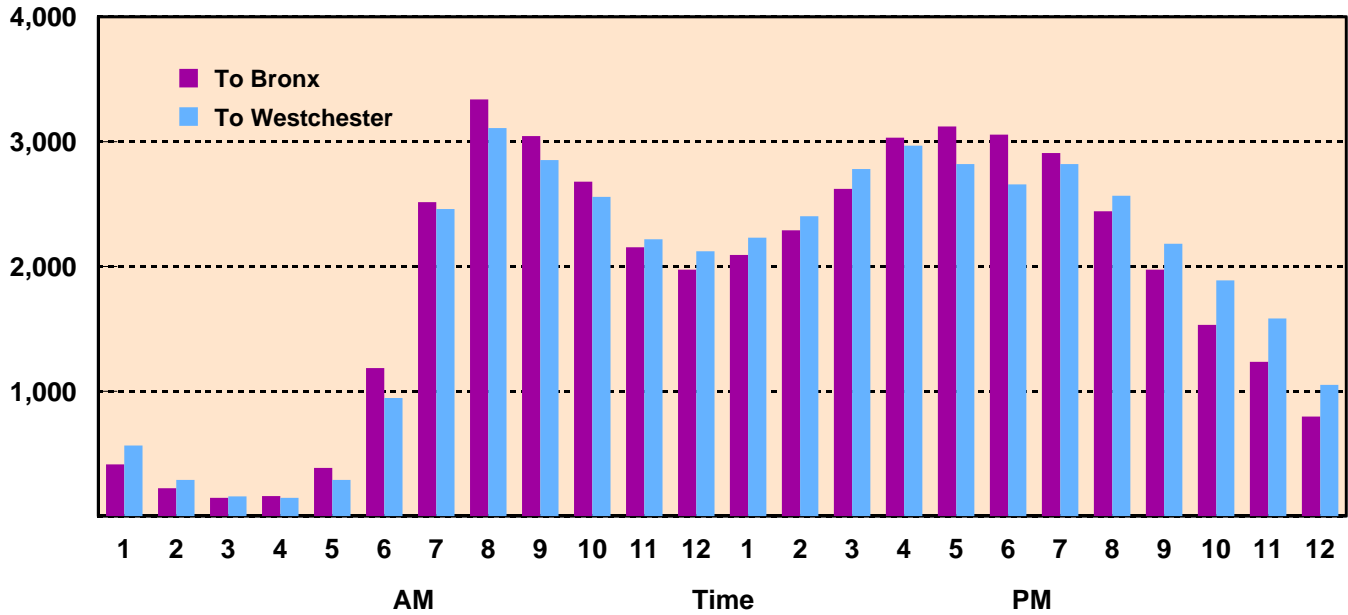


Henry Hudson Parkway Average Daily Traffic Volumes

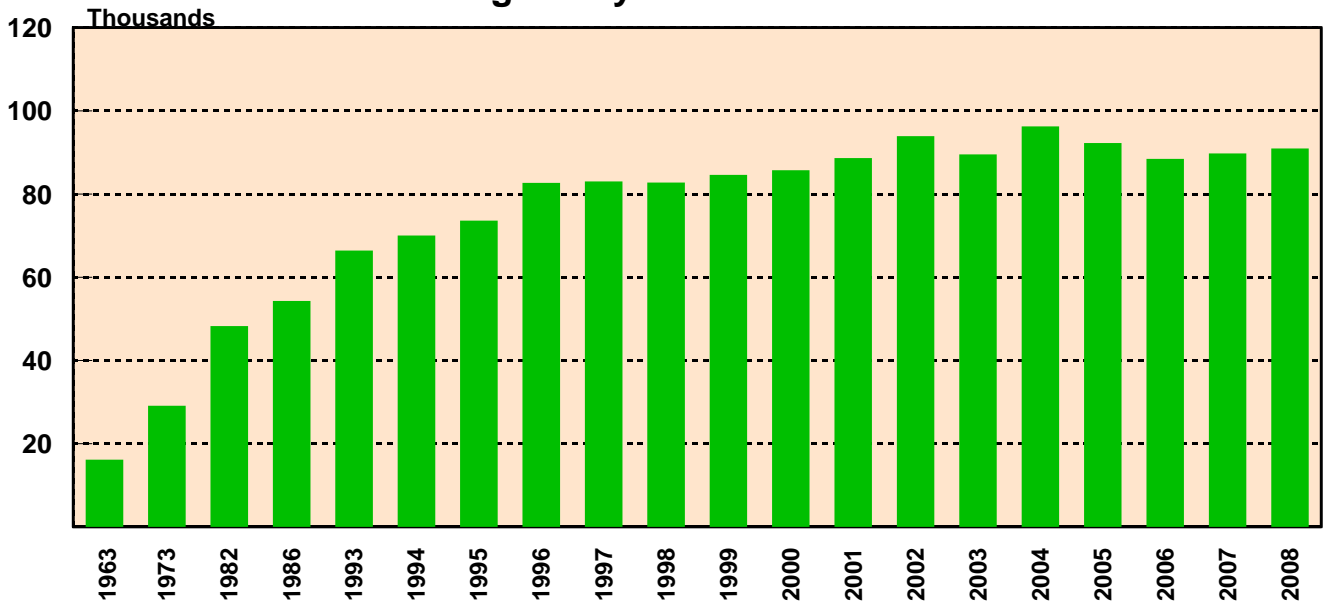


Bronx-Westchester Screenline Volumes

Hutchinson River Parkway - 2008 Hourly Vehicular Volumes

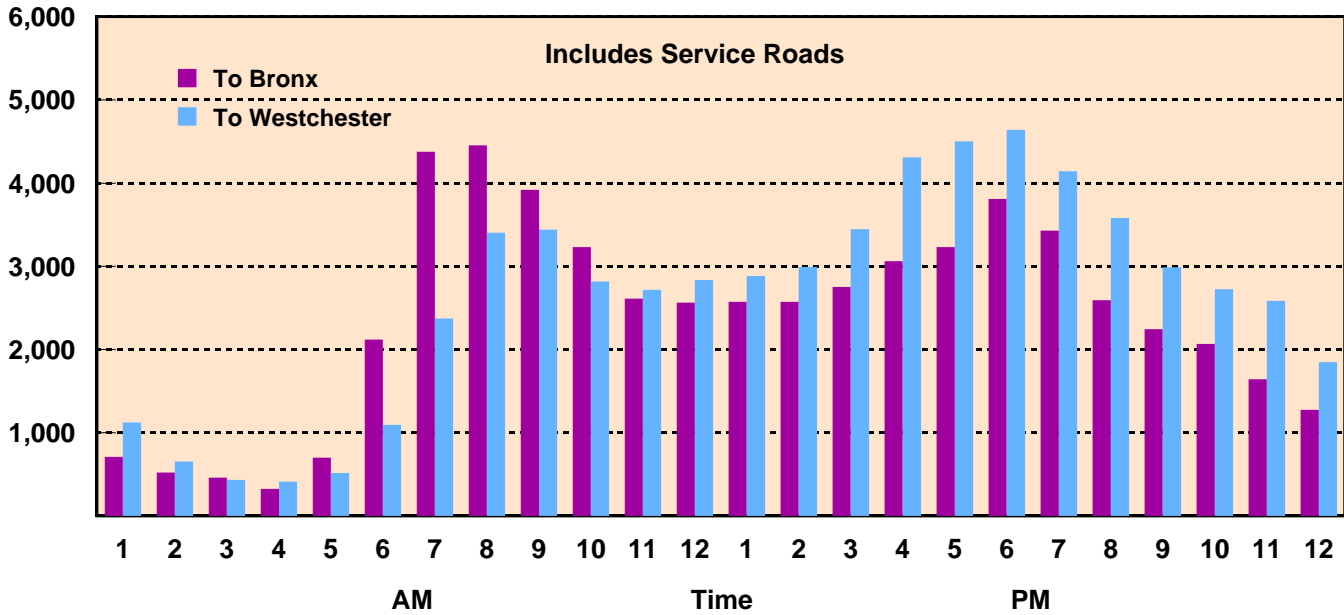


Hutchinson River Parkway Average Daily Traffic Volumes

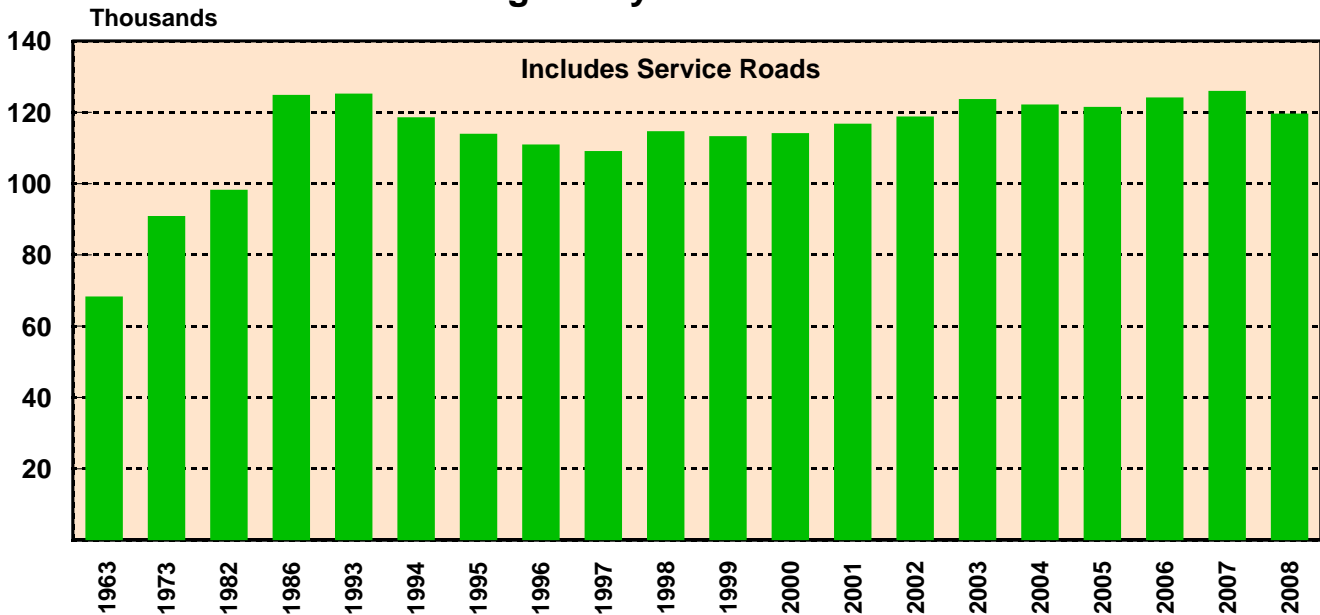


Bronx-Westchester Screenline Volumes

Major Deegan Expressway - 2008 Hourly Vehicular Volumes

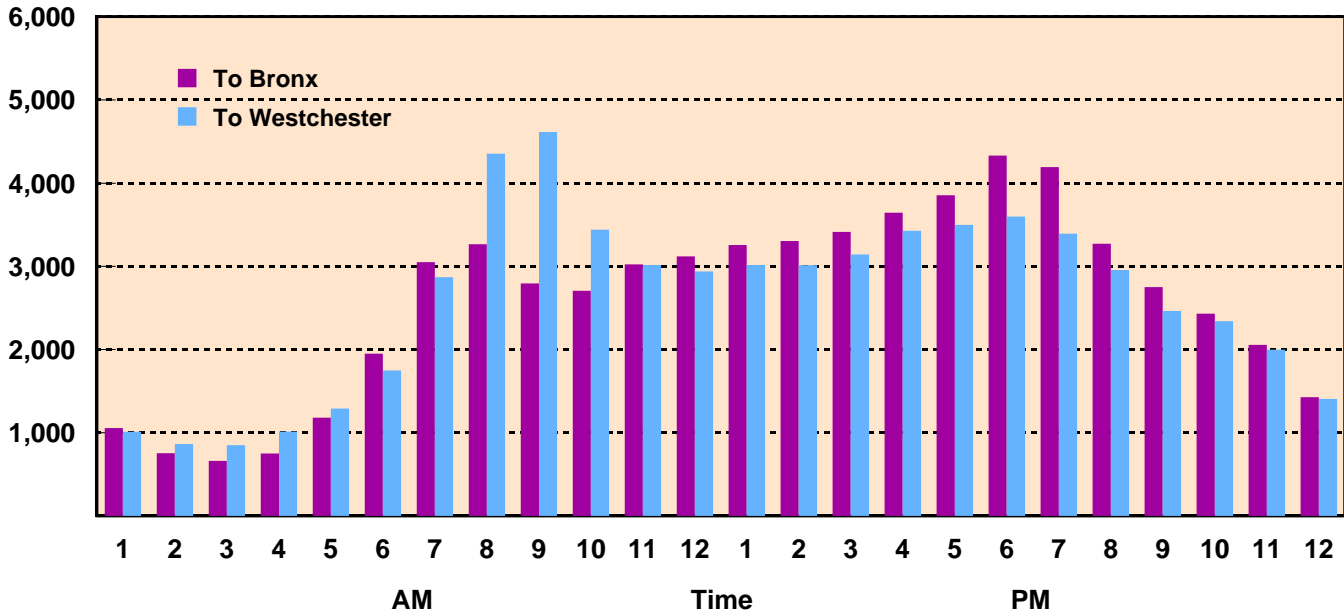


Major Deegan Expressway Average Daily Traffic Volumes

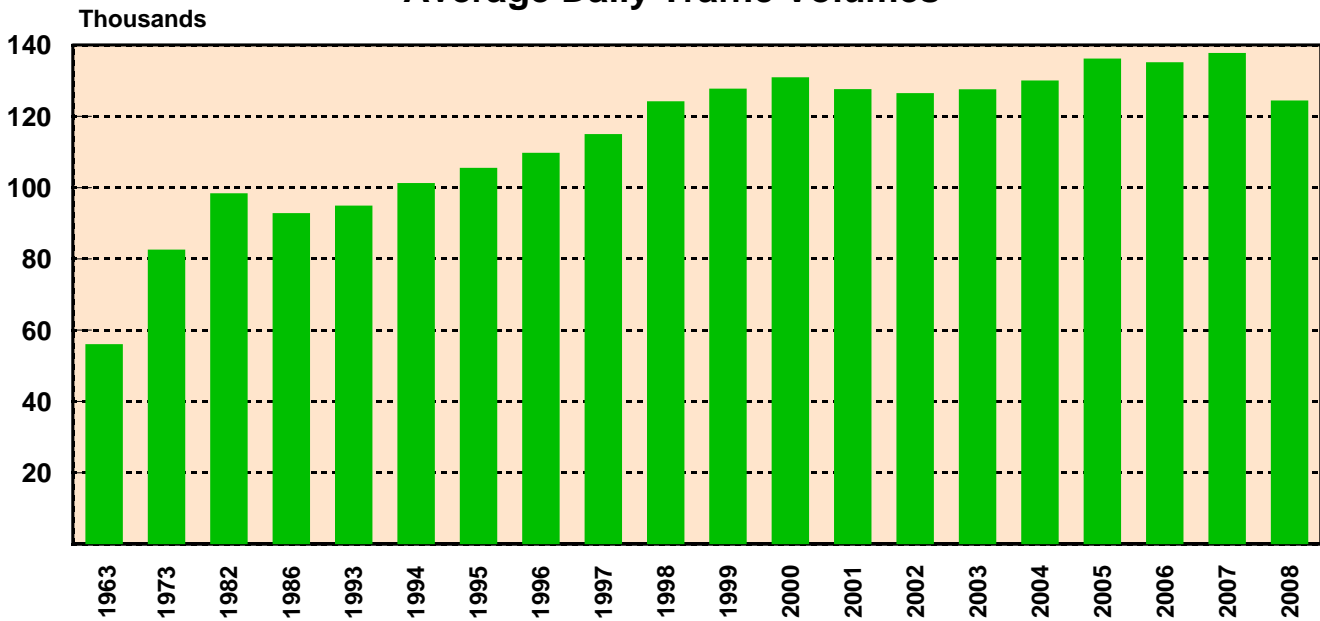


Bronx-Westchester Screenline Volumes

New England Thruway - 2008 Hourly Vehicular Volume7s

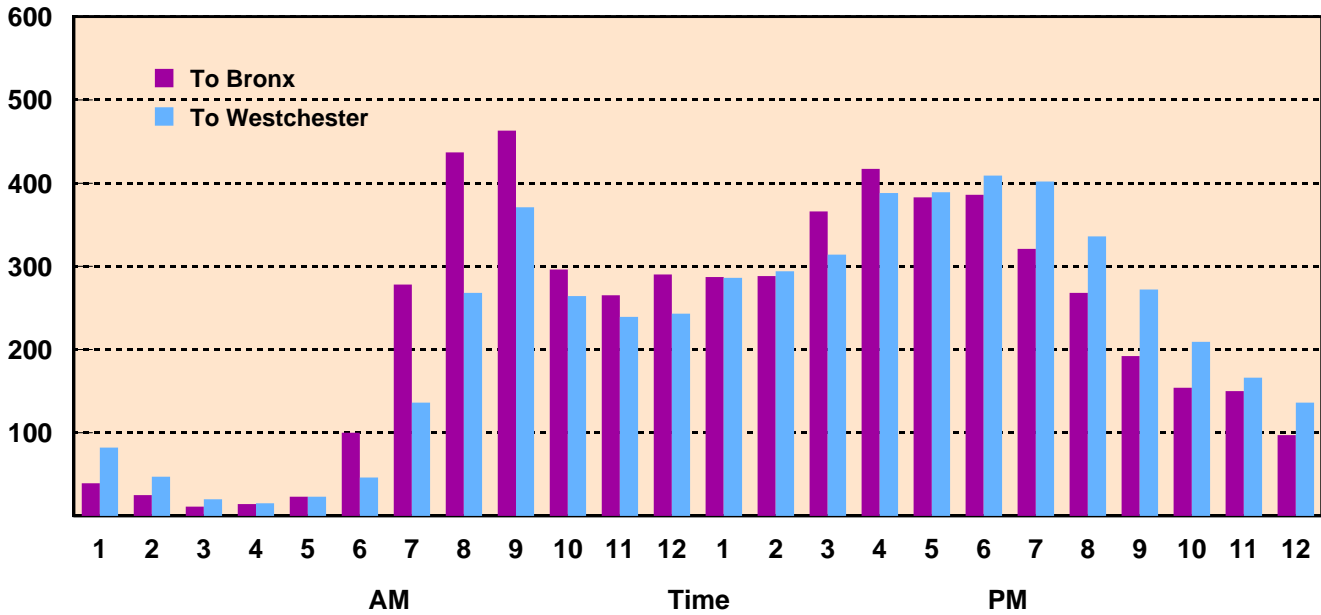


New England Thruway Average Daily Traffic Volumes

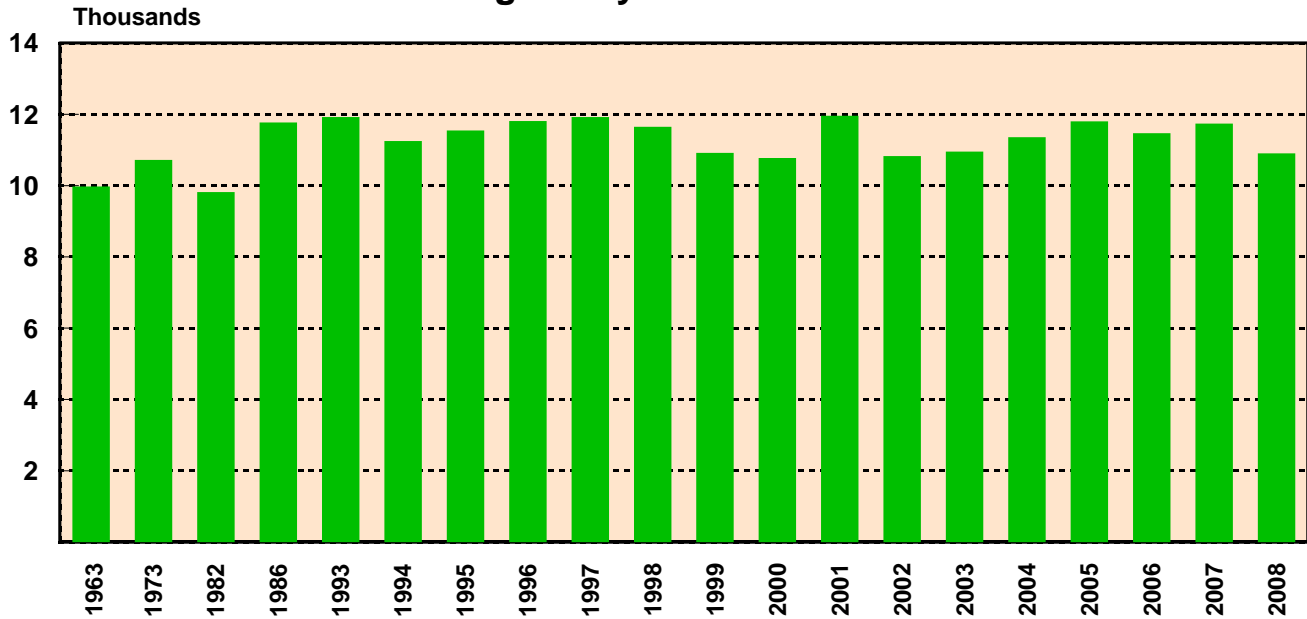


Bronx-Westchester Screenline Volumes

Riverdale Avenue - 2008 Hourly Vehicular Volumes

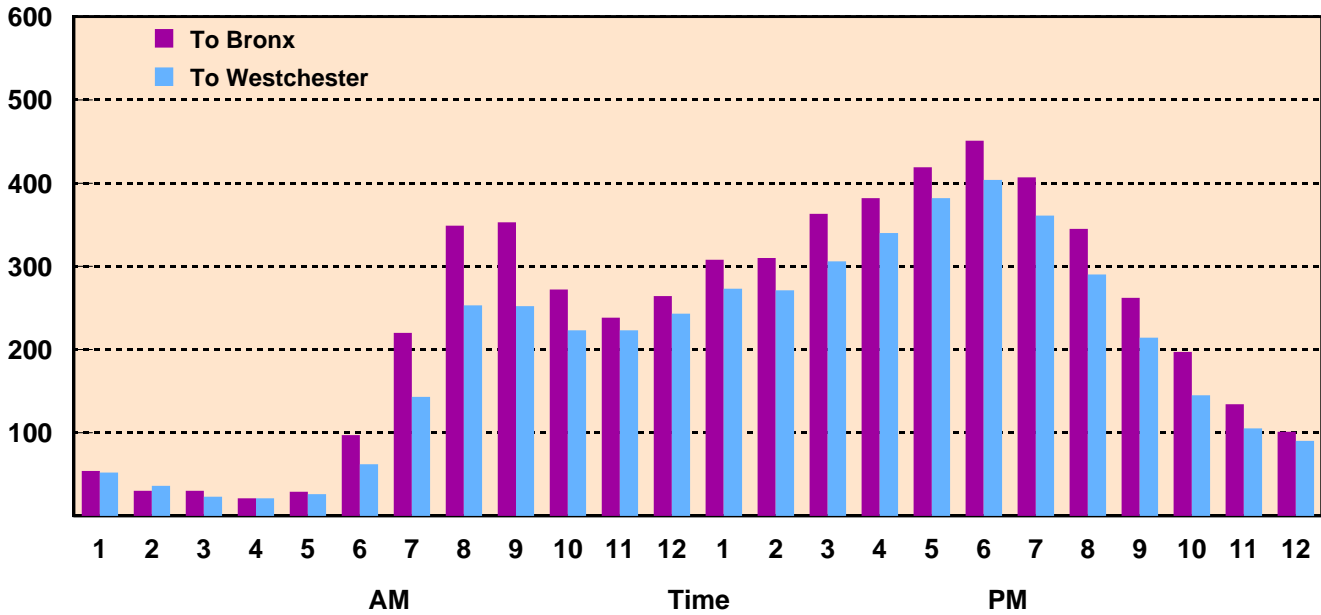


Riverdale Avenue Average Daily Traffic Volumes

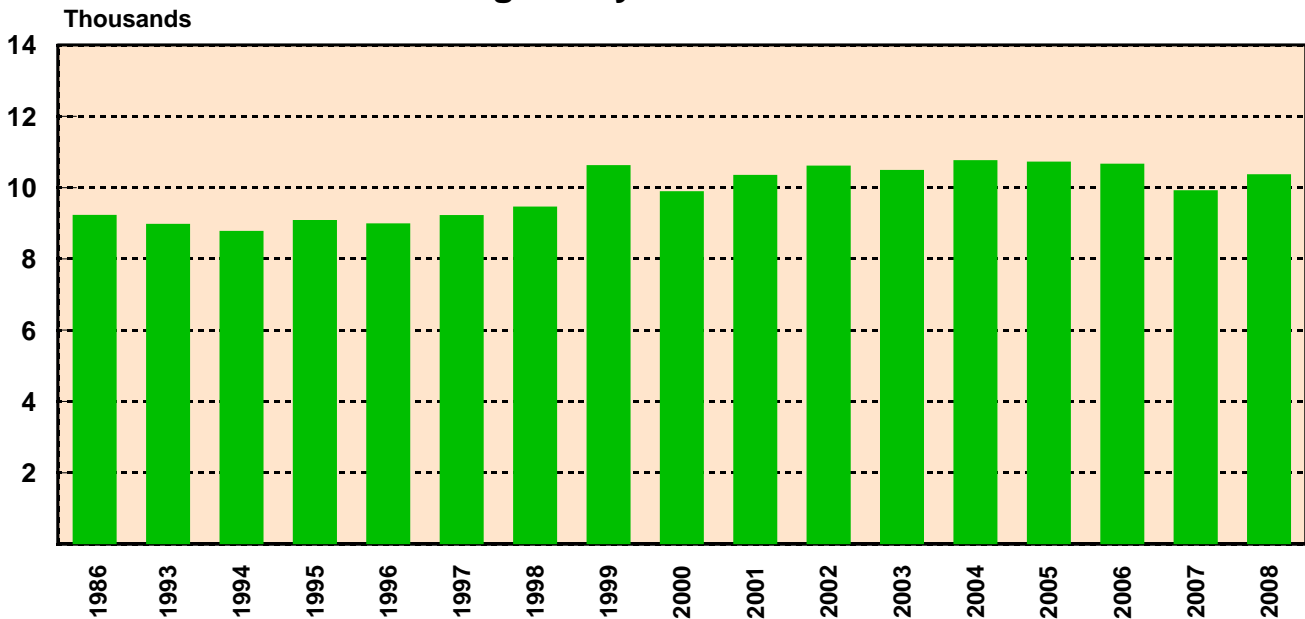


Bronx-Westchester Screenline Volumes

Van Cortlandt Park East - 2008 Hourly Vehicular Volumes

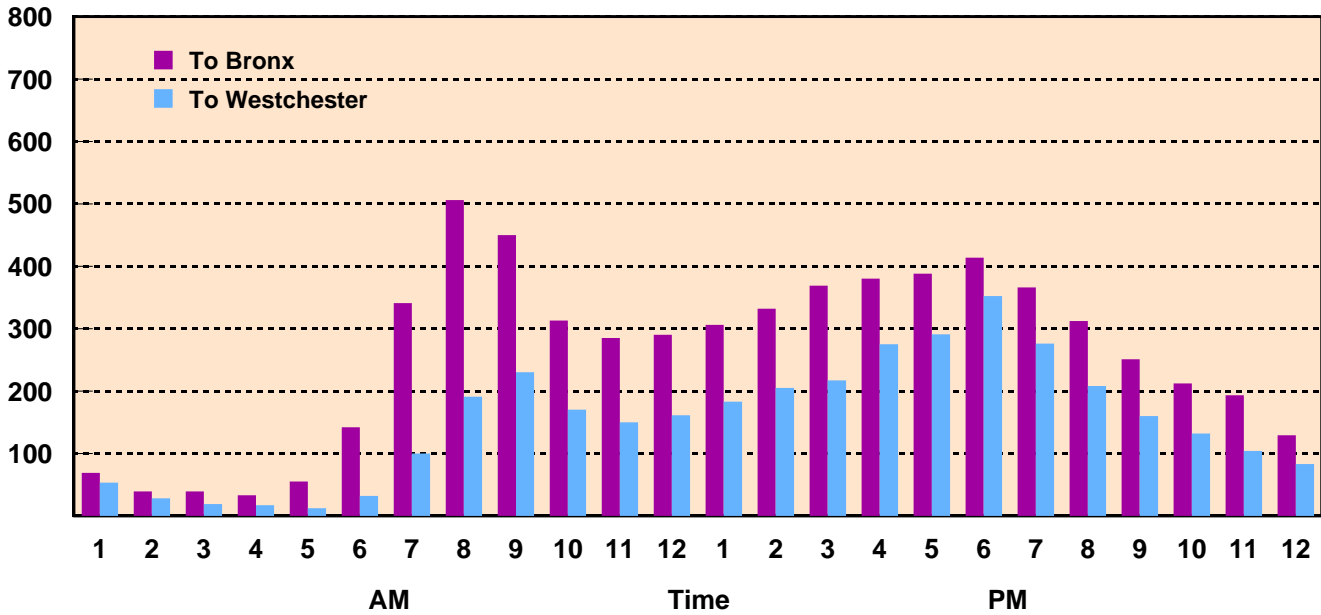


Van Cortlandt Park East Average Daily Traffic Volumes

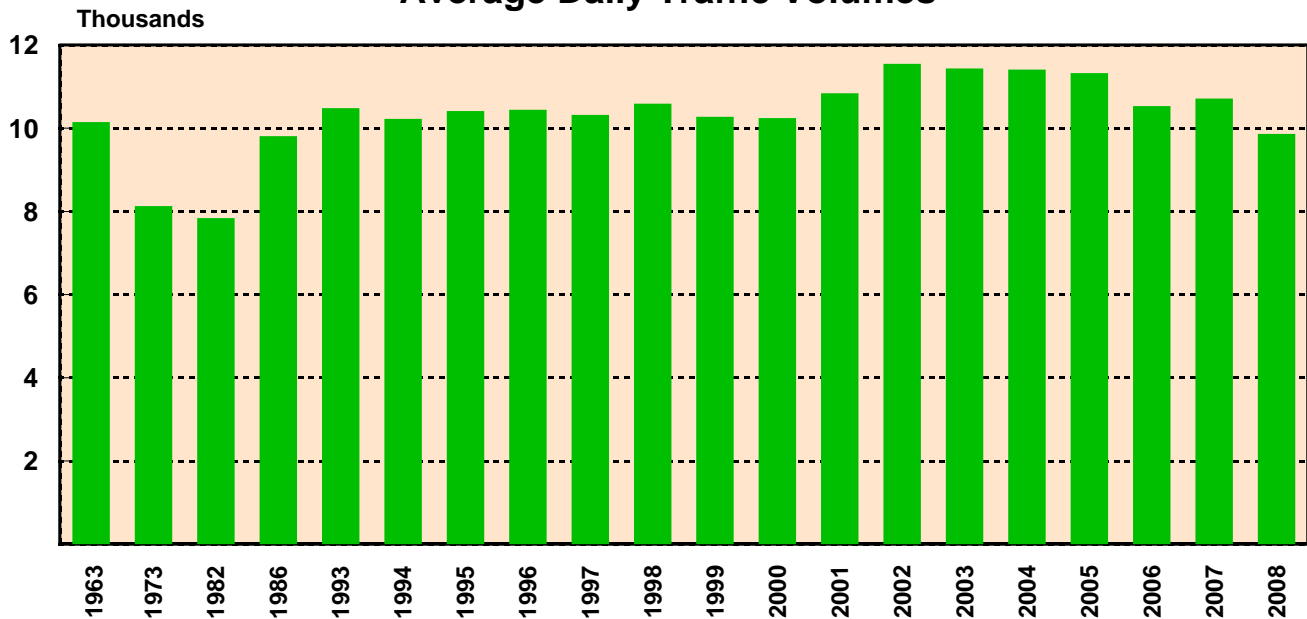


Bronx-Westchester Screenline Volumes

Webster Avenue - 2008 Hourly Vehicular Volumes

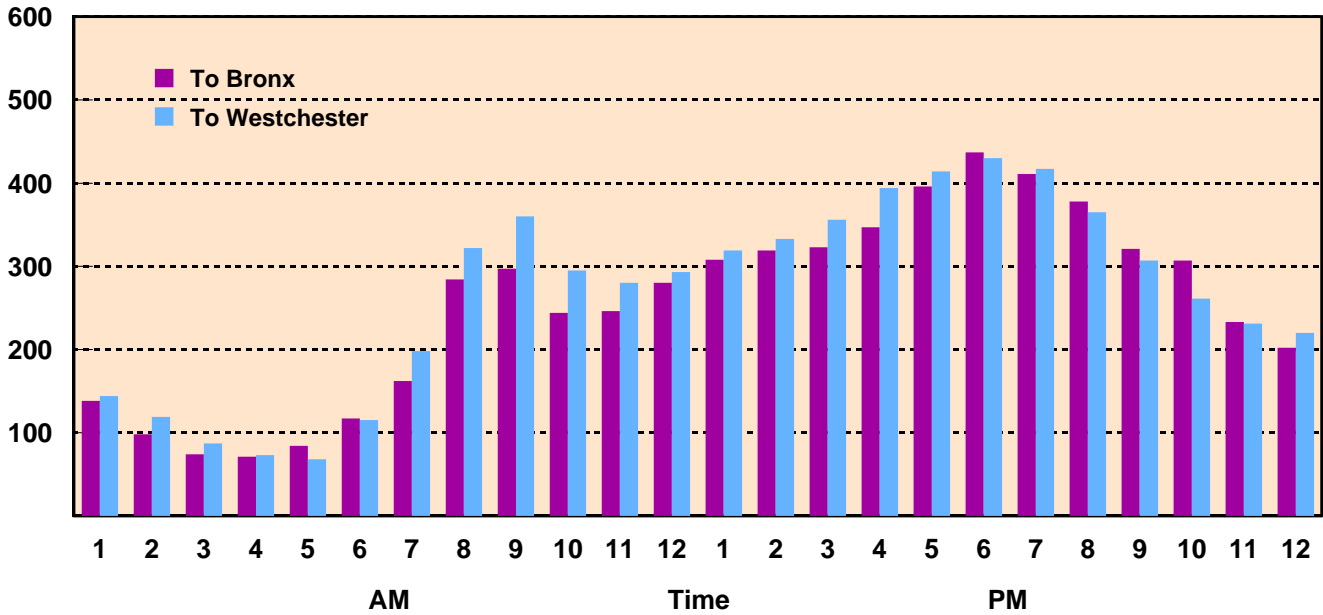


Webster Avenue Average Daily Traffic Volumes

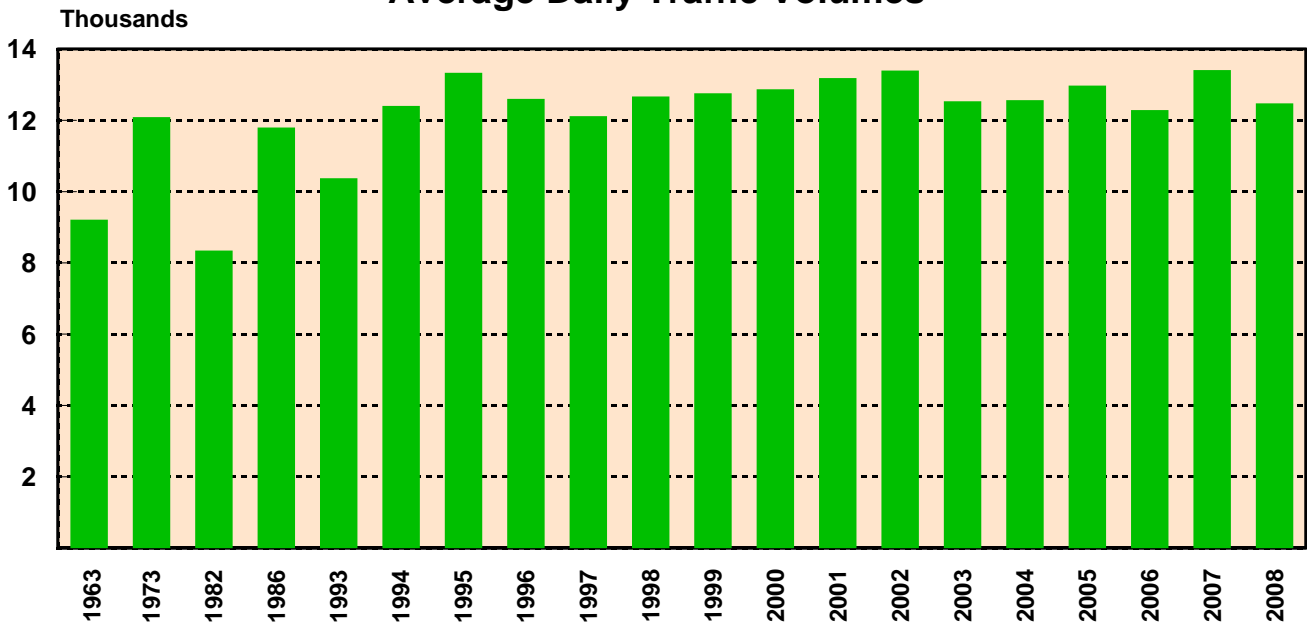


Bronx-Westchester Screenline Volumes

White Plains Road - 2008 Hourly Vehicular Volumes



White Plains Road Average Daily Traffic Volumes



Queens-Nassau Screenline



Hempstead Avenue Looking East at the Queens-Nassau Screenline (passing over Cross Island Parkway).

QUEENS - NASSAU SCREENLINE

In 1963, the first year that Queens-Nassau screenline data were analyzed, average daily two-way total volume on the thirteen roadways studied was 546,600 (volumes on Central Avenue and Seagirt Boulevard were not collected prior to 1986). The highest volume facilities were the Long Island Expressway and its service roads (143,800 daily vehicles), Laurelton Parkway (85,400), Sunrise Highway (59,500), and the Grand Central Parkway and its service road (51,700).

By 1973, daily volume had increased 22.7% to 670,700, approximately 124,100 more than in 1963. The Long Island Expressway remained the highest volume facility, carrying 172,200 daily vehicles, 19.8% more than in 1963. Daily volume on the Grand Central Parkway facility doubled, to 104,800 from 51,700, making it the second busiest. Laurelton Parkway volume rose 15.6% to 98,800. Sunrise Highway remained the busiest surface arterial, carrying 62,700 daily vehicles, 5.4% more than in 1963.

Between 1973 and 1982, growth slowed, as volume increased just 6.3% to 713,100 daily vehicles. The largest numerical increase occurred on Laurelton Parkway, where daily traffic rose 23.2%, to 121,700 from 98,800. The largest percentage increase occurred on Northern Boulevard where daily traffic increased 26.4%, to 42,000 daily vehicles from 33,200.

Growth intensified between 1982 and 1986, raising daily volume to 816,600, an increase of 14.5% over the four-year period (excluding 14,500 on Central Avenue and 12,400 on Seagirt Boulevard where volumes were not counted in 1982). Large increases in daily volume were recorded on the Grand Central Parkway (up 30.8% to 144,000 from 110,000), Laurelton Parkway (up 22.0% to 148,400 from 121,700), the Long Island Expressway (up 12.8% to 189,000 from 167,600), and Rockaway Boulevard (up 22.0% to 56,700 from 46,500).

From 1986 to 1998, growth was moderate, as Queens-Nassau screenline volume increased 9.0% during that twelve-year period, to 919,400 daily vehicles from 843,500. The largest volume increase occurred on the Grand Central Parkway and its service road (increase of 19,500 daily vehicles, or 13.6%, to 163,500 from 144,000). On the Long Island Expressway and its service roads, daily volume increased by 12,300, or 6.5%, to 201,200 from 189,000). The largest percentage increases occurred on Seagirt Boulevard (up 33.3%, to 16,500 daily vehicles from 12,400), and Linden Boulevard (up 24.2%, to 28,600 from 23,100). The biggest decline in daily volume was on Beach Channel Drive (decrease of 1,500 daily vehicles, or 5.6%, to 24,200 from 25,700).

