

2016 New York City Bridge Traffic Volumes



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A member of the New York Metropolitan Transportation Council



2016 New York City Bridge Traffic Volumes

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2016
NEW YORK CITY
BRIDGE TRAFFIC VOLUMES

2,664,484

vehicles per day used the 47 toll-free bridges monitored by the New York City Department of Transportation in 2016.

0.1% Increase

from the 2,661,105 daily vehicles recorded in 2015.

5.9% Decrease

In daily volume on the 4 bridges over Newtown Creek between Brooklyn and Queens, to 245,138 in 2016 from 260,529 in 2015.

9.2% Decrease (-16,556 Daily Vehicles)

Kosciuszko Bridge over Newtown Creek

Largest numerical decrease on bridges carrying more than 50,000 daily vehicles: 162,581 daily vehicles in 2016, down from 179,137 in 2015.

4.4% Increase (+9,265 Daily Vehicles)

Whitestone Expressway Bridge over the Flushing River

Largest numerical increase on bridges carrying more than 50,000 daily vehicles: 218,227 daily vehicles in 2016, up from 208,962 in 2015. This is the most heavily used of the 47 toll-free bridges monitored by the New York City Department of Transportation.



Ed Koch Queensboro Bridge over the East River

170,277 vehicles per day, the most heavily-utilized of the four East River bridges.

Alexander Hamilton Bridge over Harlem River

177,853 vehicles per day, the most heavily-utilized of the nine Harlem River bridges.

Kosciuszko Bridge over Newtown Creek

162,581 vehicles per day, the most heavily-utilized of the four bridges between Brooklyn and Queens.

Eastern Boulevard Bridge over the Bronx River

183,090 vehicles per day, the most heavily-utilized of the eight bridges in The Bronx.

Mill Basin Bridge along Belt Parkway

137,226 vehicles per day, the most heavily-utilized of the ten bridges in Brooklyn.



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Introduction



Grand Street Bridge over Newtown Creek

INTRODUCTION

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

Since 1948, NYCDOT has monitored traffic flow on 47 water-crossing bridges throughout the five boroughs. This *2016 New York City Bridge Traffic Volumes* report summarizes vehicular volumes and classification data for each of these bridges. Information is also presented for the nine bridges and tunnels operated by the Metropolitan Transportation Authority Bridges and Tunnels (MTABT), and the six bridges and tunnels operated by the Port Authority of New York and New Jersey (PANYNJ).

The 47 bridges are monitored with automatic traffic recording (ATR) machines. Hourly volumes by direction for each bridge are presented in tabular form. Graphical presentations of the hourly volumes by direction are provided by histograms. Hourly classification data identifies the volumes by vehicle type. In addition, changes in the traffic volumes for all facilities over the past 67 years are shown in graphical form.

Bridge and tunnel locations are shown on maps at the beginning of the sections on the various bridge groups, e.g., East River Bridges, Harlem River Bridges, Brooklyn-Queens Bridges, etc.

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.

A more comprehensive analysis of bridges and tunnels serving Manhattan is presented in the *Manhattan River Crossings* report which also is published annually.

Each bridge and tunnel is classified under a highway functional classification system. Functional classification is the process 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 routes.

Summary



The new City Island
Bridge construction -
2017

SUMMARY

2016 Volumes

- In 2016, daily traffic on the 47 bridges monitored by the New York City Department of Transportation increased 0.1%, to 2,664,484 in 2016 from 2,661,105 in 2015.
- Daily traffic on the four East River bridges decreased 0.5%, to 466,685 in fall 2016 from 468,918 in fall 2015.
- Daily volume using the nine Harlem River bridges increased 1.9%, to 540,830 in fall 2016 from 530,808 in fall 2015.
- Daily traffic using the four bridges over Newtown Creek between Queens and Brooklyn decreased 5.9%, to 245,138 in 2016 from 260,529 in 2015.
- On the eight bridges in The Bronx, daily traffic increased 1.2%, to 467,807 in 2016 from 462,216 in 2015.
- On the ten bridges in Brooklyn, daily traffic decreased 2.0%, to 317,121 from 323,594.
- On the eleven bridges in Queens, daily traffic increased 1.6%, to 566,219 from 557,502.
- Daily traffic on the Fresh Kills Bridge in Staten Island increased 5.5%, to 60,684 from 57,538.

Most Heavily Used City-Operated Bridges in 2016

- Whitestone Expressway Bridge over the Flushing River in Queens (218,227 vehicles per day).
- Kosciuszko Bridge over Newtown Creek between Brooklyn and Queens (162,581 vehicles per day).
- Alexander Hamilton Bridge over the Harlem River between Manhattan and The Bronx (177,853 vehicles per day).
- Eastern Boulevard Bridge over the Bronx River in The Bronx (183,090 vehicles per day).
- Ed Koch Queensboro Bridge over the East River between Manhattan and Queens (170,277 vehicles per day).
- Mill Basin Bridge along Belt Parkway in Brooklyn (137,226 vehicles per day).
- Hutchinson River Parkway Bridge over the Hutchinson River in The Bronx (126,171 vehicles per day).
- Williamsburg Bridge over the East River between Manhattan and Brooklyn (105,645 vehicles per day).
- Brooklyn Bridge over the East River between Manhattan and Brooklyn (105,679 vehicles per day).

Major Increases

- Whitestone Expressway Bridge over the Flushing River in Queens: up 9,265 daily vehicles, to 218,227 in 2016 from 208,962 in 2015 (+4.4%).
- Eastern Boulevard Bridge over the Bronx River in The Bronx: up 5,091 daily vehicles, to 183,090 from 177,999 (+2.9%).
- Madison Avenue Bridge over the Harlem River between the Bronx and Manhattan: up 3,906 daily vehicles, to 44,338 from 40,432 (+9.7%).
- Washington Bridge over the Harlem River between Bronx and Manhattan: up 3,641 daily vehicles, to 57,647 from 54,006 (+6.7%).

Major Decreases

- Ed Koch Queensboro Bridge over the East River between Queens and Manhattan: down 4,170 daily vehicles, to 170,277 in 2016 from 174,447 in 2015 (-2.4%).
- Kosciuszko Bridge on the Brooklyn-Queens Expressway over Newtown Creek between Brooklyn and Queens: down 16,556 daily vehicles, to 162,581 in 2016 from 179,137 in 2015 (-9.2%).
- Mill Basin Bridge over the Mill Basin in Brooklyn: down 4,077 daily vehicles, to 137,226 in 2016 from 141,303 in 2015 (-2.9%).
- Metropolitan Avenue Bridge over English Kills between in Brooklyn: down 2,504 daily vehicles, to 35,687 from 38,191 (-6.6%).

2015-2016 Traffic Volume Trends
N.Y.C. Bridges and Tunnels
Both Directions

Page 1 of 3

EAST RIVER BRIDGES	Highway Functional Classification	2015	2016	Percent Change	Volume Changes
Brooklyn Bridge	Principal Arterial	102,219	105,679	3.4 %	3,460
Ed Koch Queensboro Bridge *	Principal Arterial	174,447	170,277	- 2.4 %	4,170
Manhattan Bridge	Principal Arterial	87,046	85,084	- 2.3 %	1,962
Williamsburg Bridge	Principal Arterial	105,206	105,645	0.4 %	439
Total, 4 East River Bridges		468,918	466,685	- 0.5 %	2,233
HARLEM RIVER BRIDGES					
Alexander Hamilton Bridge	Interstate	178,407	177,853	- 0.3 %	554
Broadway Bridge	Principal Arterial	33,897	36,027	6.3 %	2,130
Macombs Dam Bridge	Principal Arterial	38,556	38,183	- 1.0 %	373
Madison Avenue Bridge	Principal Arterial	40,432	44,338	9.7 %	3,906
Third Avenue Bridge	Principal Arterial	55,988	55,096	- 1.6 %	892
University Heights Bridge	Principal Arterial	38,513	40,078	4.1 %	1,565
Washington Bridge	Minor Arterial	54,006	57,647	6.7 %	3,641
Willis Avenue Bridge	Principal Arterial	63,912	62,293	- 2.5 %	1,619
145th Street Bridge	Minor Arterial	27,097	29,315	8.2 %	2,218
Total, 9 Harlem River Bridges		530,808	540,830	1.9 %	10,022
BROOKLYN-QUEENS BRIDGES					
Grand Street Bridge	Principal Arterial	12,546	10,213	- 18.6 %	2,333
J.J. Byrne Memorial Bridge **	Principal Arterial	28,361	31,622	11.5 %	3,261
Kosciuszko Bridge	Interstate	179,137	162,581	- 9.2 %	16,556
Pulaski Bridge	Principal Arterial	40,485	40,722	0.6 %	237
Total, 4 Brooklyn-Queens Bridges (Over Newtown Creek)		260,529	245,138	- 5.9 %	15,391
BRONX BRIDGES					
City Island Bridge	Minor Arterial	15,292	14,473	- 5.4 %	819
East 174th Street Bridge	Minor Arterial	16,556	17,701	6.9 %	1,145
Eastchester Bridge	Principal Arterial	22,317	21,761	- 2.5 %	556
Eastern Boulevard Bridge	Interstate	177,999	183,090	2.9 %	5,091
Hutchinson River Parkway Bridge	Principal Arterial	124,390	126,171	1.4 %	1,781
Pelham Bridge	Minor Arterial	17,241	16,840	- 2.3 %	401
Unionport Bridge	Principal Arterial	62,410	63,024	1.0 %	614
Westchester Avenue Bridge	Principal Arterial	26,011	24,747	- 4.9 %	1,264
Total, 8 Bronx Bridges		462,216	467,807	1.2 %	5,591

* Queensboro Bridge renamed April 11, 2011.

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

2015-2016 Traffic Volume Trends
N.Y.C. Bridges and Tunnels
Both Directions
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BROOKLYN BRIDGES	Highway Functional Classification	2015	2016	Percent Change	Volume Changes
Carroll Street Bridge	Local	1,238	1,142	- 7.8 %	96
Cropsey Avenue Bridge	Principal Arterial	33,433	35,557	6.4 %	2,124
Hamilton Avenue Bridge	Principal Arterial	55,266	55,584	0.6 %	318
Metropolitan Avenue Bridge	Principal Arterial	38,191	35,687	- 6.6 %	2,504
Mill Basin Bridge	Principal Arterial	141,303	137,226	- 2.9 %	4,077
Ninth Street Bridge	Minor Arterial	11,549	10,441	- 9.6 %	1,108
Stillwell Avenue Bridge	Principal Arterial	8,917	9,353	4.9 %	436
Third Avenue Bridge	Principal Arterial	18,179	17,754	- 2.3 %	425
Third Street Bridge	Minor Arterial	11,160	10,467	- 6.2 %	693
Union Street Bridge	Minor Arterial	4,358	3,910	- 10.3 %	448
Total, 10 Brooklyn Bridges		323,594	317,121	- 2.0 %	6,473
QUEENS BRIDGES					
Borden Avenue Bridge	Minor Arterial	13,615	14,863	9.2 %	1,248
Flushing Bridge	Principal Arterial	53,778	53,025	- 1.4 %	753
Hook Creek Bridge	Principal Arterial	75,001	75,716	1.0 %	715
Hunters Point Bridge	Collector	7,598	8,044	5.9 %	446
Joseph P. Addabbo Bridge *	Principal Arterial	25,025	25,874	3.4 %	849
Little Neck Bridge	Principal Arterial	48,337	47,954	- 0.8 %	383
Midtown Highway Bridge	Interstate	84,989	83,342	- 1.9 %	1,647
Rikers Island Bridge	Collector	13,780	14,817	7.5 %	1,037
Roosevelt Avenue Bridge	Principal Arterial	17,834	15,964	- 10.5 %	1,870
Roosevelt Island Bridge	Collector	8,583	8,393	- 2.2 %	190
Whitestone Expwy Bridge	Interstate	208,962	218,227	4.4 %	9,265
Total, 11 Queens Bridges		557,502	566,219	1.6 %	8,717
STATEN ISLAND					
Fresh Kills Bridge	Principal Arterial	57,538	60,684	5.5 %	3,146
TOLL-FREE GRAND TOTALS		2,661,105	2,664,484	0.1 %	3,379

* Joseph P. Addabbo Bridge also known as North Channel Bridge.

2015-2016 Traffic Volume Trends
N.Y.C. Bridges and Tunnels
Both Directions
Page 3 of 3

MTABT Manhattan Facilities	Highway Functional Classification	2015	2016	Percent Change	Volume Changes
Henry Hudson Bridge	Principal Arterial	62,554	62,648	0.2 %	94
Hugh L. Carey Tunnel *	Interstate	57,299	54,076	- 5.6 %	3,223
Queens-Midtown Tunnel	Interstate	86,217	73,470	- 14.8 %	12,747
R.F.K. Memorial Bridge Manhattan Plaza **	Principal Arterial	91,724	95,552	4.2 %	3,828
Total, 4 MTABT Manhattan Crossings		297,794	285,746	- 4.0 %	12,048

PANYNJ Manhattan Facilities

George Washington Bridge	Interstate	295,120	289,827	- 1.8 %	5,293
Holland Tunnel	Interstate	89,367	89,792	0.5 %	425
Lincoln Tunnel	Principal Arterial	113,783	112,995	- 0.7 %	788
Total, 3 PANYNJ Manhattan - New Jersey Crossings		498,270	492,614	- 1.1 %	5,656

MTABT Outer Borough Bridges

Bronx-Whitestone Bridge	Interstate	109,862	124,337	13.2 %	14,475
Cross Bay Veterans Memorial Bridge	Minor Arterial	23,393	24,150	3.2 %	757
Marine Parkway Gil Hodges Memorial Bridge	Minor Arterial	22,626	21,990	- 2.8 %	636
R.F.K. Memorial Bridge Bronx Plaza **	Interstate	84,220	83,053	- 1.4 %	1,167
Throgs Neck Bridge	Interstate	116,658	119,249	2.2 %	2,591
Verrazano-Narrows Bridge	Interstate	198,123	202,523	2.2 %	4,400
Total, 6 MTABT Outer Borough Bridges		554,882	575,302	3.7 %	20,420

PANYNJ Staten Island Bridges

Bayonne Bridge	Principal Arterial	10,840	9,025	- 16.7 %	1,815
Goethals Bridge	Interstate	78,605	82,852	5.4 %	4,247
Outerbridge Crossing	Principal Arterial	73,773	77,107	4.5 %	3,334
Total, 3 PANYNJ Staten Island - New Jersey Bridges		163,218	168,984	3.5 %	5,766