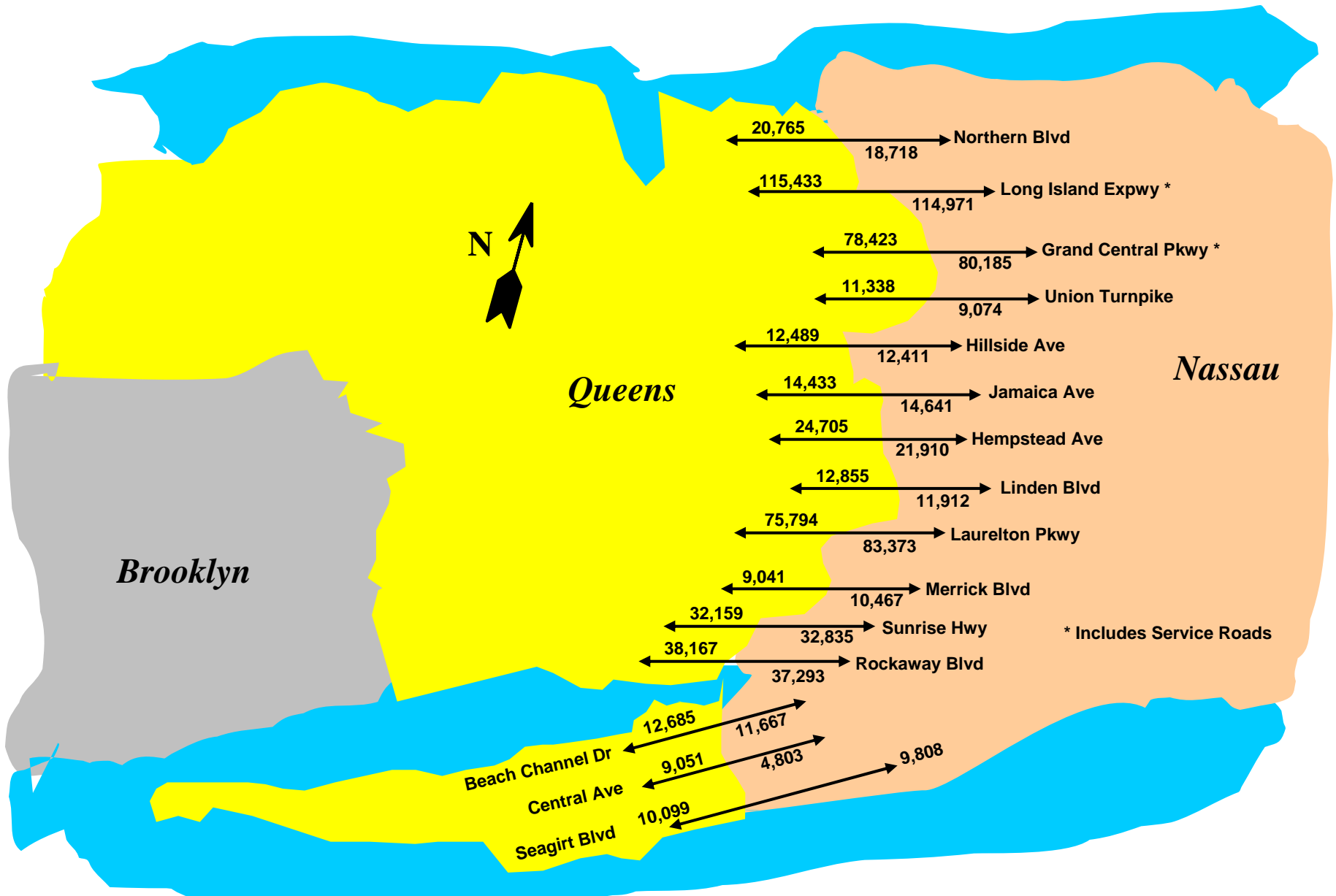
During the 45 years from 1963 to 2008, daily traffic on the thirteen Queens-Nassau facilities monitored throughout the period increased 67.9%, to 917,700 from 546,600.

The bulk of growth in Queens-Nassau traffic since 1963 has occurred on the three limited access facilities crossing the screenline. Of the 371,200 additional daily vehicles on the thirteen continuously-monitored facilities, 267,300 (72.0% of the total increase) are on the three limited access routes. The Grand Central Parkway alone absorbed over one-fourth the total screenline traffic increase, its daily volume more than tripling, to 158,600 in 2008 from 51,700 in 1963. On the Laurelton Parkway, volume nearly doubled (to 159,200 daily vehicles from 85,400). Daily traffic on the Long Island Expressway rose 60.3% (to 230,400 from 143,800).

Surface arterials undergoing the most significant volume changes since 1963 are Rockaway Boulevard, where volume more than doubled, to 75,500 daily vehicles from 36,500, Jamaica Avenue (up 90.0% to 29,100 from 15,300), Linden Boulevard (up 72.8% to 24,800 from 14,300), Northern Boulevard (up 35.5%, to 39,500 from 29,100), and Hempstead Avenue (up 31.7%, to 46,600 from 35,400).

Queens – Nassau Screenline

2008 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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

To Queens

	2001	2002	2003	2004	2005	2006	2007	2008
Beach Channel Dr	13,128	13,403	13,844	12,542	11,997	12,347	15,377	12,685
Central Ave	8,014	9,231	9,319	8,681	8,909	9,308	8,321	9,051
Grand Central Pky *	91,225	89,054	94,792	92,464	92,993	80,941	77,918	78,423
Hempstead Ave	22,474	19,797	26,866	20,781	19,270	18,731	22,786	24,705
Hillside Ave	14,049	13,735	12,140	13,697	13,472	12,558	12,170	12,489
Jamaica Ave	14,504	15,324	15,044	15,601	15,903	14,954	14,524	14,433
Laurelton Pky	82,194	77,076	72,783	85,728	80,245	80,157	79,954	75,794
Linden Blvd	11,565	12,485	12,904	12,869	13,521	13,099	11,976	12,855
Long Island Exp *	90,205	97,818	99,694	91,797	92,491	97,600	101,793	115,433
Merrick Blvd	9,833	9,559	10,538	10,441	9,841	9,466	9,238	9,041
Northern Blvd	24,221	22,943	23,695	23,054	20,807	21,523	20,953	20,765
Rockaway Blvd	36,893	33,865	34,633	35,464	36,156	36,371	39,466	38,167
Seagirt Blvd	8,044	10,341	11,263	10,665	10,046	11,236	10,659	10,099
Sunrise Hwy	34,519	30,922	34,542	33,706	35,166	32,833	33,626	32,159
Union Tpke	12,495	13,260	13,275	12,770	12,532	11,792	10,826	11,338
Totals	473,363	468,813	485,332	480,260	473,349	462,916	469,587	477,437

* 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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

To Nassau

	2001	2002	2003	2004	2005	2006	2007	2008
Beach Channel Dr	11,532	12,207	12,484	11,702	11,652	13,454	13,615	11,667
Central Ave	4,910	5,175	5,100	5,541	5,762	6,262	5,334	4,803
Grand Central Pky *	89,640	89,813	92,426	92,233	93,399	84,853	84,831	80,185
Hempstead Ave	22,176	23,621	24,466	22,881	24,757	22,234	23,292	21,910
Hillside Ave	13,526	13,593	12,864	12,676	13,055	10,565	12,158	12,411
Jamaica Ave	13,702	14,869	14,721	15,126	15,717	14,660	14,479	14,641
Laurelton Pky	89,251	85,216	86,229	89,675	88,909	88,702	93,700	83,373
Linden Blvd	15,136	15,327	16,528	15,619	16,123	15,199	13,996	11,912
Long Island Exp *	92,593	92,794	90,940	92,065	92,333	94,300	99,602	114,971
Merrick Blvd	9,568	9,920	10,052	10,565	9,694	9,567	9,421	10,467
Northern Blvd	21,584	21,243	21,970	21,748	21,067	19,837	18,072	18,718
Rockaway Blvd	35,134	36,098	37,929	38,468	37,188	37,396	38,293	37,293
Seagirt Blvd	7,895	10,051	11,634	10,379	9,805	11,321	11,783	9,808
Sunrise Hwy	34,099	31,920	33,123	34,421	35,842	33,986	35,272	32,835
Union Tpke	12,618	13,346	12,896	12,246	10,437	9,297	8,774	9,074
Totals	473,364	475,193	483,362	485,345	485,740	471,633	482,622	474,068

* 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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

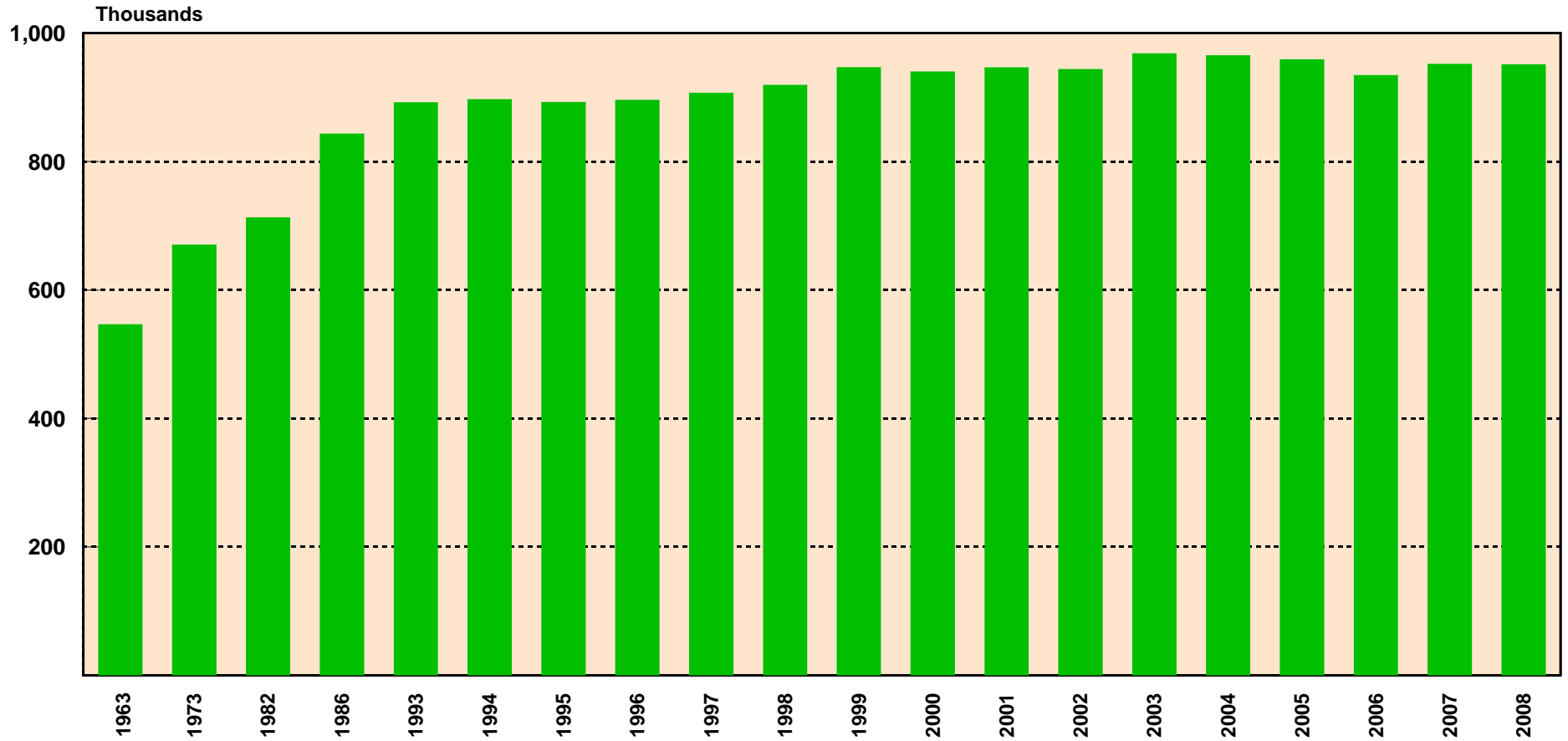
Both Directions

	2001	2002	2003	2004	2005	2006	2007	2008
Beach Channel Dr	24,660	25,610	26,328	24,244	23,649	25,801	28,992	24,352
Central Ave	12,924	14,406	14,419	14,222	14,671	15,570	13,655	13,854
Grand Central Pky *	180,865	178,867	187,218	184,697	186,392	165,794	162,749	158,608
Hempstead Ave	44,650	43,418	51,332	43,662	44,027	40,965	46,078	46,615
Hillside Ave	27,575	27,328	25,004	26,373	26,527	23,123	24,328	24,900
Jamaica Ave	28,206	30,193	29,765	30,727	31,620	29,614	29,003	29,074
Laurelton Pky	171,445	162,292	159,012	175,403	169,154	168,859	173,654	159,167
Linden Blvd	26,701	27,812	29,432	28,488	29,644	28,298	25,972	24,767
Long Island Exp *	182,798	190,612	190,634	183,862	184,824	191,900	201,395	230,404
Merrick Blvd	19,401	19,479	20,590	21,006	19,535	19,033	18,659	19,508
Northern Blvd	45,805	44,186	45,665	44,802	41,874	41,360	39,025	39,483
Rockaway Blvd	72,027	69,963	72,562	73,932	73,344	73,767	77,759	75,460
Seagirt Blvd	15,939	20,392	22,897	21,044	19,851	22,557	22,442	19,907
Sunrise Hwy	68,618	62,842	67,665	68,127	71,008	66,819	68,898	64,994
Union Tpke	25,113	26,606	26,171	25,016	22,969	21,089	19,600	20,412
Totals	946,727	944,006	968,694	965,605	959,089	934,549	952,209	951,505

* Includes service roads

Queens-Nassau Screenline

Historical Comparisons Average Daily Traffic Volumes



2008 Screenline Volumes Queens - Nassau

	Beach Channel Drive		Grand Central Parkway				Hempstead Ave		Hillside Ave			
	<i>* S/B</i>	<i>N/B</i>	<i>* W/B</i>	<i>E/B</i>	<i>* W/B</i>	<i>E/B</i>	<i>* W/B</i>	<i>E/B</i>	<i>* W/B</i>	<i>E/B</i>		
Mid-1am	248	122	125	37	577	804	15	10	257	375	110	87
1-2am	124	77	56	22	270	369	10	6	175	194	48	44
2-3am	78	60	34	14	217	268	7	5	135	133	37	31
3-4am	56	70	29	11	332	202	3	4	191	102	32	29
4-5am	78	134	43	30	1,040	322	4	8	400	149	46	51
5-6am	184	333	105	75	4,083	1,039	16	40	1,171	319	173	155
6-7am	460	656	287	165	5,515	3,380	54	117	2,008	626	556	330
7-8am	738	915	551	275	4,698	5,579	123	361	1,957	1,119	845	705
8-9am	652	763	610	322	4,242	5,953	144	752	1,641	1,382	751	867
9-10am	563	580	520	304	4,422	4,772	178	531	1,261	1,004	603	648
10-11am	506	553	367	248	3,764	3,505	189	290	1,118	927	530	611
11-Noon	507	568	375	268	3,308	3,318	227	291	1,078	962	594	615
Noon-1	573	598	466	279	3,232	3,421	292	329	1,071	1,028	689	658
1-2pm	609	635	476	268	3,321	4,010	282	336	1,182	1,070	706	698
2-3pm	687	680	553	318	3,764	4,817	309	299	1,204	1,341	731	789
3-4pm	739	788	568	370	4,643	5,315	339	416	1,254	1,460	789	954
4-5pm	846	758	606	350	5,218	4,463	473	525	1,263	1,547	923	1,049
5-6pm	968	704	676	328	5,101	4,266	513	561	1,418	1,611	1,100	1,080
6-7pm	937	655	630	285	4,594	4,886	375	363	1,309	1,653	962	946
7-8pm	850	598	557	254	3,343	4,431	251	156	1,213	1,445	705	720
8-9pm	727	439	422	200	2,720	3,353	190	101	1,082	1,141	582	533
9-10pm	635	385	379	153	2,471	2,450	148	60	987	919	462	387
10-11pm	543	333	368	137	1,984	2,129	76	46	821	789	322	258
11-Mid	377	263	248	90	1,304	1,493	42	33	509	614	193	166
24 hr Total	12,685	11,667	9,051	4,803	74,163	74,545	4,260	5,640	24,705	21,910	12,489	12,411
6-10am	2,413	2,914	1,968	1,066	18,877	19,684	499	1,761	6,867	4,131	2,755	2,550
10am-1pm	1,586	1,719	1,208	795	10,304	10,244	708	910	3,267	2,917	1,813	1,884
1-3pm	1,296	1,315	1,029	586	7,085	8,827	591	635	2,386	2,411	1,437	1,487
3-7pm	3,490	2,905	2,480	1,333	19,556	18,930	1,700	1,865	5,244	6,271	3,774	4,029
6am-7pm	8,785	8,853	6,685	3,780	55,822	57,685	3,498	5,171	17,764	15,730	9,779	9,950

* To Queens

2008 Screenline Volumes Queens - Nassau (cont'd)

	Jamaica Ave		Laurelton Parkway		Linden Blvd		Long Island Expressway				Merrick Blvd	
	<i>* W/B</i>	<i>E/B</i>	<i>* W/B</i>	<i>E/B</i>	<i>* W/B</i>	<i>E/B</i>	<i>* W/B</i>	<i>E/B</i>	<i>* W/B</i>	<i>E/B</i>	<i>* W/B</i>	<i>E/B</i>
Mid-1am	129	136	904	1,335	215	206	1,311	1,887	9	9	81	141
1-2am	62	75	514	717	125	118	810	1,070	5	5	49	75
2-3am	49	55	364	490	71	69	762	876	4	6	29	51
3-4am	48	51	529	372	51	59	1,190	891	4	4	25	39
4-5am	94	73	1,208	573	92	70	2,036	1,233	6	8	49	38
5-6am	272	171	3,952	1,366	238	167	5,495	2,389	26	28	160	97
6-7am	628	428	6,023	3,467	490	341	7,264	4,944	257	102	400	235
7-8am	881	800	4,893	4,945	801	560	6,262	6,729	515	230	586	404
8-9am	831	1,257	4,244	4,755	775	691	5,685	6,822	179	366	510	636
9-10am	736	1,022	4,186	3,800	633	530	6,274	6,314	159	235	421	512
10-11am	690	813	3,586	3,363	534	486	5,769	5,421	149	173	450	496
11-Noon	730	790	3,296	3,459	591	555	5,401	5,266	134	176	452	536
Noon-1	792	870	3,311	3,668	617	580	5,460	5,286	142	181	517	584
1-2pm	797	878	3,458	4,269	634	624	5,210	5,283	145	217	540	584
2-3pm	852	905	3,708	5,414	695	690	5,379	6,360	170	237	562	651
3-4pm	936	1,073	4,081	5,893	734	804	5,903	6,678	201	372	579	744
4-5pm	1,067	1,066	4,277	5,917	753	803	6,738	6,498	315	656	589	805
5-6pm	1,238	1,008	4,488	5,791	860	894	7,060	6,208	616	561	716	910
6-7pm	1,021	928	4,193	5,845	862	974	6,413	6,483	669	414	623	790
7-8pm	784	764	3,712	5,066	814	820	5,418	6,406	173	167	514	672
8-9pm	629	552	3,310	4,100	672	613	4,702	5,517	79	92	422	522
9-10pm	540	419	3,182	3,567	606	508	4,544	4,713	68	66	361	411
10-11pm	384	309	2,426	2,988	548	437	3,865	4,233	35	47	247	319
11-Mid	243	198	1,949	2,213	444	313	2,397	3,088	25	24	159	215
24 hr Total	14,433	14,641	75,794	83,373	12,855	11,912	111,348	110,595	4,085	4,376	9,041	10,467
6-10am	3,076	3,507	19,346	16,967	2,699	2,122	25,485	24,809	1,110	933	1,917	1,787
10am-1pm	2,212	2,473	10,193	10,490	1,742	1,621	16,630	15,973	425	530	1,419	1,616
1-3pm	1,649	1,783	7,166	9,683	1,329	1,314	10,589	11,643	315	454	1,102	1,235
3-7pm	4,262	4,075	17,039	23,446	3,209	3,475	26,114	25,867	1,801	2,003	2,507	3,249
6am-7pm	11,199	11,838	53,744	60,586	8,979	8,532	78,818	78,292	3,651	3,920	6,945	7,887

* To Queens

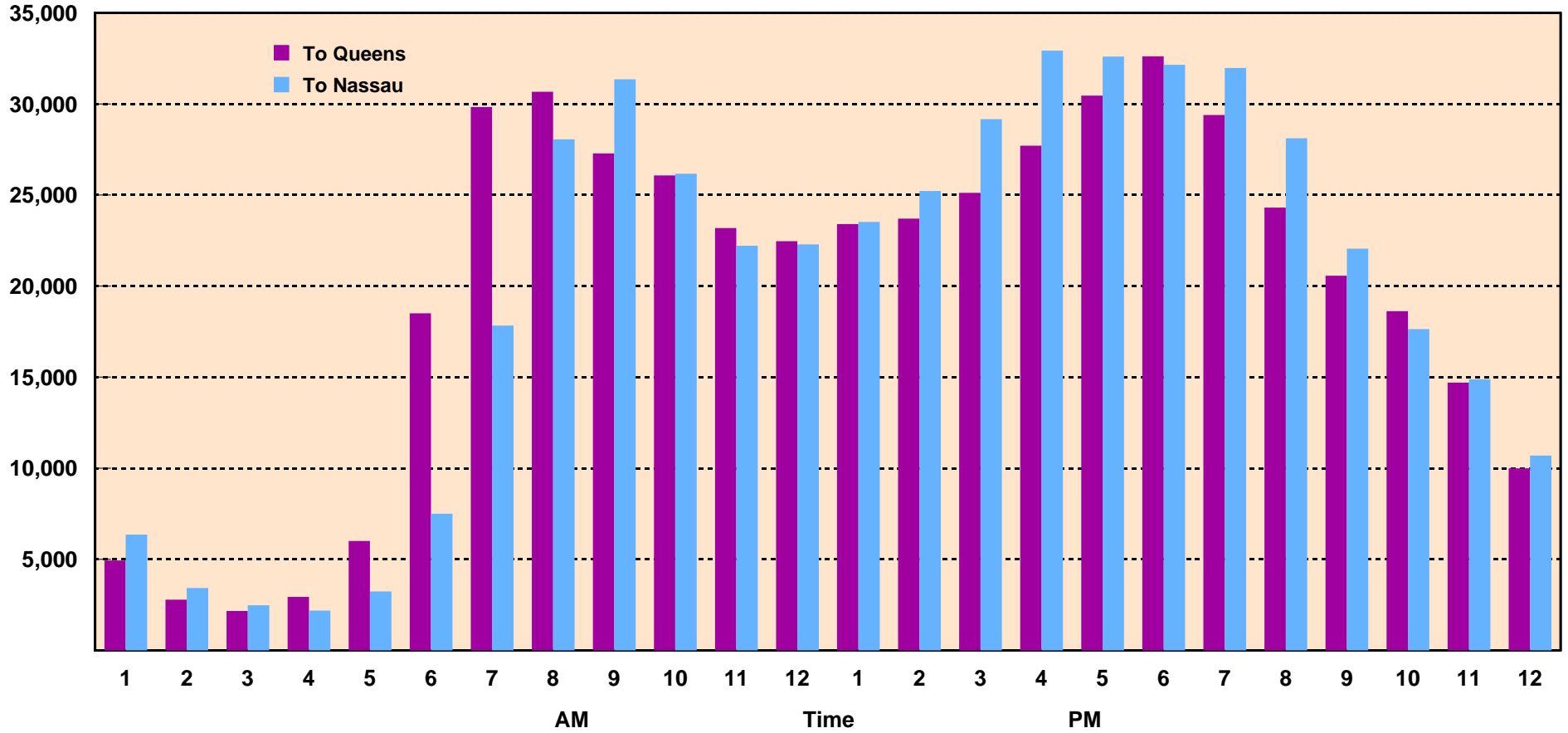
2008 Screenline Volumes Queens - Nassau (cont'd)

	Northern Blvd		Rockaway Blvd		Seagirt Blvd		Sunrise Hwy		Union Tpke		Totals	
	<i>* W/B</i>	<i>E/B</i>	<i>* N/B</i>	<i>S/B</i>	<i>* W/B</i>	<i>E/B</i>	<i>* W/B</i>	<i>E/B</i>	<i>* W/B</i>	<i>E/B</i>	To Queens	To Nassau
Mid-1am	139	131	370	623	137	79	232	315	69	58	4,928	6,355
1-2am	73	78	219	330	72	38	140	178	30	30	2,782	3,426
2-3am	44	45	156	221	35	28	119	114	22	13	2,163	2,479
3-4am	42	33	205	174	25	36	146	99	23	11	2,931	2,187
4-5am	65	49	448	247	41	69	311	156	42	21	6,003	3,231
5-6am	276	139	1,205	492	105	183	925	430	117	75	18,503	7,498
6-7am	965	400	2,246	1,195	440	396	1,772	864	467	190	29,832	17,836
7-8am	1,393	1,130	2,868	1,913	1,001	640	1,926	1,324	632	427	30,670	28,056
8-9am	1,341	1,470	2,645	2,067	803	685	1,707	1,764	527	805	27,287	31,357
9-10am	1,314	1,326	2,177	1,765	560	493	1,560	1,726	508	610	26,075	26,172
10-11am	1,163	1,058	1,927	1,654	399	426	1,524	1,719	527	473	23,192	22,216
11-Noon	1,177	1,056	1,927	1,663	419	461	1,603	1,814	649	495	22,468	22,293
Noon-1	1,270	1,095	2,009	1,921	442	473	1,774	1,972	752	584	23,409	23,527
1-2pm	1,222	1,110	2,086	2,051	473	520	1,842	2,029	722	642	23,705	25,224
2-3pm	1,223	1,141	2,123	2,215	542	614	1,882	2,093	736	608	25,120	29,172
3-4pm	1,342	1,277	2,314	2,595	607	972	1,876	2,541	806	678	27,711	32,930
4-5pm	1,393	1,335	2,380	2,592	662	850	1,991	2,657	961	732	30,455	32,603
5-6pm	1,465	1,381	2,428	2,699	716	751	2,114	2,687	1,139	705	32,616	32,145
6-7pm	1,357	1,352	2,026	2,700	641	577	1,932	2,451	852	675	29,396	31,977
7-8pm	1,103	1,126	1,908	2,352	550	497	1,810	2,146	602	499	24,307	28,119
8-9pm	844	768	1,512	1,941	474	354	1,732	1,535	470	297	20,569	22,058
9-10pm	724	576	1,166	1,548	390	252	1,634	1,014	331	207	18,628	17,635
10-11pm	522	394	1,033	1,339	328	224	983	751	209	147	14,694	14,880
11-Mid	308	248	789	996	237	190	624	456	145	92	9,993	10,692
24 hr Total	20,765	18,718	38,167	37,293	10,099	9,808	32,159	32,835	11,338	9,074	477,437	474,068
6-10am	5,013	4,326	9,936	6,940	2,804	2,214	6,965	5,678	2,134	2,032	113,864	103,421
10am-1pm	3,610	3,209	5,863	5,238	1,260	1,360	4,901	5,505	1,928	1,552	69,069	68,036
1-3pm	2,445	2,251	4,209	4,266	1,015	1,134	3,724	4,122	1,458	1,250	48,825	54,396
3-7pm	5,557	5,345	9,148	10,586	2,626	3,150	7,913	10,336	3,758	2,790	120,178	129,655
6am-7pm	16,625	15,131	29,156	27,030	7,705	7,858	23,503	25,641	9,278	7,624	351,936	355,508

* To Queens

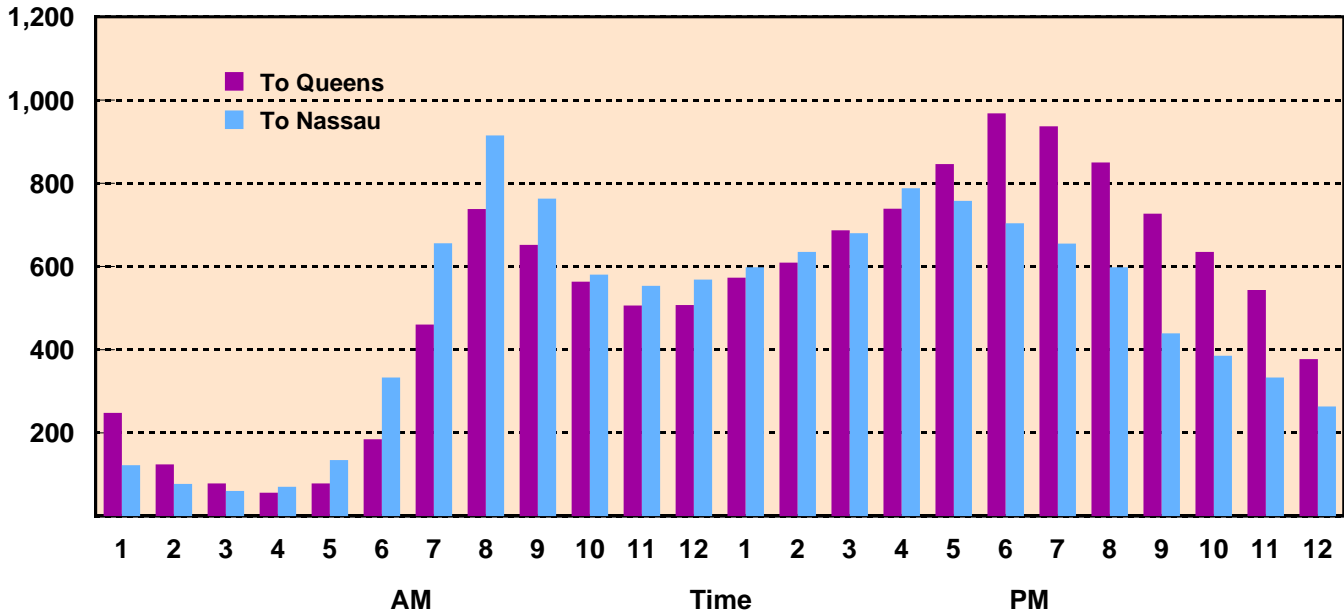
Queens-Nassau Screenline

Total Hourly Vehicle Volumes - 2008

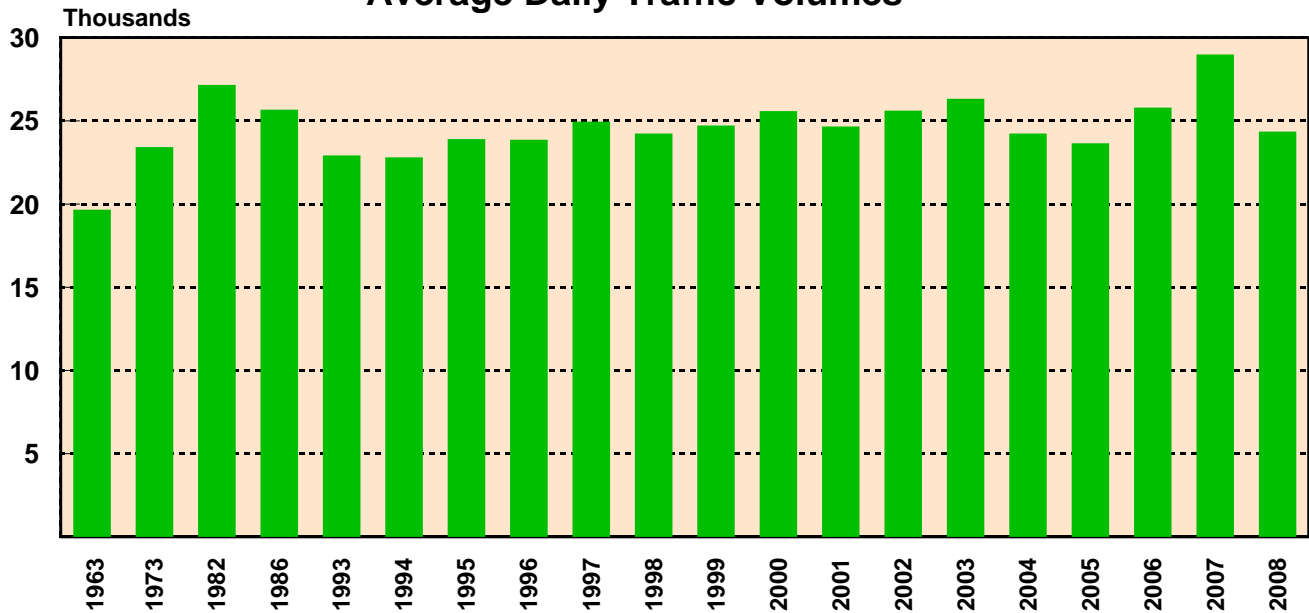


Queens-Nassau Screenline Volumes

Beach Channel Drive - 2008 Hourly Vehicular Volumes

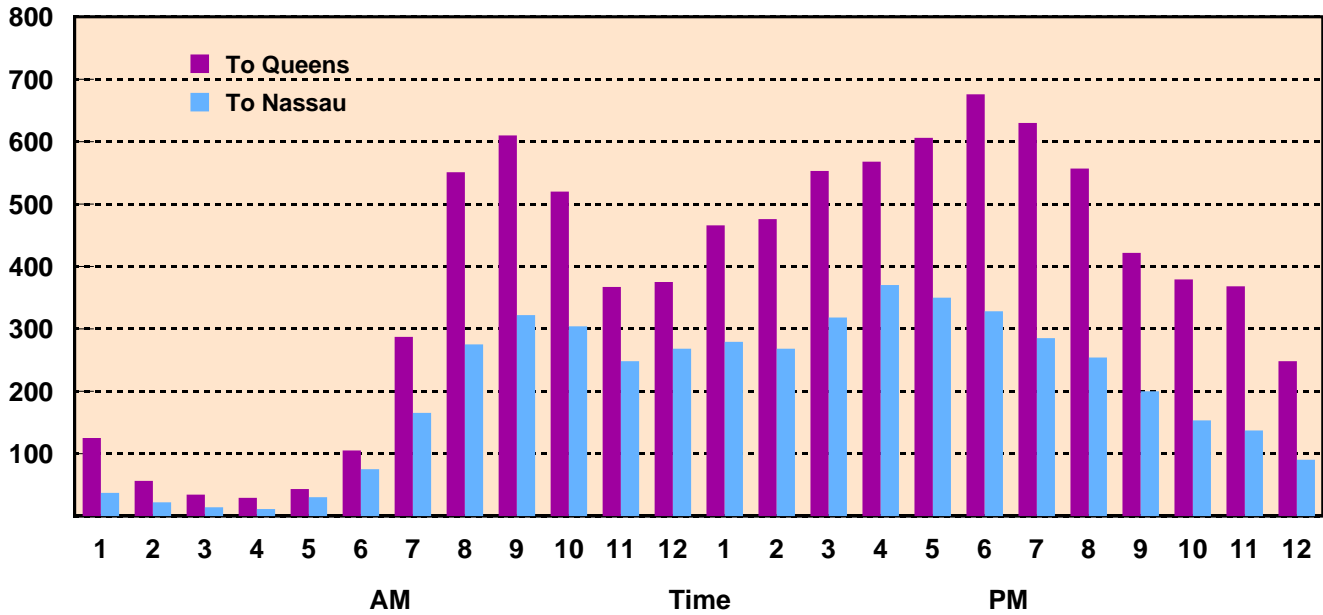


Beach Channel Drive Average Daily Traffic Volumes

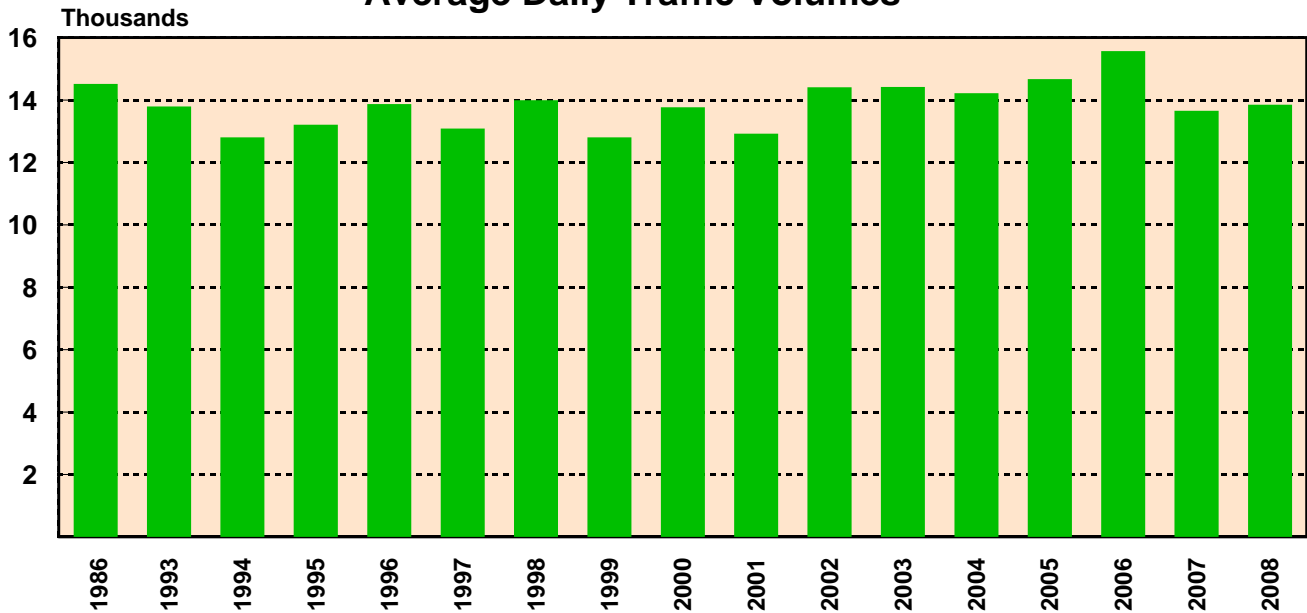


Queens-Nassau Screenline Volumes

Central Avenue - 2008 Hourly Vehicular Volumes

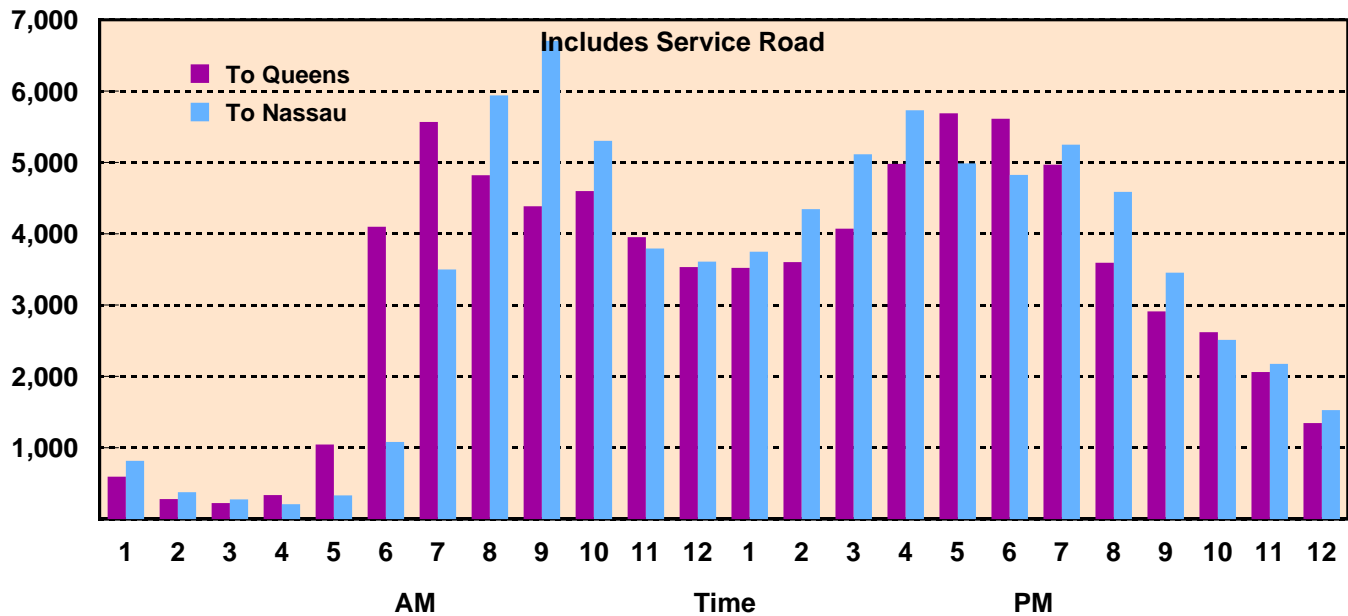


Central Avenue Average Daily Traffic Volumes

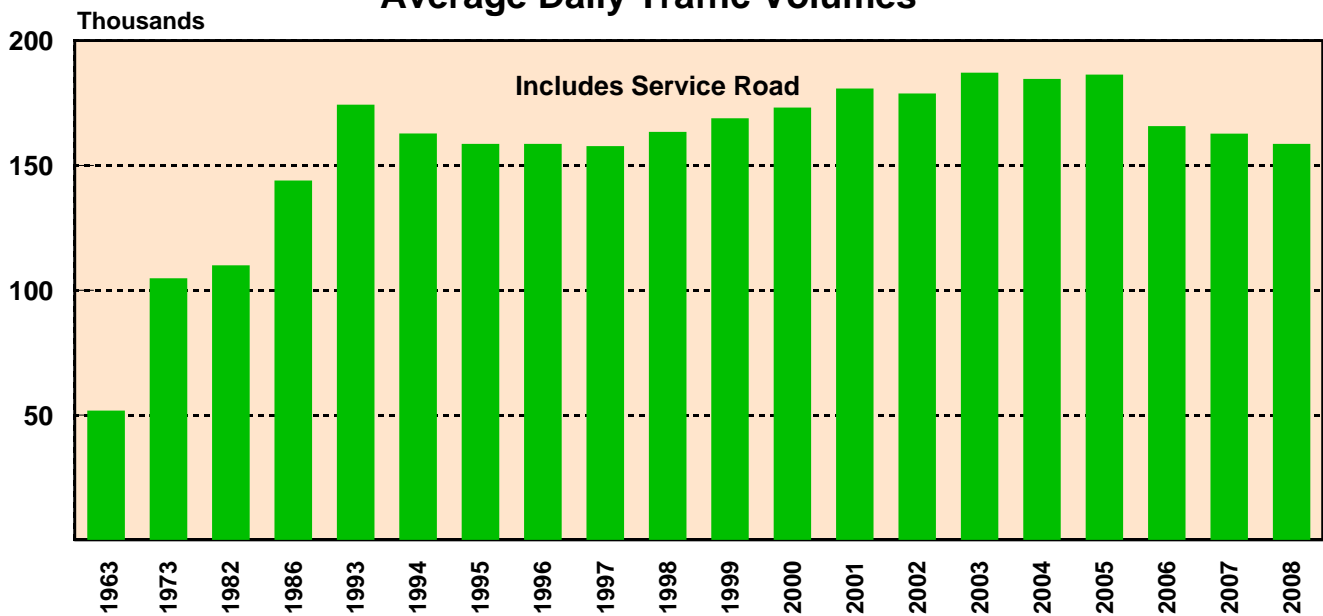


Queens-Nassau Screenline Volumes

Grand Central Parkway - 2008 Hourly Vehicular Volumes

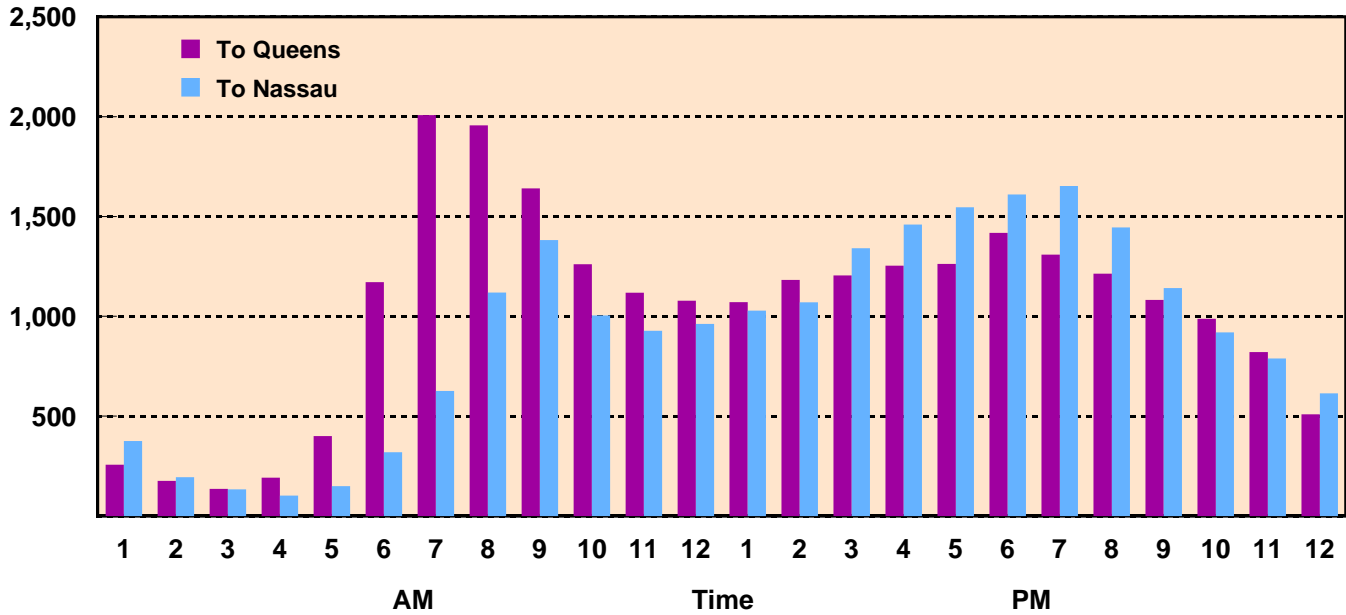


Grand Central Parkway Average Daily Traffic Volumes

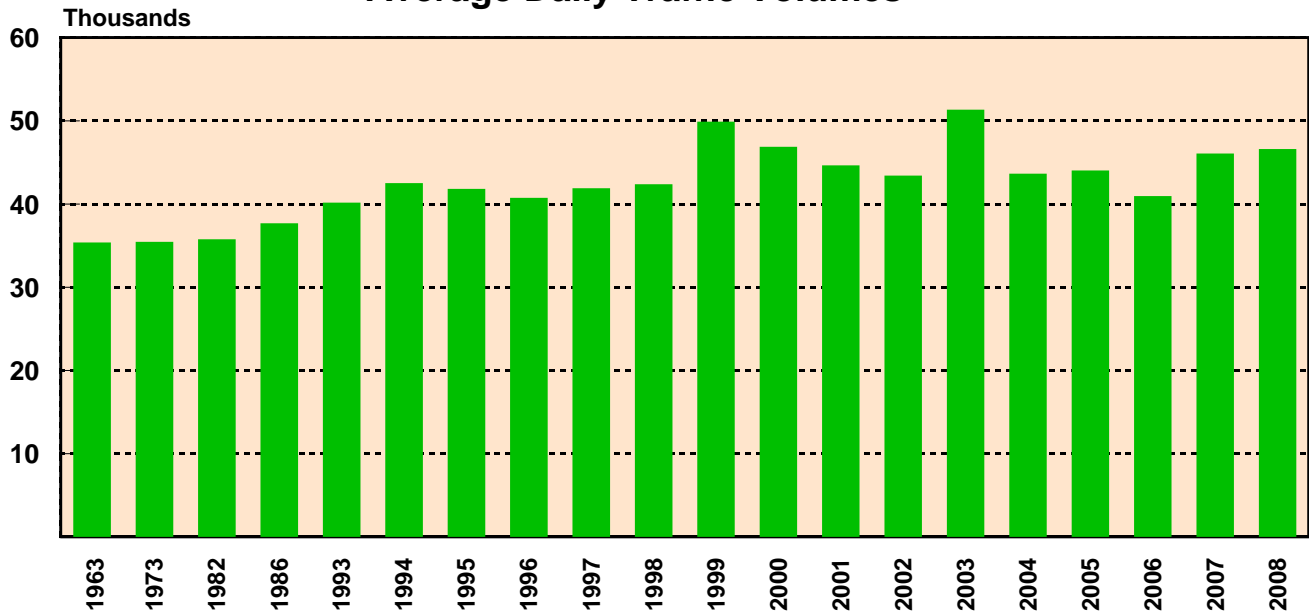


Queens-Nassau Screenline Volumes

Hempstead Avenue - 2008 Hourly Vehicular Volumes

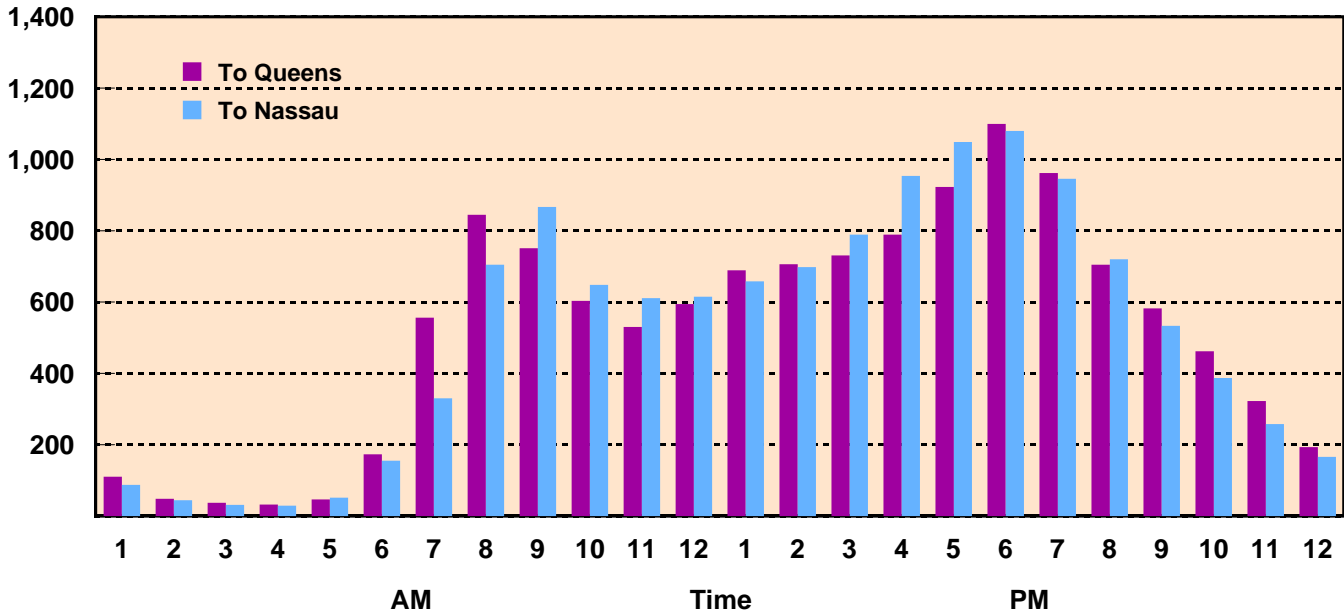


Hempstead Avenue Average Daily Traffic Volumes

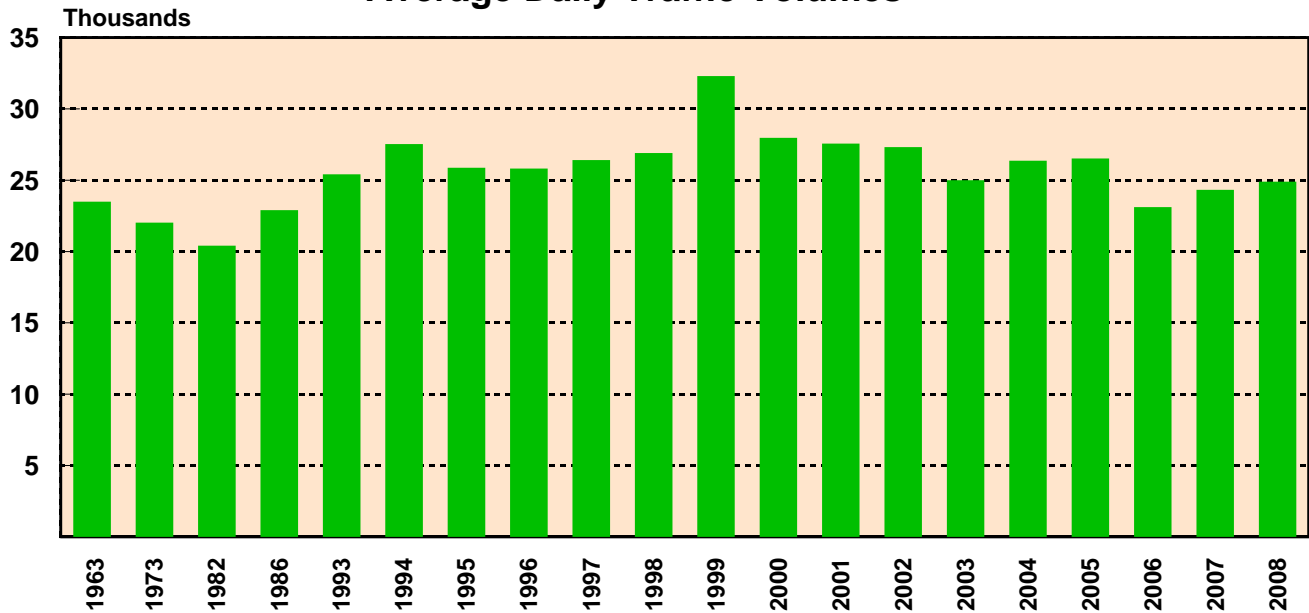


Queens-Nassau Screenline Volumes

Hillside Avenue - 2008 Hourly Vehicular Volumes

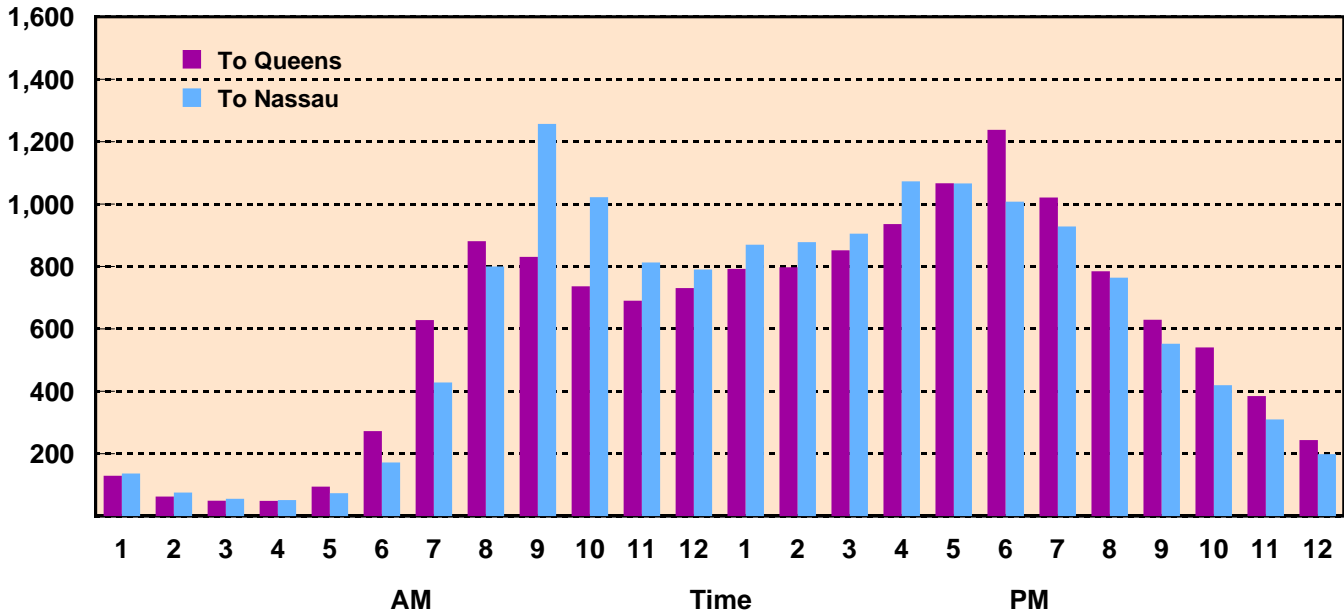


Hillside Avenue Average Daily Traffic Volumes

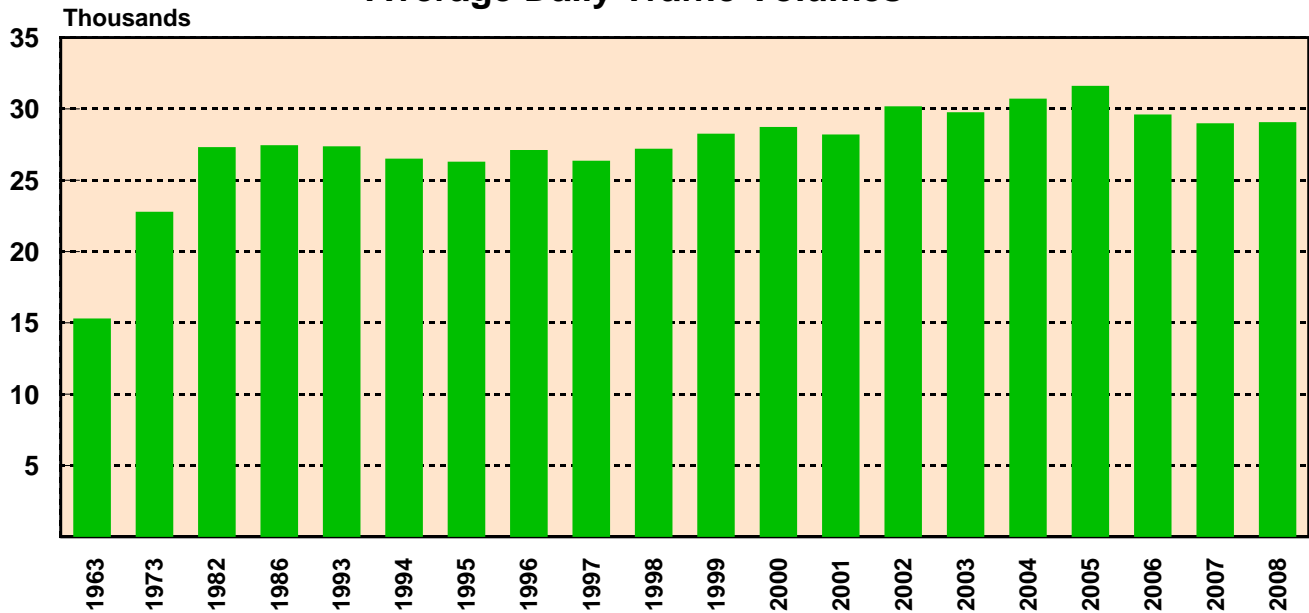


Queens-Nassau Screenline Volumes

Jamaica Avenue - 2008 Hourly Vehicular Volumes

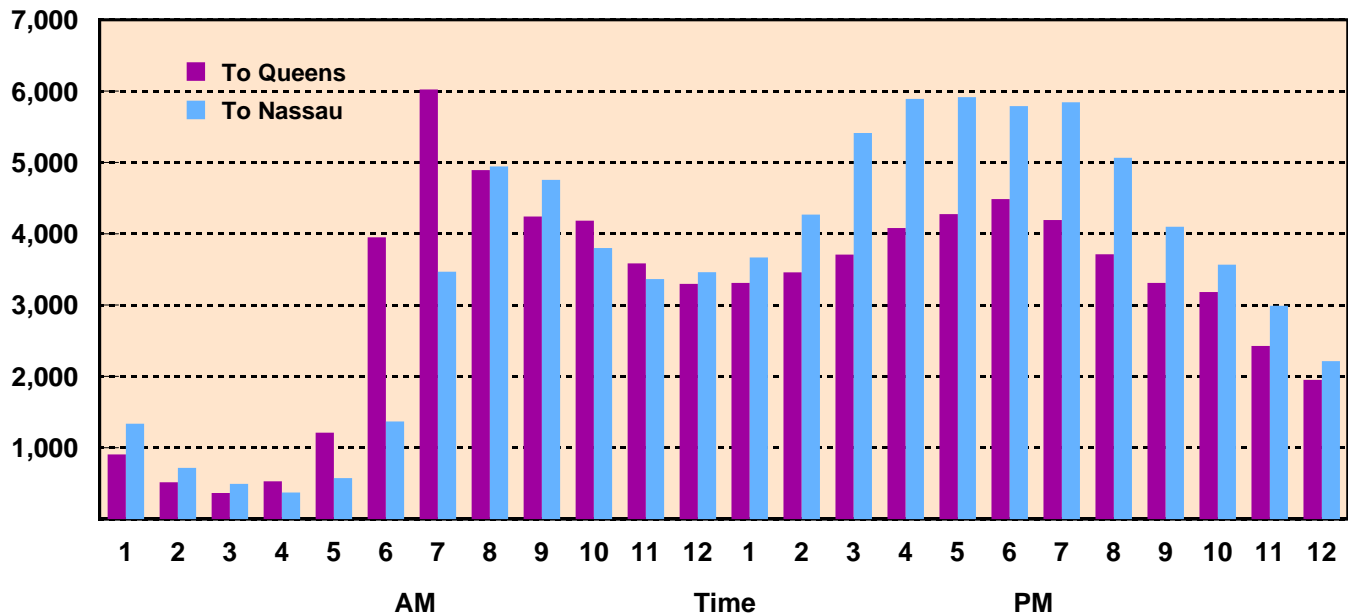


Jamaica Avenue Average Daily Traffic Volumes

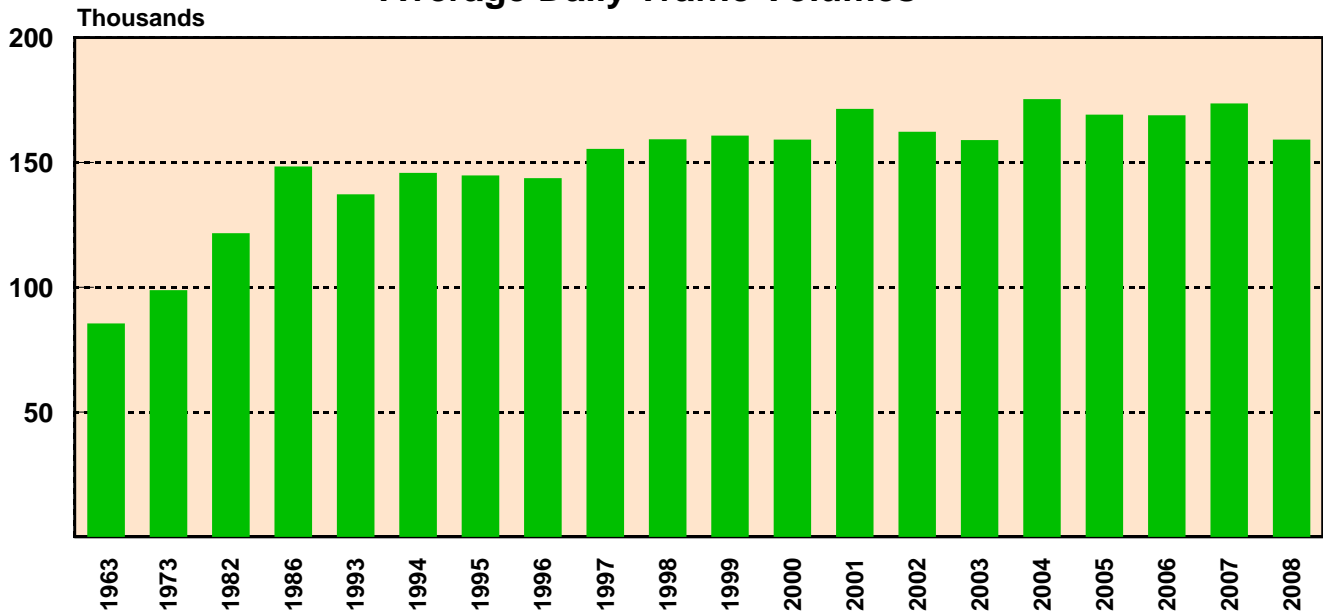


Queens-Nassau Screenline Volumes

Laurelton Parkway - 2008 Hourly Vehicular Volumes

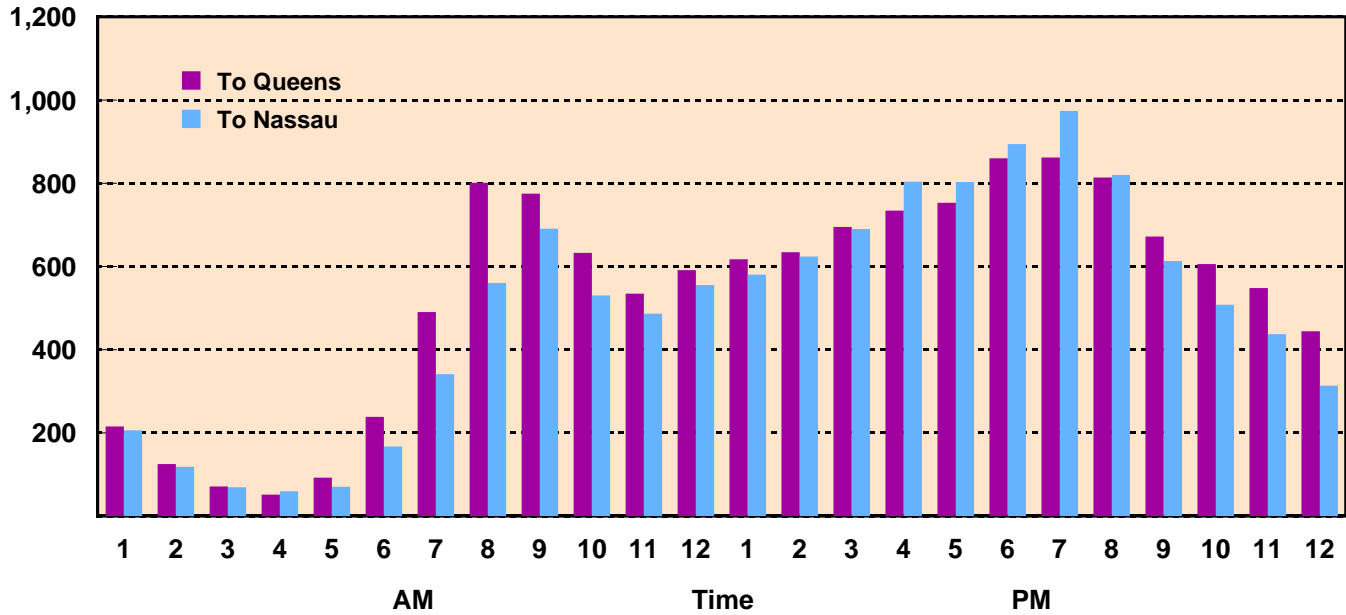


Laurelton Parkway Average Daily Traffic Volumes

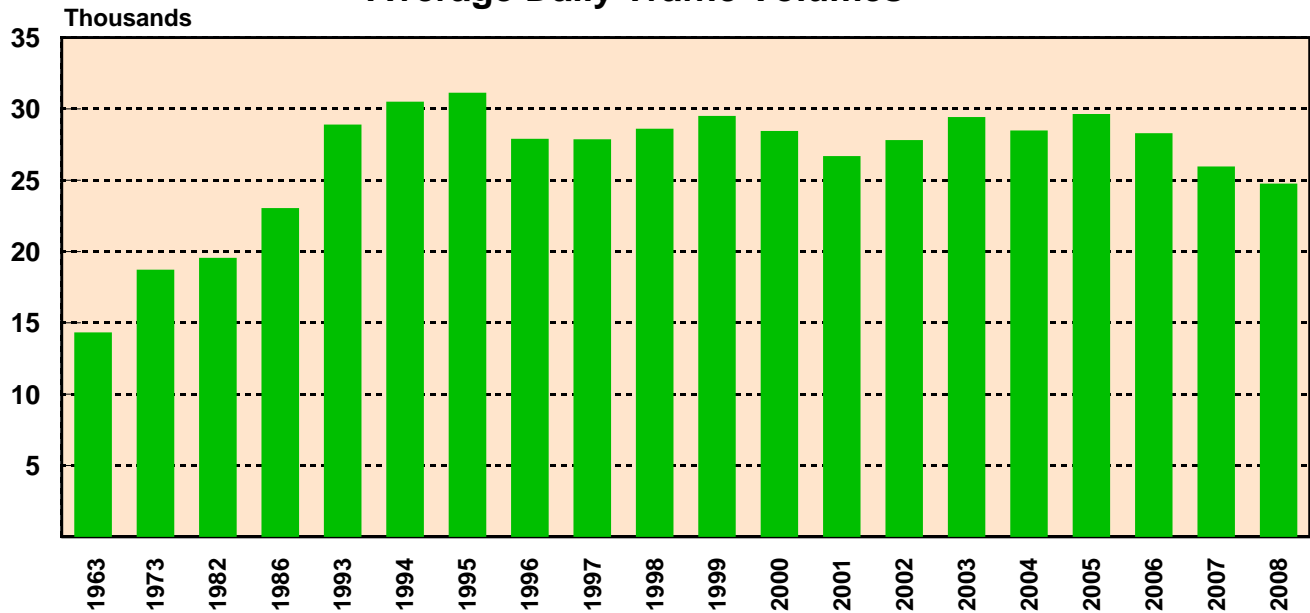


Queens-Nassau Screenline Volumes

Linden Boulevard - 2008 Hourly Vehicular Volumes

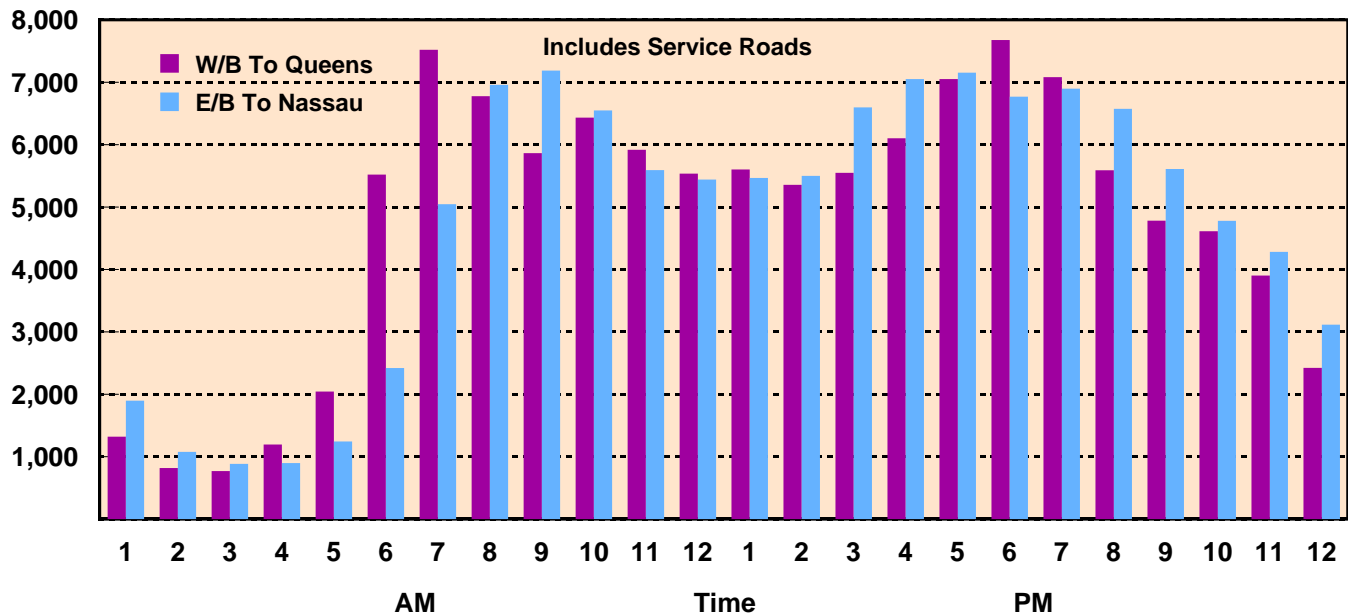


Linden Boulevard Average Daily Traffic Volumes

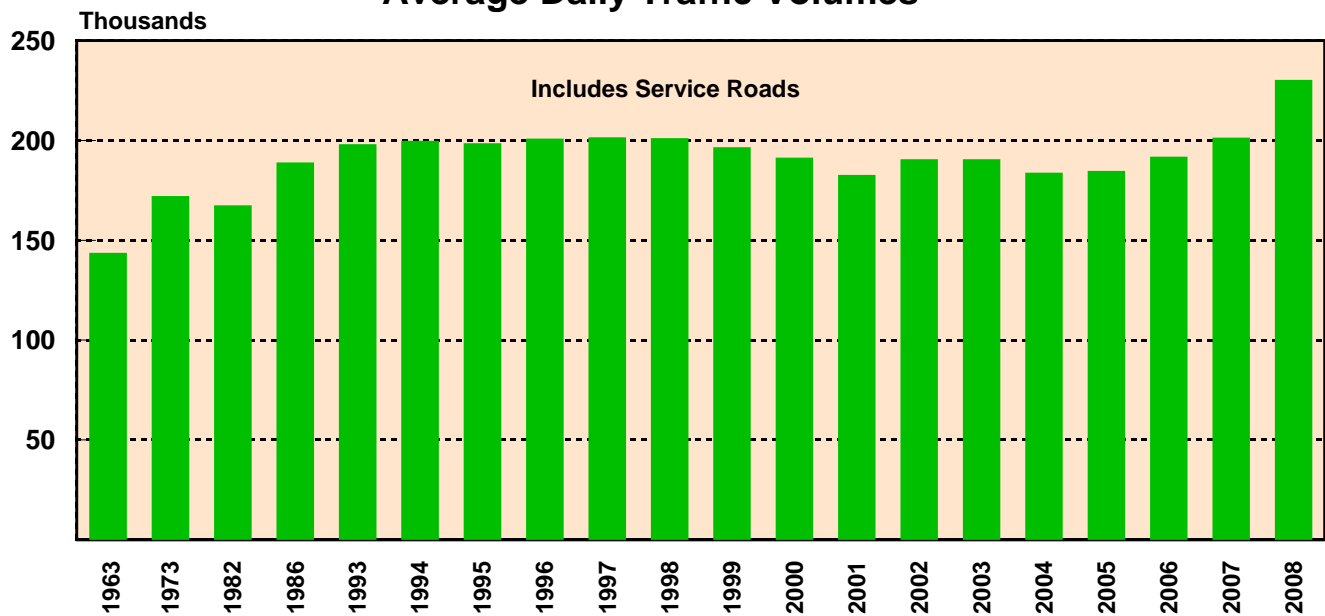


Queens-Nassau Screenline Volumes

Long Island Expressway - 2008 Hourly Vehicular Volumes

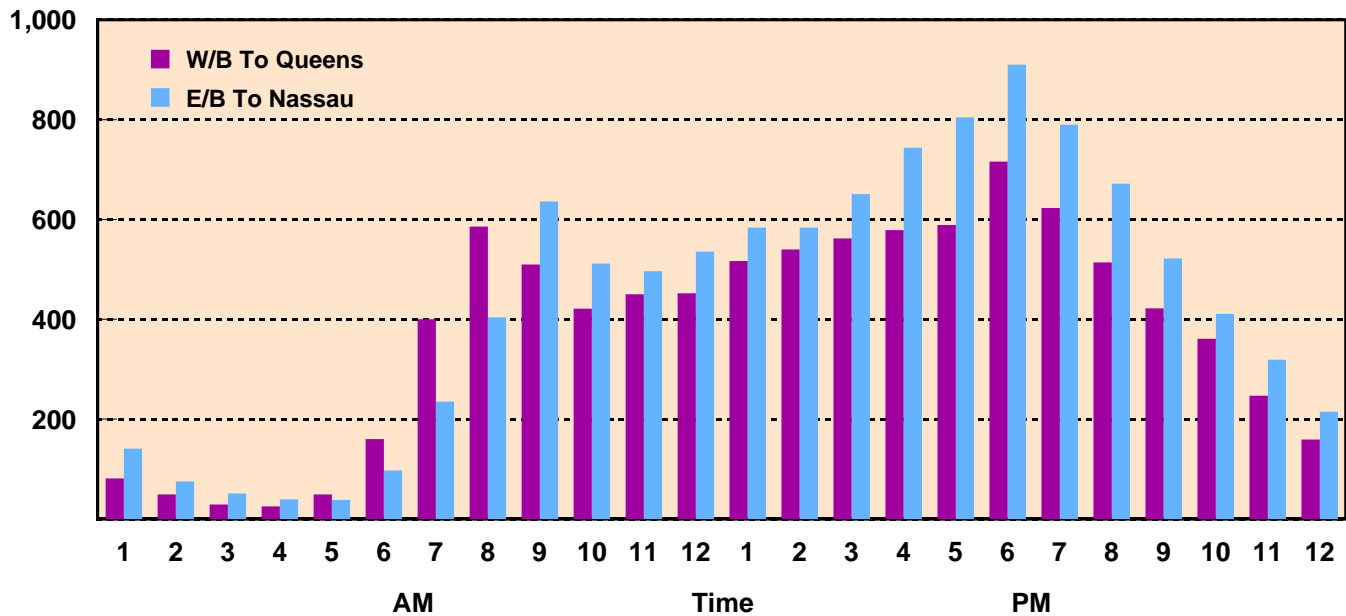


Long Island Expressway Average Daily Traffic Volumes

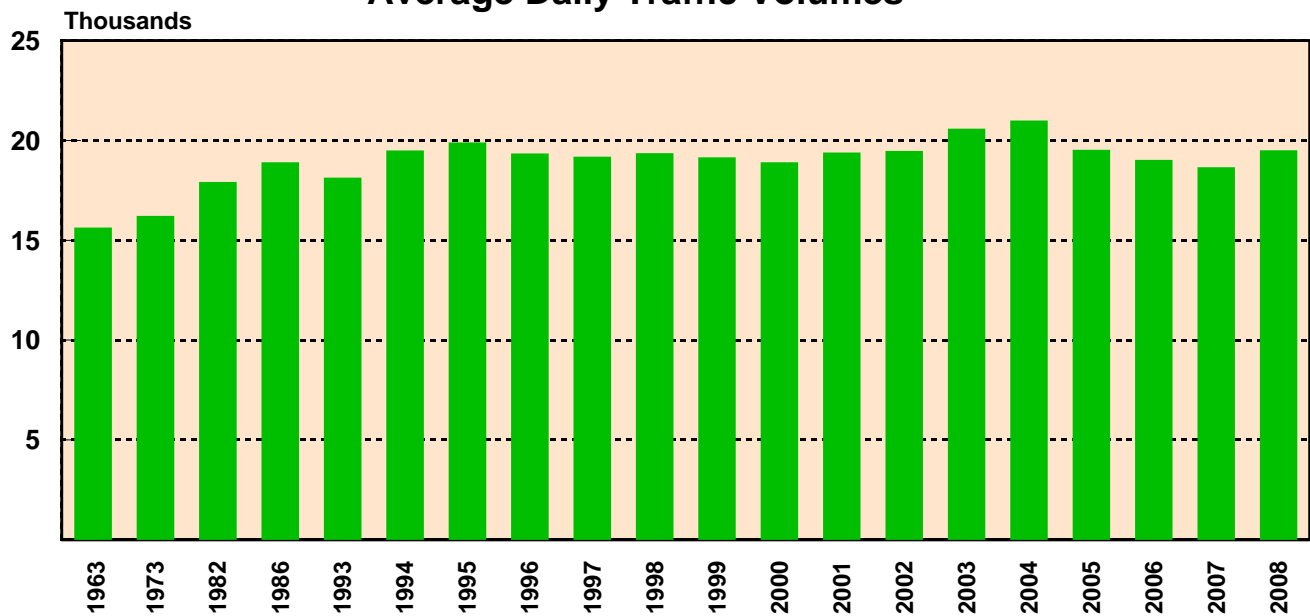


Queens-Nassau Screenline Volumes

Merrick Boulevard - 2008 Hourly Vehicular Volumes

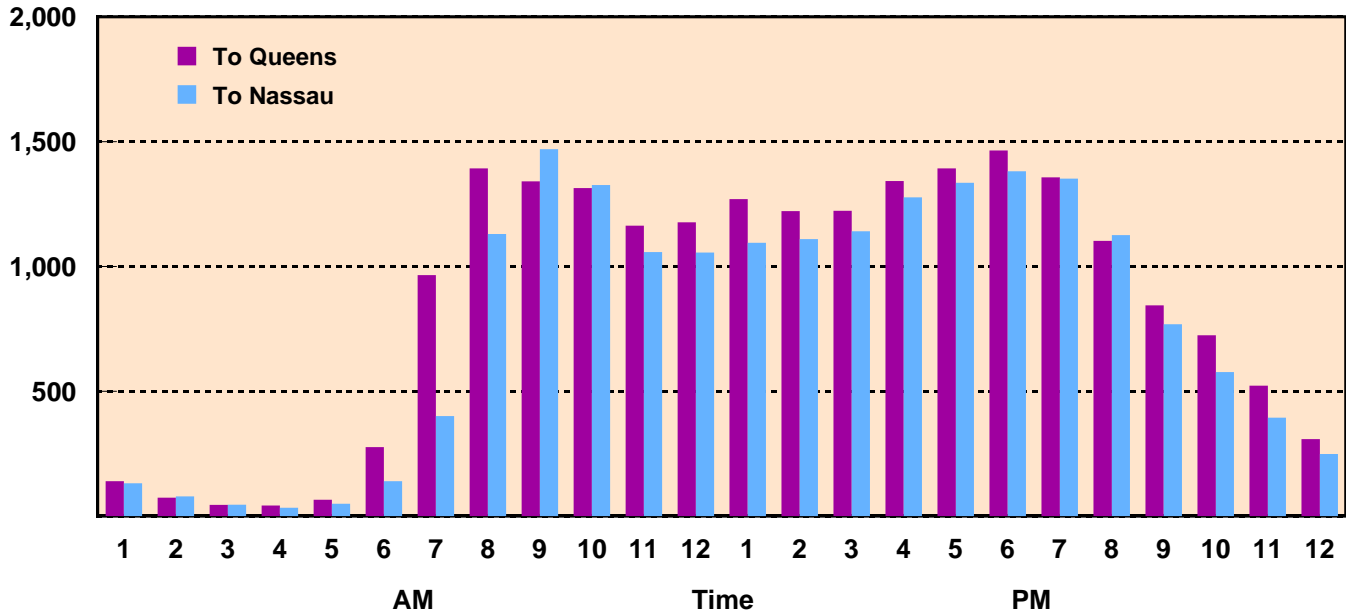


Merrick Boulevard Average Daily Traffic Volumes

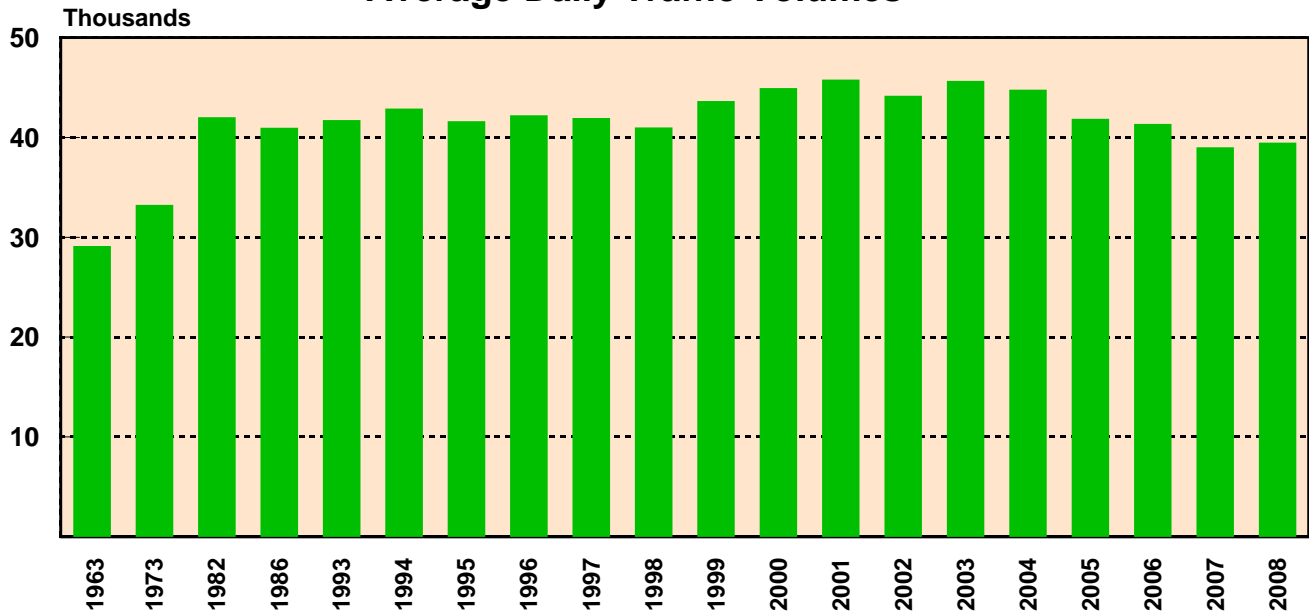


Queens-Nassau Screenline Volumes

Northern Boulevard - 2008 Hourly Vehicular Volumes

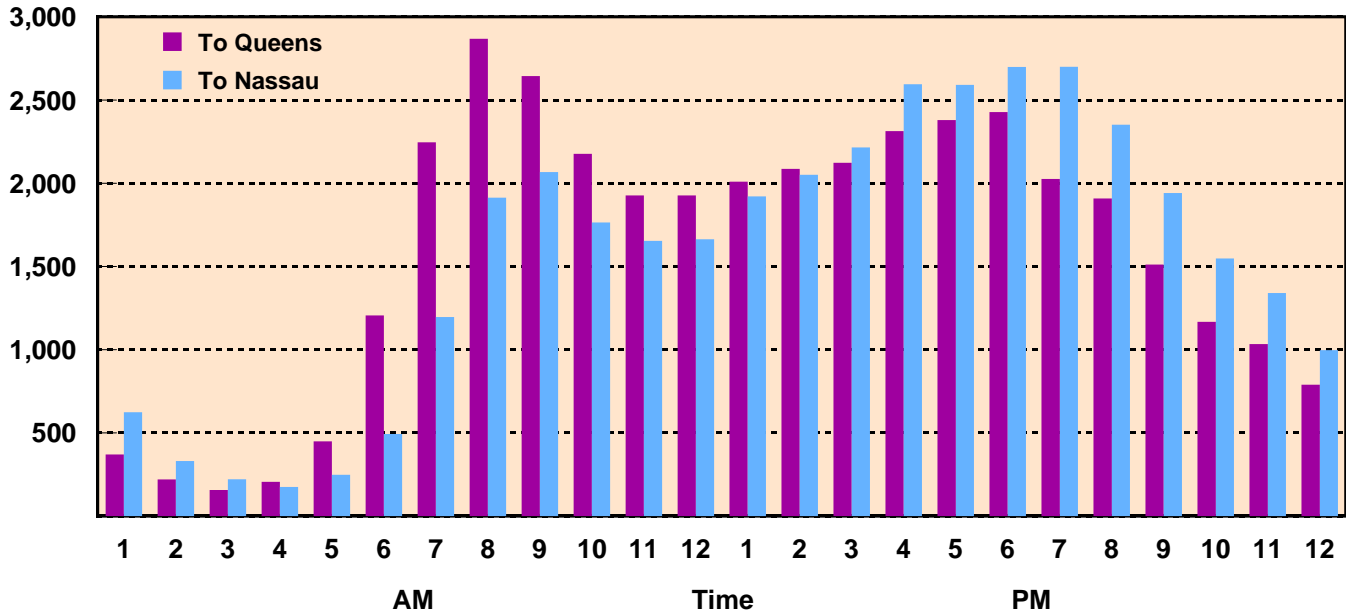


Northern Boulevard Average Daily Traffic Volumes

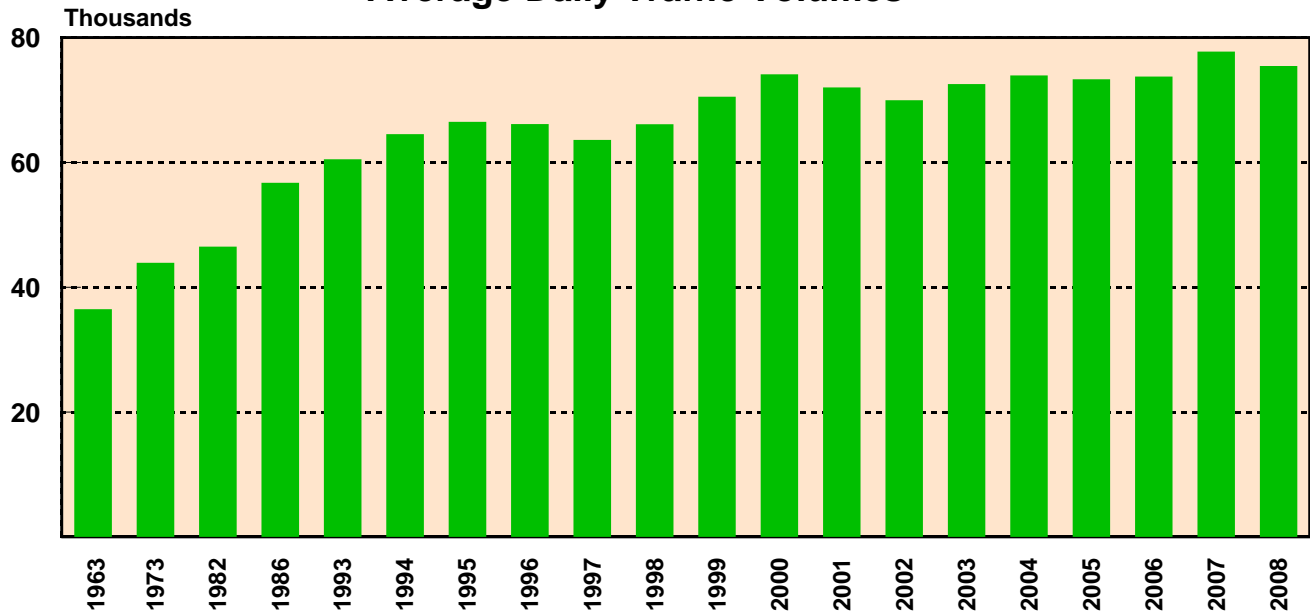


Queens-Nassau Screenline Volumes

Rockaway Boulevard - 2008 Hourly Vehicular Volumes

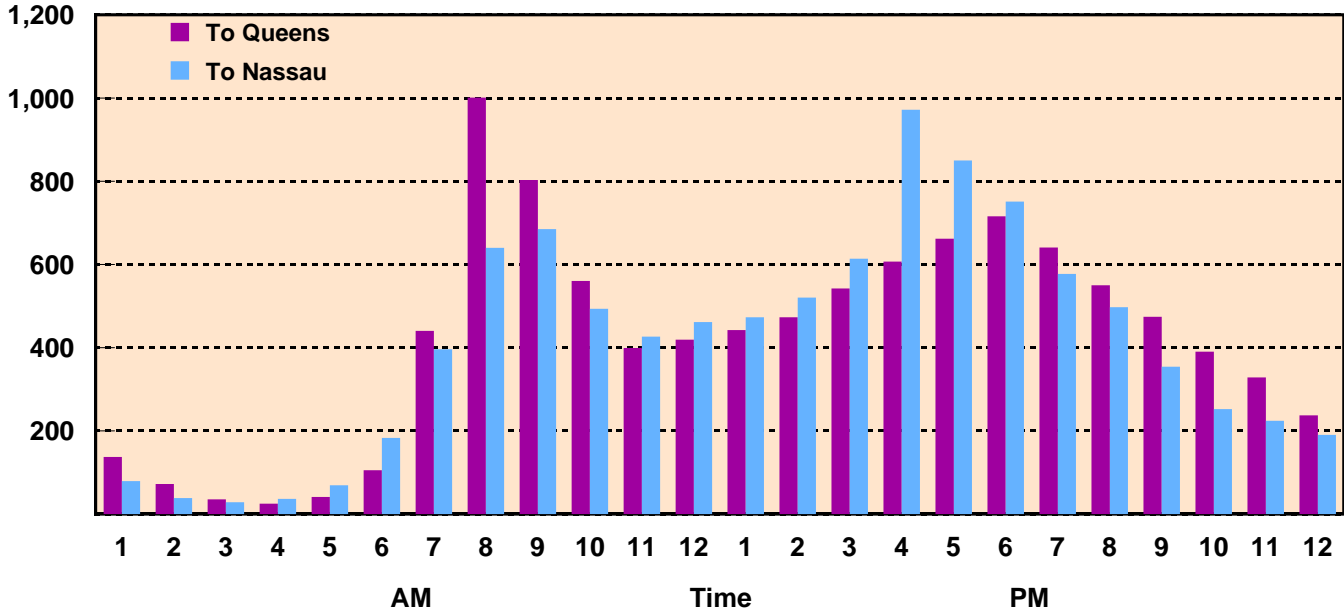


Rockaway Boulevard Average Daily Traffic Volumes

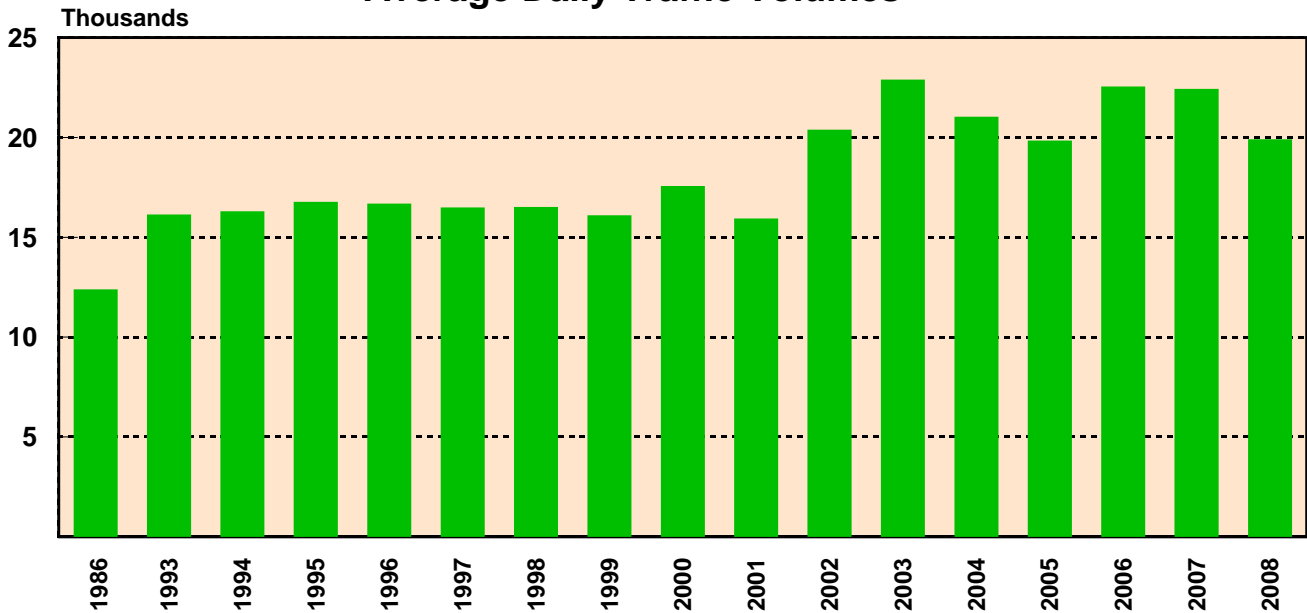


Queens-Nassau Screenline Volumes

Seagirt Boulevard - 2008 Hourly Vehicular Volumes

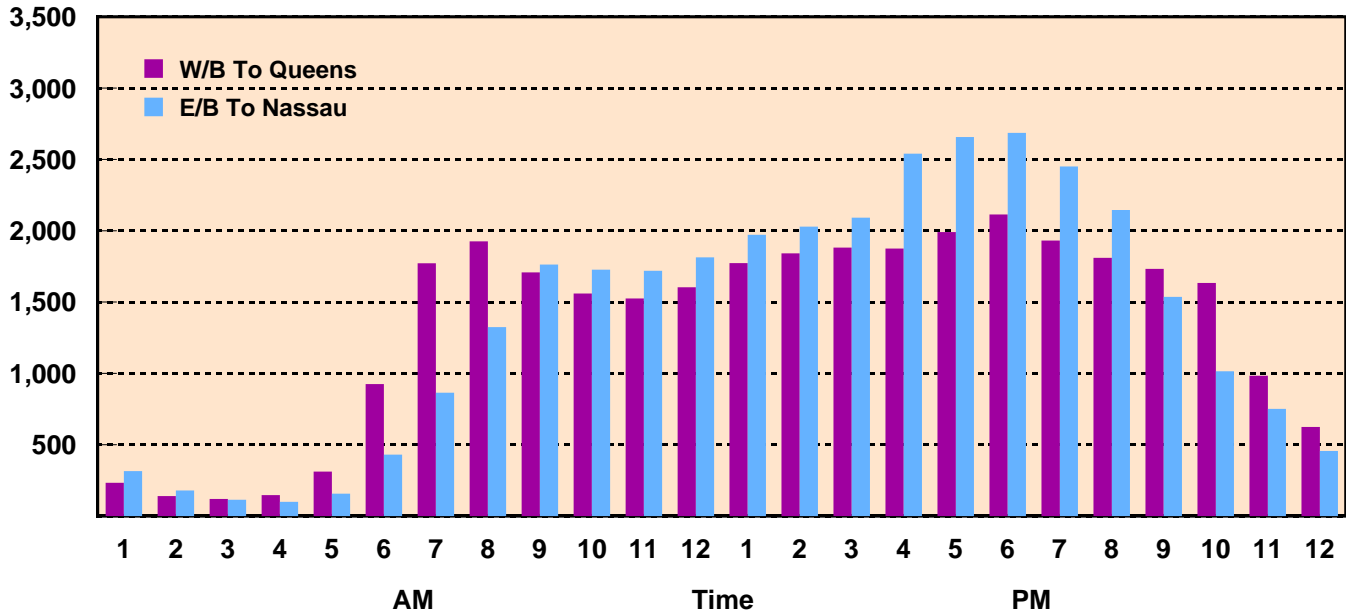


Seagirt Boulevard Average Daily Traffic Volumes

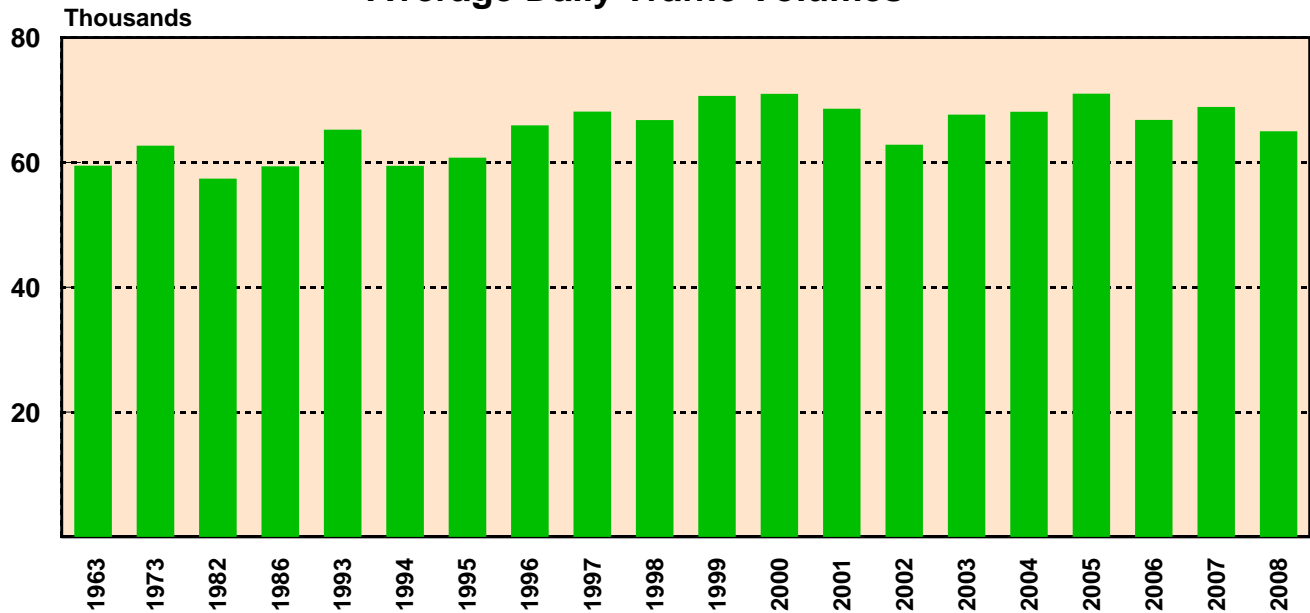


Queens-Nassau Screenline Volumes

Sunrise Highway - 2008 Hourly Vehicular Volumes

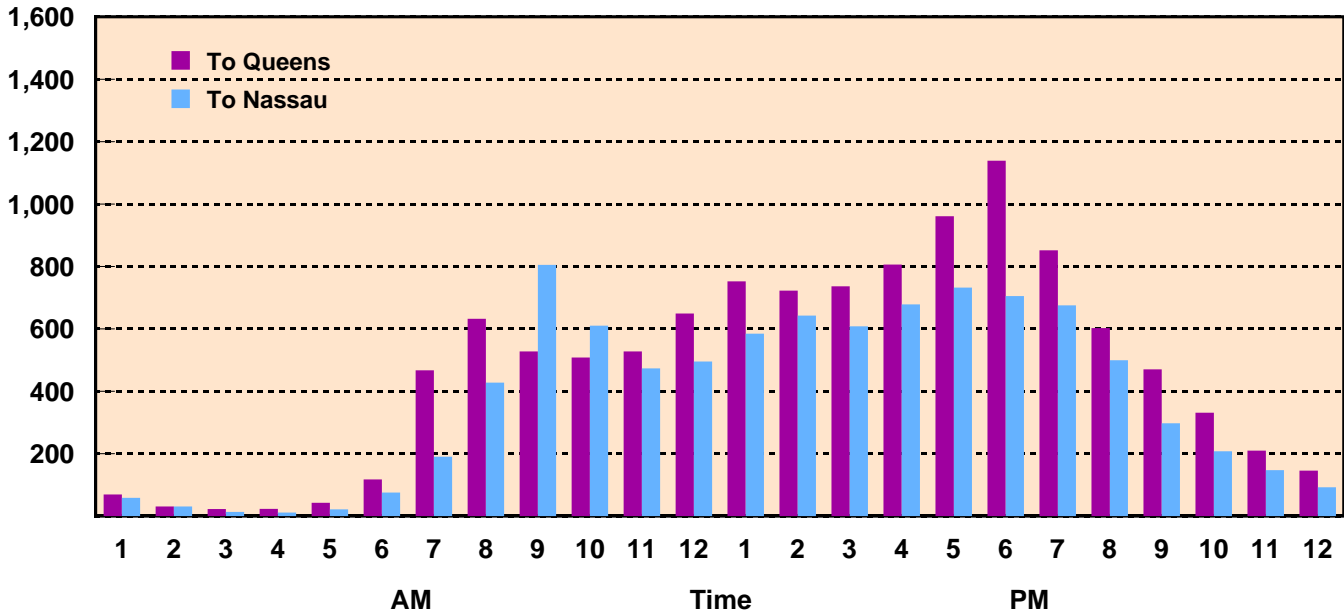


Sunrise Highway Average Daily Traffic Volumes

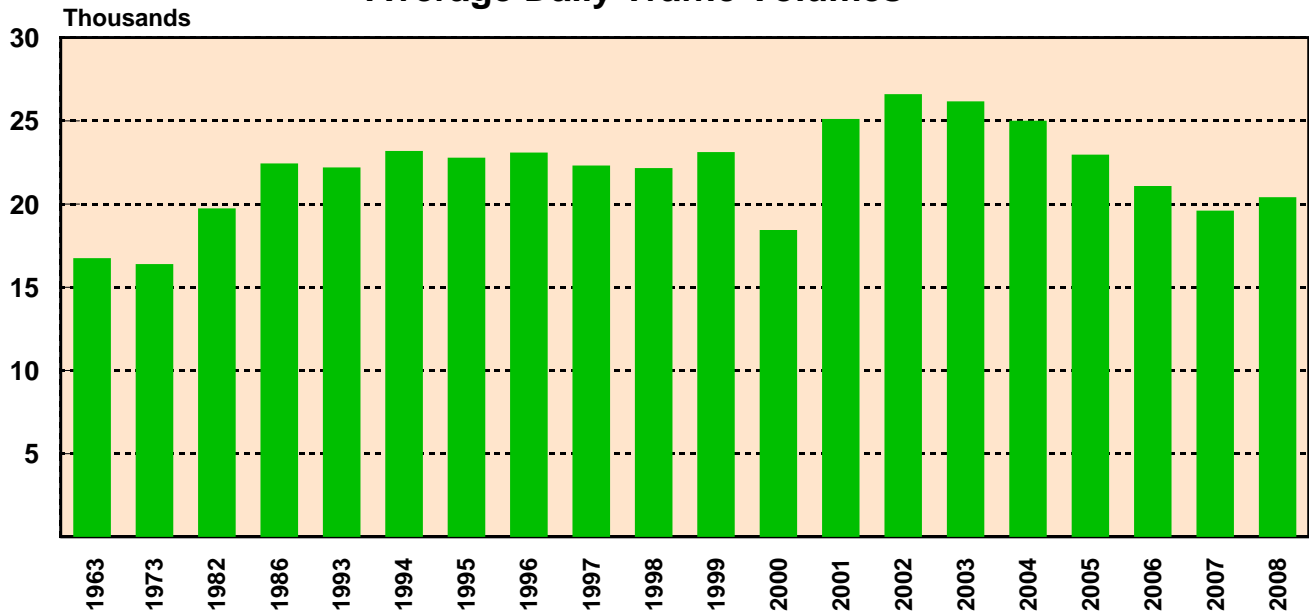


Queens-Nassau Screenline Volumes

Union Turnpike - 2008 Hourly Vehicular Volumes



Union Turnpike Average Daily Traffic Volumes



New York – New Jersey Screenline



Bayonne Bridge between Staten Island and New Jersey.

NEW YORK - NEW JERSEY SCREENLINE

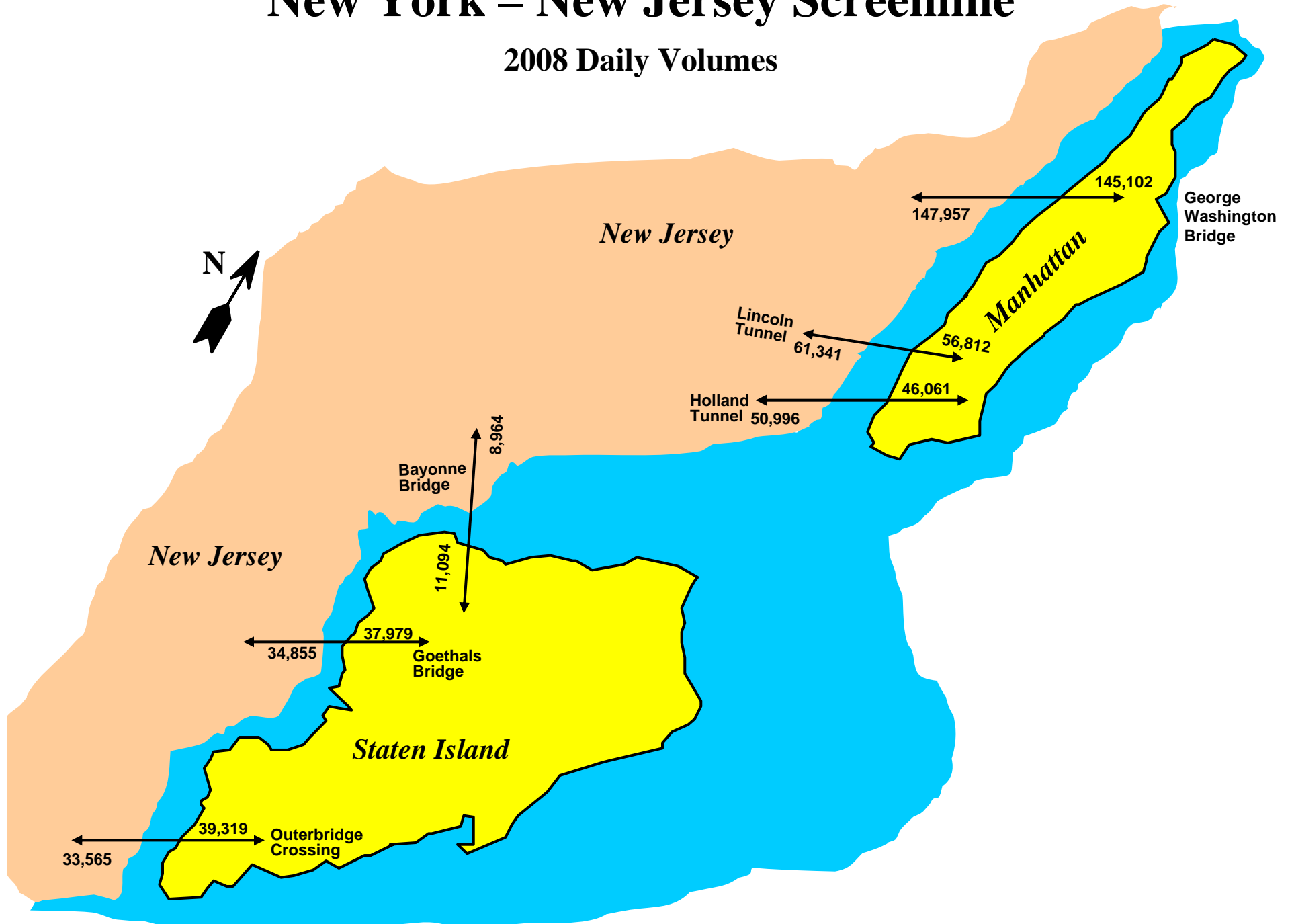
- In 1963, daily traffic between Manhattan and New Jersey averaged 265,600 vehicles. The George Washington Bridge was the most heavily-traveled crossing, serving 127,500 vehicles per day (48.0% of the total).
- Between 1963 and 1973, Manhattan-New Jersey volume grew to 397,200 vehicles per day, an increase of 49.5% (131,600 additional daily vehicles). George Washington Bridge volume increased 82.6% (to 232,700 from 127,500), partly as a result of the opening of the 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. That increase of 105,200 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 99,800 daily vehicles from 79,300 and Holland Tunnel traffic was up 10.1% to 64,700 from 58,800.
- Growth slowed considerably between 1973 and 1982, with daily Manhattan-New Jersey volume increasing by just 36,500 vehicles (+9.2%) to 433,700. Daily traffic was up 14.3% to 74,000 through the Holland Tunnel, up 10.7% to 110,500 through the Lincoln Tunnel, and up 7.1% to 249,300 via the George Washington Bridge.
- Faster growth resumed between 1982 and 1986, as daily Manhattan-New Jersey traffic reached 485,800, up 12.0% over the four-year period. Daily volume was up 14.9% to 286,400 via the George Washington Bridge, up 10.5% to 122,100 through the Lincoln Tunnel, and up 4.5% to 77,300 through the Holland Tunnel.
- From 1986 to 1998, Manhattan-New Jersey traffic increased 7.6%, to 522,500 daily vehicles from 485,800. Volume was up 30.5% through the Holland Tunnel, to 100,900 daily vehicles from 77,300 (increase of 23,600 daily vehicles), up 3.8% at the George Washington Bridge (to 297,200 daily vehicles from 286,400), and up 2.0% through the Lincoln Tunnel (to 124,500 daily vehicles from 122,100).
- During the 45 years from 1963 to 2008, daily traffic between Manhattan and New Jersey nearly doubled, to 508,300 from 265,600. George Washington Bridge traffic climbed 130%, to 293,100 from 127,500. Volume increased 49% at the Lincoln Tunnel (to 118,200 from 79,300), and 65% at the Holland Tunnel (to 97,100 from 58,800).
- In 1963, Staten Island-New Jersey screenline traffic was only 27,400 vehicles per day. The highest volume was on the Goethals Bridge, 12,500 vehicles per day.