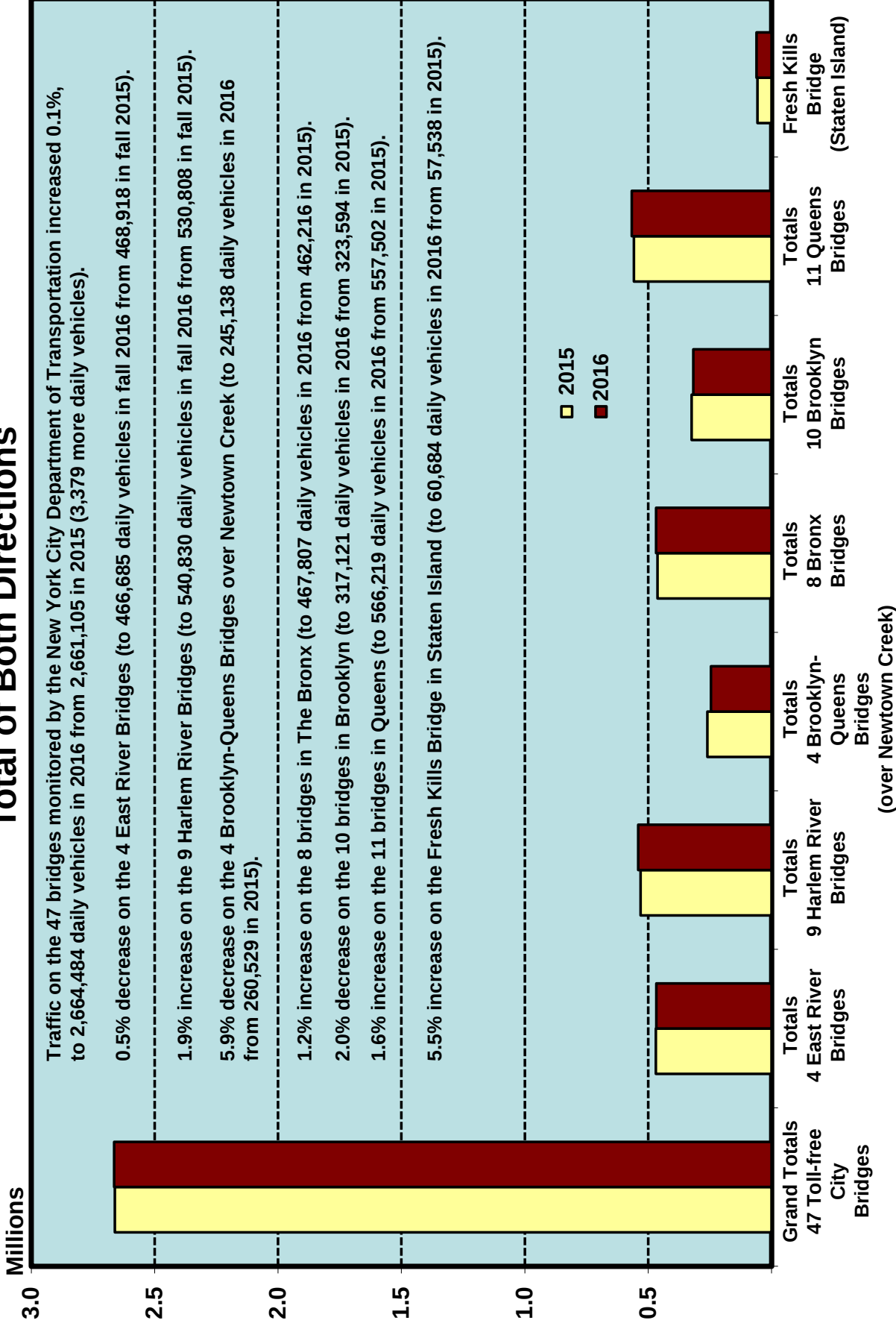
* Formerly Brooklyn-Battery Tunnel, renamed October 22, 2012.

** Formerly Triborough Bridge, renamed November 19, 2008.

New York City Toll-free Bridges Daily Volumes

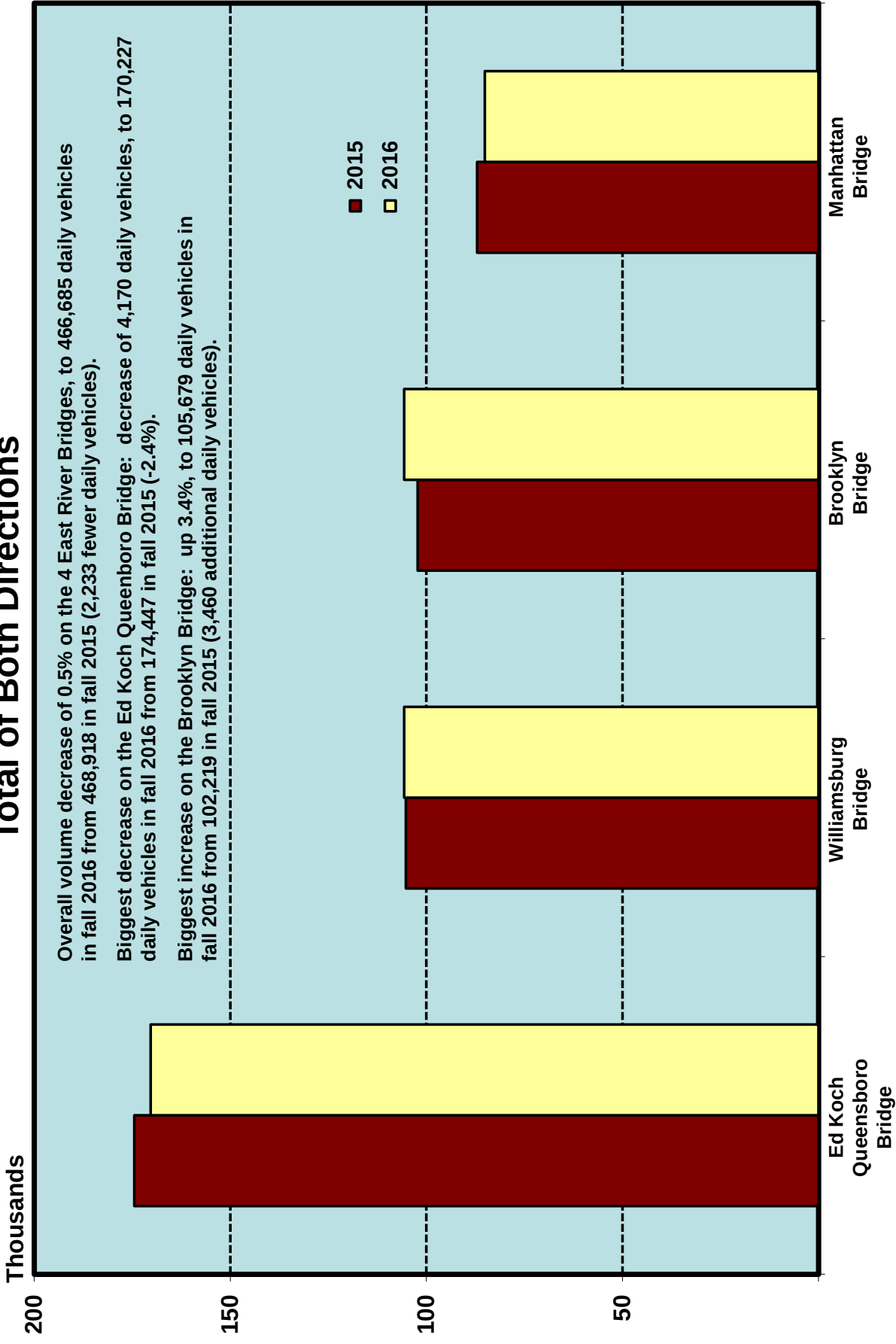
2016 vs. 2015

Total of Both Directions



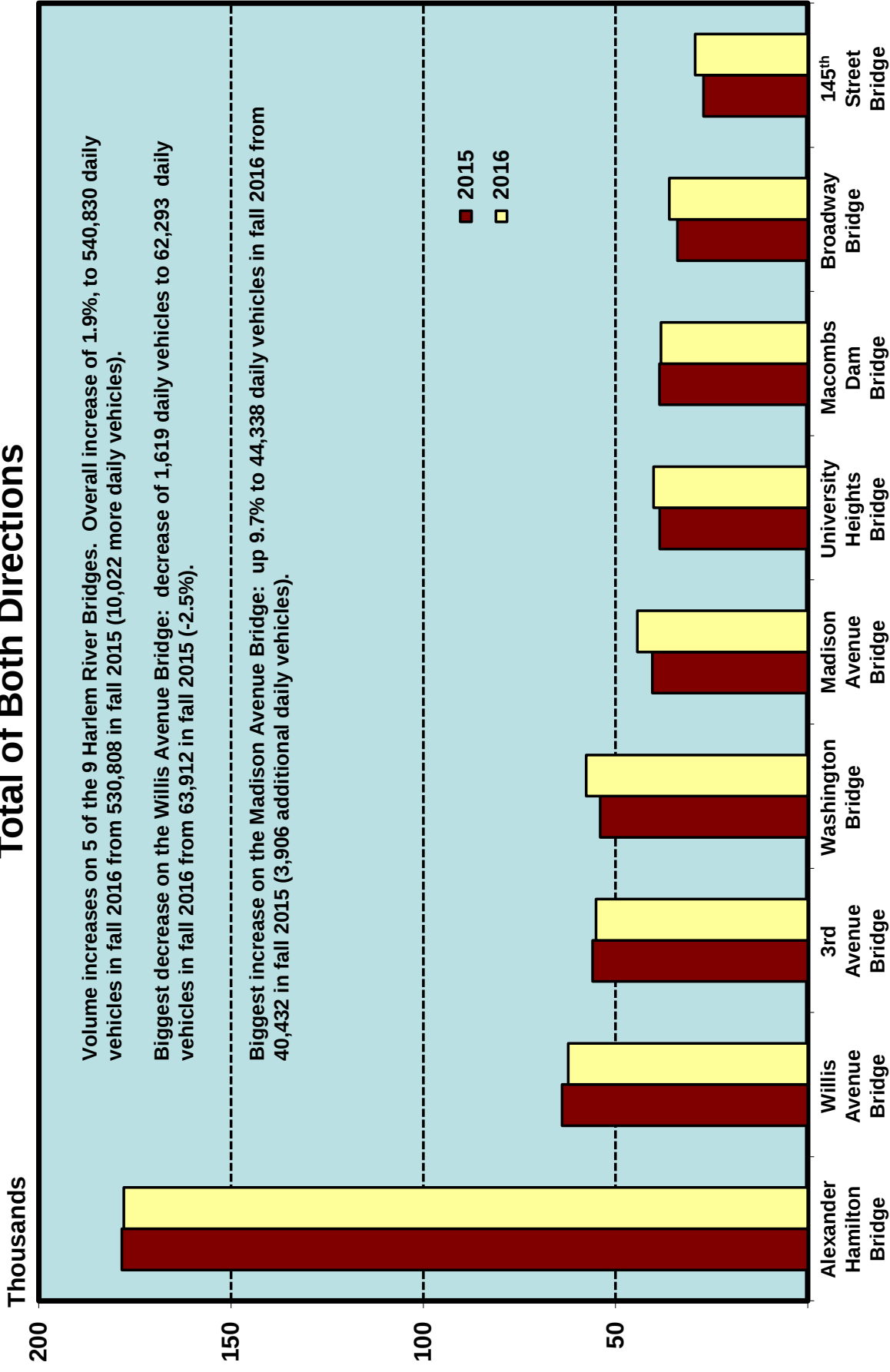
East River Bridges Daily Volumes 2016 vs. 2015

Total of Both Directions



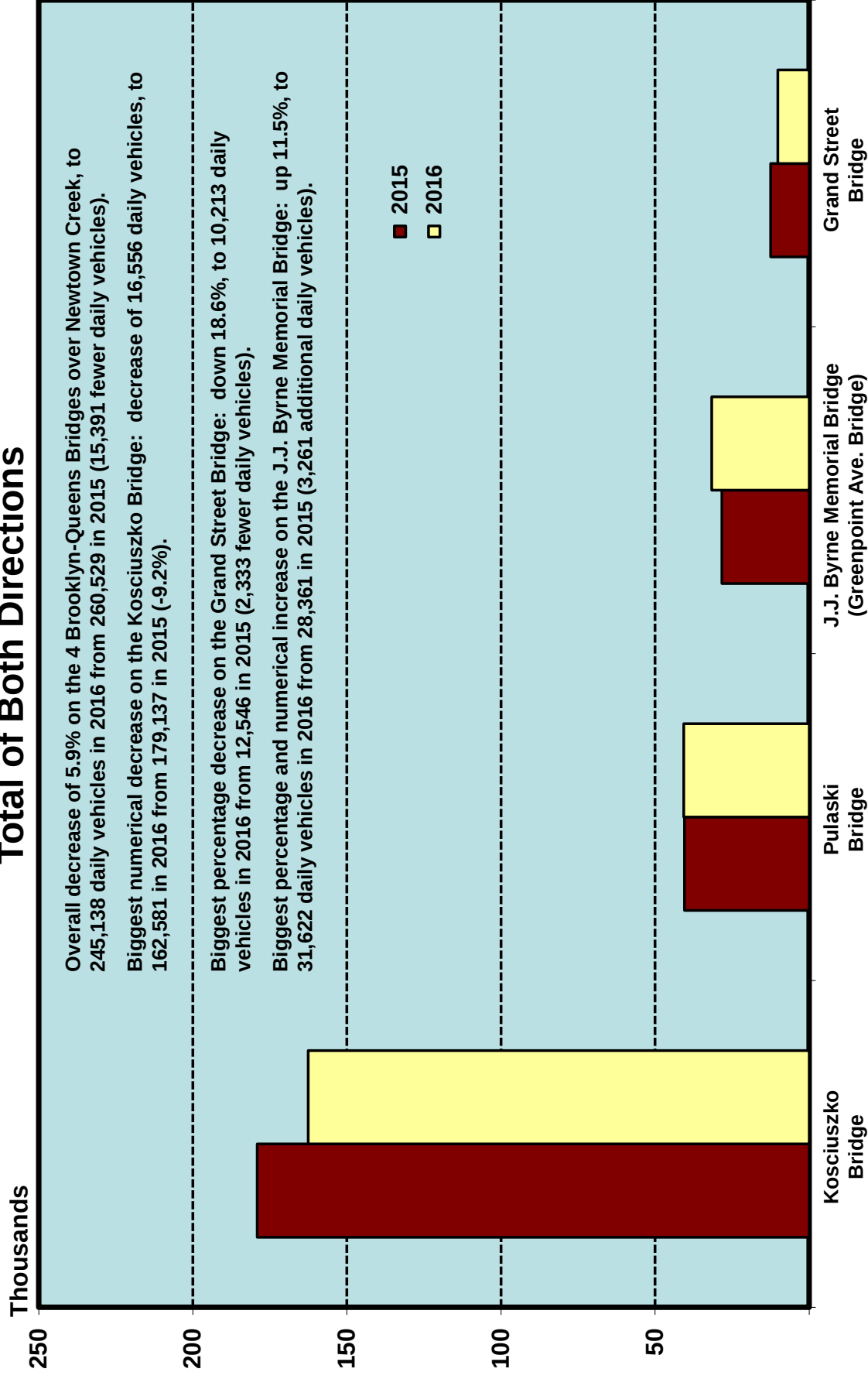
Harlem River Bridges Daily Volumes 2016 vs. 2015