- By 1973, motor travel between Staten Island and New Jersey had nearly tripled, to 81,000 daily vehicles, amplified 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 355.6%, to 56,900 daily vehicles from 12,500 just ten years earlier. Daily volume increased 64.8% at the Outerbridge Crossing (to 11,700 from 7,100), and 59.6% at the Bayonne Bridge (to 12,500 from 7,800).
- Growth slowed between 1973 and 1982; nevertheless, Staten Island-New Jersey traffic volume rose to 106,700 daily vehicles, an increase of 31.6% during the nine-year period, the highest rate of any City border screenline. Virtually all growth was concentrated at the Outerbridge Crossing, where volume nearly quadrupled, to 44,700 daily vehicles. Completion of the West Shore Expressway in the late 1970s provided a continuous limited access route between the Outerbridge Crossing and the Verrazano-

Narrows Bridge. Bayonne Bridge traffic increased 9.3%, to 13,600. On the other hand, daily volume on the Goethals Bridge decreased 15.0%, to 48,300.

- Renewed growth between 1982 and 1986 boosted daily Staten Island-New Jersey traffic volume to 138,400, a gain of 29.8% in just four years. Growth was fairly evenly distributed among the three facilities: Goethals Bridge up 33.8% to 64,600, Outerbridge Crossing up 29.4% to 57,900, Bayonne Bridge up 16.8% to 15,900.
- From 1986 to 1998, Staten Island–New Jersey traffic increased 13.3%. Virtually all of this increase occurred at the Outerbridge Crossing, where daily traffic increased 25.9%, to 72,900 from 57,900. Daily traffic using the Goethals Bridge increased 3.8%, to 67,100 from 64,600. Bayonne Bridge traffic volume was up 5.9%, to 16,800 daily vehicles from 15,900.
- During the 45 years from 1963 to 2008, daily traffic between Staten Island and New Jersey soared 505%, to 165,800 from just 27,400. Outerbridge Crossing traffic skyrocketed more than nine fold, to 72,900 from 7,100. Volume on the Goethals Bridge jumped 484%, to 72,800 from 12,500. Bayonne Bridge traffic increased 157%, to 20,100 from 7,800.

New York – New Jersey Screenline

2008 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
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
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
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
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
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
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
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
Staten Island 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
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

To New York

	2001	2002	2003	2004	2005	2006	2007	2008
G Washington Bridge	155,233	150,758	150,233	152,418	147,861	151,639	148,567	145,102
Holland Tunnel	12,548	45,722	47,727	46,806	46,968	48,161	48,226	46,061
Lincoln Tunnel	54,608	58,415	62,157	62,826	61,460	61,812	61,619	56,812
Manhattan Totals	222,389	254,895	260,117	262,050	256,289	261,612	258,412	247,975
Bayonne Bridge*	14,098	11,684	11,627	12,275	11,933	13,290	12,469	11,094
Goethals Bridge*	39,315	40,419	38,828	37,559	36,905	34,327	38,687	37,979
Outerbridge Crossing*	41,000	38,407	41,653	41,018	41,090	43,723	41,282	39,319
Staten Island Totals	94,413	90,510	92,108	90,852	89,928	91,340	92,438	88,392
Grand Totals	316,802	345,405	352,225	352,902	346,217	352,952	350,850	336,367

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

To New Jersey

	1963	1973	1982	1986	1993	1994	1995	1996	1997	1998	1999	2000
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
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
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
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
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
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
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
Staten Island 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
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

To New Jersey

	2001	2002	2003	2004	2005	2006	2007	2008
G Washington Bridge	154,077	160,013	168,796	162,648	156,441	160,439	142,824	147,957
Holland Tunnel	30,829	46,835	53,370	49,365	49,992	50,264	52,265	50,996
Lincoln Tunnel	51,649	71,096	65,166	62,333	64,995	65,433	60,473	61,341
Manhattan Totals	236,555	277,944	287,332	274,346	271,428	276,136	255,562	260,294
Bayonne Bridge*	9,533	9,643	8,581	10,235	9,822	10,940	8,982	8,964
Goethals Bridge*	38,881	40,965	36,896	33,973	31,885	31,051	34,312	34,855
Outerbridge Crossing*	34,424	38,022	36,997	39,208	40,018	42,583	34,496	33,565
Staten Island Totals	82,838	88,630	82,474	83,416	81,725	84,574	77,790	77,384
Grand Totals	319,393	366,574	369,806	357,762	353,153	360,710	333,352	337,678

* 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
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
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
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
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
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
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
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
Staten Island 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
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

Both Directions

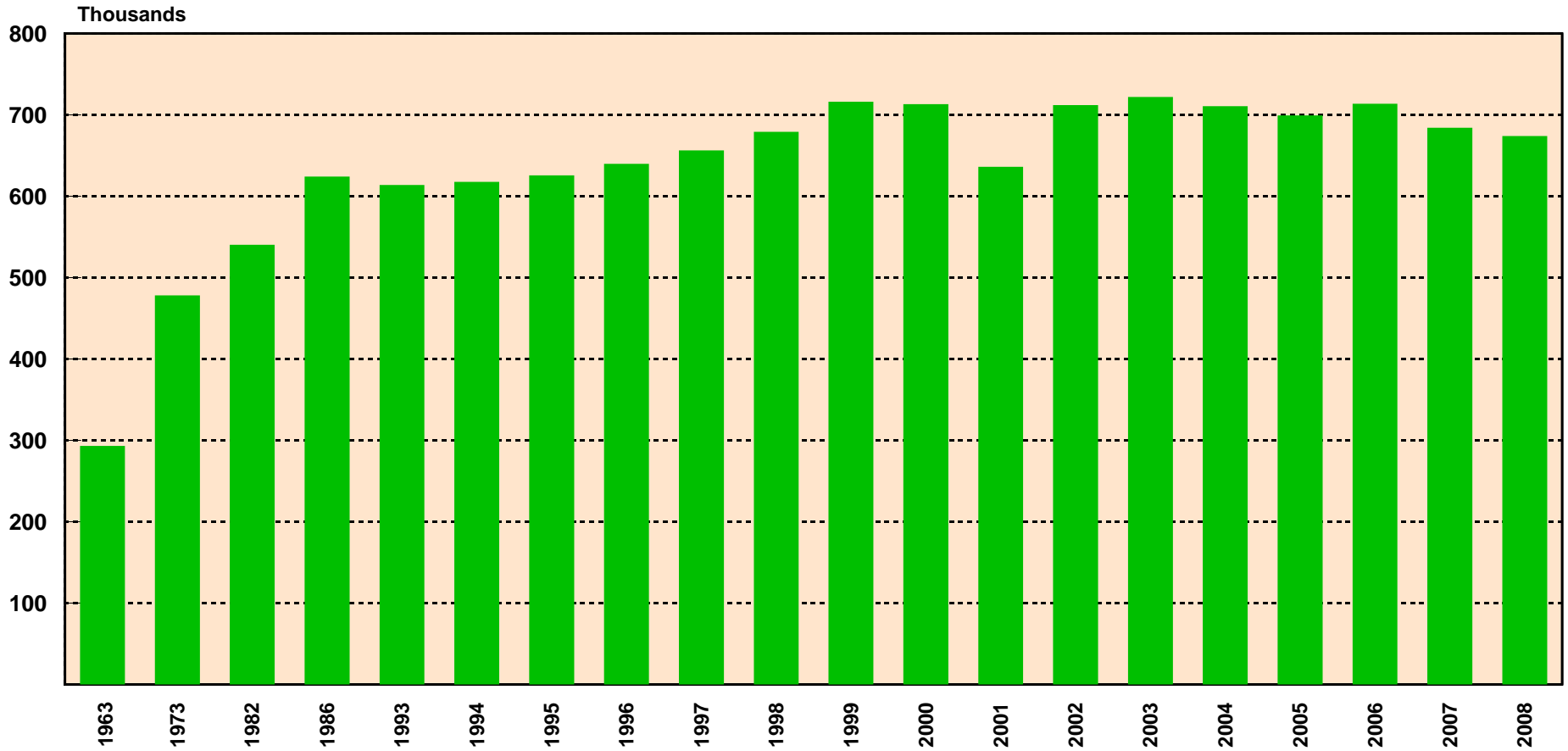
	2001	2002	2003	2004	2005	2006	2007	2008
G Washington Bridge	309,310	310,771	319,029	315,066	304,302	312,078	291,391	293,059
Holland Tunnel	43,377	92,557	101,097	96,171	96,960	98,425	100,491	97,057
Lincoln Tunnel	106,257	129,511	127,323	125,159	126,455	127,245	122,092	118,153
Manhattan Totals	458,944	532,839	547,449	536,396	527,717	537,748	513,974	508,269
Bayonne Bridge*	23,631	21,327	20,208	22,510	21,755	24,230	21,451	20,058
Goethals Bridge*	78,196	81,384	75,724	71,532	68,790	65,378	72,999	72,834
Outerbridge Crossing*	75,424	76,429	78,650	80,226	81,108	86,306	75,778	72,884
Staten Island Totals	177,251	179,140	174,582	174,268	171,653	175,914	170,228	165,776
Grand Totals	636,195	711,979	722,031	710,664	699,370	713,662	684,202	674,045

* 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



2008 Screenline Volumes New York - New Jersey

	George Washington Bridge		Holland Tunnel		Lincoln Tunnel		Manhattan Totals	
	<i>* E/B</i>	<i>W/B</i>	<i>* E/B</i>	<i>W/B</i>	<i>* E/B</i>	<i>W/B</i>	To Manhattan	To N.J.
Mid-1am	1,875	2,676	743	1,069	901	1,557	3,519	5,302
1-2am	1,271	1,487	447	802	537	910	2,255	3,199
2-3am	1,092	1,215	314	697	418	573	1,824	2,485
3-4am	1,285	1,157	338	813	482	491	2,105	2,461
4-5am	2,198	1,581	527	1,146	883	557	3,608	3,284
5-6am	6,175	2,710	2,019	1,590	2,835	793	11,029	5,093
6-7am	11,061	4,903	3,128	2,260	5,072	1,501	19,261	8,664
7-8am	10,197	7,032	2,944	2,525	4,584	2,052	17,725	11,609
8-9am	9,210	7,730	2,838	2,689	4,225	2,121	16,273	12,540
9-10am	8,998	7,017	2,782	2,261	3,825	1,890	15,605	11,168
10-11am	7,579	5,951	2,313	2,009	3,213	1,987	13,105	9,947
11-Noon	6,848	6,303	2,006	2,084	2,889	2,143	11,743	10,530
Noon-1	6,515	6,924	1,946	2,330	2,580	2,348	11,041	11,602
1-2pm	6,504	6,639	1,920	2,577	2,611	2,797	11,035	12,013
2-3pm	7,016	8,141	2,105	2,844	2,627	3,485	11,748	14,470
3-4pm	7,784	10,217	2,365	2,910	2,784	3,820	12,933	16,947
4-5pm	8,289	10,776	2,689	2,967	2,393	4,409	13,371	18,152
5-6pm	8,613	10,659	2,912	2,738	1,771	4,806	13,296	18,203
6-7pm	8,378	10,728	2,813	2,808	2,111	5,022	13,302	18,558
7-8pm	6,964	9,501	2,418	2,931	2,427	4,339	11,809	16,771
8-9pm	5,512	7,888	1,859	2,662	2,055	3,932	9,426	14,482
9-10pm	4,766	6,362	1,716	2,437	2,047	3,556	8,529	12,355
10-11pm	4,037	5,588	1,652	2,208	1,959	3,501	7,648	11,297
11-Mid	2,935	4,772	1,267	1,639	1,583	2,751	5,785	9,162
24 hr Total	145,102	147,957	46,061	50,996	56,812	61,341	247,975	260,294
6-10am	39,466	26,682	11,692	9,735	17,706	7,564	68,864	43,981
10am-1pm	20,942	19,178	6,265	6,423	8,682	6,478	35,889	32,079
1-3pm	13,520	14,780	4,025	5,421	5,238	6,282	22,783	26,483
3-7pm	33,064	42,380	10,779	11,423	9,059	18,057	52,902	71,860
6am-7pm	106,992	103,020	32,761	33,002	40,685	38,381	180,438	174,403

* To Manhattan

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

2008 Screenline Volumes New York - New Jersey (cont'd)

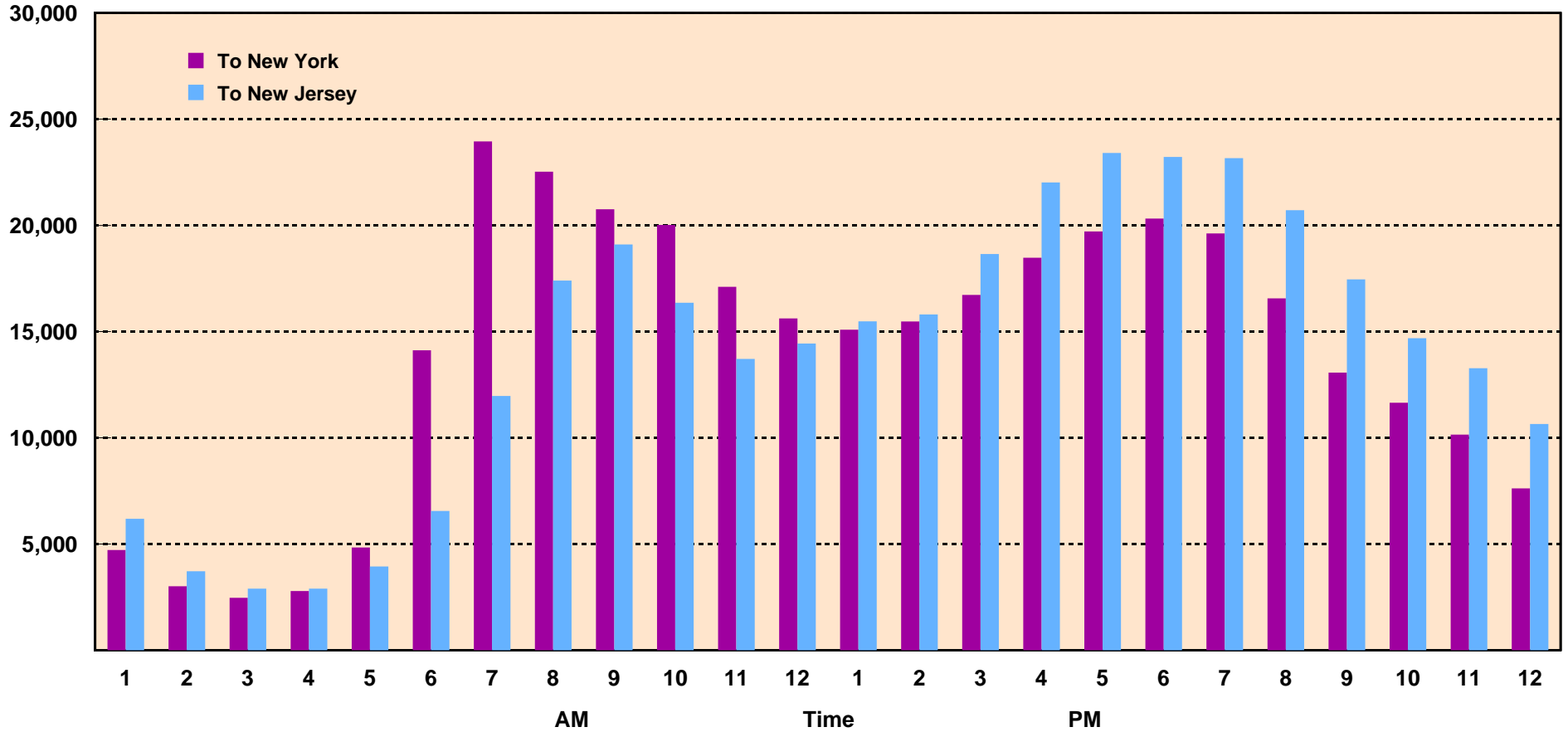
	Bayonne Bridge		Goethals Bridge		Outerbridge Crossing		Staten Island Totals		Grand Totals	
	* S/B	N/B	* E/B	W/B	* E/B	W/B	To Staten Is.	To N.J.	To N.Y.	To N.J.
Mid-1am	148	80	598	361	453	443	1,199	884	4,718	6,186
1-2am	98	51	362	219	294	246	754	516	3,009	3,715
2-3am	81	40	283	203	276	169	640	412	2,464	2,897
3-4am	76	42	301	214	302	176	679	432	2,784	2,893
4-5am	111	63	441	349	673	243	1,225	655	4,833	3,939
5-6am	216	254	1,138	756	1,732	452	3,086	1,462	14,115	6,555
6-7am	404	682	1,769	1,609	2,518	1,011	4,691	3,302	23,952	11,966
7-8am	485	1,116	1,760	2,661	2,554	2,017	4,799	5,794	22,524	17,403
8-9am	496	1,141	1,743	2,896	2,248	2,523	4,487	6,560	20,760	19,100
9-10am	414	715	1,862	2,440	2,138	2,034	4,414	5,189	20,019	16,357
10-11am	405	434	1,771	1,745	1,827	1,587	4,003	3,766	17,108	13,713
11-Noon	415	474	1,748	1,843	1,711	1,587	3,874	3,904	15,617	14,434
Noon-1	429	377	1,832	1,902	1,785	1,601	4,046	3,880	15,087	15,482
1-2pm	488	351	2,030	1,813	1,921	1,633	4,439	3,797	15,474	15,810
2-3pm	647	406	2,231	2,023	2,103	1,747	4,981	4,176	16,729	18,646
3-4pm	795	428	2,488	2,174	2,263	2,467	5,546	5,069	18,479	22,016
4-5pm	987	435	2,782	2,388	2,574	2,434	6,343	5,257	19,714	23,409
5-6pm	1,257	467	2,948	2,070	2,819	2,482	7,024	5,019	20,320	23,222
6-7pm	1,145	377	2,720	2,120	2,452	2,110	6,317	4,607	19,619	23,165
7-8pm	701	307	2,111	1,643	1,943	1,996	4,755	3,946	16,564	20,717
8-9pm	433	248	1,639	1,145	1,569	1,583	3,641	2,976	13,067	17,458
9-10pm	337	197	1,427	932	1,351	1,200	3,115	2,329	11,644	14,684
10-11pm	302	174	1,120	761	1,080	1,034	2,502	1,969	10,150	13,266
11-Mid	224	105	875	588	733	790	1,832	1,483	7,617	10,645
24 hr Total	11,094	8,964	37,979	34,855	39,319	33,565	88,392	77,384	336,367	337,678
6-10am	1,799	3,654	7,134	9,606	9,458	7,585	18,391	20,845	87,255	64,826
10am-1pm	1,249	1,285	5,351	5,490	5,323	4,775	11,923	11,550	47,812	43,629
1-3pm	1,135	757	4,261	3,836	4,024	3,380	9,420	7,973	32,203	34,456
3-7pm	4,184	1,707	10,938	8,752	10,108	9,493	25,230	19,952	78,132	91,812
6am-7pm	8,367	7,403	27,684	27,684	28,913	25,233	64,964	60,320	245,402	234,723

* To Staten Island

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

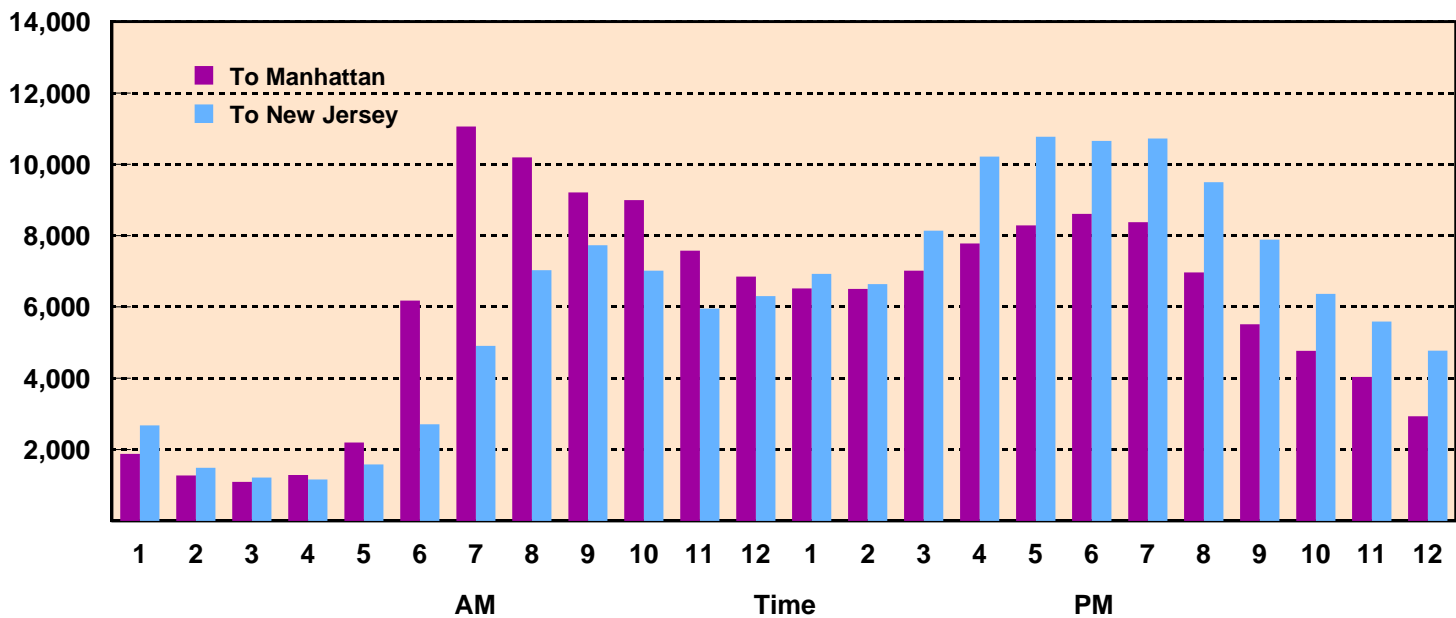
New York - New Jersey Screenline

Total Hourly Vehicle Volumes - 2008

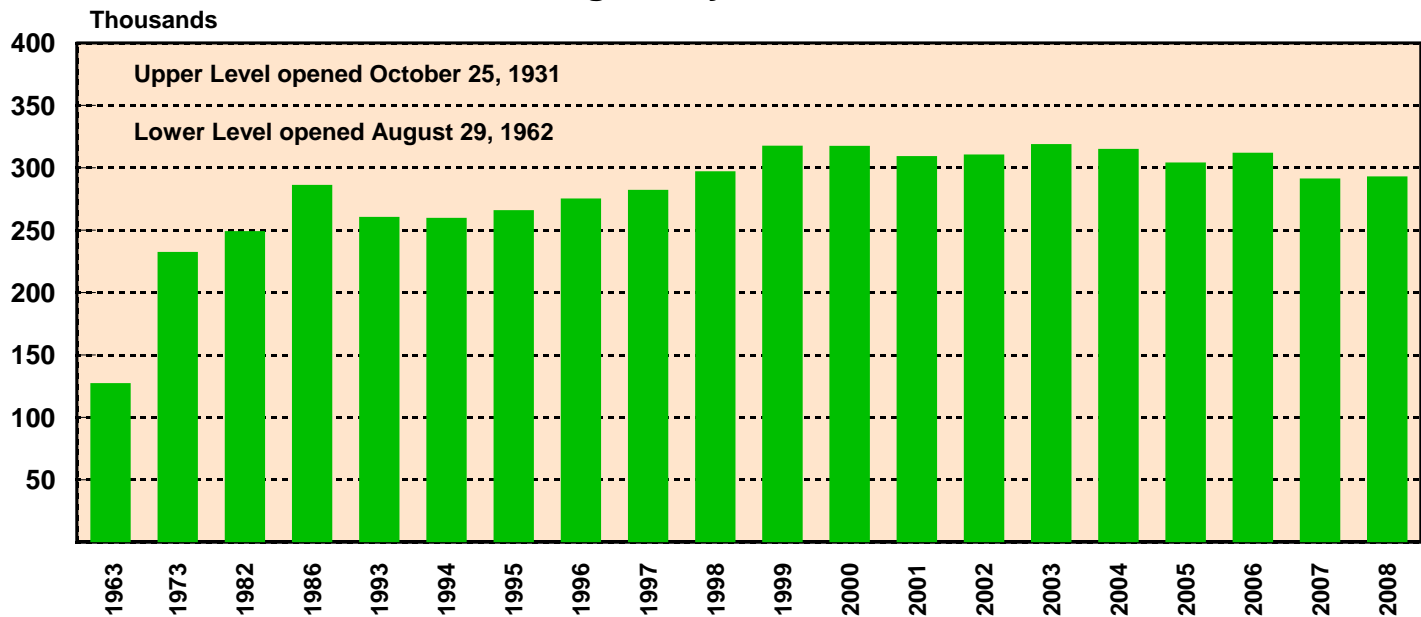


New York - New Jersey Screenline Volumes

George Washington Bridge - 2008 Hourly Vehicular Volumes

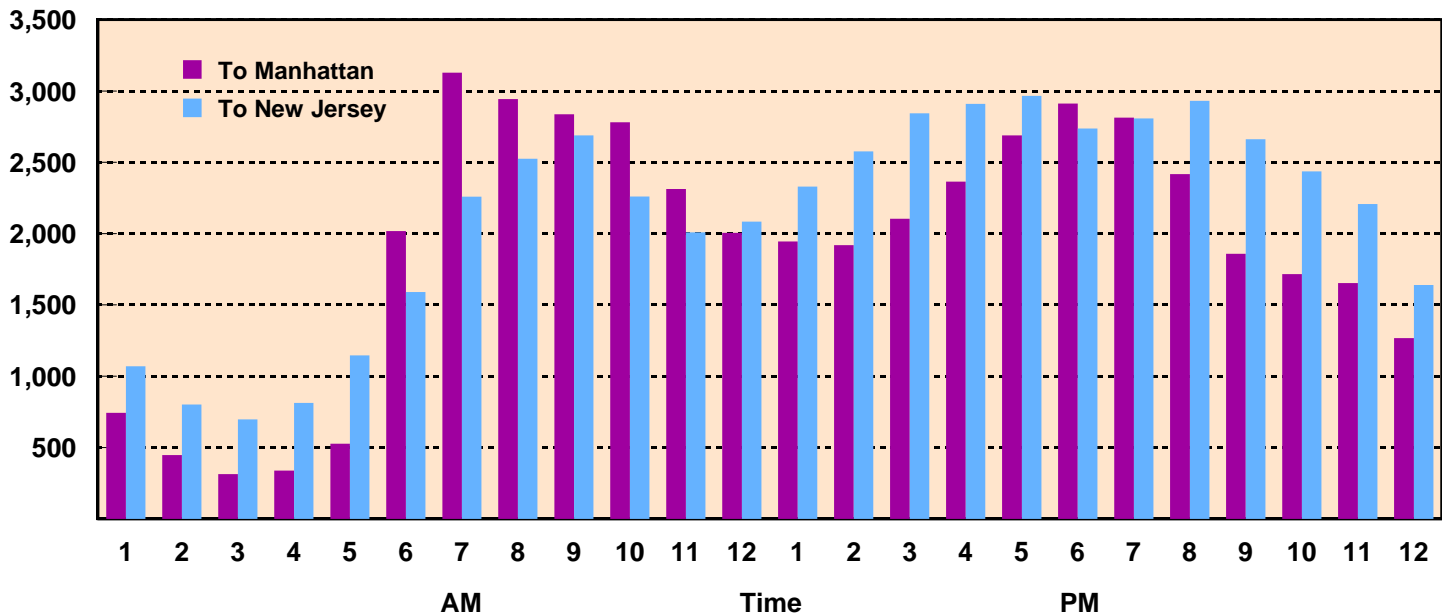


George Washington Bridge Average Daily Traffic Volumes

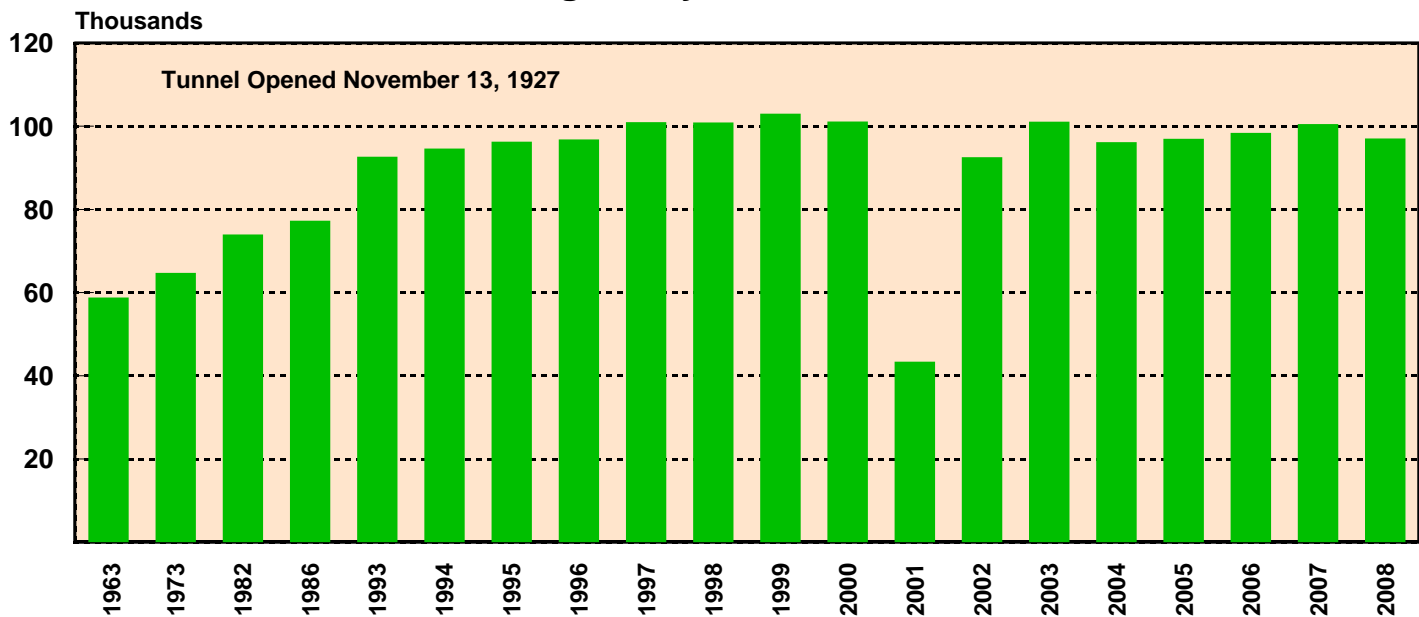


New York - New Jersey Screenline Volumes

Holland Tunnel - 2008 Hourly Vehicular Volumes



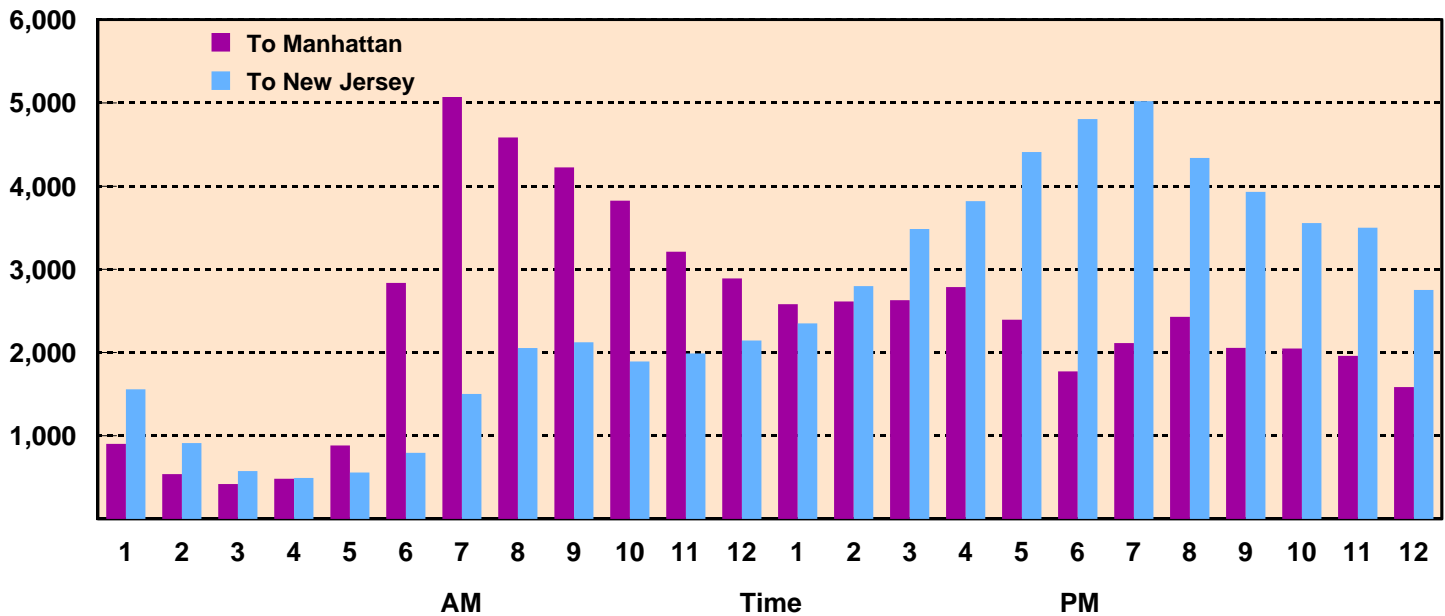
Holland Tunnel Average Daily Traffic Volumes



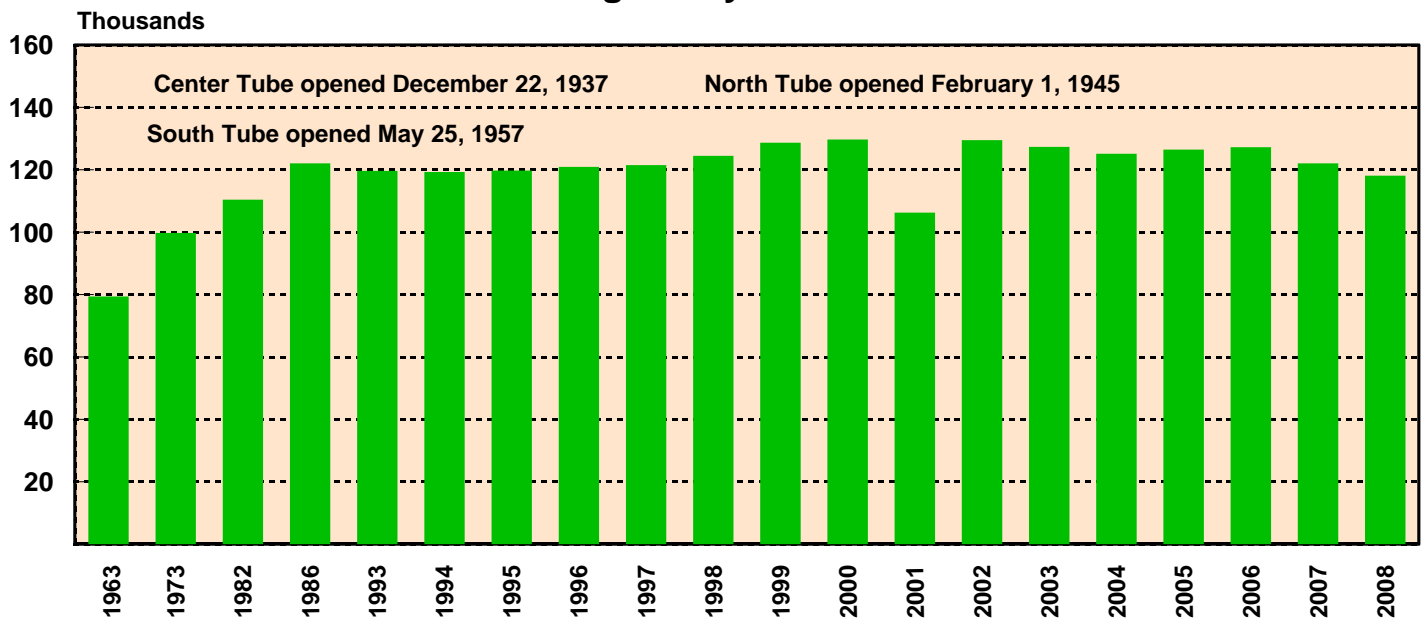
Following 9/11/2001, Holland Tunnel 2-way volume fell 57% compared to fall 2000. Inbound volume was down 75%, outbound down 40%.

New York - New Jersey Screenline Volumes

Lincoln Tunnel - 2008 Hourly Vehicular Volumes



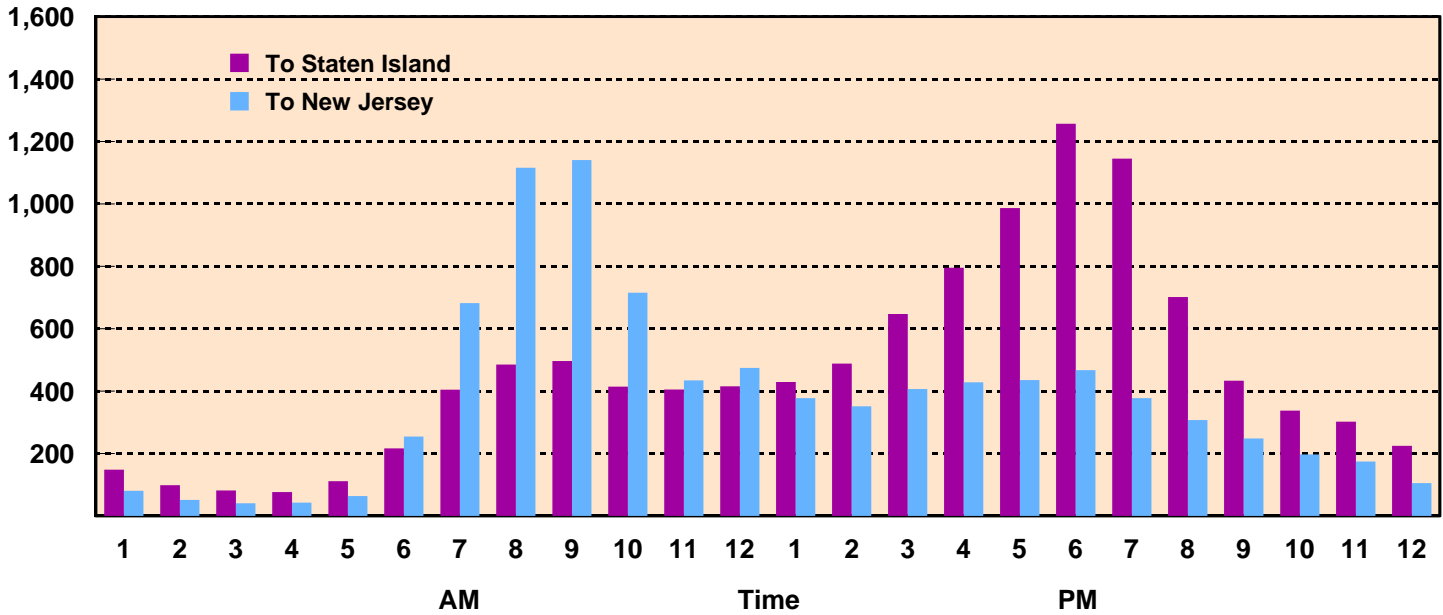
Lincoln Tunnel Average Daily Traffic Volumes



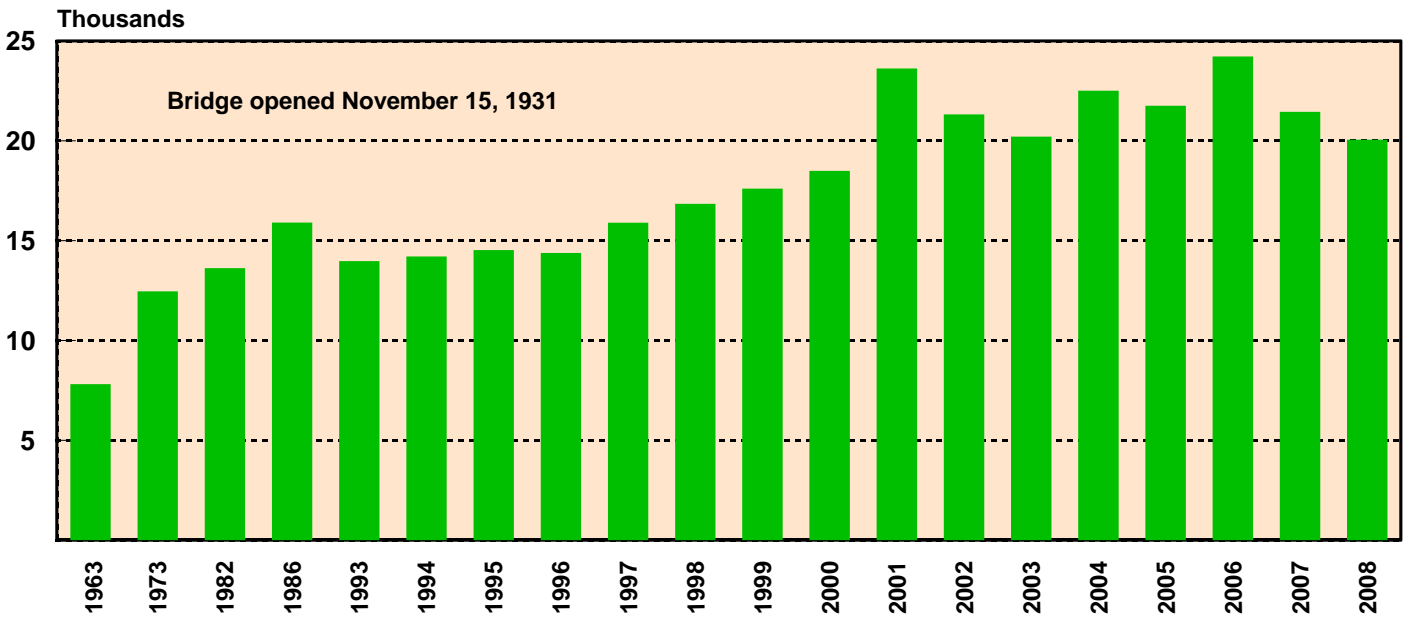
Following 9/11/2001, Lincoln Tunnel 2-way volume fell 18% compared to fall 2000. Inbound volume was down 13%, outbound down 23%.

New York - New Jersey Screenline Volumes

Bayonne Bridge - 2008 Hourly Vehicular Volumes

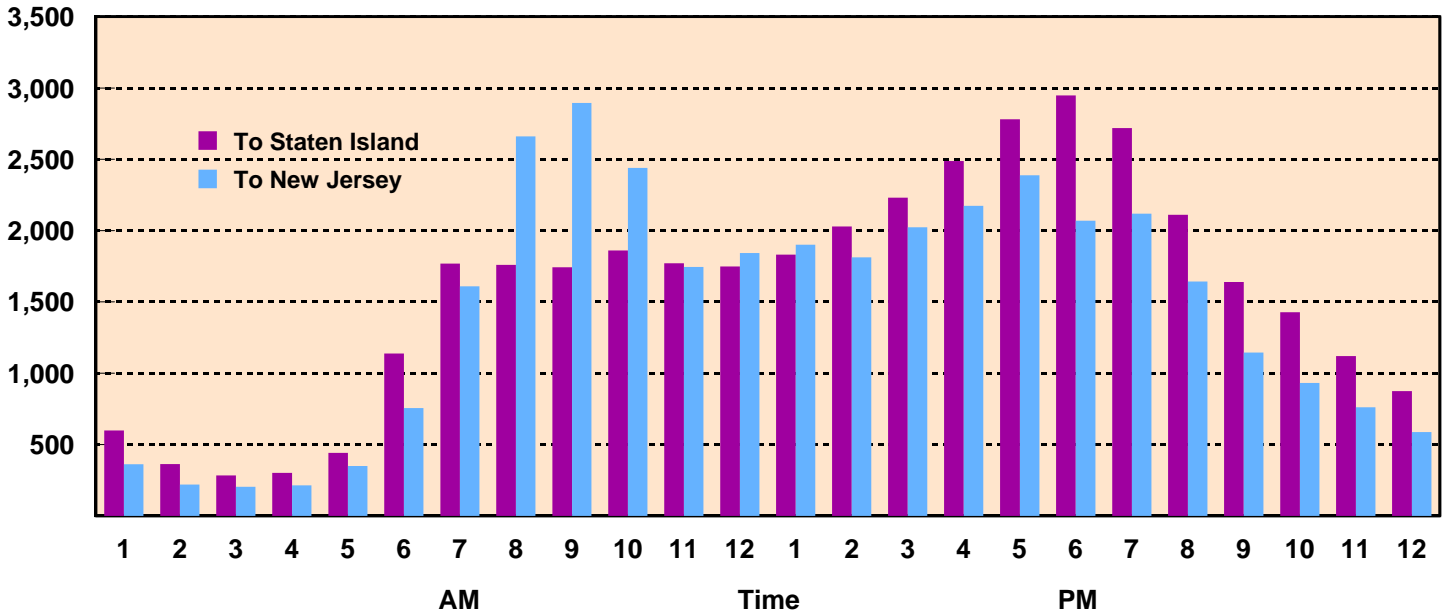


Bayonne Bridge Average Daily Traffic Volumes

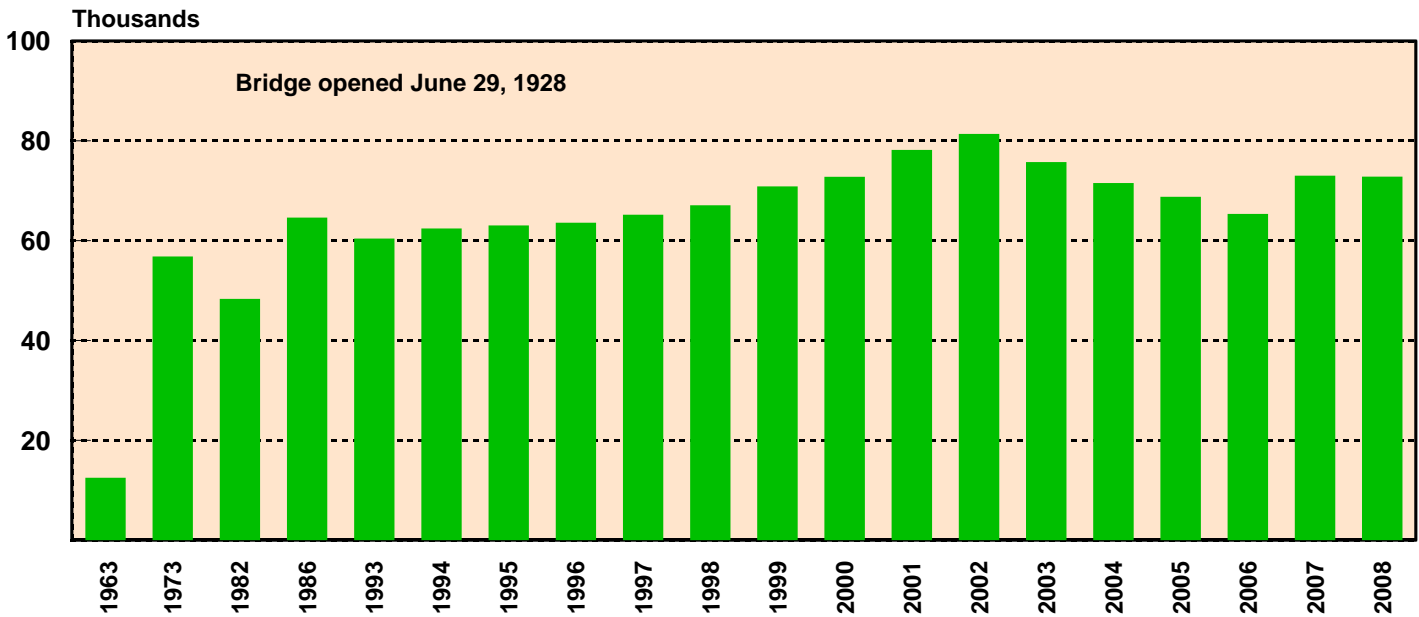


New York - New Jersey Screenline Volumes

Goethals Bridge - 2008 Hourly Vehicular Volumes

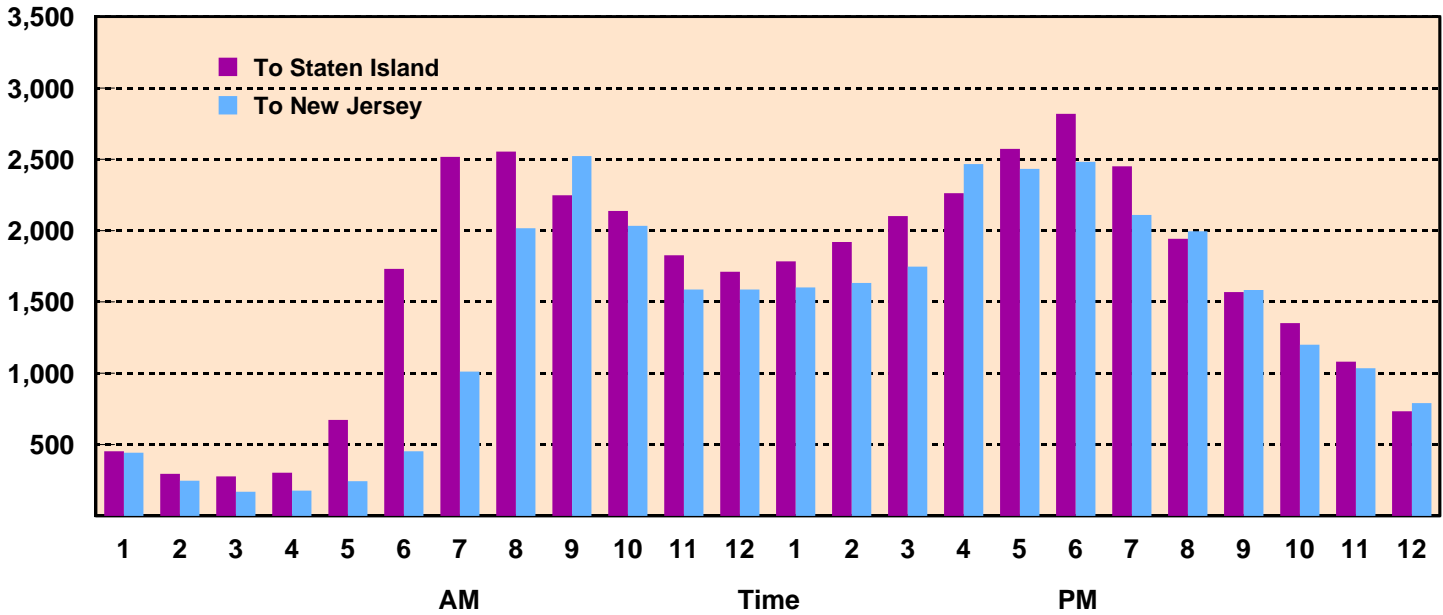


Goethals Bridge Average Daily Traffic Volumes

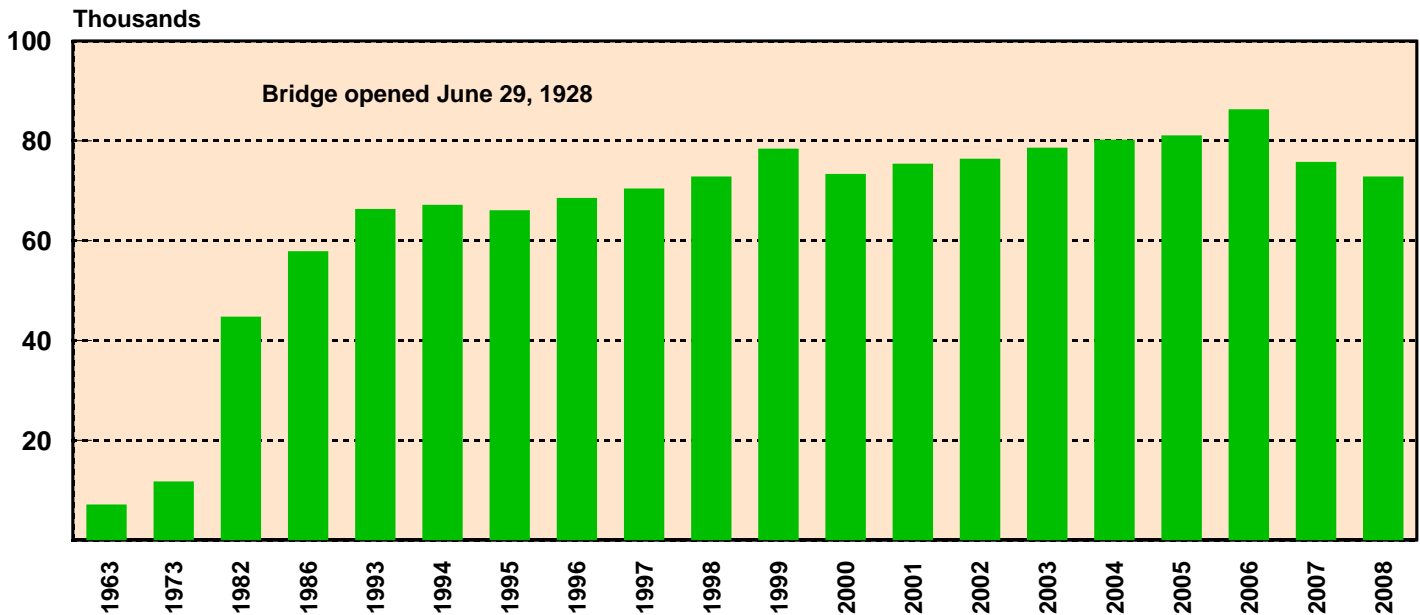


New York - New Jersey Screenline Volumes

Outerbridge Crossing - 2008 Hourly Vehicular Volumes



Outerbridge Crossing Average Daily Traffic Volumes



Brooklyn-Queens Screenline



Belt Parkway (Shore Parkway)
Entering Queens from Brooklyn.