Total of Both Directions



Brooklyn-Queens (Newtown Creek) Bridges Daily Volumes 2016 vs. 2015

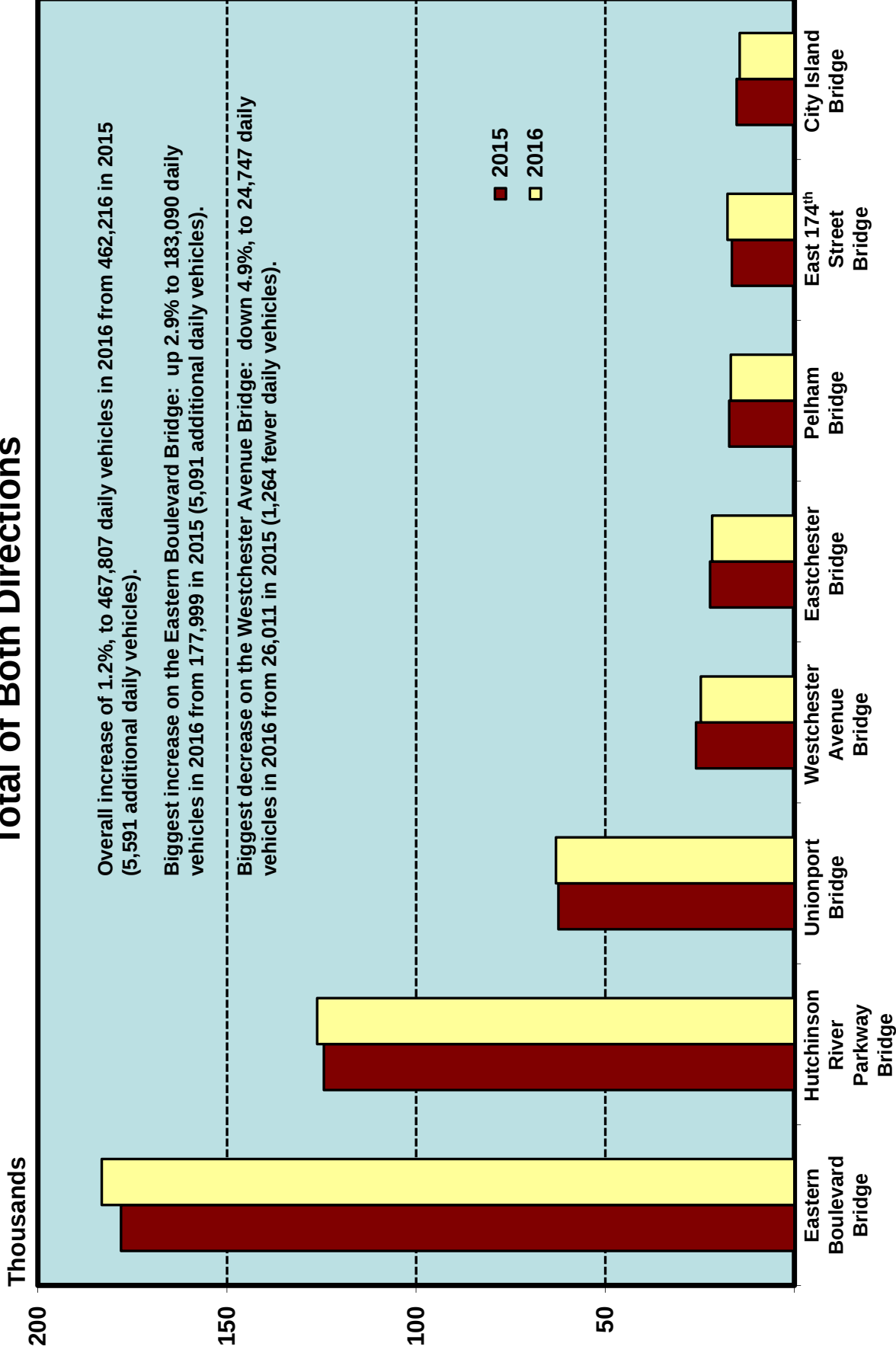
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Bronx Bridges Daily Volumes

2016 vs. 2015

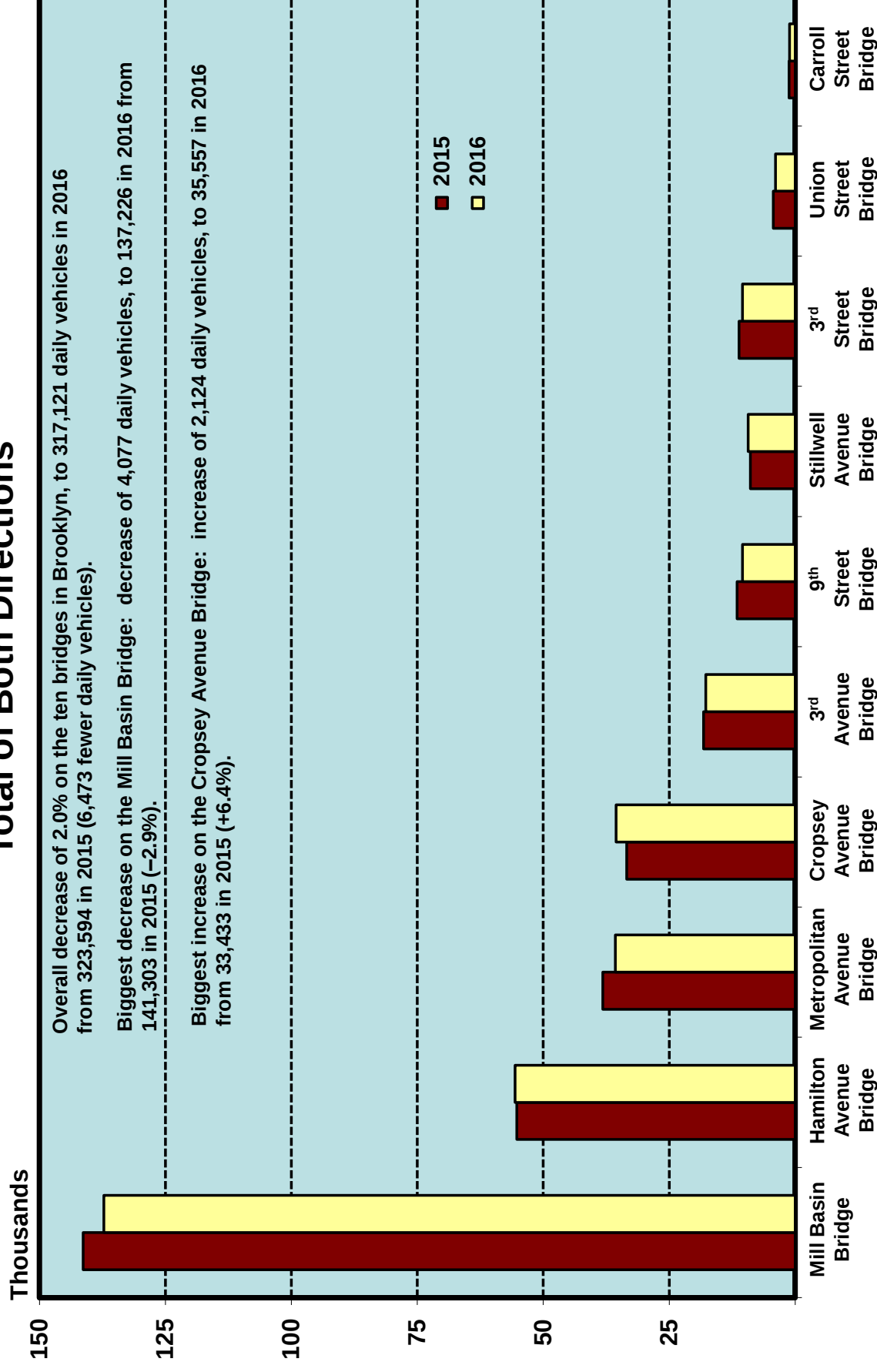
Total of Both Directions



Brooklyn Bridges Daily Volumes

2016 vs. 2015

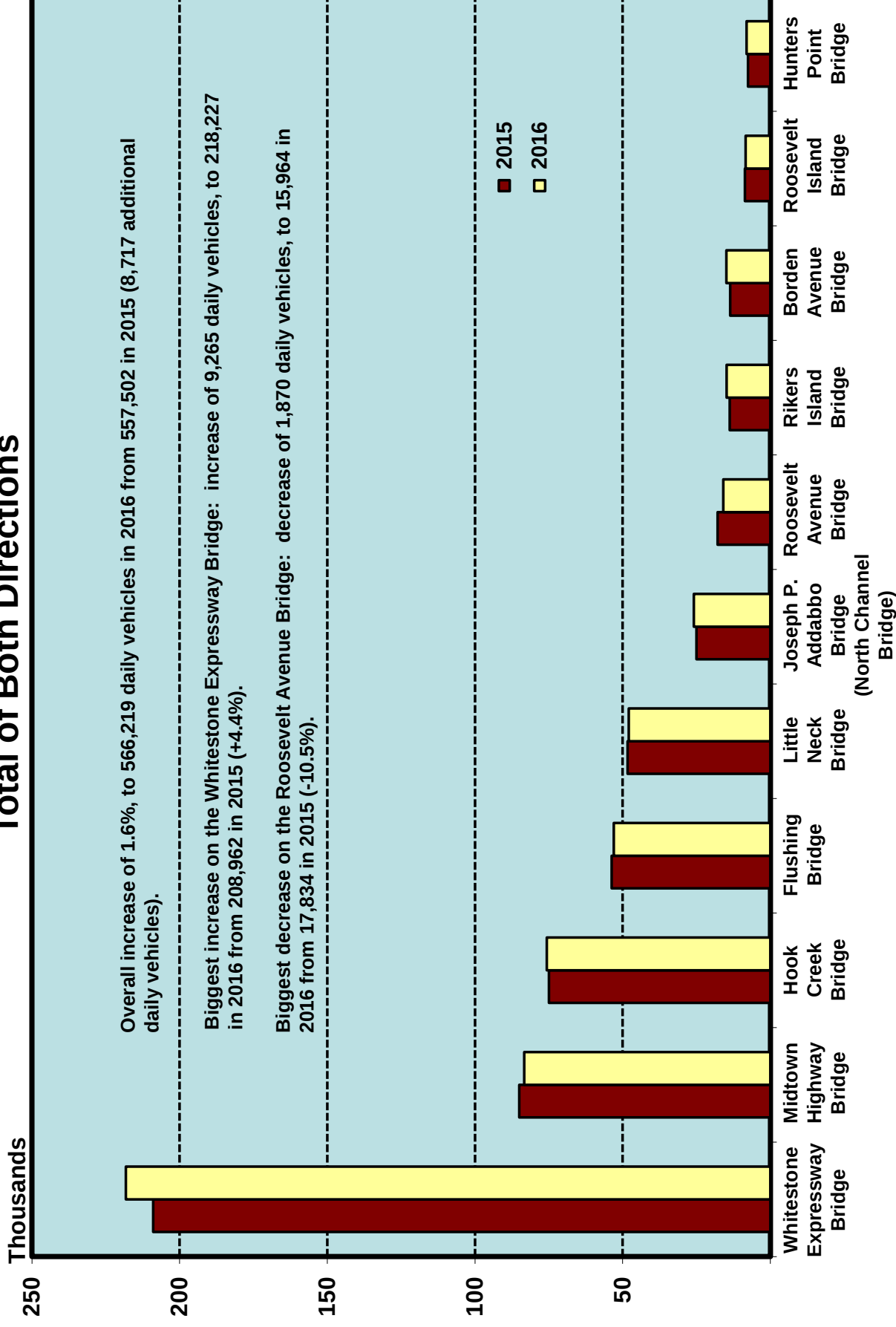
Total of Both Directions



Queens Bridges Daily Volumes

2016 vs. 2015

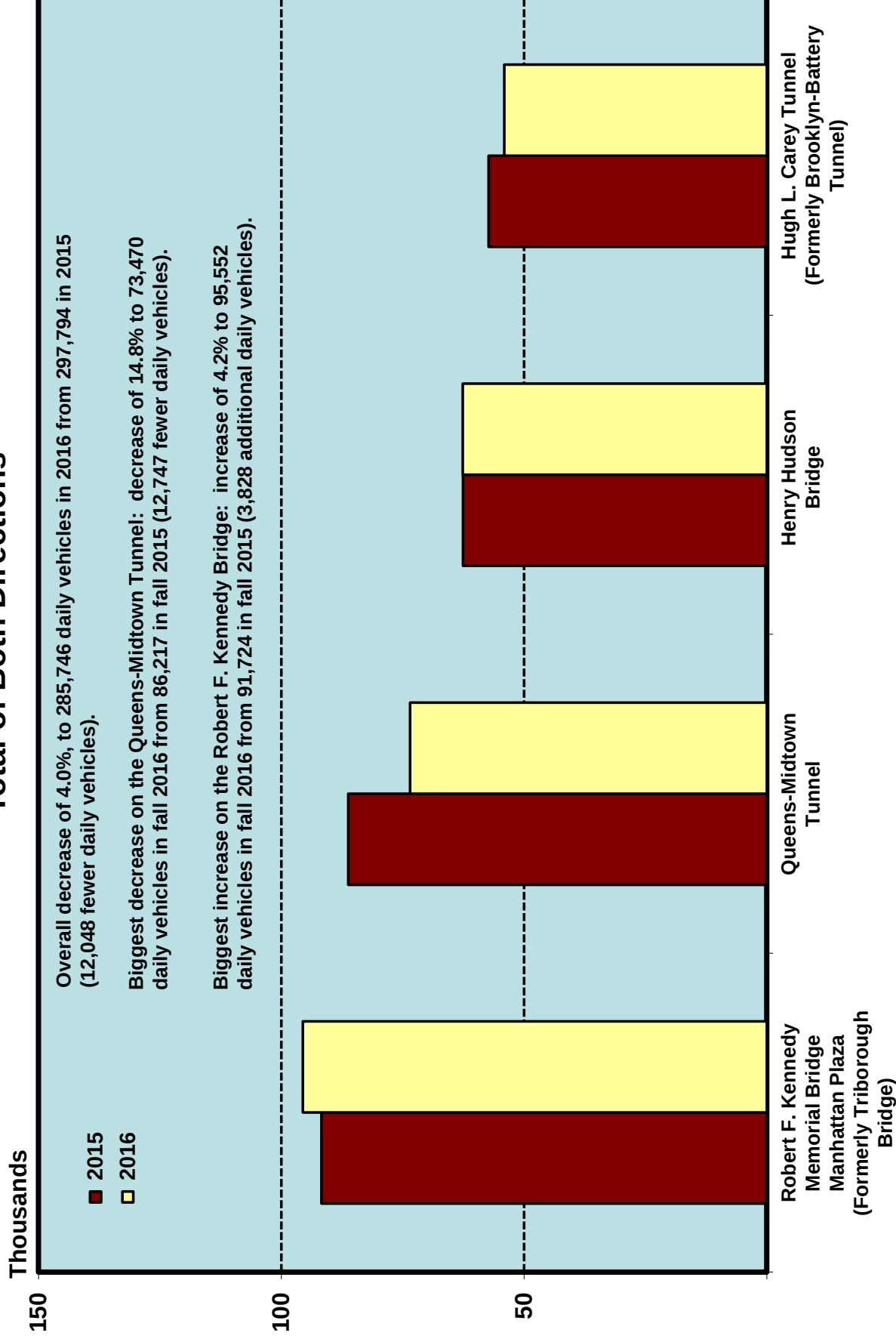
Total of Both Directions



Metropolitan Transportation Authority Bridges & Tunnels (MTABT) Manhattan Facilities Daily Volumes