BROOKLYN - QUEENS SCREENLINE

- In 1963, average daily two-way total daily volume on the four Newtown Creek bridges was 160,400. The Kosciuszko Bridge carried the bulk of that traffic, 102,200 daily vehicles (63.7% of the total). The Grand Street Bridge served 12,000 daily vehicles (7.5%), the Greenpoint Avenue Bridge 17,600 (11.0%), and the Pulaski Bridge 28,600 (17.8%).
- By 1973, Newtown Creek crossings had increased 4.8% to 168,000 vehicles per day, just 7,600 more than ten years earlier. The Kosciuszko Bridge remained the most-traveled facility, although its volume slipped to 99,000 daily vehicles, 3.1% fewer than in 1963. The Grand Street Bridge was accommodating 11,700 daily vehicles (down 2.5%), the Greenpoint Avenue Bridge 26,800 (up 52.0%), and the Pulaski Bridge 30,500 (up 6.7%).
- Between 1973 and 1982, daily volume crossing Newtown Creek rose 7.0%, to 179,800 vehicles. Growth was concentrated solely on the Kosciuszko Bridge, where daily volume rose 30.8% to 129,600. Daily volumes fell on the other three bridges: Grand Street Bridge down 21.5% to 9,200, Greenpoint Avenue Bridge down 33.2% to 17,900, and Pulaski Bridge down 24.1% to 23,100.
- From 1982 to 1986, traffic over Newtown Creek increased rapidly, by 25.0% to 224,800 daily vehicles, with increases occurring on three of the four bridges. By 1986, the Kosciuszko Bridge was carrying 168,300 daily vehicles (up 29.9% from 1982), the Grand Street Bridge 11,400 (up 24.0%), the Pulaski Bridge 30,800 (up 32.9%). The only decline was on the Greenpoint Avenue Bridge, where daily traffic was 19.9% less in 1986 than in 1982 (14,300 vs. 17,900).
- Between 1986 and 1998, daily volume crossing Newtown Creek increased 19.4% during the twelve-year period, to 268,300 in 1998 from 224,800 in 1986. Growth was concentrated at the Greenpoint Avenue and Kosciuszko Bridges. On the Greenpoint Avenue Bridge, daily volume increased by 11,300 vehicles, to 25,600 in 1998 from 14,300 in 1986, a gain of 78.6%. Daily traffic on the Kosciuszko Bridge increased by 26,900 vehicles, to 195,200 in 1998 from 168,300 in 1986, a gain of 16.0%. On the Grand Street Bridge, daily volume increased 34.3%, to 15,300 from 11,400. Volume on the Pulaski Bridge increased 4.7%, to 32,200 daily vehicles in 1998 from 30,800 in 1986.
- During the 45 years from 1963 to 2008, daily traffic crossing Newtown Creek increased 61.3%, to 258,800 from 160,400. Volumes increased on all four facilities: Kosciuszko Bridge up 77.9% to 181,800 from 102,200; Greenpoint Avenue Bridge up 52.7% to 26,900 from 17,600; Pulaski Bridge up 29.6% to 37,000 from 28,600; Grand Street Bridge up 8.4% to 13,000 from 12,000.

Brooklyn - Queens Screenline

2008 Daily Volumes



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

To Brooklyn

	1963	1973	1982	1986	1993	1994	1995	1996	1997	1998	1999	2000
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
Greenpoint Ave 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
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
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
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
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
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
Cornelia St	N/A	N/A	N/A	N/A	<i>One-Way to Queens</i>							
Decatur St	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
Greene Ave	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
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
Linden St	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
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
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
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

To Brooklyn

	2001	2002	2003	2004	2005	2006	2007	2008
Grand Street Bridge	7,729	7,447	8,356	7,465	6,455	6,920	6,858	7,378
Greenpoint Ave Bridge	12,993	12,375	14,445	13,509	13,951	14,318	13,453	12,756
Kosciuszko Bridge	97,242	90,607	96,153	92,556	94,830	86,969	91,026	87,257
Pulaski Bridge	19,292	18,667	19,465	19,923	19,431	18,500	18,417	18,295
Newtown Creek Totals	137,256	129,096	138,419	133,453	134,667	126,707	129,754	125,686
Atlantic Ave	14,182	14,687	14,150	14,693	12,611	12,095	11,180	10,947
Cooper St	5,756	5,741	6,001	5,832	6,160	5,921	5,565	6,025
Cornelia St	<i>One-Way to Queens</i>							
Decatur St	<i>One-Way to Queens</i>							
DeKalb Ave	2,563	3,428	3,566	3,697	3,583	3,109	3,016	3,061
Greene Ave	<i>One-Way to Queens</i>							
Jackie Robinson Pky	35,760	37,175	36,445	35,680	36,037	34,799	34,804	33,302
Linden Blvd	27,130	27,698	25,717	27,251	28,195	27,119	25,993	23,784
Linden St	<i>One-Way to Queens</i>							
Shore Pky	75,478	69,587	75,682	76,608	76,393	79,763	81,339	79,589
Sutter Ave	3,821	3,851	4,090	4,137	4,810	4,218	4,685	4,896
Other Totals	164,690	162,167	165,651	167,898	167,789	167,024	166,582	161,604
Grand Totals	301,946	291,263	304,070	301,351	302,456	293,731	296,336	287,290

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

To Queens

	1963	1973	1982	1986	1993	1994	1995	1996	1997	1998	1999	2000
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
Greenpoint Ave 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
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
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
Newtown Creek Totals	N/A	N/A	93,192	114,316	118,324	116,737	120,176	124,813	133,888	138,789	133,135	139,611
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
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
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
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
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
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
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
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
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
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
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
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
Grand Totals	N/A	N/A	N/A	N/A	269,734	275,580	282,847	289,653	298,995	300,926	300,441	308,869

To Queens

	2001	2002	2003	2004	2005	2006	2007	2008
Grand Street Bridge	6,166	5,641	5,783	5,994	6,561	5,973	5,727	5,653
Greenpoint Ave Bridge	13,773	13,931	14,310	14,928	15,498	15,522	13,574	14,170
Kosciuszko Bridge	99,323	93,772	98,344	101,056	103,983	97,372	95,467	94,526
Pulaski Bridge	19,770	19,681	18,881	20,223	19,480	19,724	18,804	18,724
Newtown Creek Totals	139,032	133,025	137,318	142,201	145,522	138,591	133,572	133,073
Atlantic Ave	13,713	14,249	14,336	13,903	13,349	11,961	11,066	10,613
Cooper St	3,761	3,533	3,140	3,388	3,622	3,372	3,378	3,477
Cornelia St	1,936	2,032	1,908	1,844	1,787	1,660	1,727	1,753
Decatur St	2,082	2,237	2,342	2,332	2,003	2,247	2,059	2,203
DeKalb Ave	2,347	2,464	2,544	2,607	2,626	2,197	2,258	2,341
Greene Ave	1,962	2,078	2,363	2,029	1,551	1,854	1,733	1,883
Jackie Robinson Pky	36,920	37,545	37,261	38,624	37,490	36,034	35,893	34,433
Linden Blvd	25,160	25,439	25,393	24,502	21,692	24,950	23,429	22,937
Linden St	2,544	2,609	2,270	2,161	2,123	2,192	2,012	1,992
Shore Pky	76,440	70,576	74,358	74,997	75,733	78,046	83,142	83,850
Sutter Ave	4,291	4,498	4,704	4,595	4,938	4,401	4,411	4,286
Other Totals	171,156	167,260	170,619	170,982	166,914	168,914	171,108	169,768
Grand Totals	310,188	300,285	307,937	313,183	312,436	307,505	304,680	302,841

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

Both Directions

	1963	1973	1982	1986	1993	1994	1995	1996	1997	1998	1999	2000
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
Greenpoint Ave 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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

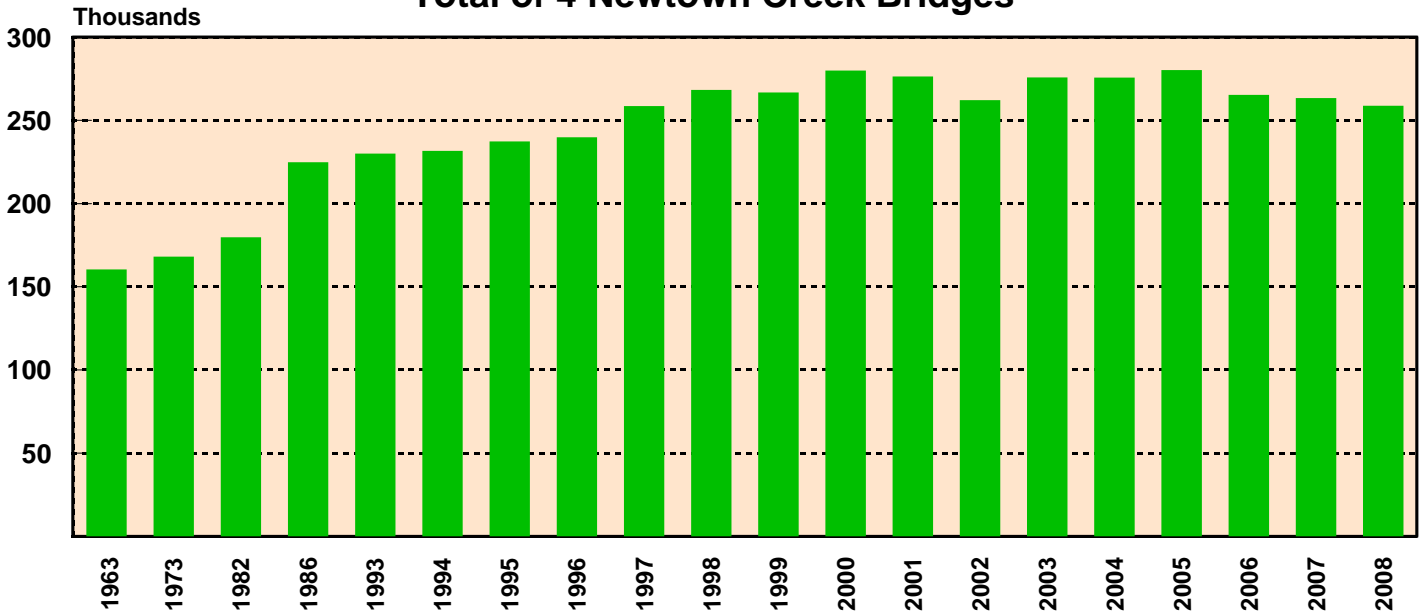
Both Directions

	2001	2002	2003	2004	2005	2006	2007	2008
Grand Street Bridge	13,895	13,088	14,139	13,459	13,016	12,893	12,585	13,031
Greenpoint Ave Bridge	26,766	26,306	28,755	28,437	29,449	29,840	27,027	26,926
Kosciuszko Bridge	196,565	184,379	194,497	193,612	198,813	184,341	186,493	181,783
Pulaski Bridge	39,062	38,348	38,346	40,146	38,911	38,224	37,221	37,019
Newtown Creek Totals	276,288	262,121	275,737	275,654	280,189	265,298	263,326	258,759
Atlantic Ave	27,895	28,936	28,486	28,596	25,960	24,056	22,246	21,560
Cooper St	9,517	9,274	9,141	9,220	9,782	9,293	8,943	9,502
Cornelia St	1,936	2,032	1,908	1,844	1,787	1,660	1,727	1,753
Decatur St	2,082	2,237	2,342	2,332	2,003	2,247	2,059	2,203
DeKalb Ave	4,910	5,892	6,110	6,304	6,209	5,306	5,274	5,402
Greene Ave	1,962	2,078	2,363	2,029	1,551	1,854	1,733	1,883
Jackie Robinson Pky	72,680	74,720	73,706	74,304	73,527	70,833	70,697	67,735
Linden Blvd	52,290	53,137	51,110	51,753	49,887	52,069	49,422	46,721
Linden St	2,544	2,609	2,270	2,161	2,123	2,192	2,012	1,992
Shore Pky	151,918	140,163	150,040	151,605	152,126	157,809	164,481	163,439
Sutter Ave	8,112	8,349	8,794	8,732	9,748	8,619	9,096	9,182
Other Totals	335,846	329,427	336,270	338,880	334,703	335,938	337,690	331,372
Grand Totals	612,134	591,548	612,007	614,534	614,892	601,236	601,016	590,131

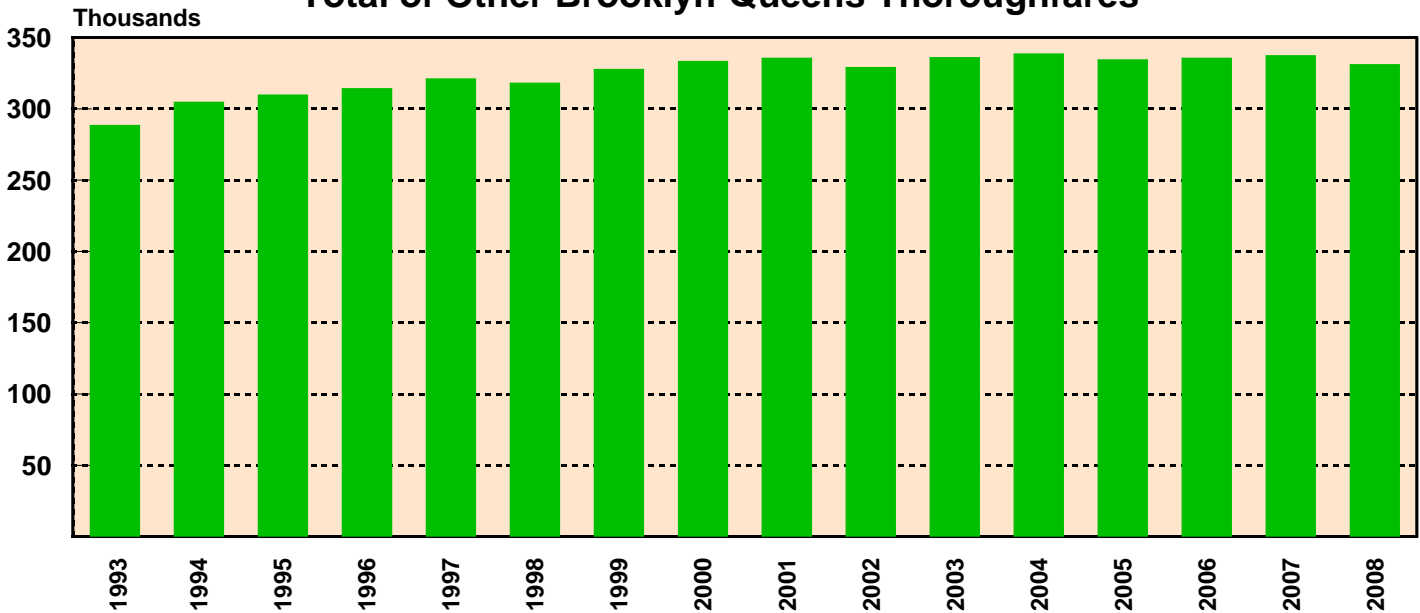
Brooklyn-Queens Screenline

Historical Comparisons Average Daily Traffic Volumes

Total of 4 Newtown Creek Bridges



Total of Other Brooklyn-Queens Thoroughfares



2008 Screenline Volumes Brooklyn - Queens

	Grand Street Bridge		Greenpoint Ave Bridge		Kosciuszko Bridge		Pulaski Bridge		Newtown Creek Totals	
	<i>W/B*</i>	<i>E/B</i>	<i>W/B*</i>	<i>E/B</i>	<i>W/B*</i>	<i>E/B</i>	<i>S/B*</i>	<i>N/B</i>	<i>To Brooklyn</i>	<i>To Queens</i>
Mid-1am	69	80	88	157	1,646	2,356	333	245	2,136	2,838
1-2am	78	60	70	105	1,135	1,606	191	193	1,474	1,964
2-3am	63	56	64	102	929	1,236	168	152	1,224	1,546
3-4am	68	62	93	116	1,077	1,201	163	159	1,401	1,538
4-5am	123	85	173	163	2,017	1,913	191	264	2,504	2,425
5-6am	316	190	449	391	4,399	3,096	343	644	5,507	4,321
6-7am	487	251	995	665	4,951	4,806	650	1,306	7,083	7,028
7-8am	631	283	929	846	4,831	5,007	1,002	1,547	7,393	7,683
8-9am	589	241	923	821	4,542	4,664	1,028	1,483	7,082	7,209
9-10am	514	262	759	658	4,735	4,761	917	1,165	6,925	6,846
10-11am	445	271	809	650	4,459	4,475	863	937	6,576	6,333
11-Noon	426	294	774	717	4,391	4,674	870	898	6,461	6,583
Noon-1	427	314	771	713	4,397	4,527	912	958	6,507	6,512
1-2pm	413	365	728	780	4,366	4,875	965	998	6,472	7,018
2-3pm	469	382	714	942	4,405	4,480	1,166	1,076	6,754	6,880
3-4pm	485	428	933	1,112	4,433	4,689	1,491	1,215	7,342	7,444
4-5pm	456	469	873	1,116	4,369	4,838	1,600	1,172	7,298	7,595
5-6pm	408	508	735	1,150	4,428	4,861	1,557	1,104	7,128	7,623
6-7pm	260	393	489	907	4,495	4,972	1,086	861	6,330	7,133
7-8pm	181	211	364	666	3,964	4,994	760	635	5,269	6,506
8-9pm	128	124	326	485	3,764	4,462	662	493	4,880	5,564
9-10pm	126	119	310	372	3,754	4,499	515	443	4,705	5,433
10-11pm	118	112	242	319	3,281	4,033	469	434	4,110	4,898
11-Mid	98	93	145	217	2,489	3,501	393	342	3,125	4,153
24 hr Total	7,378	5,653	12,756	14,170	87,257	94,526	18,295	18,724	125,686	133,073
6-10am	2,221	1,037	3,606	2,990	19,059	19,238	3,597	5,501	28,483	28,766
10am-1pm	1,298	879	2,354	2,080	13,247	13,676	2,645	2,793	19,544	19,428
1-3pm	882	747	1,442	1,722	8,771	9,355	2,131	2,074	13,226	13,898
3-7pm	1,609	1,798	3,030	4,285	17,725	19,360	5,734	4,352	28,098	29,795
6am-7pm	6,010	4,461	10,432	11,077	58,802	61,629	14,107	14,720	89,351	91,887

* To Brooklyn

2008 Screenline Volumes Brooklyn - Queens (cont'd)

	Atlantic Ave		Cooper St		Cornelia St	Decatur St	DeKalb Ave		Greene Ave	Jackie Robinson Parkway		
	<i>W/B*</i>	<i>E/B</i>	<i>S/B*</i>	<i>N/B</i>	<i>N/B</i>	<i>N/B</i>	<i>S/B*</i>	<i>N/B</i>	<i>N/B</i>	<i>W/B*</i>	<i>E/B</i>	
Mid-1am	127	143	76	41		26	33	35	25	22	570	540
1-2am	81	100	53	31		11	21	20	15	21	277	293
2-3am	68	71	30	21	<i>One Way to Queens</i>	15	15	18	13	16	166	214
3-4am	66	61	22	21		10	10	18	11	17	157	223
4-5am	97	82	44	19		5	18	23	23	9	311	391
5-6am	270	163	100	65		18	32	67	33	22	904	907
6-7am	510	284	314	135		54	65	181	83	69	2,158	2,037
7-8am	830	420	532	172	91	126	293	129	115	2,707	2,082	
8-9am	809	507	513	190	111	110	249	148	105	2,466	1,899	
9-10am	622	470	331	150	75	97	154	123	84	1,914	1,484	
10-11am	526	476	252	134	73	90	134	118	75	1,547	1,337	
11-Noon	522	538	226	164	80	115	131	119	90	1,312	1,372	
Noon-1	575	602	245	172	90	122	148	126	86	1,344	1,496	
1-2pm	547	606	270	193	96	110	145	121	90	1,428	1,719	
2-3pm	608	649	353	224	88	132	179	144	102	1,664	2,051	
3-4pm	642	788	355	273	123	173	184	171	112	2,073	2,291	
4-5pm	716	864	407	250	128	152	190	171	130	2,209	2,407	
5-6pm	702	899	405	262	130	172	210	178	128	2,260	2,501	
6-7pm	665	813	349	228	131	148	183	166	134	1,925	2,243	
7-8pm	604	613	326	215	109	131	154	141	127	1,622	1,911	
8-9pm	467	500	280	178	101	104	123	101	134	1,280	1,545	
9-10pm	376	395	218	146	81	93	96	79	89	1,139	1,339	
10-11pm	311	328	183	113	62	84	73	58	67	990	1,249	
11-Mid	206	241	141	80	45	50	53	45	39	879	902	
24 hr Total	10,947	10,613	6,025	3,477	1,753	2,203	3,061	2,341	1,883	33,302	34,433	
6-10am	2,771	1,681	1,690	647	331	398	877	483	373	9,245	7,502	
10am-1pm	1,623	1,616	723	470	243	327	413	363	251	4,203	4,205	
1-3pm	1,155	1,255	623	417	184	242	324	265	192	3,092	3,770	
3-7pm	2,725	3,364	1,516	1,013	512	645	767	686	504	8,467	9,442	
6am-7pm	8,274	7,916	4,552	2,547	1,270	1,612	2,381	1,797	1,320	25,007	24,919	

* To Brooklyn

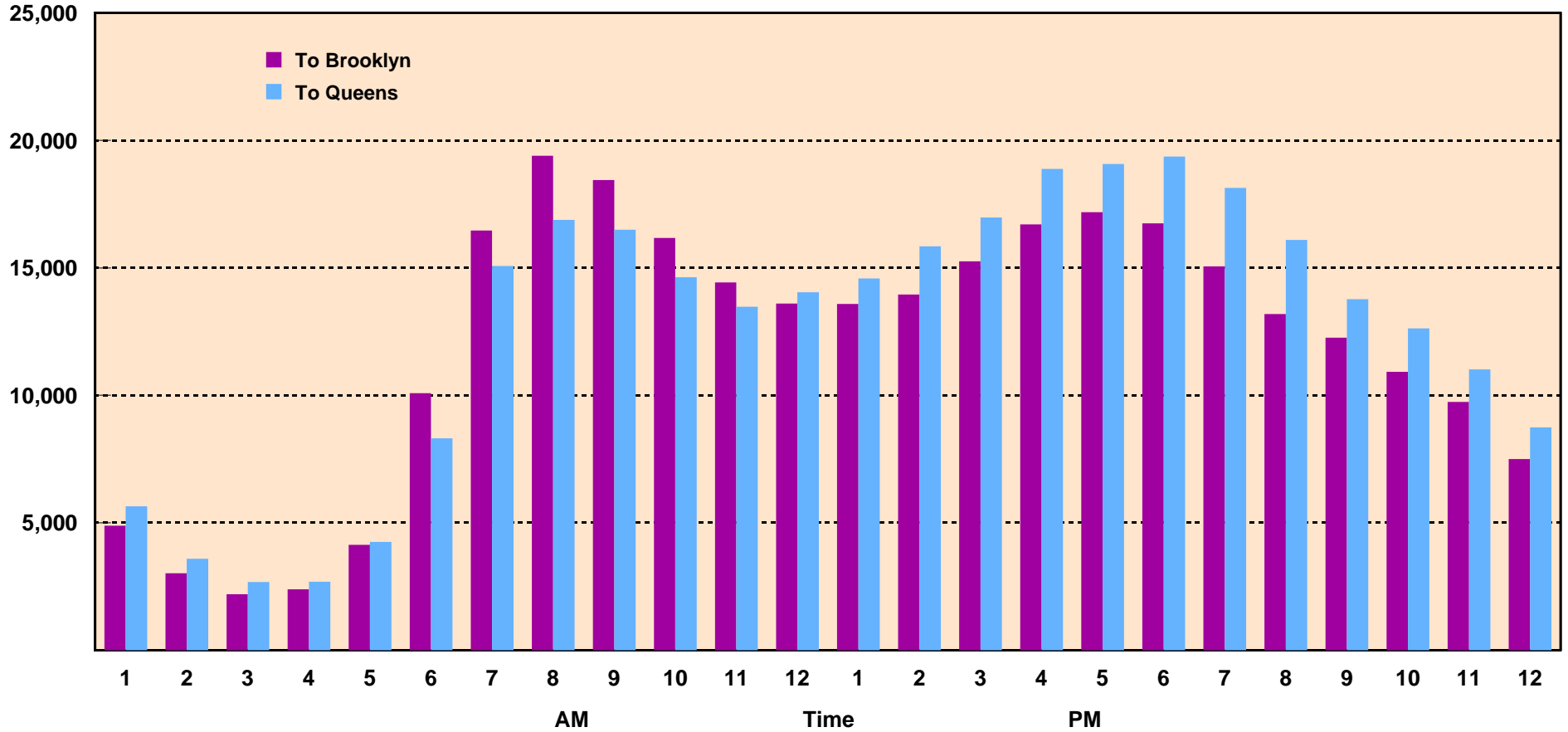
2008 Screenline Volumes Brooklyn - Queens (cont'd)

	<i>Linden Blvd</i>		<i>Linden St</i>	<i>Shore Parkway</i>		<i>Sutter Ave</i>		<i>Other Totals</i>		<i>Grand Totals</i>	
	<i>W/B*</i>	<i>E/B</i>	<i>N/B</i>	<i>W/B*</i>	<i>E/B</i>	<i>W/B*</i>	<i>E/B</i>	<i>To Brooklyn</i>	<i>To Queens</i>	<i>To Brooklyn</i>	<i>To Queens</i>
Mid-1am	383	445	19	1,493	1,443	61	71	2,745	2,808	4,881	5,646
1-2am	221	259	14	850	818	42	34	1,544	1,617	3,018	3,581
2-3am	168	205	12	494	529	26	20	970	1,131	2,194	2,677
3-4am	189	225	11	502	535	28	22	982	1,146	2,383	2,684
4-5am	315	337	31	789	875	52	34	1,631	1,824	4,135	4,249
5-6am	660	506	54	2,460	2,087	114	100	4,575	3,987	10,082	8,308
6-7am	1,469	960	88	4,505	4,061	245	206	9,382	8,042	16,465	15,070
7-8am	2,085	1,072	112	5,185	4,607	373	272	12,005	9,198	19,398	16,881
8-9am	1,972	1,106	102	4,995	4,766	358	241	11,362	9,285	18,444	16,494
9-10am	1,460	1,091	98	4,535	3,918	233	195	9,249	7,785	16,174	14,631
10-11am	1,144	962	113	4,054	3,604	197	160	7,854	7,142	14,430	13,475
11-Noon	1,086	1,005	111	3,671	3,679	193	186	7,141	7,459	13,602	14,042
Noon-1	1,093	1,157	100	3,455	3,906	214	216	7,074	8,073	13,581	14,585
1-2pm	1,118	1,246	123	3,743	4,301	231	220	7,482	8,825	13,954	15,843
2-3pm	1,260	1,346	121	4,175	4,986	266	253	8,505	10,096	15,259	16,976
3-4pm	1,309	1,672	138	4,478	5,384	320	313	9,361	11,438	16,703	18,882
4-5pm	1,362	1,656	165	4,672	5,230	333	327	9,889	11,480	17,187	19,075
5-6pm	1,300	1,644	149	4,375	5,359	365	317	9,617	11,739	16,745	19,362
6-7pm	1,142	1,416	122	4,145	5,340	318	262	8,727	11,003	15,057	18,136
7-8pm	1,064	1,156	112	3,875	4,848	273	227	7,918	9,590	13,187	16,096
8-9pm	884	1,070	79	4,140	4,203	204	195	7,378	8,210	12,258	13,774
9-10pm	773	948	54	3,433	3,794	178	176	6,213	7,194	10,918	12,627
10-11pm	760	794	37	3,155	3,183	155	140	5,627	6,115	9,737	11,013
11-Mid	567	659	27	2,410	2,394	117	99	4,373	4,581	7,498	8,734
24 hr Total	23,784	22,937	1,992	79,589	83,850	4,896	4,286	161,604	169,768	287,290	302,841
6-10am	6,986	4,229	400	19,220	17,352	1,209	914	41,998	34,310	70,481	63,076
10am-1pm	3,323	3,124	324	11,180	11,189	604	562	22,069	22,674	41,613	42,102
1-3pm	2,378	2,592	244	7,918	9,287	497	473	15,987	18,921	29,213	32,819
3-7pm	5,113	6,388	574	17,670	21,313	1,336	1,219	37,594	45,660	65,692	75,455
6am-7pm	17,800	16,333	1,542	55,988	59,141	3,646	3,168	117,648	121,565	206,999	213,452

* To Brooklyn

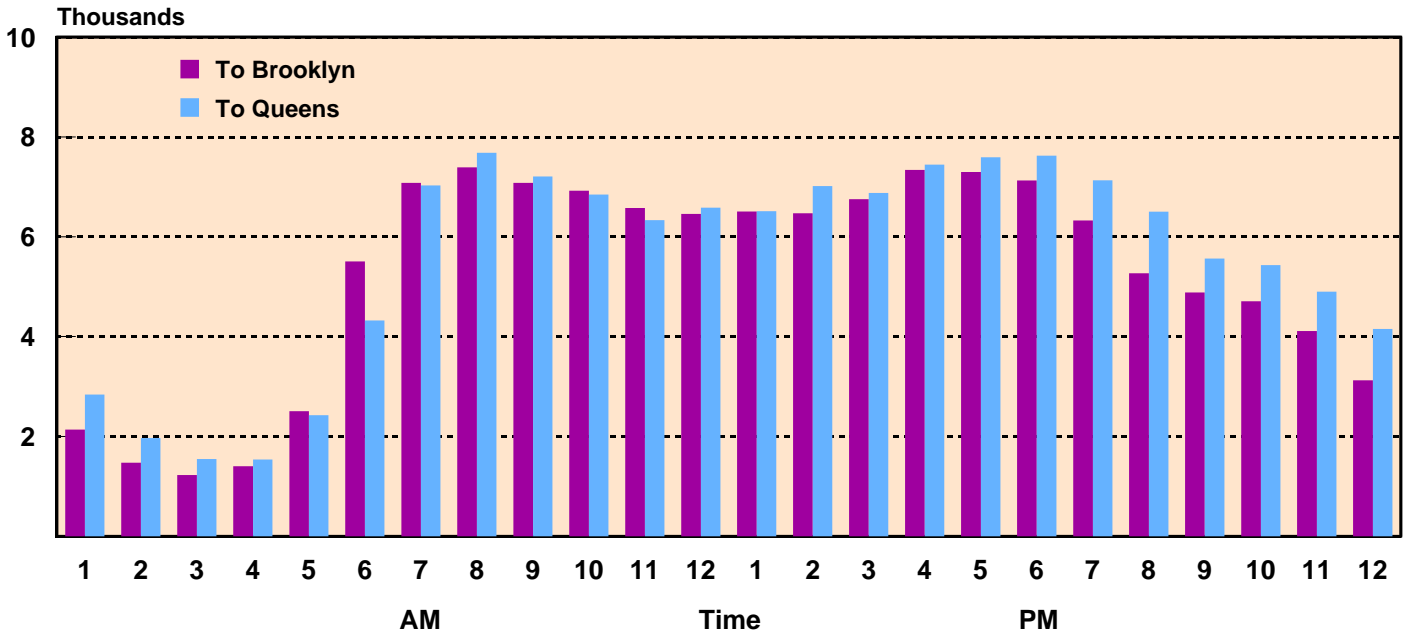
Brooklyn-Queens Screenline

Total Hourly Vehicle Volumes - 2008

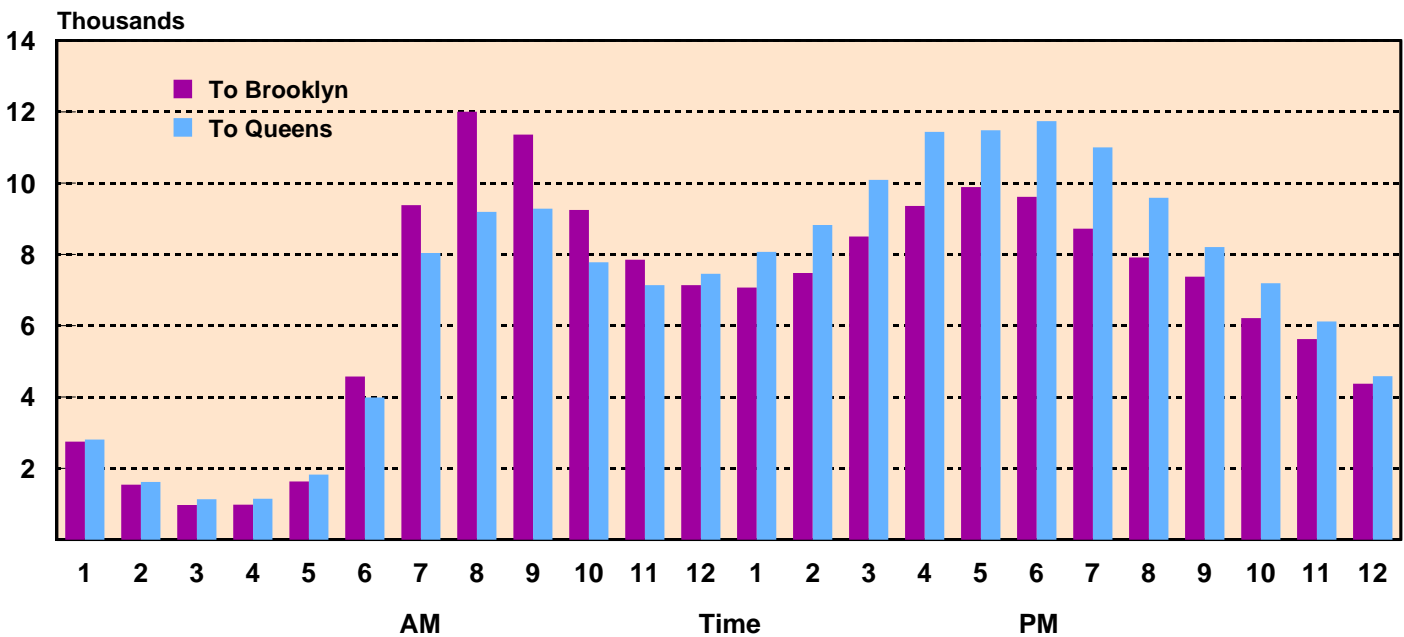


Brooklyn-Queens Screenline Hourly Vehicle Volumes

Newtown Creek Totals - 2008

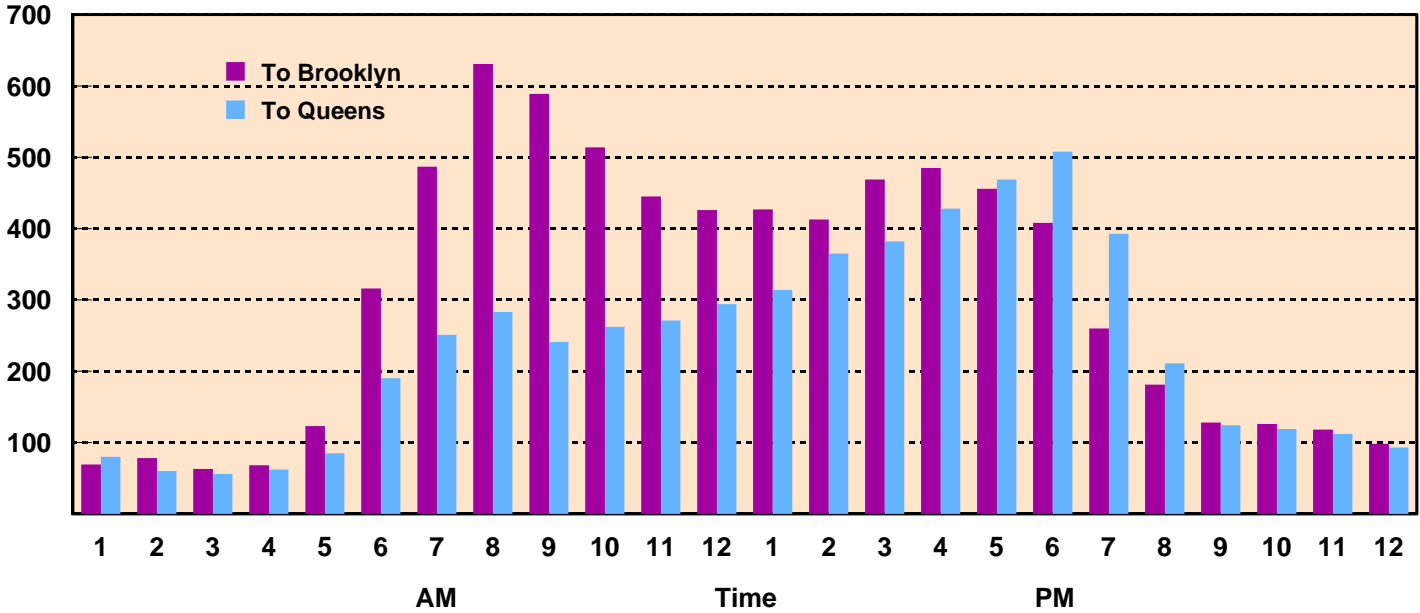


Total of Other Brooklyn-Queens Thoroughfares - 2008

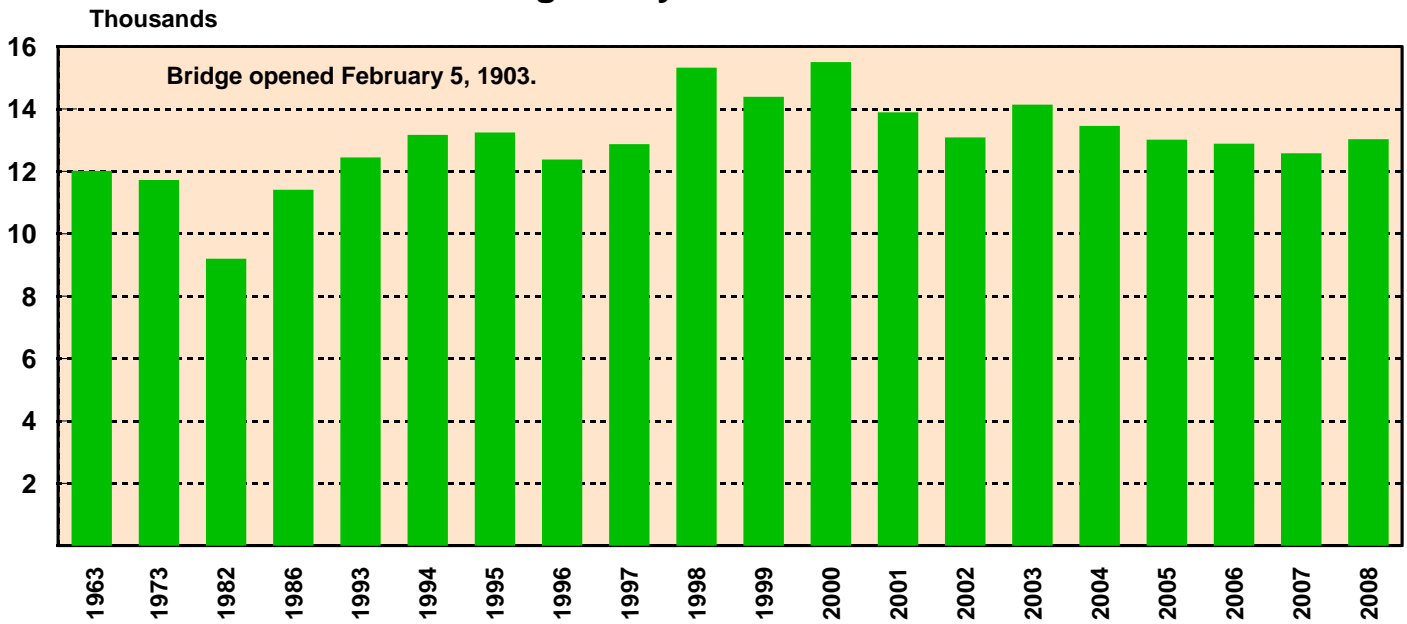


Brooklyn-Queens Screenline Volumes

Grand Street Bridge - 2008 Hourly Vehicular Volumes

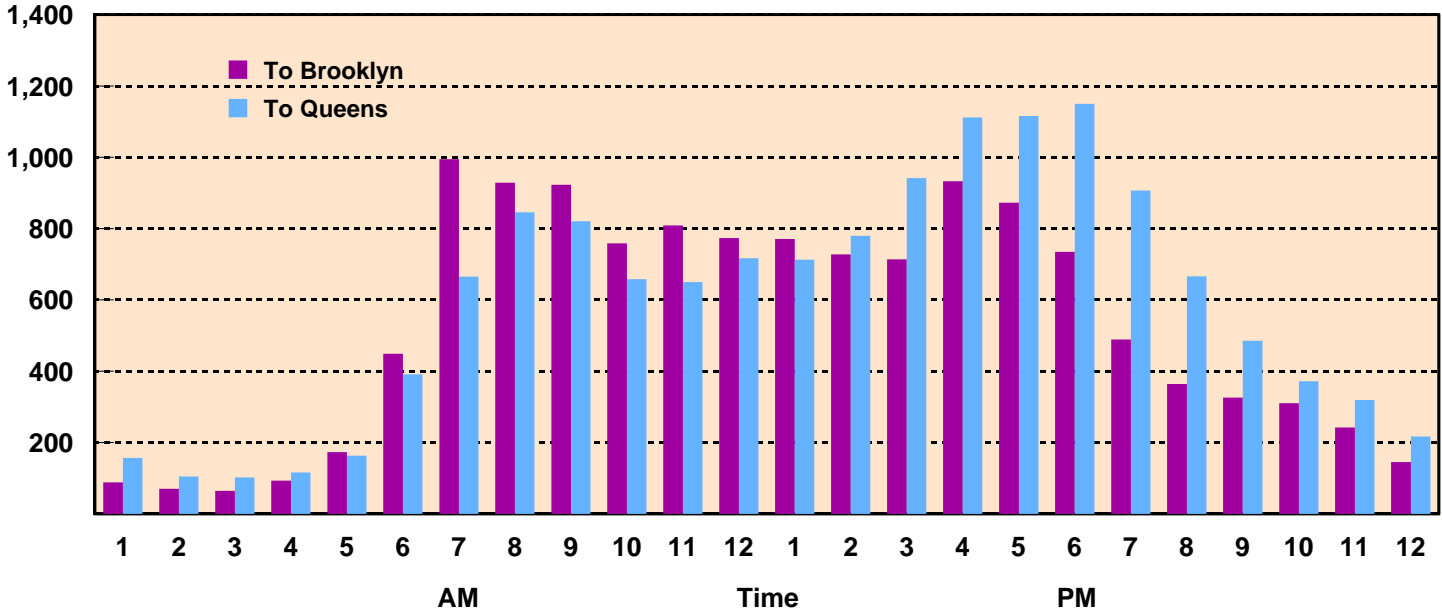


Grand Street Bridge Average Daily Traffic Volumes

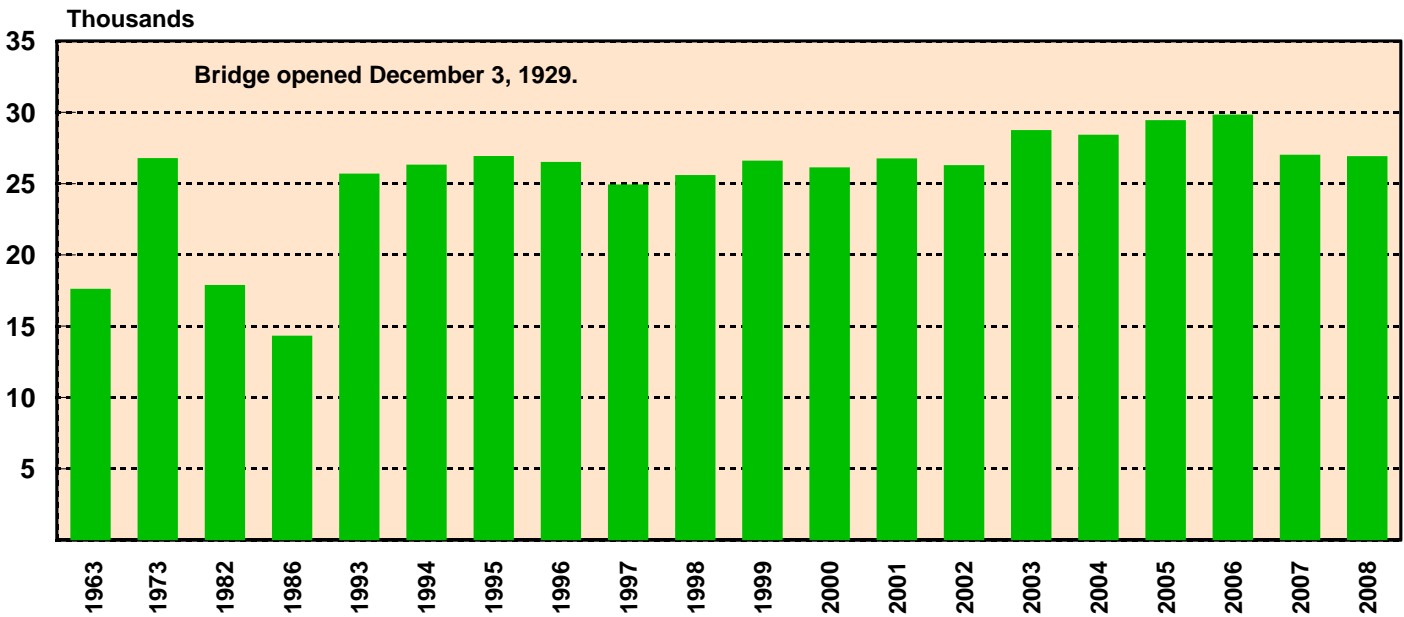


Brooklyn-Queens Screenline Volumes

Greenpoint Avenue Bridge - 2008 Hourly Vehicular Volumes

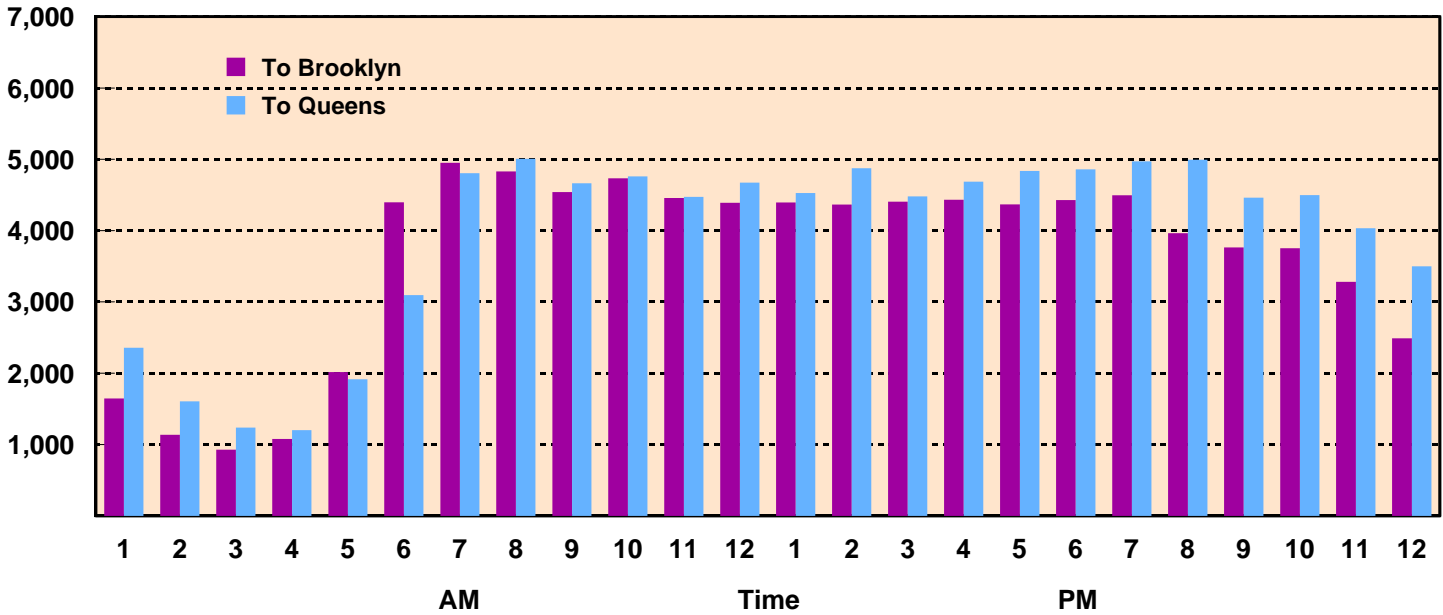


Greenpoint Avenue Bridge Average Daily Traffic Volumes

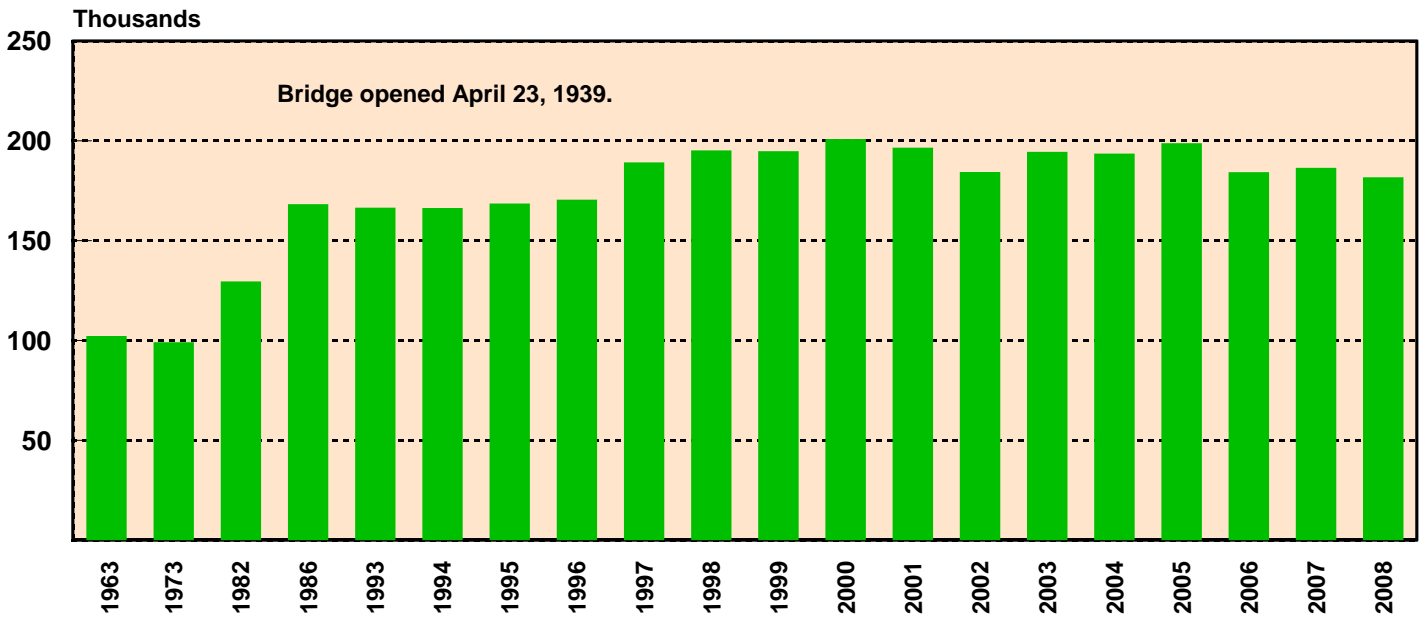


Brooklyn-Queens Screenline Volumes

Kosciuszko Bridge - 2008 Hourly Vehicular Volumes

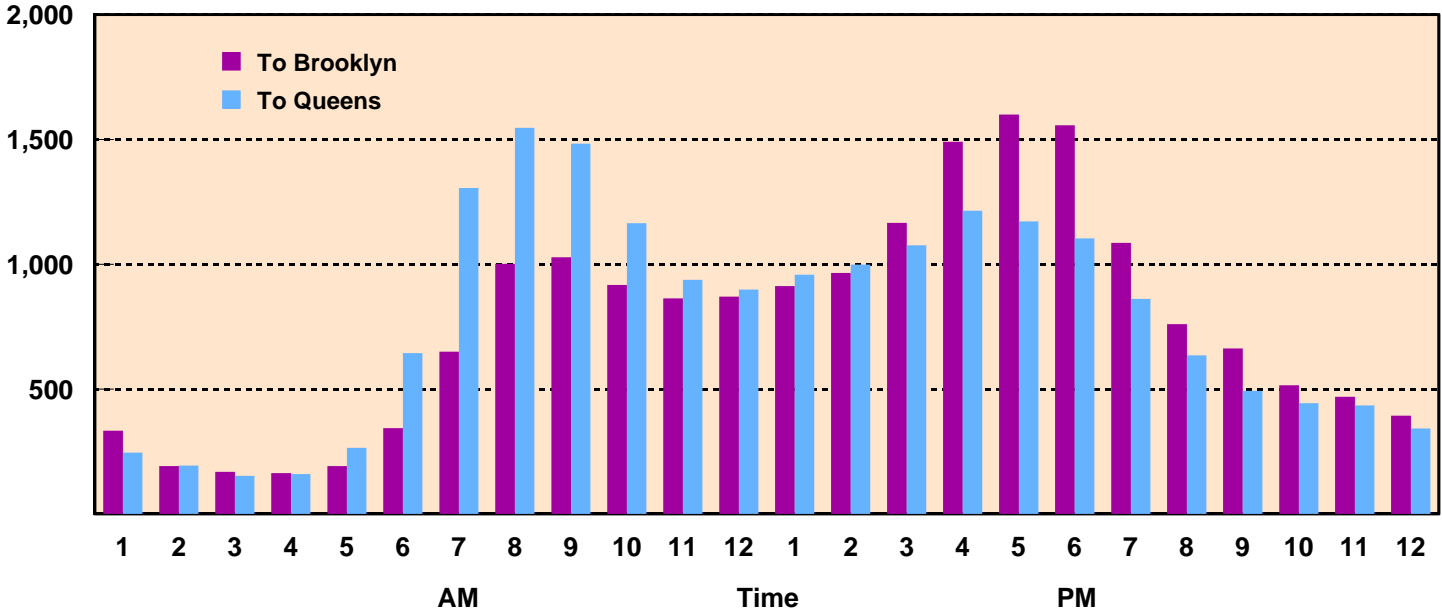


Kosciuszko Bridge Average Daily Traffic Volumes

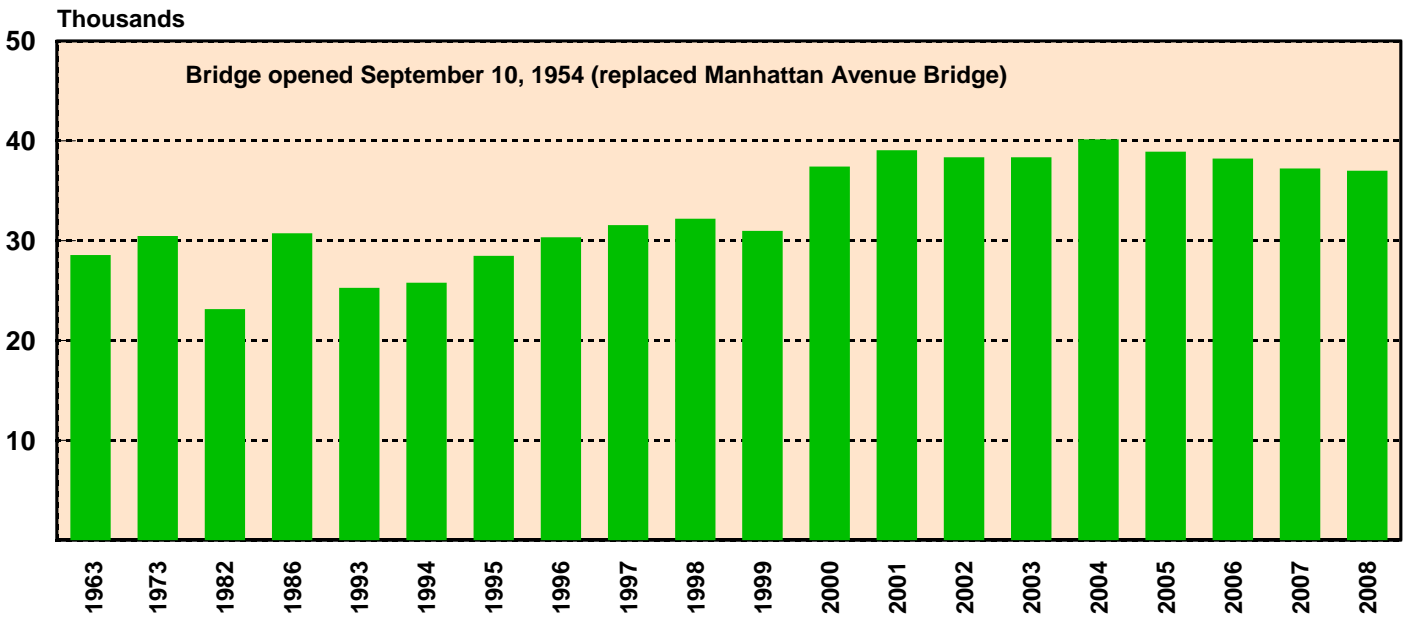


Brooklyn-Queens Screenline Volumes

Pulaski Bridge - 2008 Hourly Vehicular Volumes

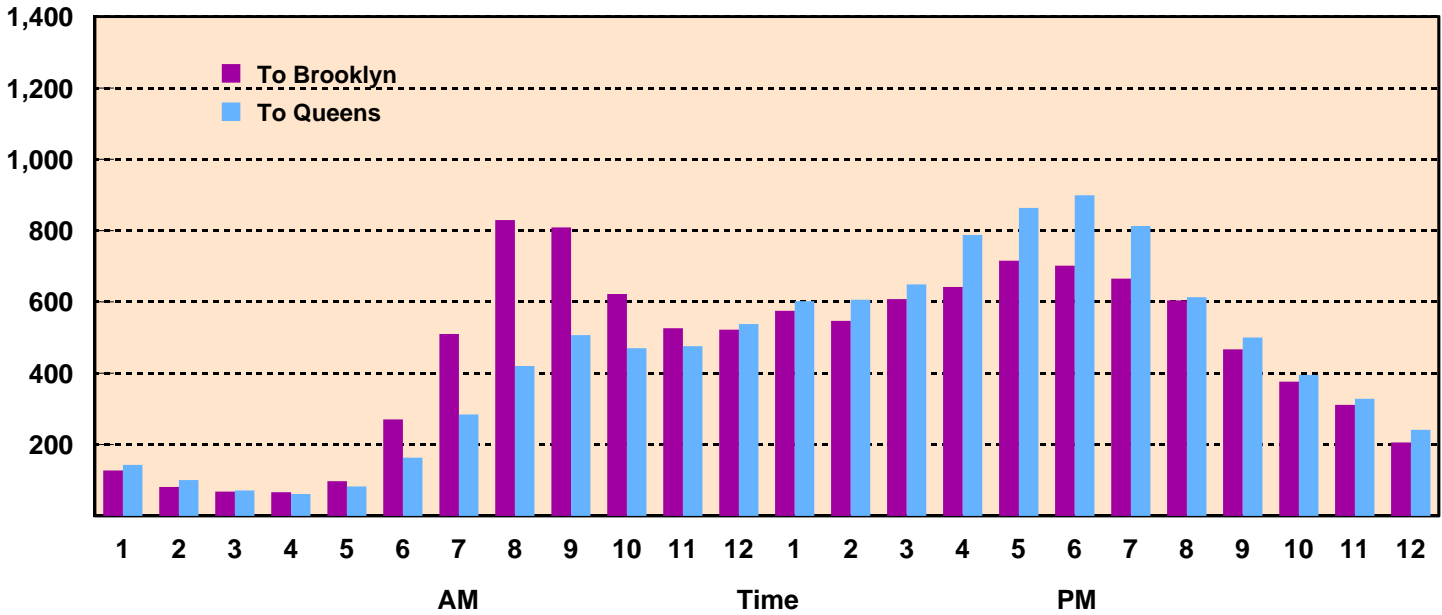


Pulaski Bridge Average Daily Traffic Volumes

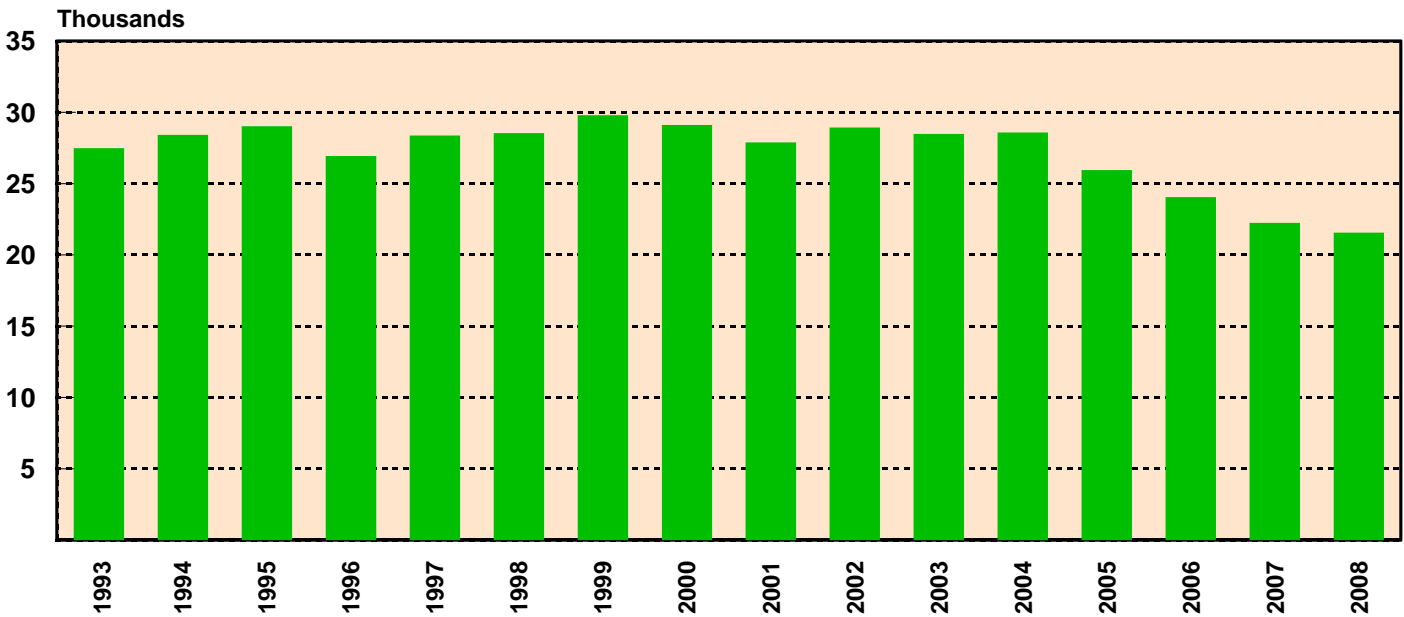


Brooklyn-Queens Screenline Volumes

Atlantic Avenue - 2008 Hourly Vehicular Volumes

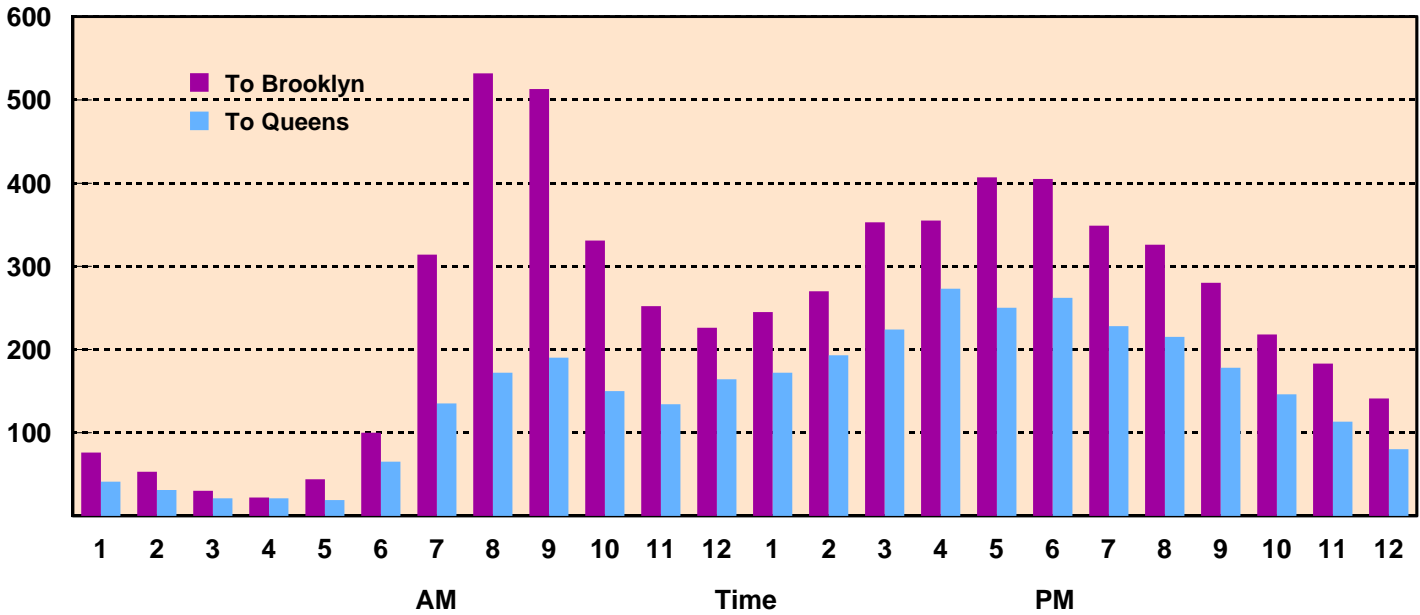


Atlantic Avenue Average Daily Traffic Volumes

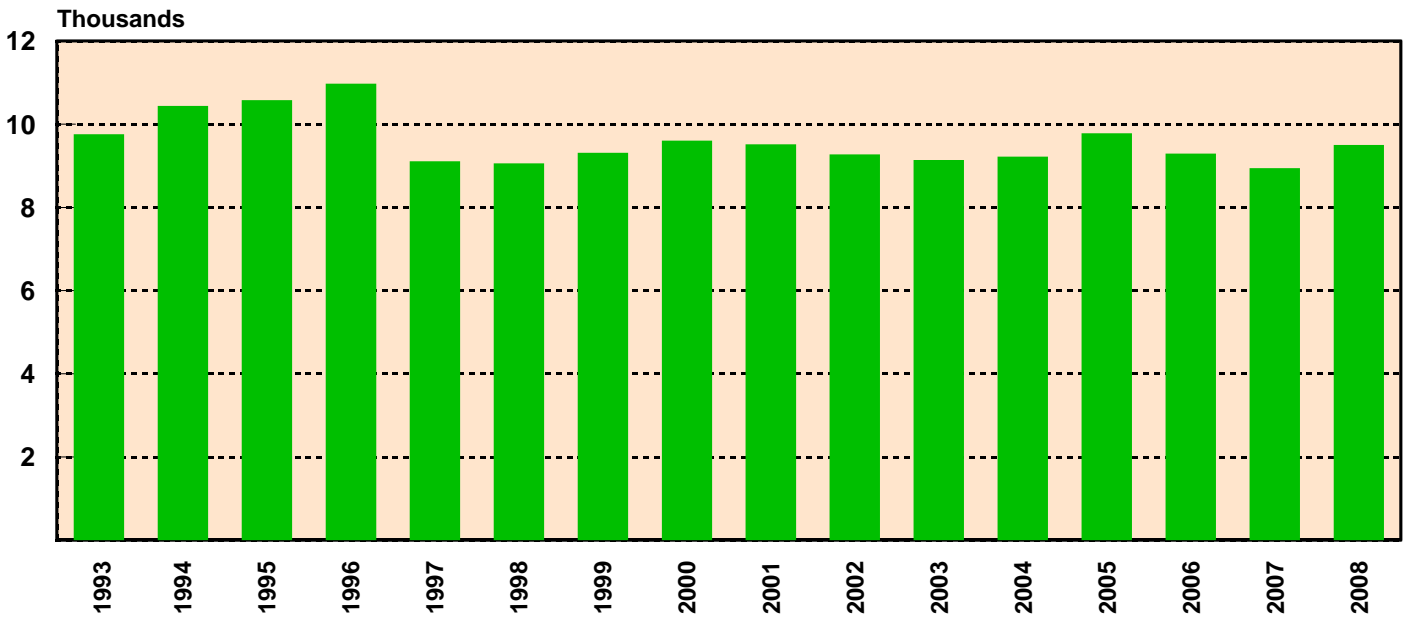


Brooklyn-Queens Screenline Volumes

Cooper Street - 2008 Hourly Vehicular Volumes

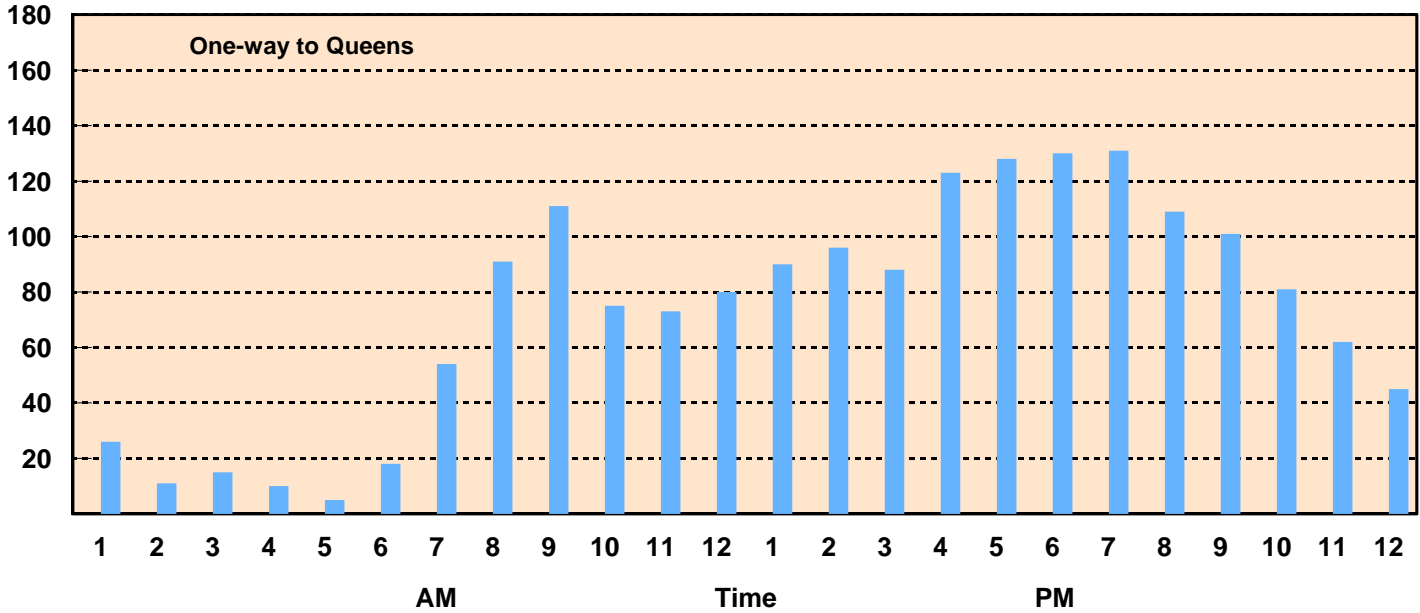


Cooper Street Average Daily Traffic Volumes

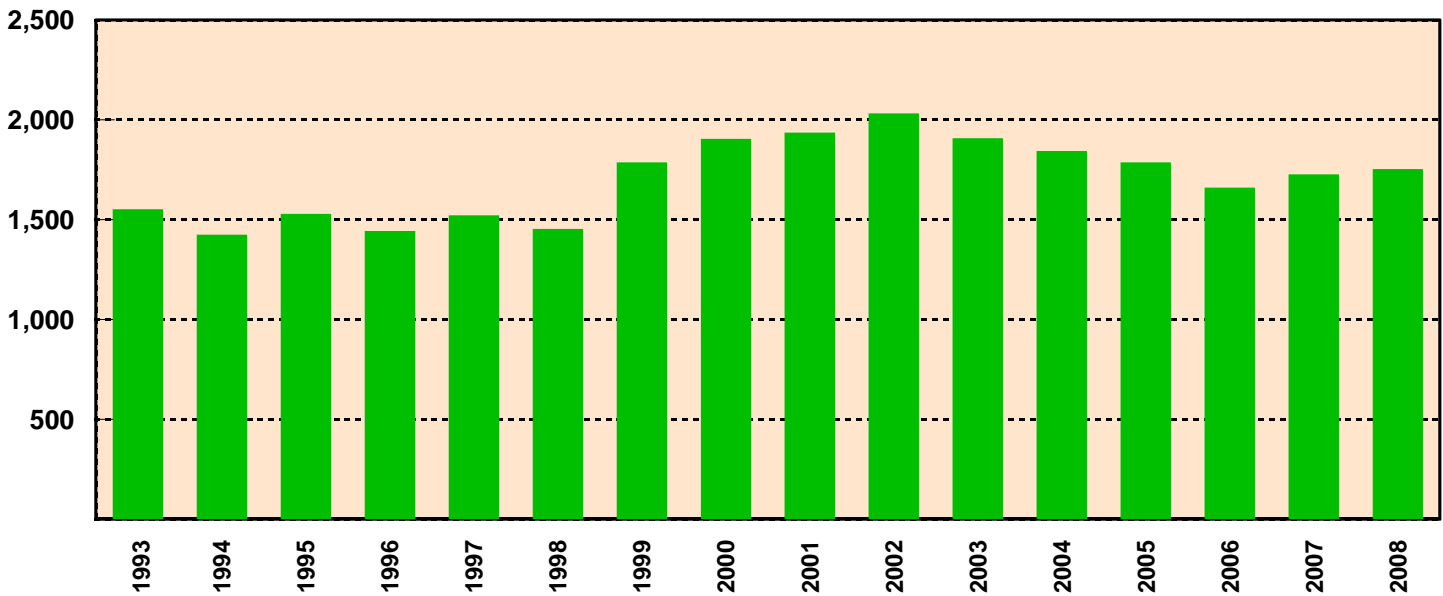


Brooklyn-Queens Screenline Volumes