2016 vs. 2015

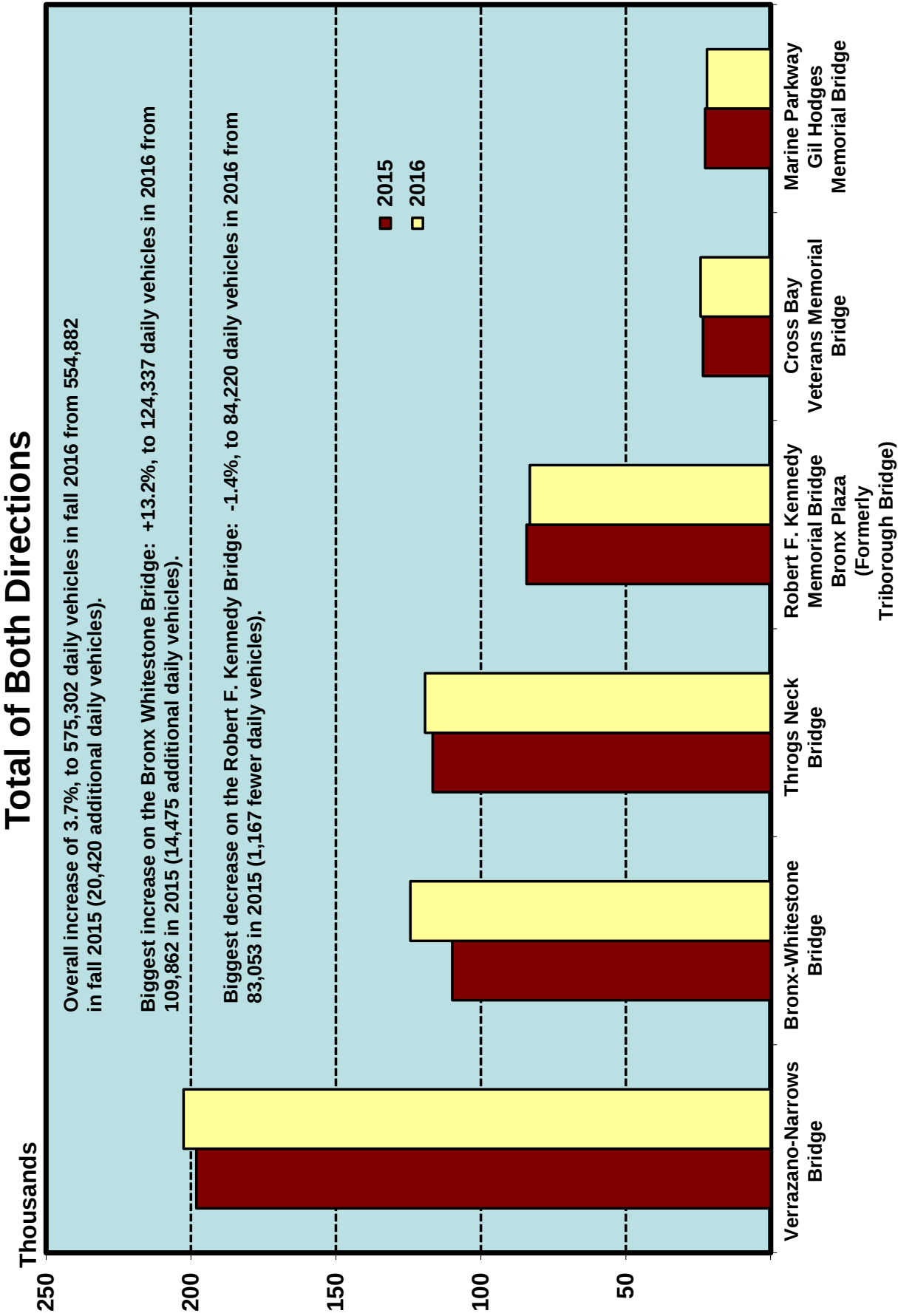
Total of Both Directions



Metropolitan Transportation Authority Bridges & Tunnels (MTABT)

Outer Borough Bridges Daily Volumes

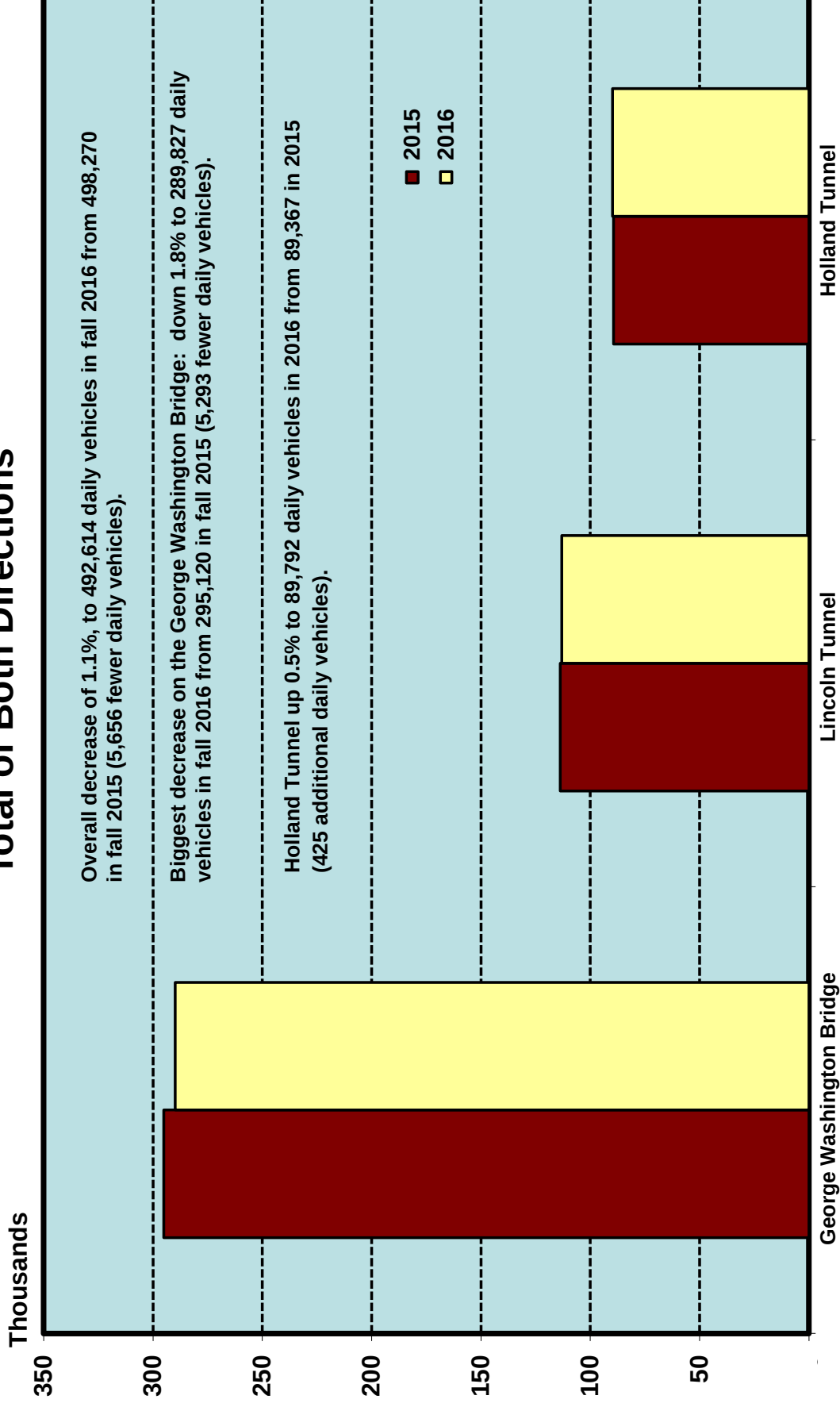
2016 vs. 2015



Port Authority of New York & New Jersey (PANYNJ) Manhattan – N.J. Facilities Daily Volumes

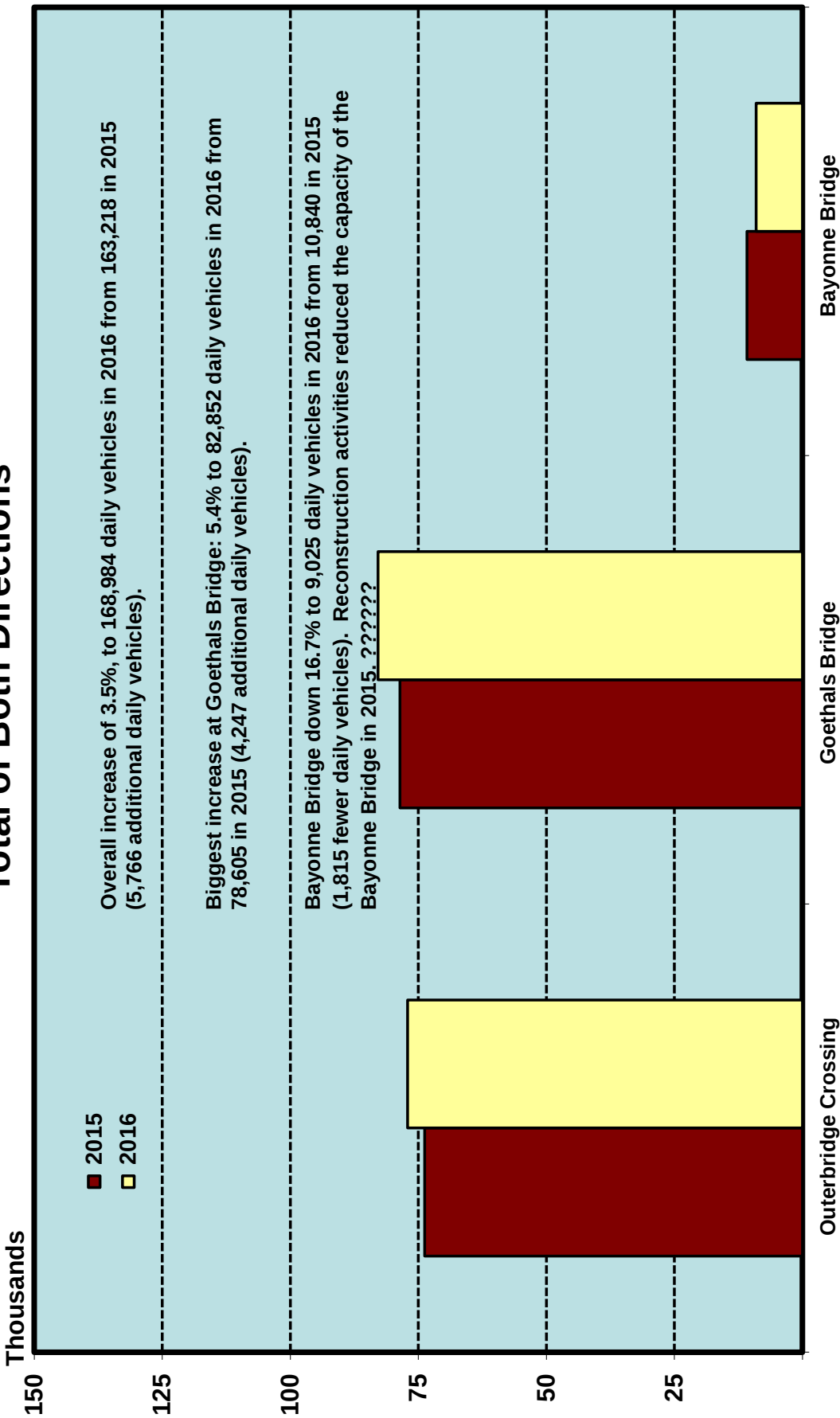
2016 vs. 2015

Total of Both Directions



Port Authority of New York & New Jersey (PANYNJ) Staten Island – N.J. Bridges Daily Volumes 2016 vs. 2015

Total of Both Directions



Ten-Year Trends 2006 - 2016



Madison Avenue Bridge

Ten-Year Trends: 2006 - 2016

From 2006 to 2016, total traffic on the 47 bridges monitored by the New York City Department of Transportation decreased 2.0%, to 2,664,484 daily vehicles in 2016 from 2,719,454 in 2006 (54,970 fewer daily vehicles).

East River Bridges

- Total traffic on the four East River Bridges decreased 5.6%, to 466,685 daily vehicles in 2016 from 494,576 in 2006 (27,891 fewer daily vehicles).
- Biggest percentage and numerical decrease on the Brooklyn Bridge: -16.7%, to 105,679 daily vehicles in fall 2016 from 126,805 in fall 2006 (21,126 fewer daily vehicles).
- Biggest percentage and numerical increase on the Manhattan Bridge: +14.0%, to 85,084 daily vehicles in fall 2016 from 74,621 in fall 2006 (10,463 additional daily vehicles).

Harlem River Bridges

- Total traffic on the nine Harlem River Bridges decreased 2.9%, to 540,830 daily vehicles in fall 2016 from 557,043 in fall 2006 (16,213 fewer daily vehicles).
- Biggest decrease on Alexander Hamilton Bridge: to decrease of 12,330 daily vehicles, to 177,853 daily vehicles in fall 2016 from 190,183 in fall 2006 (+6.5%).
- Biggest percentage and numerical increase on the 145th Street Bridge: +34.9%, to 29,315 daily vehicles in fall 2016 from 21,733 in fall 2006 (7,582 additional daily vehicles).

Brooklyn-Queens Bridges

- Total traffic on the four bridges over Newtown Creek between Brooklyn and Queens decreased 7.6%, to 245,138 daily vehicles in 2016 from 265,298 in 2006 (20,160 fewer daily vehicles).
- Biggest decrease on the Kosciuszko Bridge: -11.8%, to 162,581 daily vehicles in 2016 from 184,341 in 2006 (21,760 fewer daily vehicles).
- Biggest increase on the Pulaski Bridge: 6.5%, to 40,722 daily vehicles in 2016 from 38,224 in 2006 (2,498 additional daily vehicles).

Bronx Bridges

- Total traffic on the eight bridges in The Bronx increased 2.6%, to 467,807 daily vehicles in 2016 from 456,001 in 2006 (11,806 additional daily vehicles).
- Biggest increase on the Hutchinson River Parkway Bridge: Increase of 5,572 daily vehicles, to 126,171 in 2016 from 120,599 in 2006 (+4.6%).
- Biggest decrease on the City Island Bridge: decrease of 866 daily vehicles, to 14,473 in 2016 from 15,339 in 2006 (-5.6%).

Brooklyn Bridges

- Total traffic on the ten bridges in Brooklyn decreased -3.5%, to 317,121 daily vehicles in 2016 from 328,620 in 2006 (11,499 fewer daily vehicles).
- Biggest decrease on the Mill Basin Bridge: decrease of 6,691 daily vehicles, to 137,226 in 2016 from 143,917 in 2006 (-4.6%).
- Biggest increase on the Third Street Bridge: increase of 980 daily vehicles, to 10,467 in 2016 from 9,487 in 2006 (+10.3%).

Queens Bridges

- Total traffic on the eleven bridges in Queens increased 2.5%, to 566,219 daily vehicles in 2016 from 552,642 in 2006 (13,577 fewer daily vehicles).
- Biggest decrease on the Flushing Bridge: decrease of 8,118 daily vehicles, to 53,025 in 2016 from 61,143 in 2006 (-13.3%).
- Biggest increase on the Whitestone Expressway Bridge: increase of 21,143 daily vehicles, to 218,227 in 2016 from 197,084 in 2006 (+10.7%).

Staten Island

- Total traffic on the Fresh Kills Bridge decreased -7.0%, to 60,684 daily vehicles in 2016 from 65,274 in 2006 (4,590 fewer daily vehicles).

MTABT Facilities

- Henry Hudson Bridge traffic decreased -12.7% to 62,648 daily vehicles in fall 2016 from 71,761 in fall 2006 (9,113 fewer daily vehicles).
- Traffic using the Bronx-Whitestone Bridge increased 12.3% to 124,337 daily vehicles in fall 2016 from 110,708 in fall 2006 (13,629 additional daily vehicles).
- The Queens Midtown Tunnel between Queens and Manhattan decreased -18.3% to 73,470 daily vehicles in 2016 from 89,972 in 2006 (16,502 additional daily vehicles).

PANYNJ Facilities

- Lincoln Tunnel traffic decreased 11.2% to 112,995 daily vehicles in fall 2016 from 127,245 in fall 2006 (14,250 fewer daily vehicles).
- Bayonne Bridge traffic decreased 62.8% to 9,025 daily vehicles in fall 2016 from 24,230 in fall 2006 (15,205 fewer daily vehicles).
- Goethals Bridge traffic increased 26.7% to 82,852 daily vehicles in fall 2016 from 65,378 in fall 2006 (17,474 additional daily vehicles).
- Outerbridge Crossing traffic decreased 10.7% to 77,107 daily vehicles from 86,306 (9,199 fewer daily vehicles).

10-Year Traffic Volume Trends ~ 2006-2016

N.Y.C. Bridges and Tunnels

Both Directions

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EAST RIVER BRIDGES	Highway Functional Classification	2006	2016	Percent Change	Volume Changes
Brooklyn Bridge	Principal Arterial	126,805	105,679	- 16.7 %	- 21,126
Ed Koch Queensboro Bridge *	Principal Arterial	186,110	170,277	- 8.5 %	- 15,833
Manhattan Bridge	Principal Arterial	74,621	85,084	14.0 %	10,463
Williamsburg Bridge	Principal Arterial	107,040	105,645	- 1.3 %	- 1,395
Total, 4 East River Bridges		494,576	466,685	- 5.6 %	- 27,891
HARLEM RIVER BRIDGES					
Alexander Hamilton Bridge	Interstate	190,183	177,853	- 6.5 %	- 12,330
Broadway Bridge	Principal Arterial	33,551	36,027	7.4 %	2,476
Macombs Dam Bridge	Principal Arterial	39,878	38,183	- 4.3 %	- 1,695
Madison Avenue Bridge	Principal Arterial	43,805	44,338	1.2 %	533
Third Avenue Bridge	Principal Arterial	61,874	55,096	- 11.0 %	- 6,778
University Heights Bridge	Principal Arterial	42,118	40,078	- 4.8 %	- 2,040
Washington Bridge	Minor Arterial	57,689	57,647	- 0.1 %	- 42
Willis Avenue Bridge	Principal Arterial	66,212	62,293	- 5.9 %	- 3,919
145th Street Bridge	Minor Arterial	21,733	29,315	34.9 %	7,582
Total, 9 Harlem River Bridges		557,043	540,830	- 2.9 %	- 16,213
BROOKLYN-QUEENS BRIDGES					
Grand Street Bridge	Principal Arterial	12,893	10,213	- 20.8 %	- 2,680
J.J. Byrne Memorial Bridge **	Principal Arterial	29,840	31,622	6.0 %	1,782
Kosciuszko Bridge	Interstate	184,341	162,581	- 11.8 %	- 21,760
Pulaski Bridge	Principal Arterial	38,224	40,722	6.5 %	2,498
Total, 4 Brooklyn-Queens Bridges (Over Newtown Creek)		265,298	245,138	- 7.6 %	- 20,160
BRONX BRIDGES					
City Island Bridge	Minor Arterial	15,339	14,473	- 5.6 %	- 866
East 174th Street Bridge	Minor Arterial	13,662	17,701	29.6 %	4,039
Eastchester Bridge	Principal Arterial	20,890	21,761	4.2 %	871
Eastern Boulevard Bridge	Interstate	182,579	183,090	0.3 %	511
Hutchinson River Parkway Bridge	Principal Arterial	120,599	126,171	4.6 %	5,572
Pelham Bridge	Minor Arterial	16,749	16,840	0.5 %	91
Unionport Bridge	Principal Arterial	61,262	63,024	2.9 %	1,762
Westchester Avenue Bridge	Principal Arterial	24,921	24,747	- 0.7 %	- 174
Total, 8 Bronx Bridges		456,001	467,807	2.6 %	11,806

* Queensboro Bridge renamed April 11, 2011.

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

10-Year Traffic Volume Trends ~ 2006-2016

N.Y.C. Bridges and Tunnels

Both Directions

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BROOKLYN BRIDGES	Highway Functional Classification	2006	2016	Percent Change	Volume Changes
Carroll Street Bridge	Local	1,068	1,142	6.9 %	74
Cropsey Avenue Bridge	Principal Arterial	35,398	35,557	0.4 %	159
Hamilton Avenue Bridge	Principal Arterial	55,526	55,584	0.1 %	58
Metropolitan Avenue Bridge	Principal Arterial	38,130	35,687	- 6.4 %	- 2,443
Mill Basin Bridge	Principal Arterial	143,917	137,226	- 4.6 %	- 6,691
Ninth Street Bridge	Minor Arterial	11,143	10,441	- 6.3 %	- 702
Stillwell Avenue Bridge	Principal Arterial	11,158	9,353	- 16.2 %	- 1,805
Third Avenue Bridge	Principal Arterial	18,403	17,754	- 3.5 %	- 649
Third Street Bridge	Minor Arterial	9,487	10,467	10.3 %	980
Union Street Bridge	Minor Arterial	4,390	3,910	- 10.9 %	- 480
Total, 10 Brooklyn Bridges		328,620	317,121	- 3.5 %	- 11,499
QUEENS BRIDGES					
Borden Avenue Bridge	Minor Arterial	16,157	14,863	- 8.0 %	- 1,294
Flushing Bridge	Principal Arterial	61,143	53,025	- 13.3 %	- 8,118
Hook Creek Bridge	Principal Arterial	73,767	75,716	2.6 %	1,949
Hunters Point Bridge	Collector	7,262	8,044	10.8 %	782
Joseph P. Addabbo Bridge *	Principal Arterial	23,254	25,874	11.3 %	2,620
Little Neck Bridge	Principal Arterial	48,345	47,954	- 0.8 %	- 391
Midtown Highway Bridge	Interstate	83,379	83,342	- 0.0 %	- 37
Rikers Island Bridge	Collector	13,146	14,817	12.7 %	1,671
Roosevelt Avenue Bridge	Principal Arterial	19,420	15,964	- 17.8 %	- 3,456
Roosevelt Island Bridge	Collector	9,685	8,393	- 13.3 %	- 1,292
Whitestone Expwy Bridge	Interstate	197,084	218,227	10.7 %	21,143
Total, 11 Queens Bridges		552,642	566,219	2.5 %	13,577
STATEN ISLAND					
Fresh Kills Bridge	Principal Arterial	65,274	60,684	- 7.0 %	- 4,590
TOLL-FREE GRAND TOTALS		2,719,454	2,664,484	- 2.0 %	- 54,970

* Joseph P. Addabbo Bridge also known as North Channel Bridge.

10-Year Traffic Volume Trends ~ 2006-2016

N.Y.C. Bridges and Tunnels

Both Directions

Page 3 of 3

<i>MTABT Manhattan Facilities</i>	Highway Functional Classification	2006	2016	Percent Change	Volume Changes
Henry Hudson Bridge	Principal Arterial	71,761	62,648	- 12.7 %	- 9,113
Hugh L. Carey Tunnel *	Interstate	57,436	54,076	- 5.8 %	- 3,360
Queens-Midtown Tunnel	Interstate	89,972	73,470	- 18.3 %	- 16,502
R.F.K. Memorial Bridge Manhattan Plaza **	Principal Arterial	98,582	95,552	- 3.1 %	- 3,030
Total, 4 MTABT Manhattan Crossings		317,751	285,746	- 10.1 %	- 32,005

PANYNJ Manhattan Facilities

George Washington Bridge	Interstate	312,078	289,827	- 7.1 %	- 22,251
Holland Tunnel	Interstate	98,425	89,792	- 8.8 %	- 8,633
Lincoln Tunnel	Principal Arterial	127,245	112,995	- 11.2 %	- 14,250
Total, 3 PANYNJ Manhattan - New Jersey Crossings		537,748	492,614	- 8.4 %	- 45,134

MTABT Outer Borough Bridges

Bronx-Whitestone Bridge	Interstate	110,708	124,337	12.3 %	13,629
Cross Bay Veterans Memorial Bridge	Minor Arterial	22,036	24,150	9.6 %	2,114
Marine Parkway Gil Hodges Memorial Bridge	Minor Arterial	22,363	21,990	- 1.7 %	- 373
R.F.K. Memorial Bridge Bronx Plaza **	Interstate	81,840	83,053	1.5 %	1,213
Throgs Neck Bridge	Interstate	116,427	119,249	2.4 %	2,822
Verrazano-Narrows Bridge	Interstate	207,353	202,523	- 2.3 %	- 4,830
Total, 6 MTABT Outer Borough Bridges		560,727	575,302	2.6 %	14,575

PANYNJ Staten Island Bridges

Bayonne Bridge	Principal Arterial	24,230	9,025	- 62.8 %	- 15,205
Goethals Bridge	Interstate	65,378	82,852	26.7 %	17,474
Outerbridge Crossing	Principal Arterial	86,306	77,107	- 10.7 %	- 9,199
Total, 3 PANYNJ Staten Island - New Jersey Bridges		175,914	168,984	- 3.9 %	- 6,930

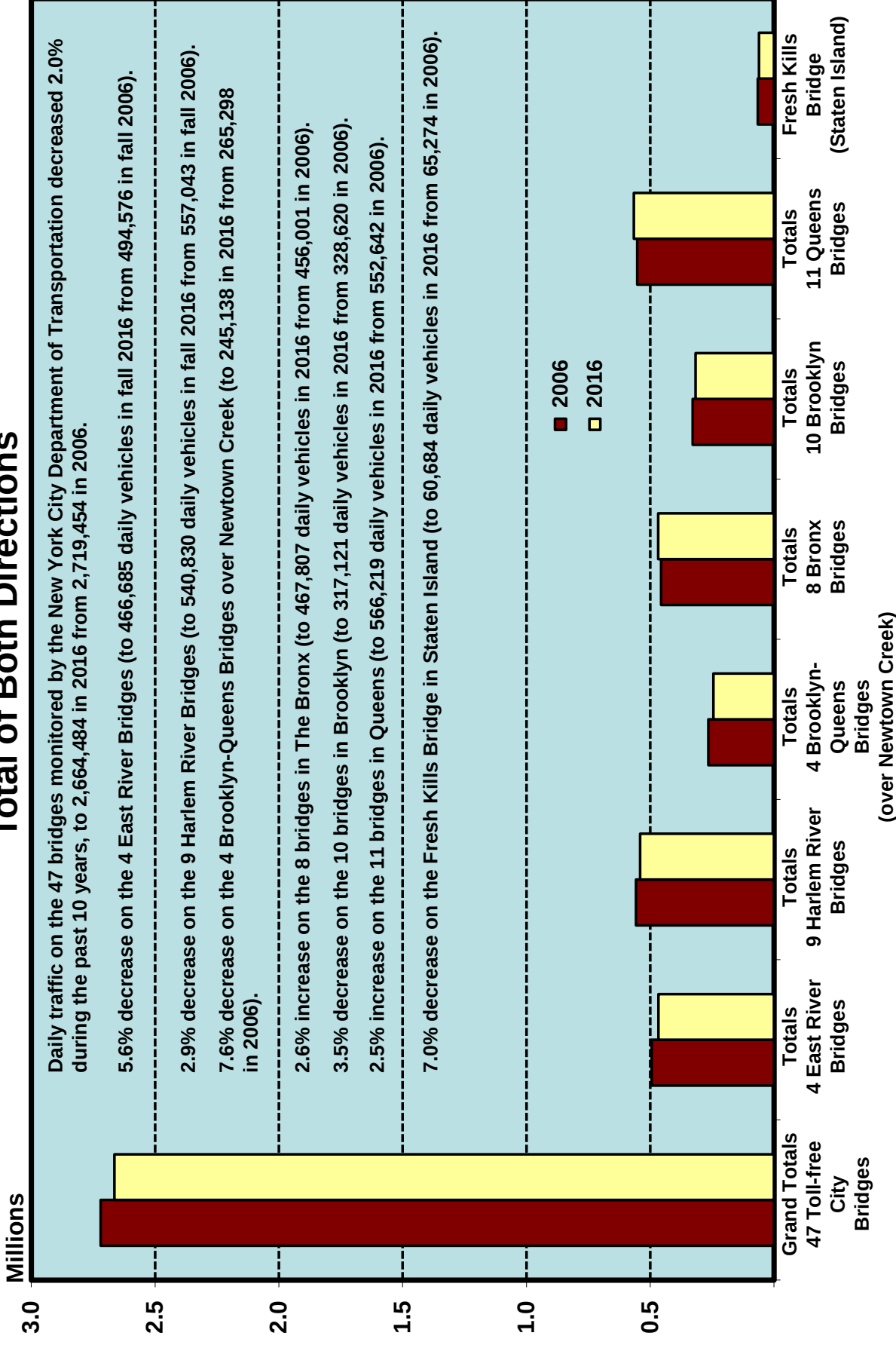
* Formerly Brooklyn-Battery Tunnel, renamed October 22, 2012.