Cornelia Street - 2008 Hourly Vehicular Volumes

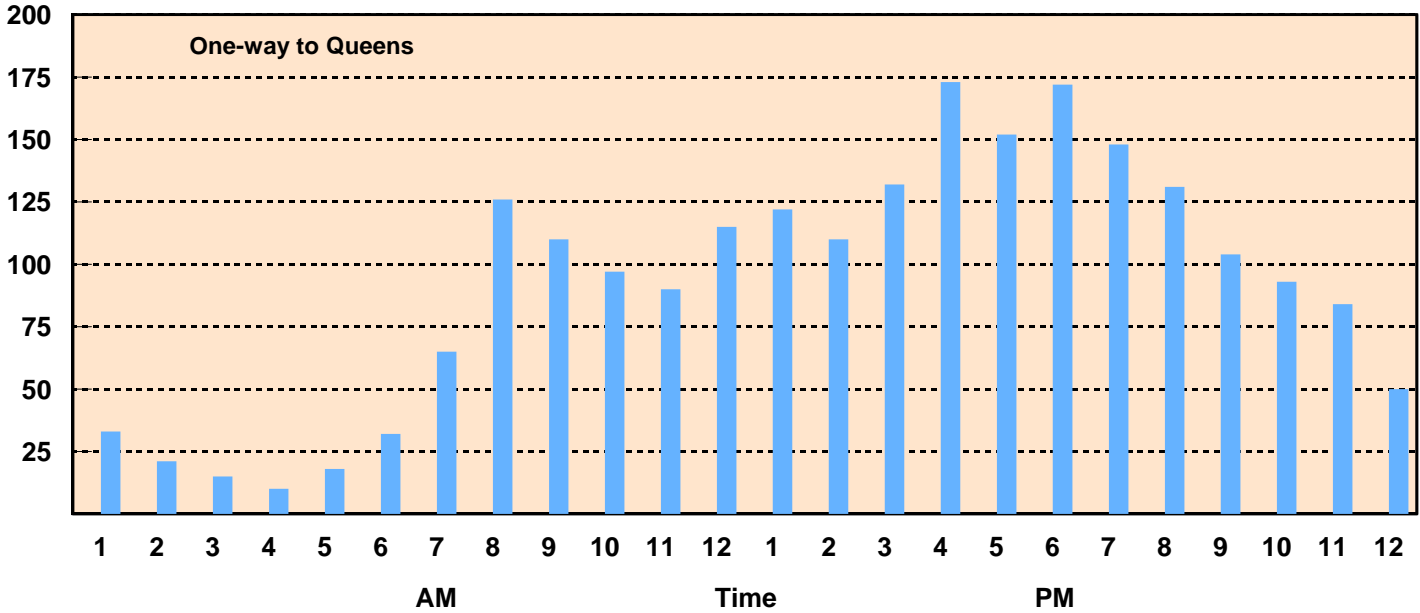


Cornelia Street Average Daily Traffic Volumes

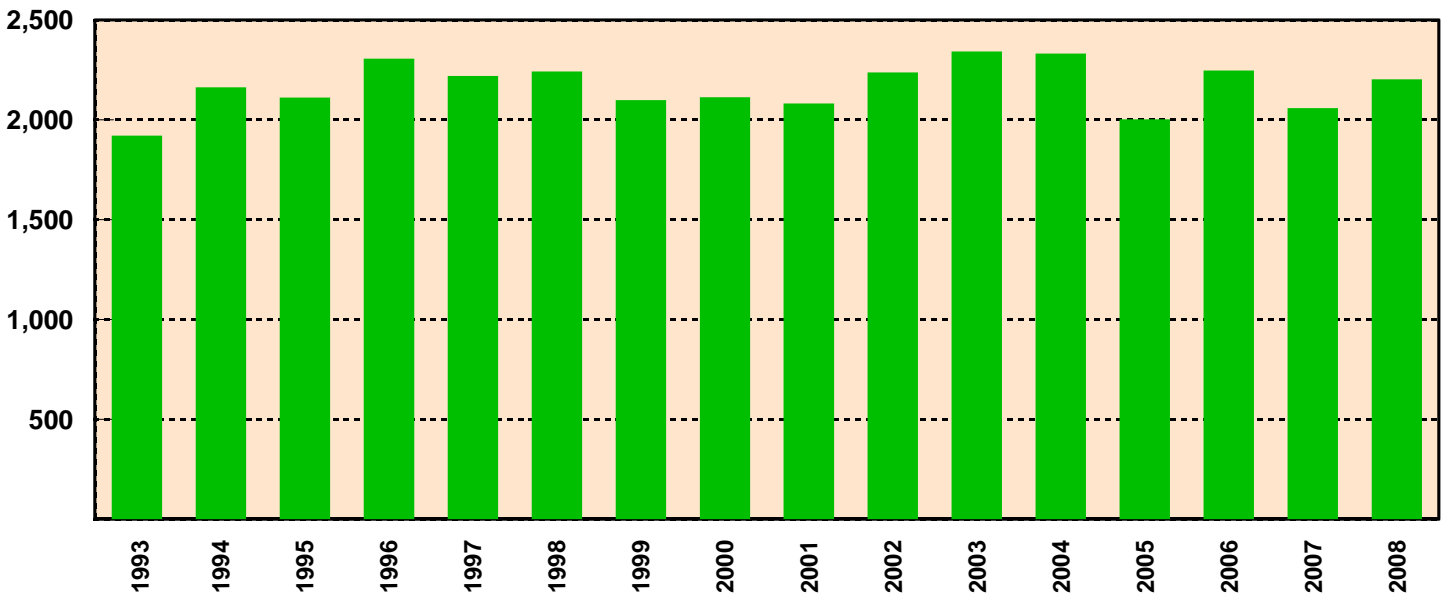


Brooklyn-Queens Screenline Volumes

Decatur Street - 2008 Hourly Vehicular Volumes

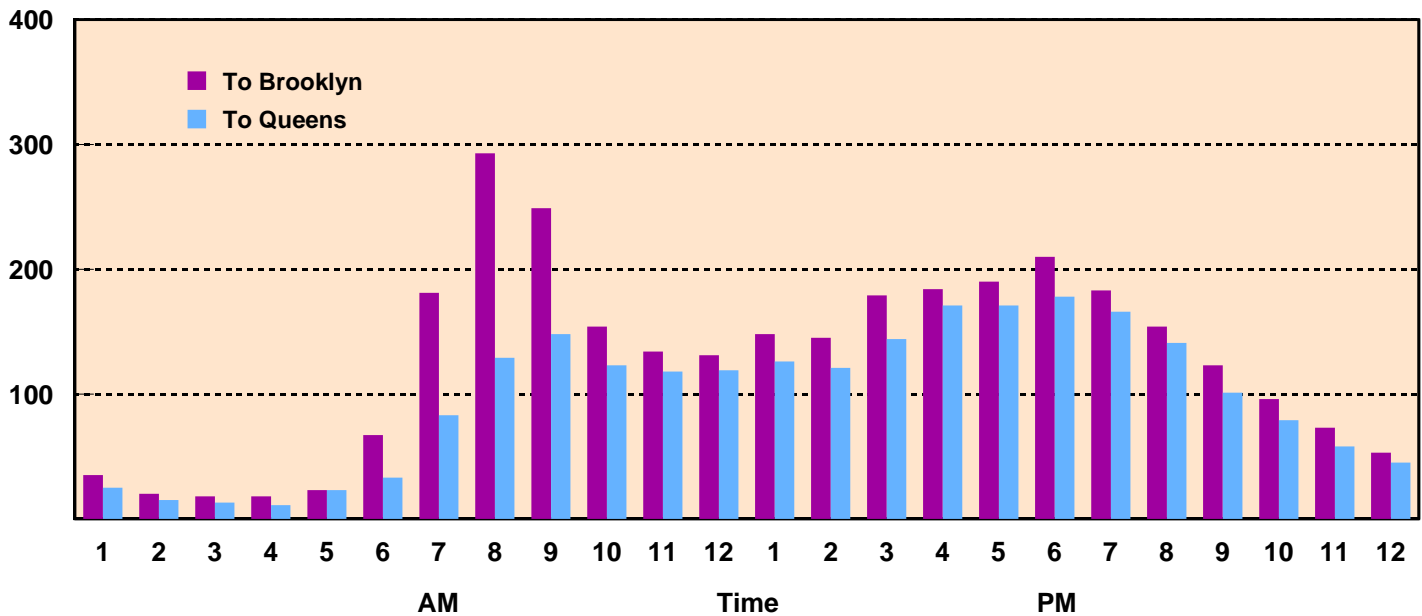


Decatur Street Average Daily Traffic Volumes

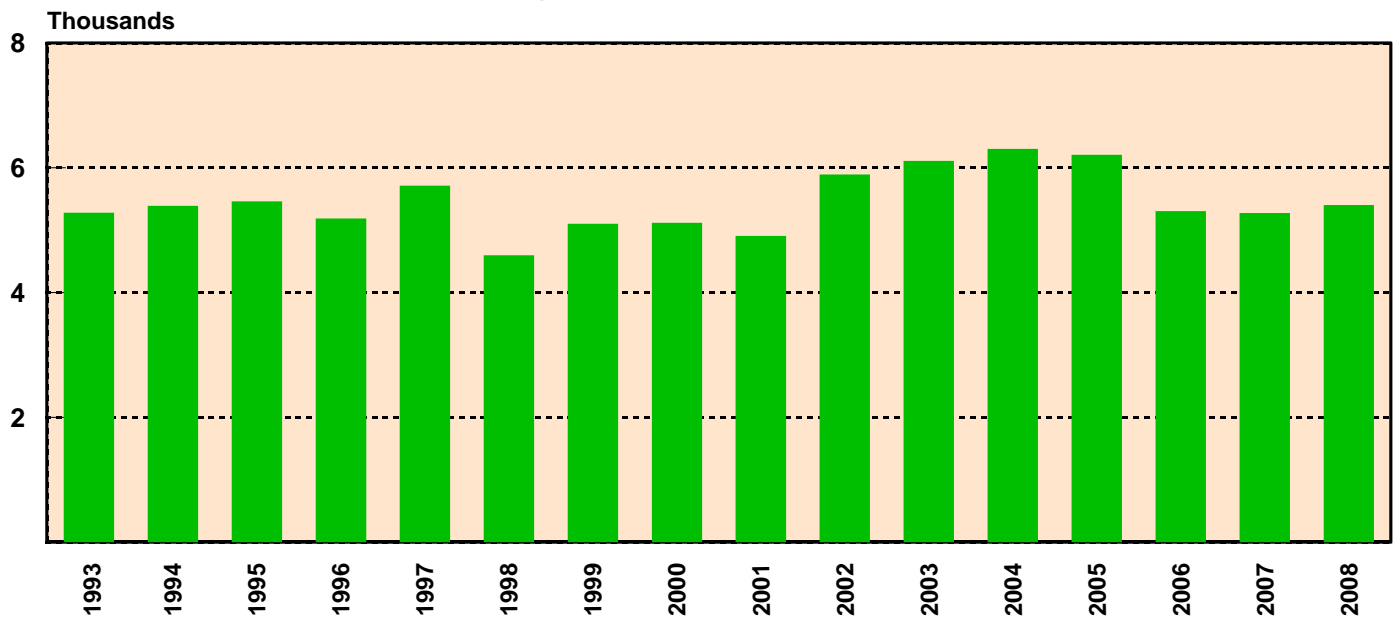


Brooklyn-Queens Screenline Volumes

DeKalb Avenue - 2008 Hourly Vehicular Volumes

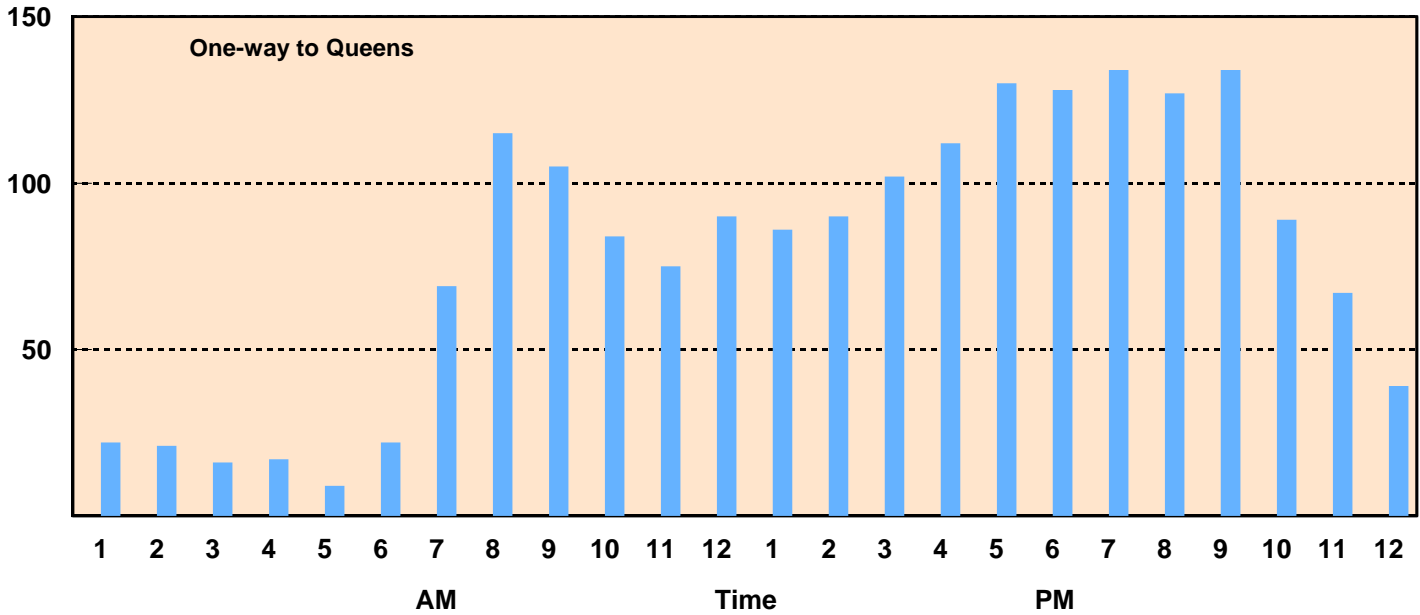


DeKalb Avenue Average Daily Traffic Volumes

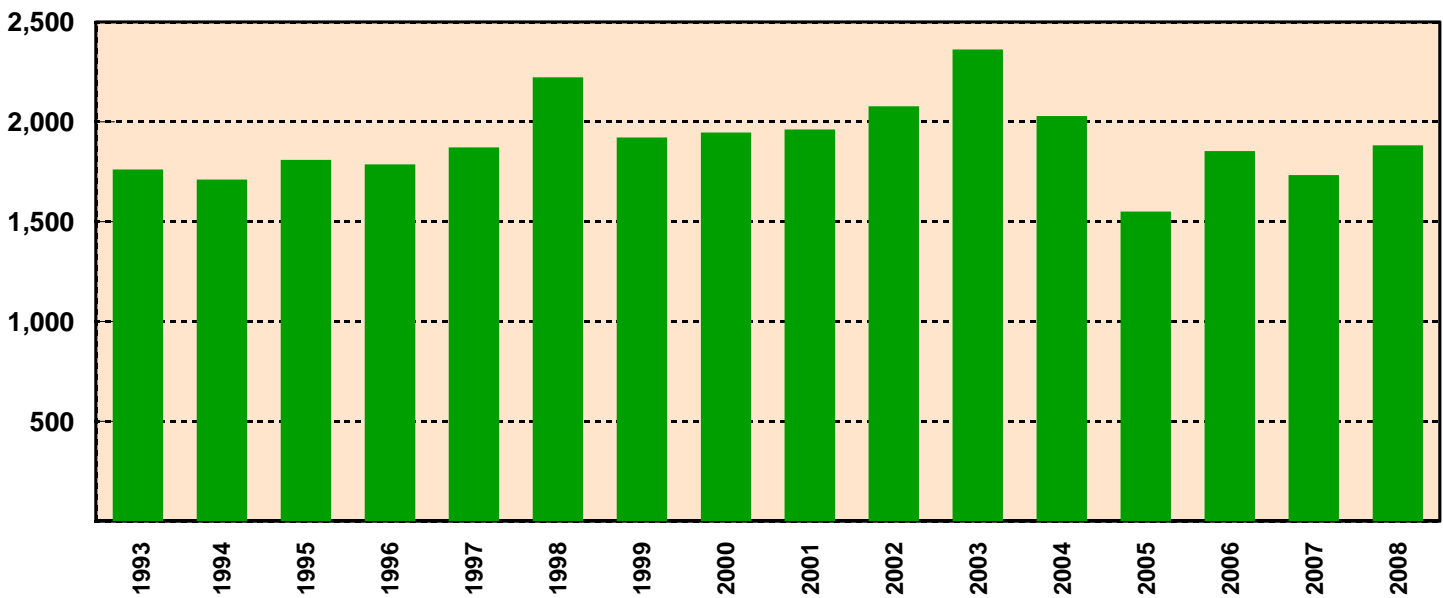


Brooklyn-Queens Screenline Volumes

Greene Avenue - 2008 Hourly Vehicular Volumes

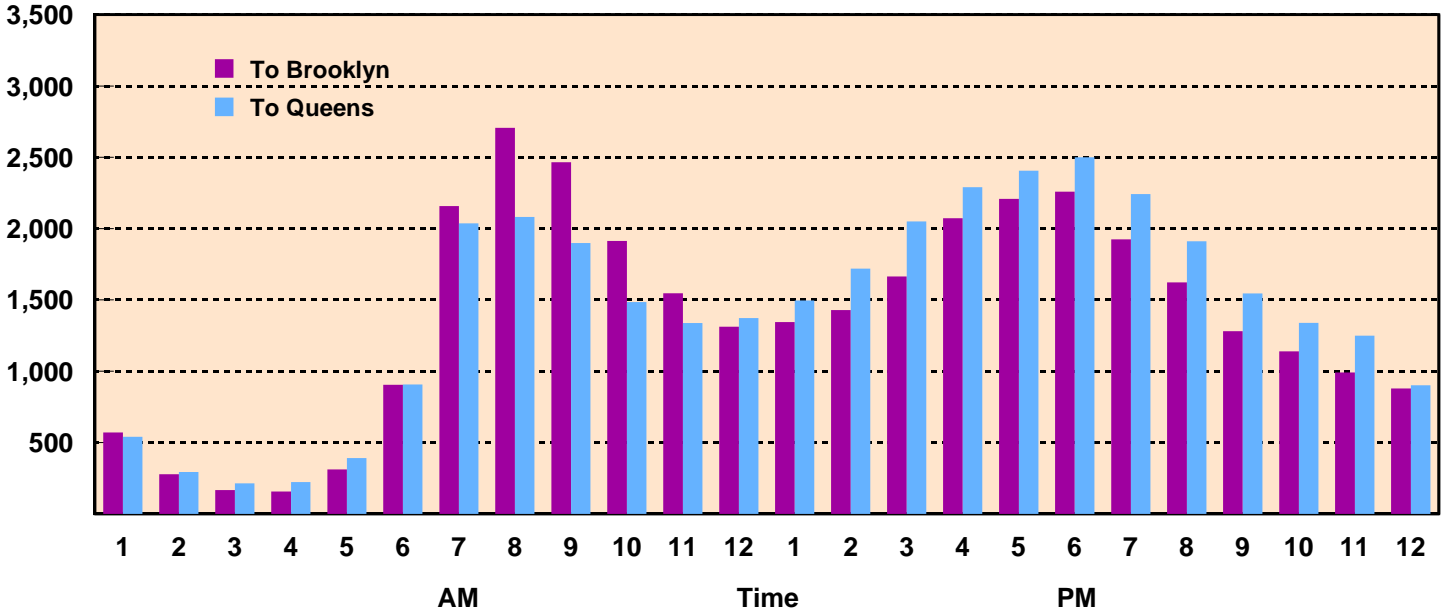


Greene Avenue Average Daily Traffic Volumes

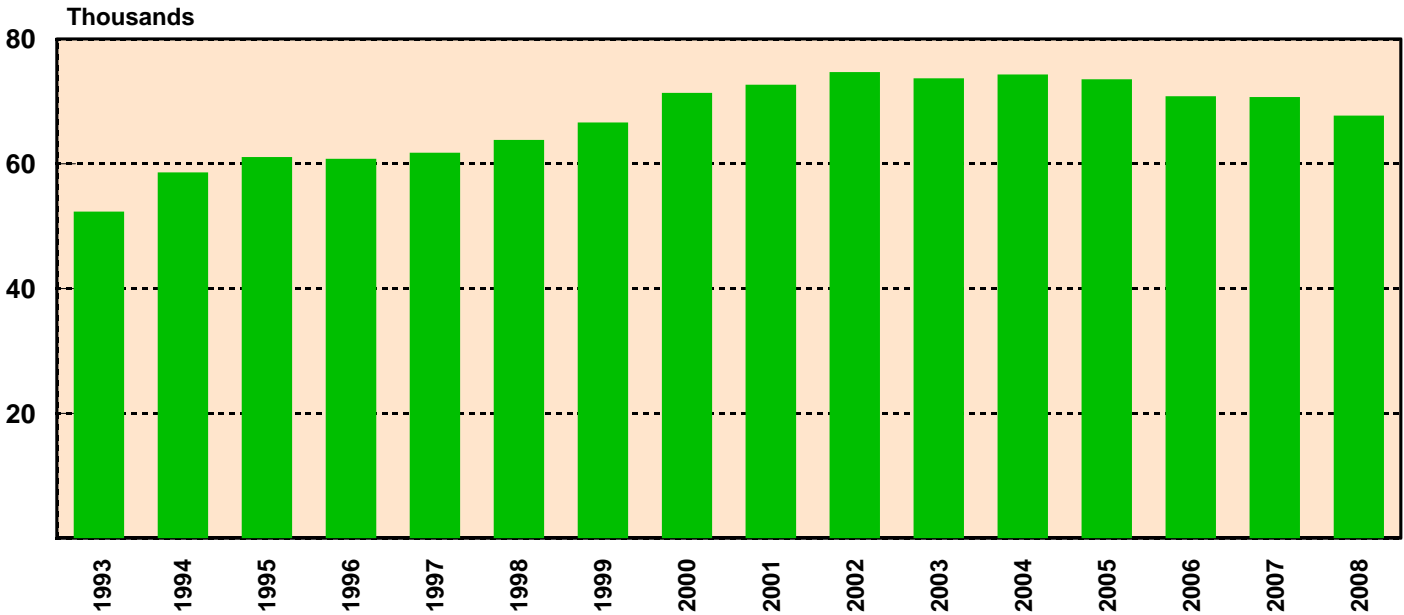


Brooklyn-Queens Screenline Volumes

Jackie Robinson Parkway - 2008 Hourly Vehicular Volumes

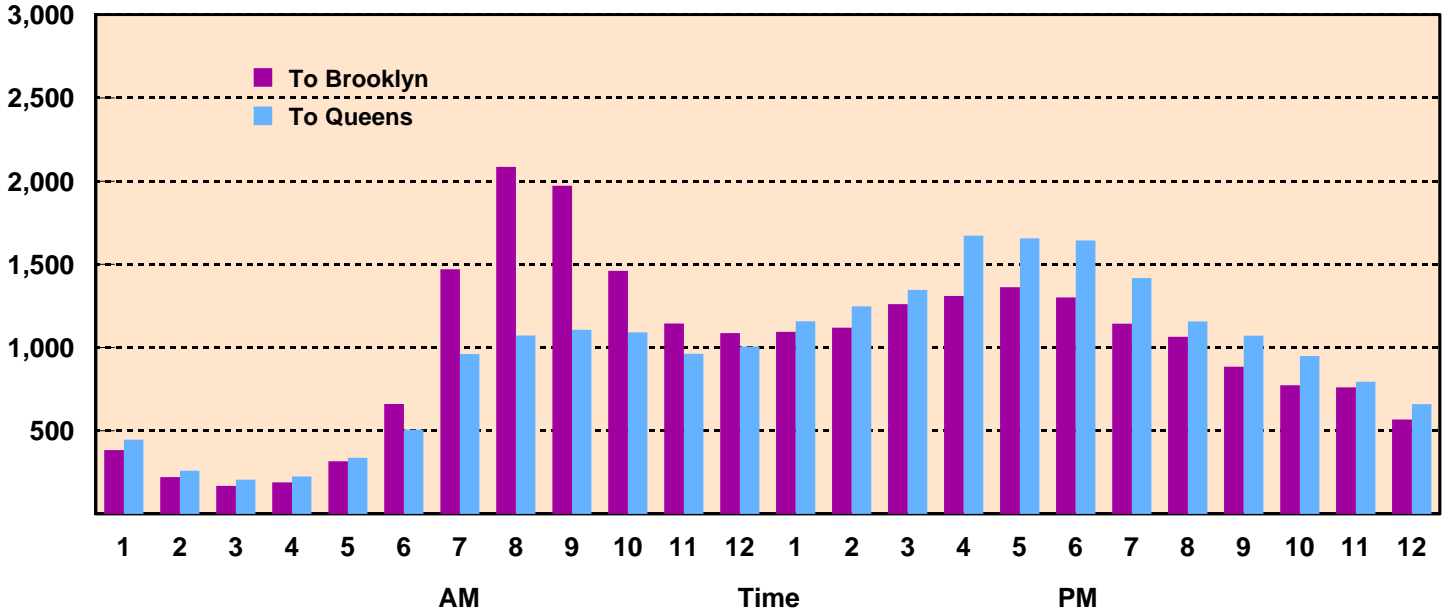


Jackie Robinson Parkway Average Daily Traffic Volumes

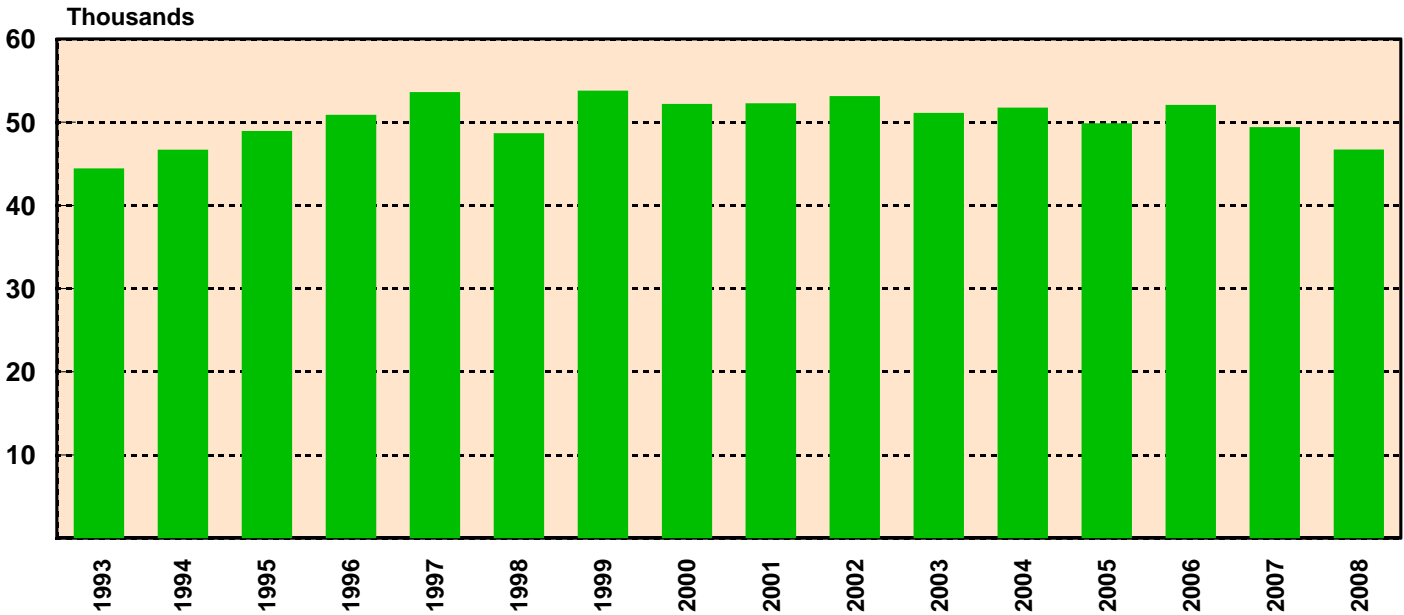


Brooklyn-Queens Screenline Volumes

Linden Boulevard - 2008 Hourly Vehicular Volumes

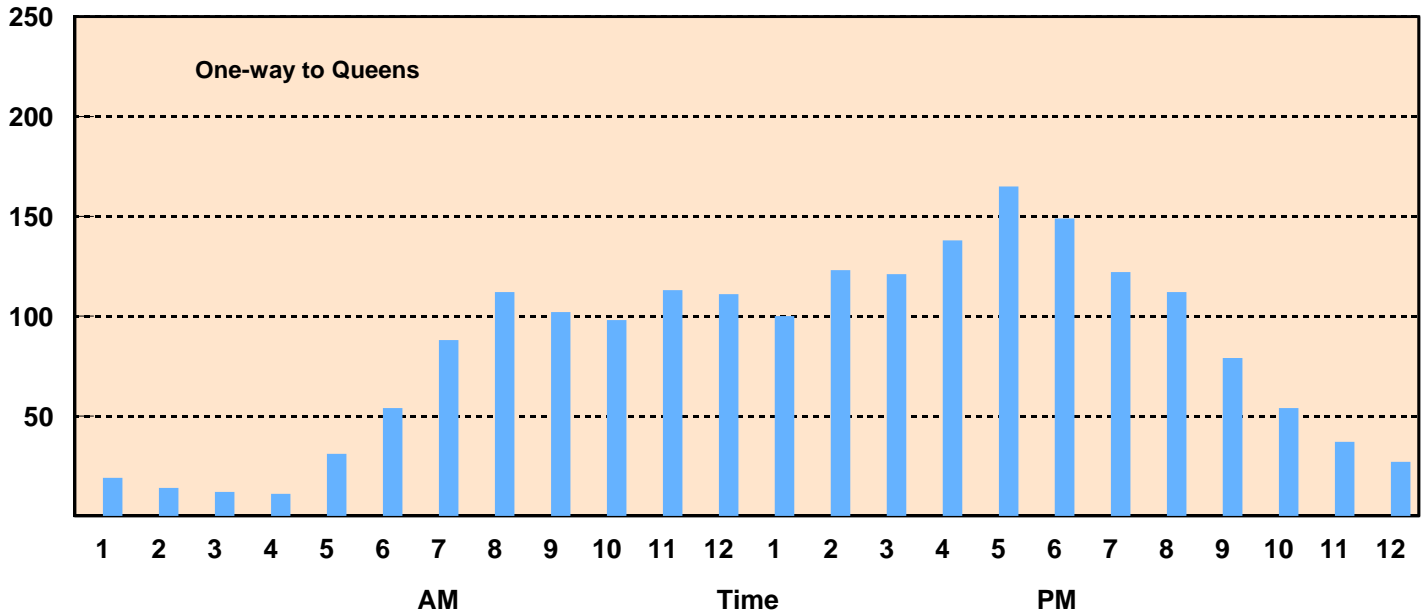


Linden Boulevard Average Daily Traffic Volumes

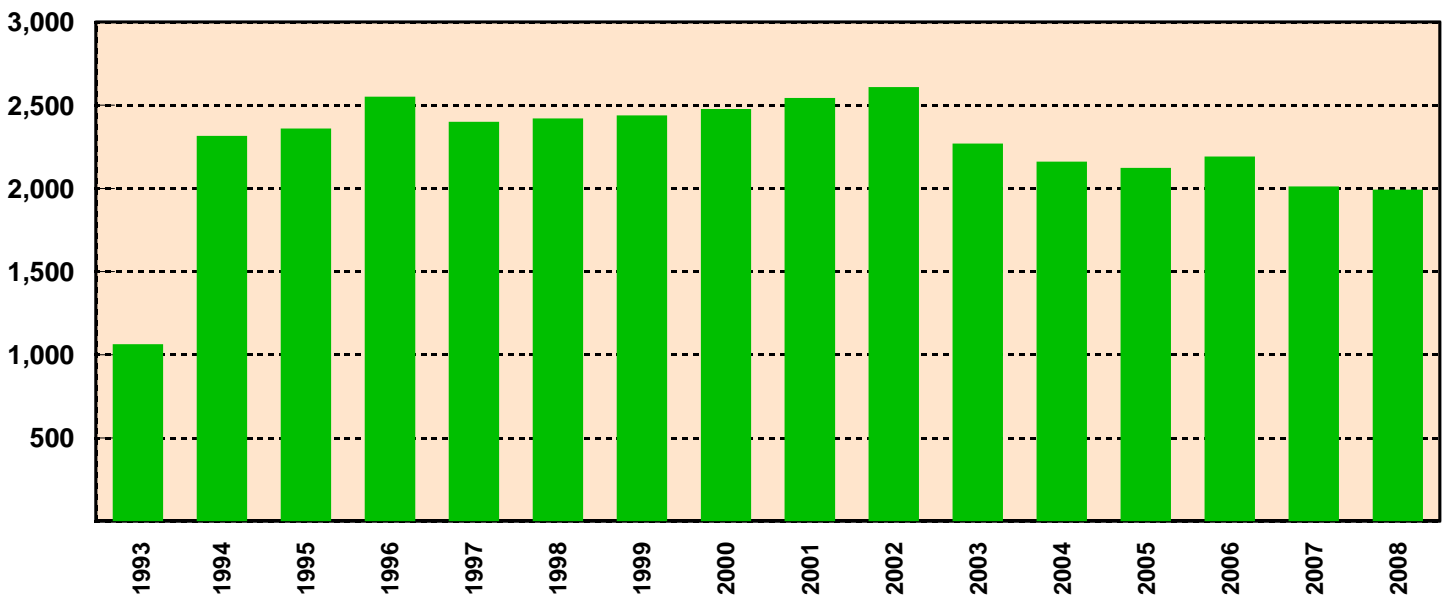


Brooklyn-Queens Screenline Volumes

Linden Street - 2008 Hourly Vehicular Volumes

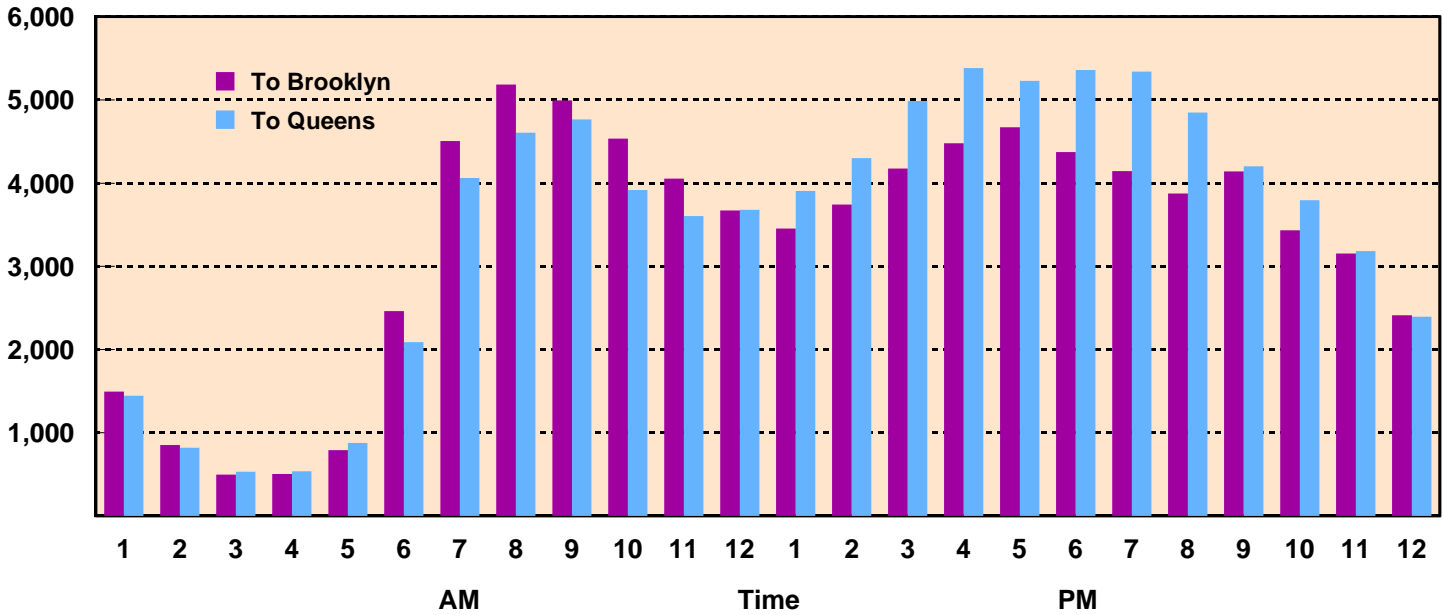


Linden Street Average Daily Traffic Volumes

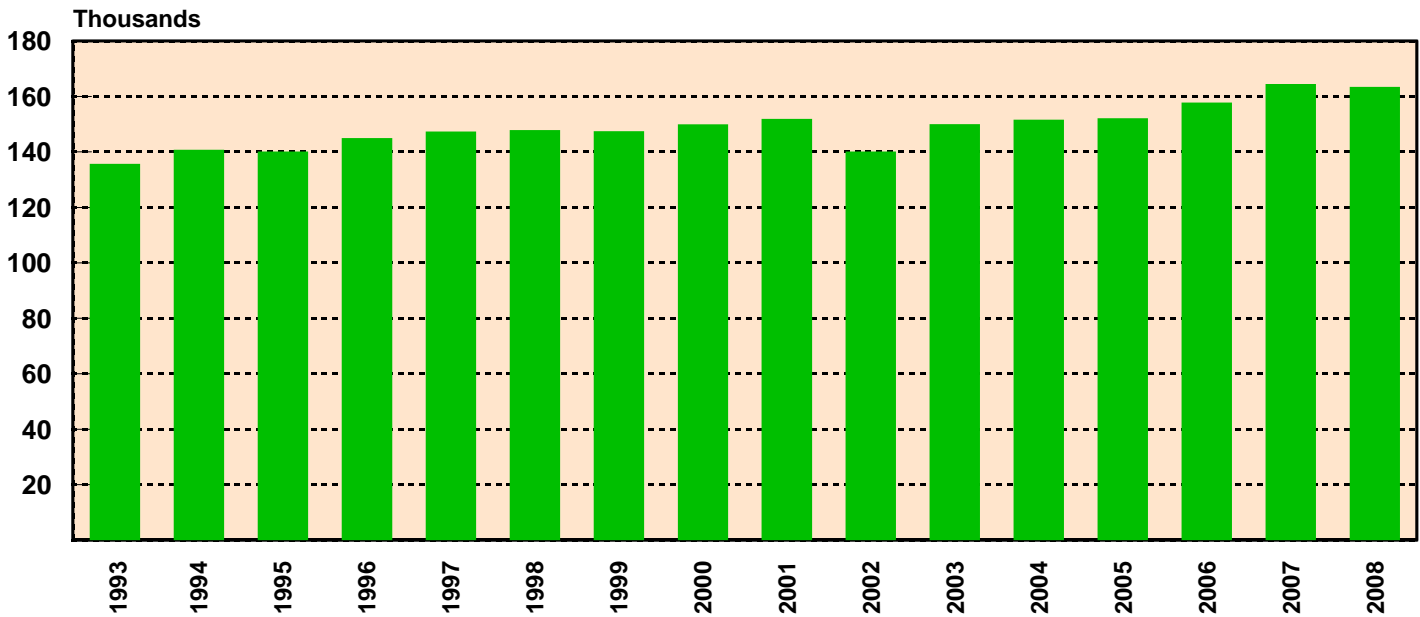


Brooklyn-Queens Screenline Volumes

Shore Parkway - 2008 Hourly Vehicular Volumes

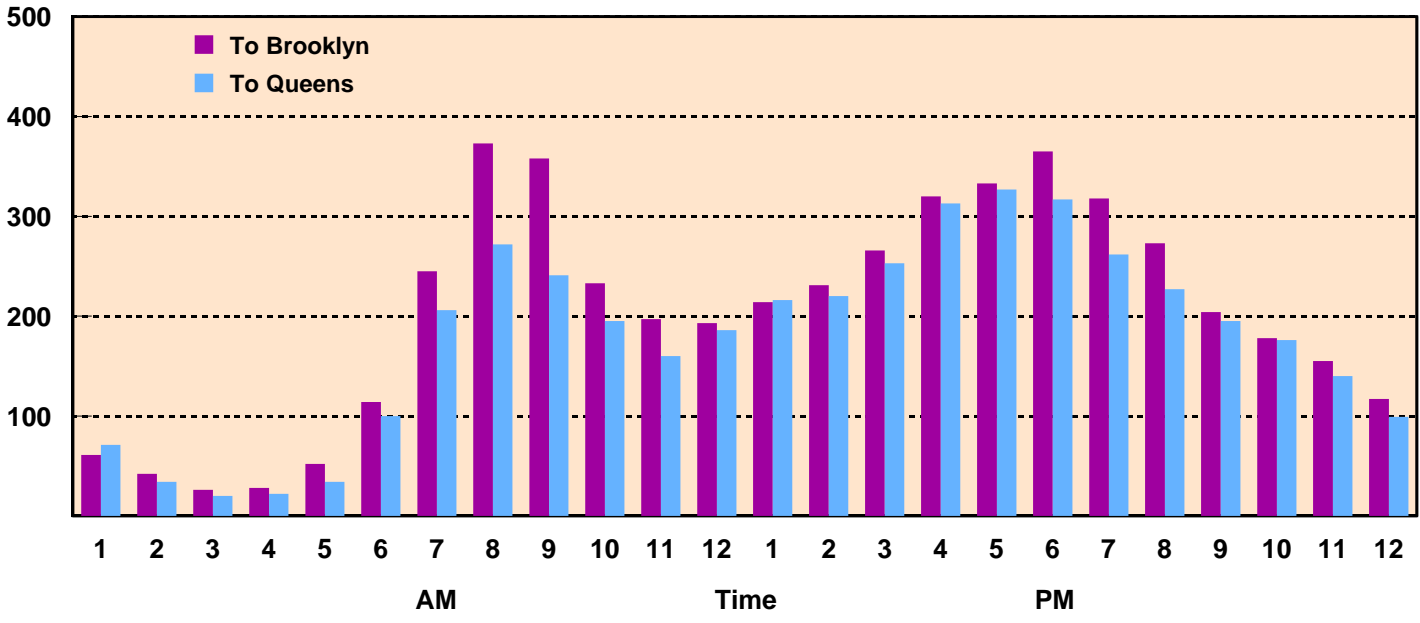


Shore Parkway Average Daily Traffic Volumes



Brooklyn-Queens Screenline Volumes

Sutter Avenue - 2008 Hourly Vehicular Volumes



Sutter Avenue Average Daily Traffic Volumes