** Formerly Triborough Bridge, renamed November 19, 2008.

10-Year Volume Changes ~ 2006 – 2016

New York City Toll-free Bridges Daily Volumes

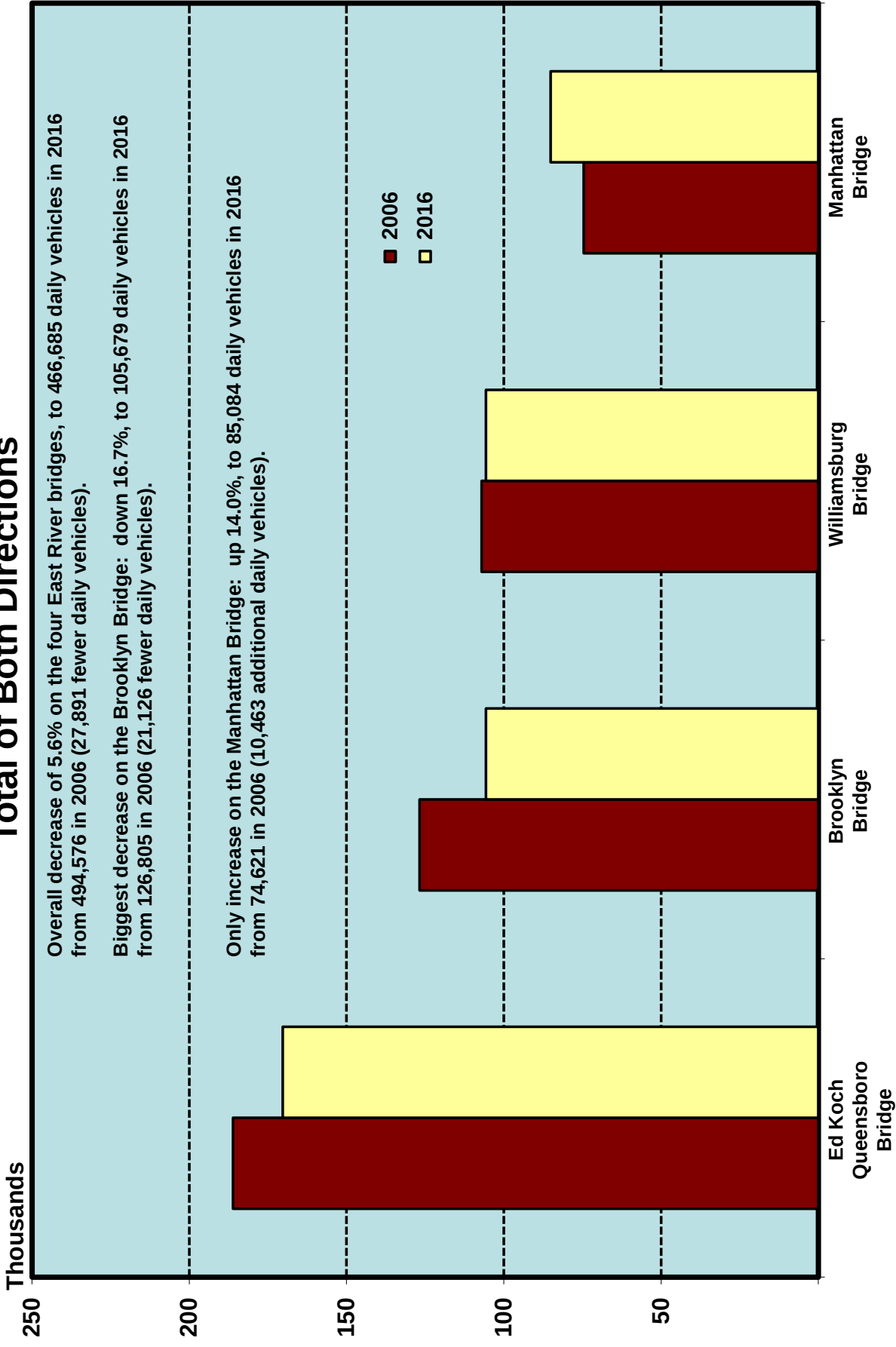
Total of Both Directions



10-Year Volume Changes ~ 2006 – 2016

East River Bridges Daily Volumes

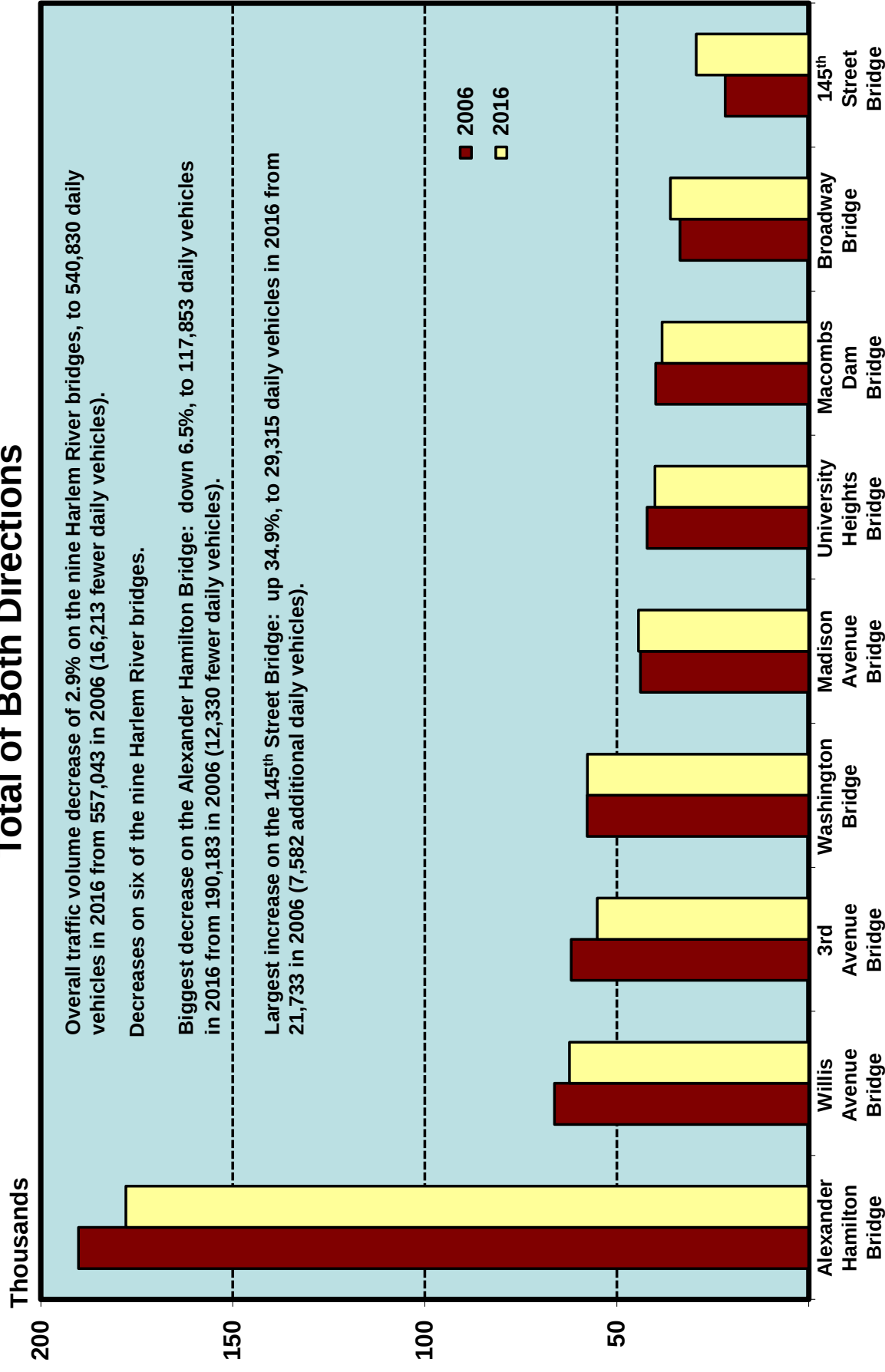
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10-Year Volume Changes ~ 2006 – 2016

Harlem River Bridges Daily Volumes

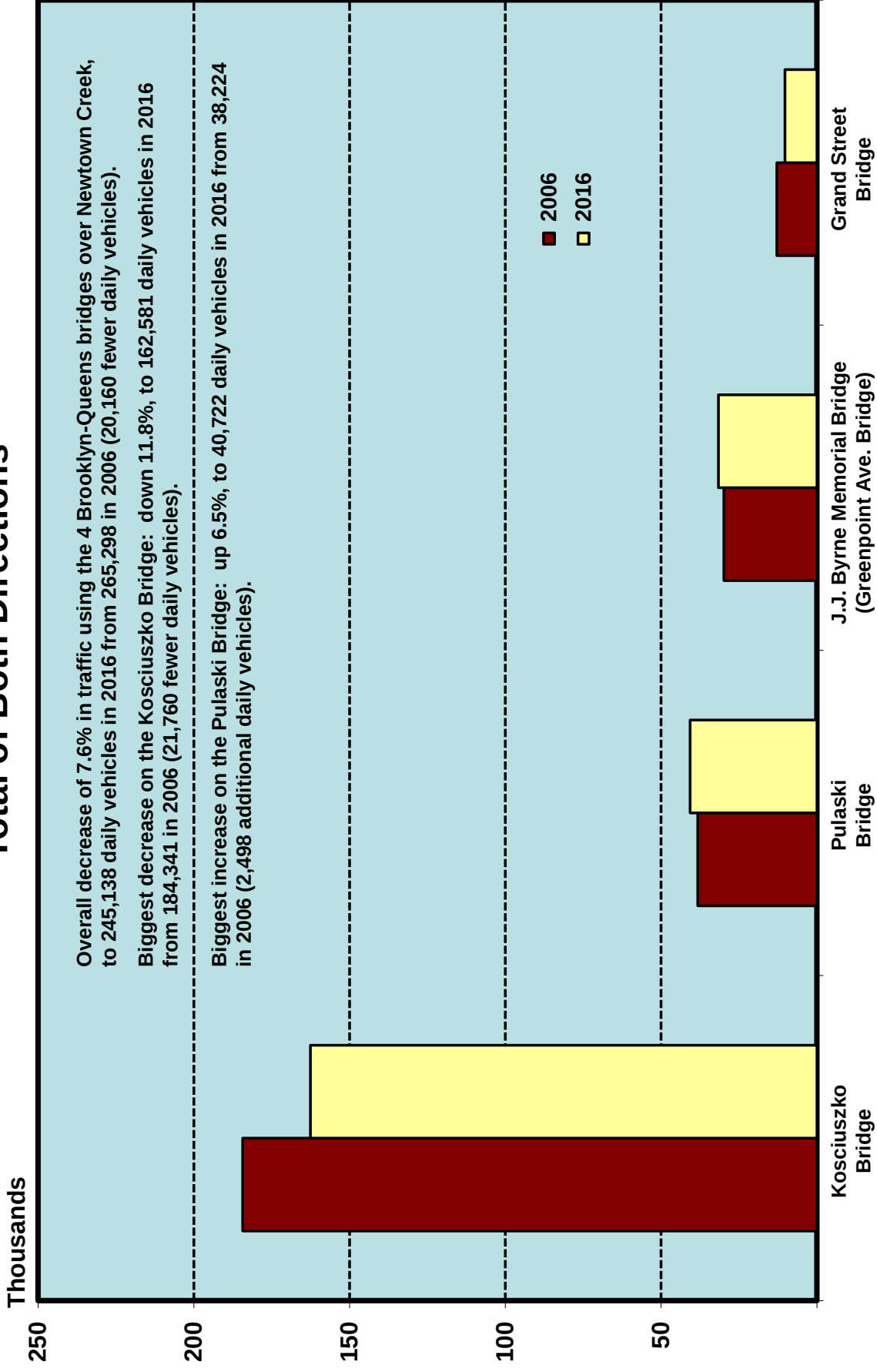
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10-Year Volume Changes ~ 2006 – 2016

Brooklyn-Queens (Newtown Creek) Bridges Daily Volumes

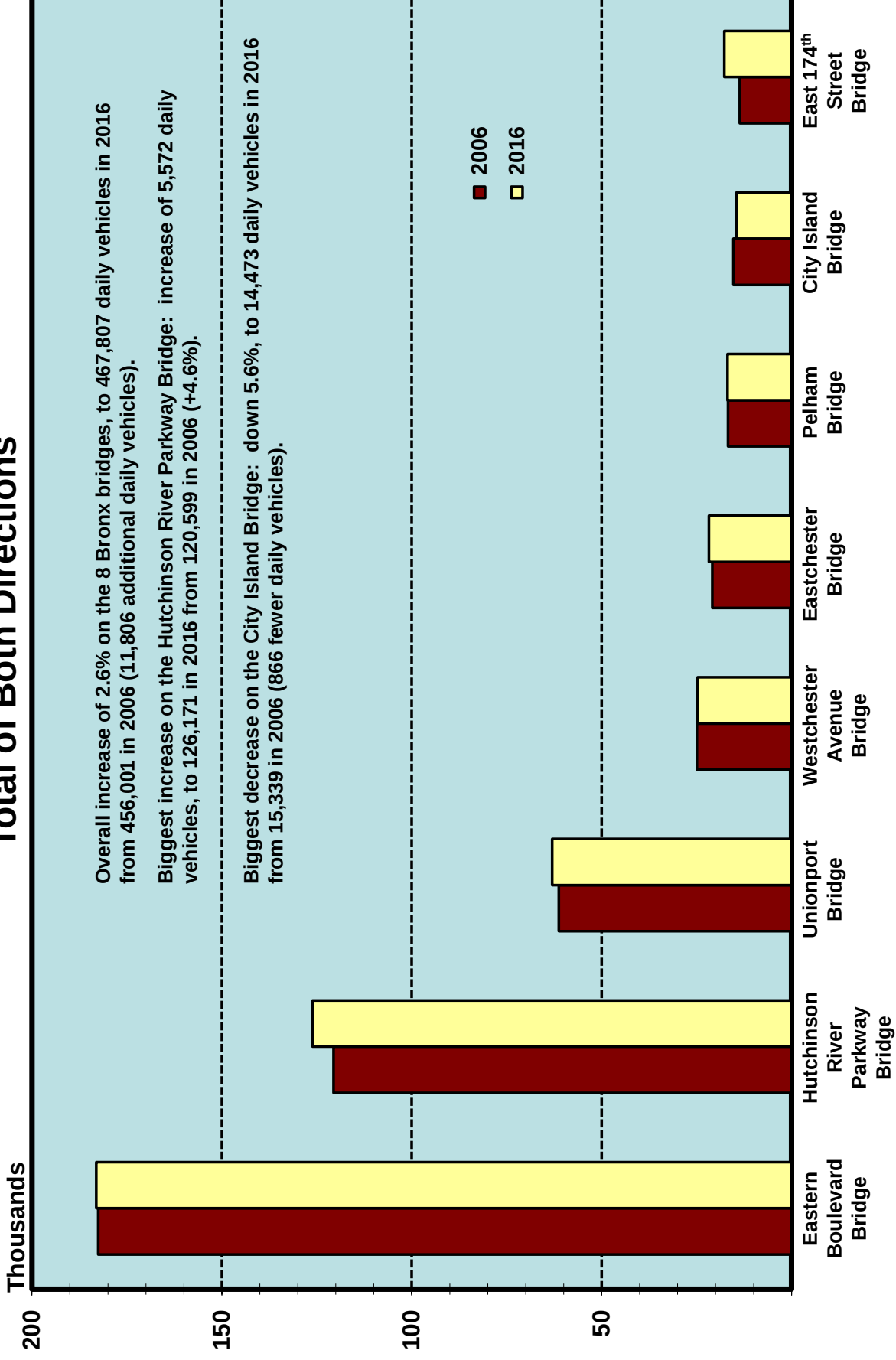
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10-Year Volume Changes ~ 2006 – 2016

Bronx Bridges Daily Volumes

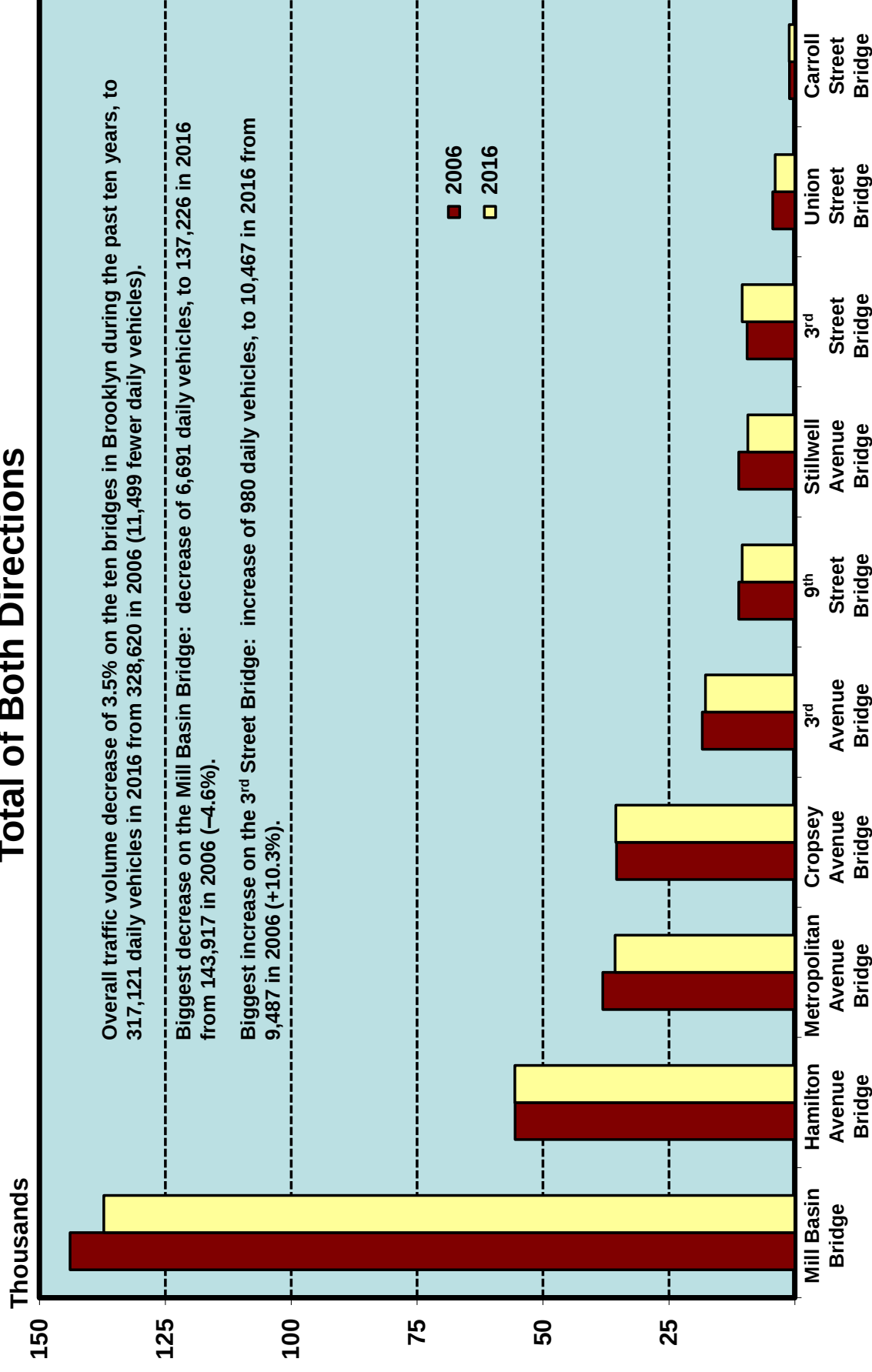
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10-Year Volume Changes ~ 2006 – 2016

Brooklyn Bridges Daily Volumes

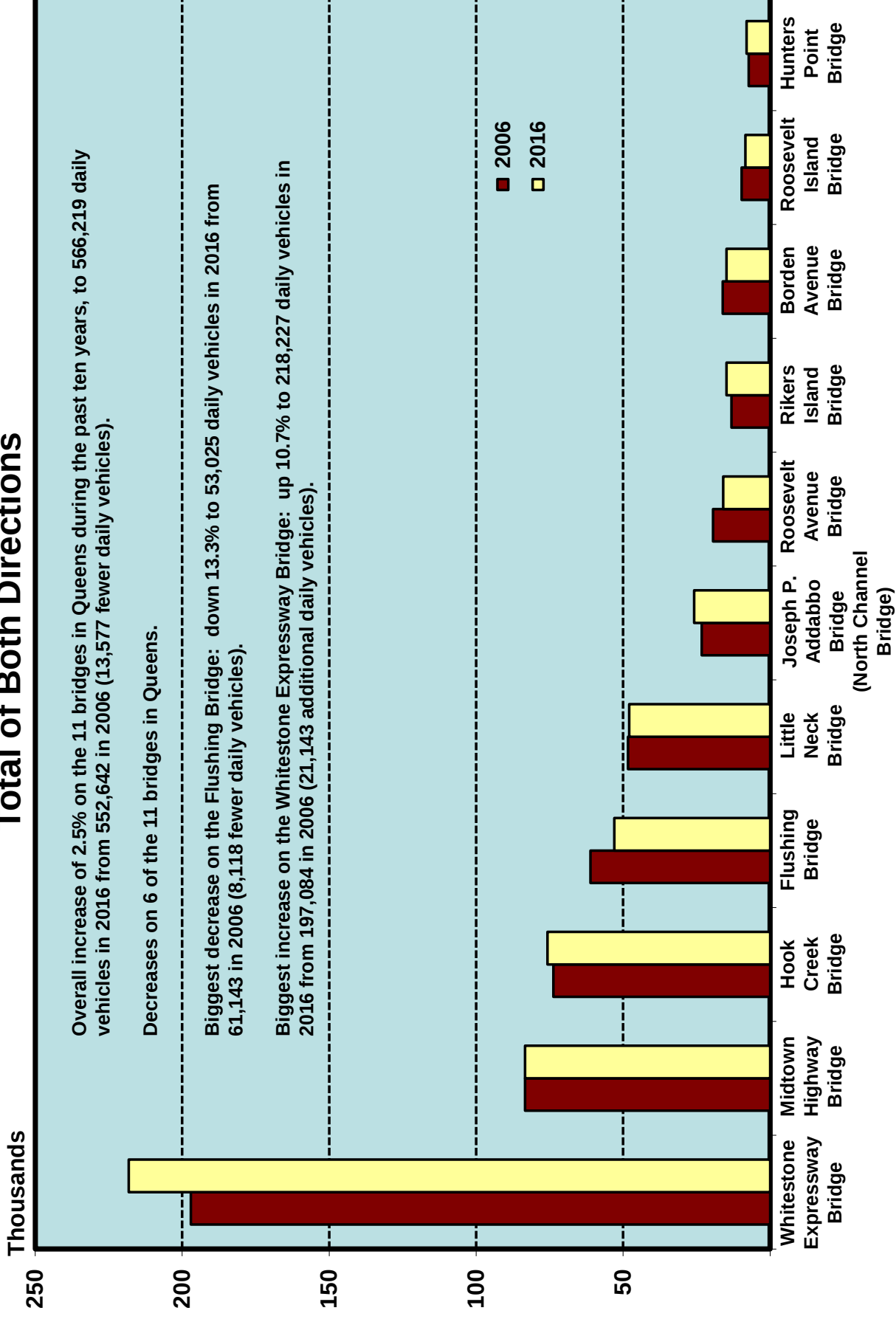
Total of Both Directions



10-Year Volume Changes ~ 2006 – 2016

Queens Bridges Daily Volumes

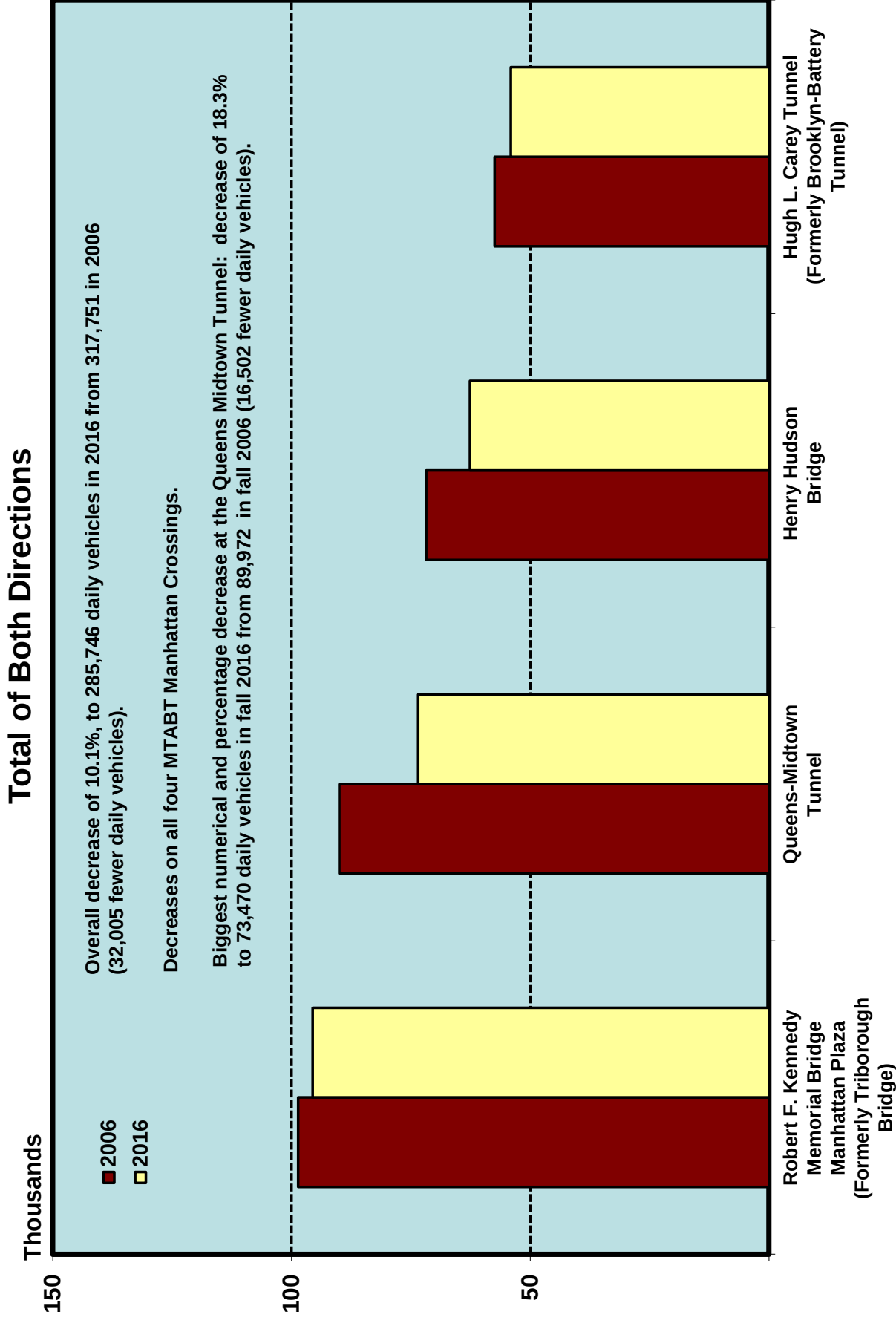
Total of Both Directions



10-Year Volume Changes ~ 2006 – 2016

Metropolitan Transportation Authority Bridges & Tunnels (MTABT)

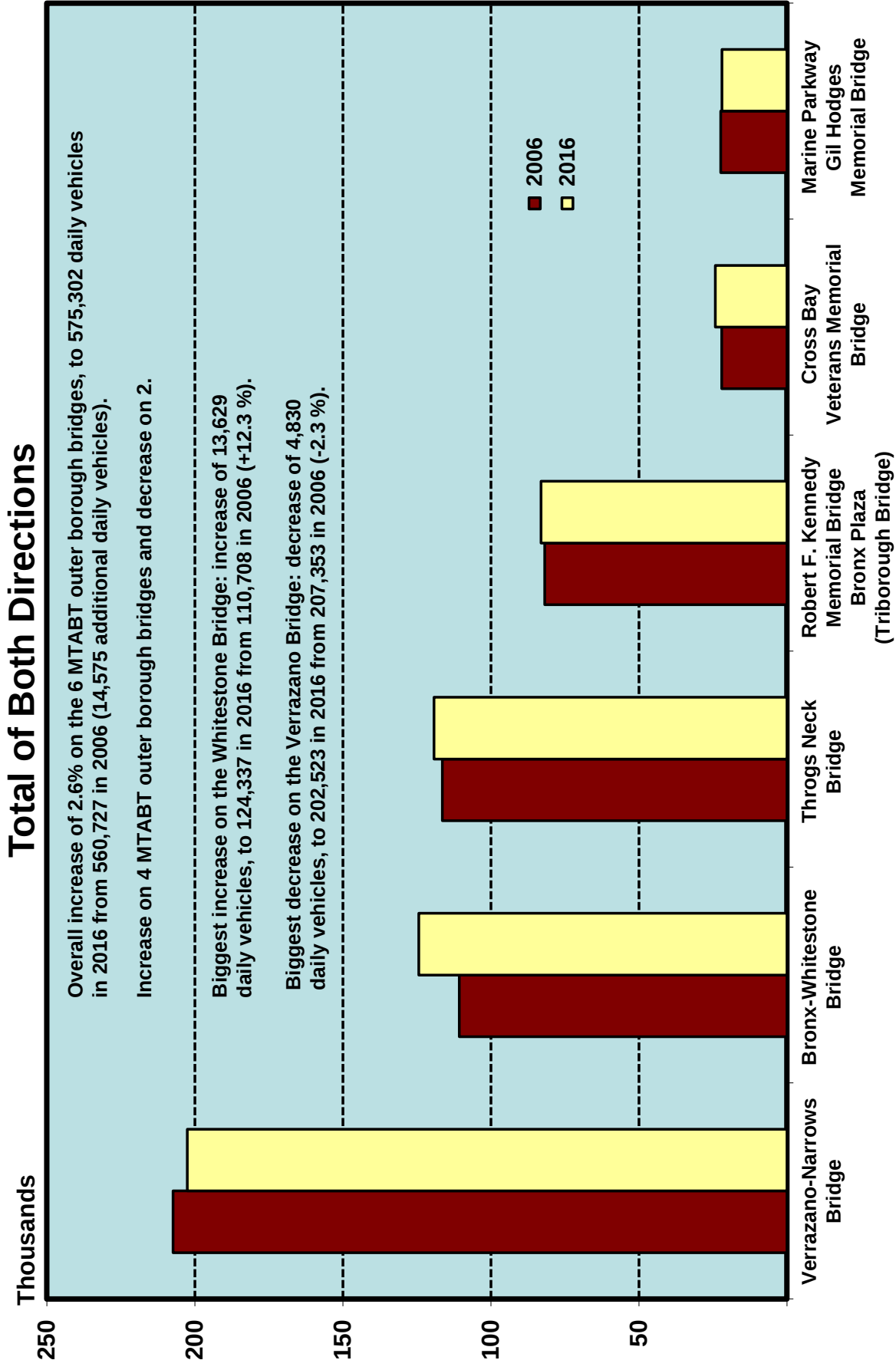
Manhattan Facilities Daily Volumes



10-Year Volume Changes ~ 2006 – 2016

Metropolitan Transportation Authority Bridges & Tunnels (MTABT)

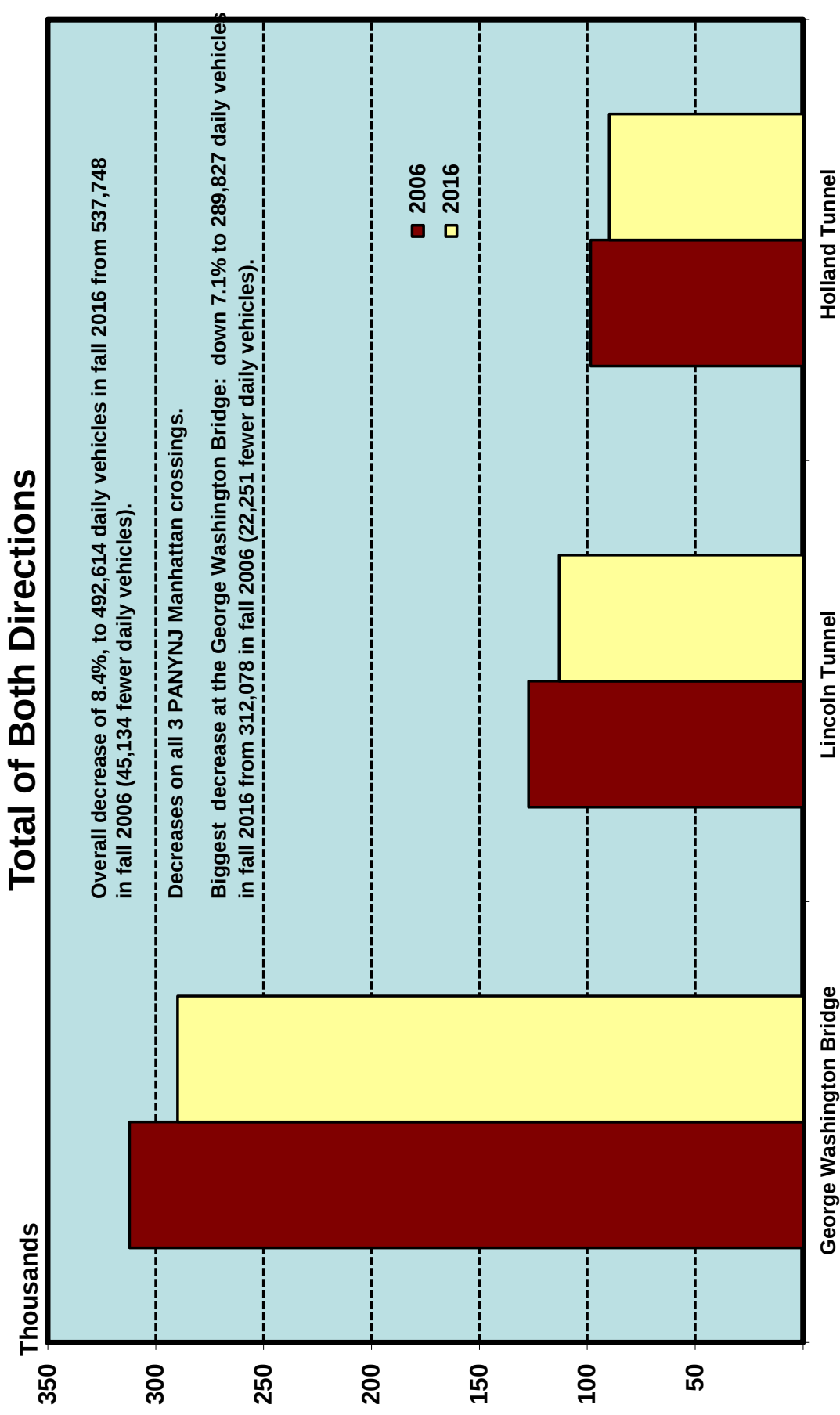
Outer Borough Bridges Daily Volumes



10-Year Volume Changes ~ 2006 – 2016

Port Authority of New York & New Jersey (PANYNJ)

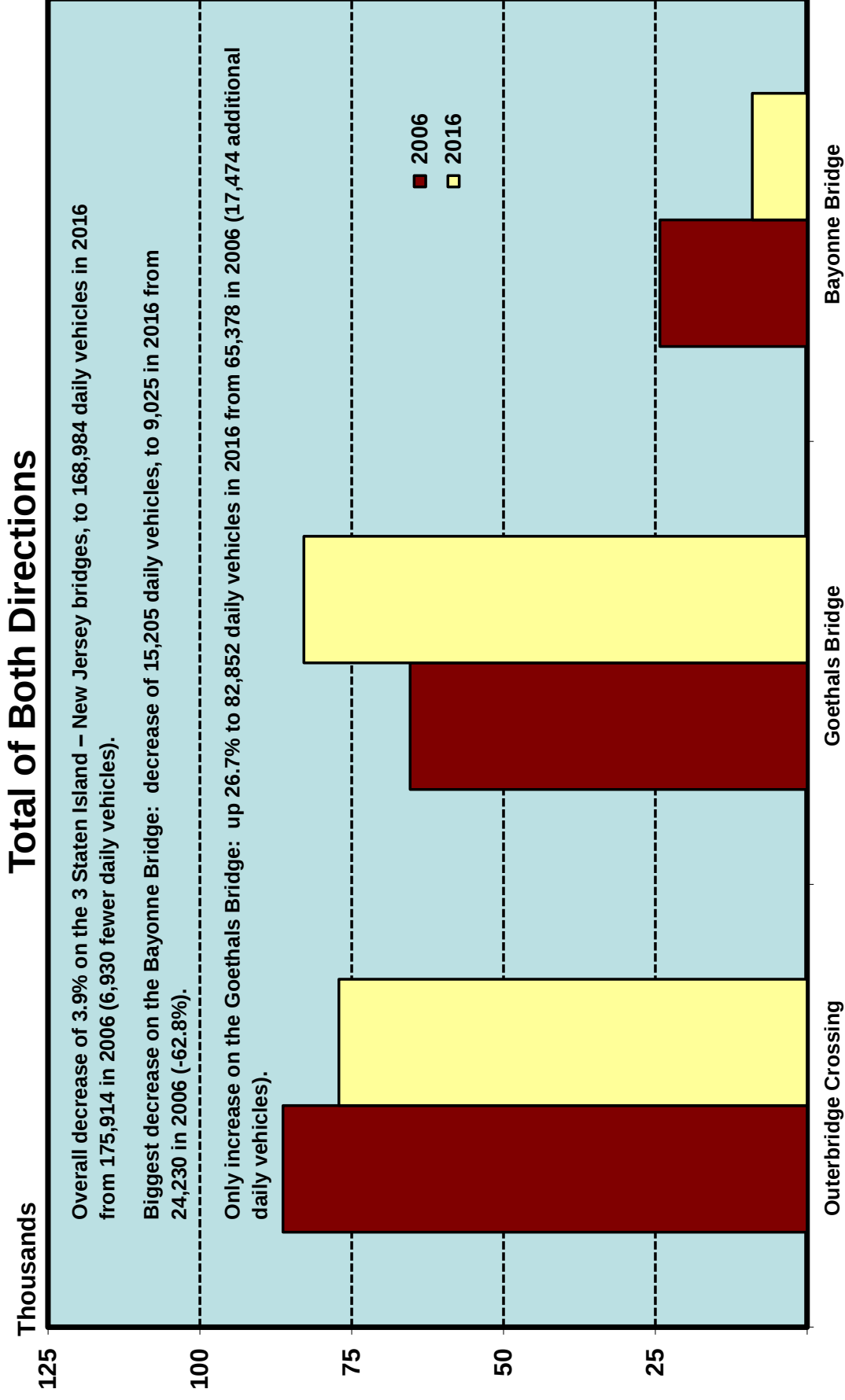
Manhattan – N.J. Facilities Daily Volumes



10-Year Volume Changes ~ 2006 – 2016

Port Authority of New York & New Jersey (PANYNJ)

Staten Island – N.J. Bridges Daily Volumes



Historic Trends



Eastchester Bridge

Historic Trends

In 1948, traffic on the 47 bridges monitored by the New York City Department of Transportation was 923,996 daily trips. By 1968, that figure had more than doubled, to 1,911,838. In 2016, it stood at 2,664,484 daily trips, nearly three times the 1948 volume.

Traffic crossing the Harlem River increased significantly following the opening of the Alexander Hamilton Bridge in 1963. By 1965, daily traffic on the Alexander Hamilton Bridge reached 125,133 vehicles. As a result, traffic on the Harlem River crossings increased 28% between 1962 and 1965.

Bridge traffic increased steadily in the late 1960s and by 1971 had reached 2,058,642 vehicles per day. This was followed by a downward trend between 1971 and 1979. Daily bridge traffic in 1979 was 64,534 below the 1969 level. Thereafter, bridge traffic increased in most years, with 698,087 more daily vehicles crossing the 47 bridges in 2016 than in 1979.

1948 - 1965

- Between 1948 and 1965, bridge traffic increased 85.7% on the 44 monitored bridges open during that period, to 1,716,287 daily vehicles in 1965 from 923,996 in 1948 (792,291 additional daily vehicles).
- Large increases in daily traffic occurred at the following bridges:
 - Brooklyn Bridge over the East River between Manhattan and Brooklyn: up 127.3% to 84,141 daily vehicles in 1965 from 37,011 in 1948 (+47,130 daily vehicles).
 - Ed Koch Queensboro Bridge over the East River between Manhattan and Queens: up 41.3% to 117,588 daily vehicles from 83,201 (+34,387 daily vehicles).
 - Williamsburg Bridge over the East River between Manhattan and Brooklyn: up 70.9% to 80,567 from 47,139 (+33,428 daily vehicles).
 - 3rd Avenue Bridge over the Harlem River between The Bronx and Manhattan: up 77.2% to 55,644 from 31,403 (+24,241 daily vehicles).
 - Willis Avenue Bridge over the Harlem River between Manhattan and The Bronx: up 79.5% to 53,219 from 29,648 (+23,571 daily vehicles).
 - Kosciuszko Bridge along the Brooklyn-Queens Expressway over Newtown Creek: up 238.1% to 110,764 from 32,761 (+78,003 daily vehicles).
 - Eastern Boulevard Bridge along Bruckner Expressway (I-278) over the Bronx River in The Bronx: up 111.3% to 94,167 from 44,563 (+49,604 daily vehicles).
 - Hutchinson River Parkway Bridge over the Hutchinson River in The Bronx: up 224.0% to 48,870 from 15,085 (+33,785 daily vehicles).
 - Unionport Bridge along Bruckner Boulevard over Westchester Creek in The Bronx: up 274.0% to 139,724 from 37,359 (+102,365 daily vehicles).
 - Hamilton Avenue Bridge over Gowanus Canal in Brooklyn: up 195.0% to 35,795 from 12,135 (+23,660 daily vehicles).
 - Mill Basin Bridge along Belt Parkway in Brooklyn: up 407.8% to 110,566 from 21,773 (+88,793 daily vehicles).
 - Hook Creek Bridge along Rockaway Boulevard in Queens: up 265.7% to 35,185 from 9,620 (+25,565 daily vehicles).

- Midtown Highway Bridge on the Long Island Expressway over Dutch Kills in Queens: up 112.1% to 60,973 daily vehicles in 1965 from 28,754 in 1948 (+32,219 daily vehicles).
- Whitestone Expressway Bridge over the Flushing River in Queens: up 197.5% to 81,201 daily vehicles in 1965 from 27,290 in 1948 (+53,911 daily vehicles).
- The only major decrease from 1948 to 1965 occurred on the Manhattan Bridge over the East River between Manhattan and Brooklyn: down 17.9%, to 71,222 daily vehicles in 1965 from 86,717 in 1948 (15,495 fewer daily vehicles).

1965 - 1975

- Between 1965 and 1975, bridge traffic increased 7.5% on the 46 monitored bridges open during that period, to 1,983,069 daily vehicles from 1,845,211 (137,858 additional daily vehicles).
- Significant increases in daily traffic occurred on the following bridges:
 - Brooklyn Bridge over the East River between Manhattan and Brooklyn: up 23.3% to 103,750 daily vehicles in 1975 from 84,141 in 1965 (+19,609 daily vehicles).
 - Ed Koch Queensboro Bridge over the East River between Manhattan and Queens: up 22.7% to 144,252 daily vehicles in 1975 from 117,588 in 1965 (+26,664 daily vehicles).
 - Kosciuszko Bridge over Newtown Creek between Brooklyn and Queens: up 27.2% to 140,882 daily vehicles from 110,764 (+30,118 daily vehicles).
 - Eastern Boulevard Bridge along Bruckner Expressway (I-278) over the Bronx River in The Bronx: up 31.0% to 123,389 daily vehicles from 94,167 (+29,222 daily vehicles).
 - Whitestone Expressway Bridge over the Flushing River in Queens: up 43.8% to 116,750 from 81,201 (+35,549 daily vehicles).
 - Fresh Kills Bridge over Richmond Creek in Staten Island: up 148.9% to 38,684 from 15,539 (+23,145 daily vehicles).
- The most significant decrease in daily traffic occurred on the Unionport Bridge in The Bronx: down 75.2% to 34,648 daily vehicles in 1975 from 139,724 in 1965 (105,076 fewer daily vehicles). The Bruckner Interchange was completed in 1972.

1975 - 1985

- From 1975 to 1985, total traffic on the 47 bridges increased 17.2%, to 2,329,969 daily vehicles from 1,987,853 (342,116 additional daily vehicles).
- The most significant increases occurred on the following bridges:
 - Manhattan Bridge over the East River between Manhattan and Brooklyn: up 35.7% to 100,825 daily vehicles in 1985 from 74,320 in 1975 (+26,505 daily vehicles).
 - Williamsburg Bridge over the East River between Manhattan and Brooklyn: up 30.9% to 107,386 daily vehicles in 1985 from 82,057 in 1975 (+25,329 daily vehicles).
 - Alexander Hamilton Bridge over the Harlem River between Manhattan and The Bronx: up 28.0% to 171,602 daily vehicles in 1985 from 134,013 in 1975 (+37,589 daily vehicles).
 - Kosciuszko Bridge along the Brooklyn-Queens Expressway (I-278) over Newtown Creek: up 19.7% to 168,680 daily vehicles in 1985 from 140,882 in 1975 (+27,798 daily vehicles).

- Eastern Boulevard Bridge along Bruckner Expressway (I-278) over the Bronx River in The Bronx: up 12.4% to 138,725 daily vehicles from 123,389 (+15,336 daily vehicles).
- Metropolitan Avenue Bridge over English Kills in Brooklyn: up 94.9% to 43,173 from 22,148 (+21,025 daily vehicles).
- There were no major decreases from 1975 to 1985.

1985 - 1995

- From 1985 to 1995, daily traffic increased 2.8% on the 47 bridges, to 2,394,405 daily vehicles from 2,329,969 (64,436 additional daily vehicles).
- Significant increases in daily traffic occurred on the following bridges:
 - Brooklyn Bridge over the East River between Manhattan and Brooklyn: up 12.8% to 131,883 daily vehicles in 1995 from 116,929 in 1985 (+14,954 daily vehicles).
 - Hutchinson River Parkway Bridge over the Hutchinson River in The Bronx: up 44.6% to 85,985 from 59,455 (+26,530 daily vehicles).
 - Mill Basin Bridge along Belt Parkway in Brooklyn: up 23.5% to 134,540 daily vehicles in 1995 from 108,974 in 1985 (+25,566 daily vehicles).
 - Hook Creek Bridge along Rockaway Boulevard in Queens: up 31.8% to 66,517 from 50,458 (+16,059 daily vehicles).
- Significant decreases occurred on the following bridges:
 - Manhattan Bridge over the East River between Manhattan and Brooklyn: down 25.5% to 75,126 daily vehicles in 1995 from 100,825 in 1985 (25,699 fewer daily vehicles).
 - Madison Avenue Bridge over the Harlem River between Manhattan and The Bronx: down 40.1% to 22,739 daily vehicles in 1995 from 37,956 in 1985 (15,217 fewer daily vehicles). Reconstruction activities caused half this bridge to be closed round-the-clock in 1995.
 - University Heights Bridge over the Harlem River between Manhattan and The Bronx: down 43.4% to 21,238 daily vehicles in 1995 from 37,553 in 1985 (16,315 fewer daily vehicles). Reconstruction activities caused this bridge to be closed to Bronx-bound traffic round-the-clock in 1995.
 - Pulaski Bridge over Newtown Creek between Brooklyn and Queens: down 33.1% to 28,480 daily vehicles in 1995 from 42,579 in 1985 (14,099 fewer daily vehicles).

1995 - 2005

- From 1995 to 2005, bridge traffic increased 15.2%, to 2,757,802 daily vehicles from 2,394,405 (363,397 additional daily vehicles).
- Significant increases in daily traffic occurred on the following bridges:
 - Ed Koch Queensboro Bridge over the East River: up 13.5% to 178,610 daily vehicles in 2005 from 157,306 in 1995 (+21,304 daily vehicles).
 - Madison Avenue Bridge over the Harlem River between Manhattan and The Bronx: up 112.8% to 48,397 daily vehicles in 2005 from 22,739 in 1995 (25,658 additional daily vehicles). Reconstruction activities had caused half this bridge to be closed round-the-clock in 1995.
 - University Heights Bridge over the Harlem River between Manhattan and The Bronx: up 111.6% to 44,938 daily vehicles in 2005 from 21,238 in 1995 (23,700 additional

daily vehicles). Reconstruction activities had caused this bridge to be closed to Bronx-bound traffic round-the-clock in 1995.

- Kosciuszko Bridge along the Brooklyn-Queens Expressway over Newtown Creek: up 17.9% to 198,813 daily vehicles in 2005 from 168,639 in 1995 (30,174 additional daily vehicles).
 - Eastern Boulevard Bridge on Bruckner Expressway over the Bronx River in The Bronx: up 40.6% to 183,743 daily vehicles in 2005 from 130,647 in 1995 (+53,096 daily vehicles).
 - Hutchinson River Parkway Bridge over the Hutchinson River in The Bronx: up 37.7% to 118,387 daily vehicles in 2005 from 85,985 in 1995 (+32,402 daily vehicles).
 - Unionport Bridge along Bruckner Boulevard over Westchester Creek in The Bronx: up 52.2% to 60,605 daily vehicles in 2005 from 39,811 in 1995 (+20,794 daily vehicles).
 - Midtown Highway Bridge (I-495) over Dutch Kills in Queens: up 32.1% to 89,559 daily vehicles in 2005 from 67,810 in 1995 (+21,749 daily vehicles).
 - Whitestone Expressway Bridge over the Flushing River in Queens: up 30.3% to 191,563 daily vehicles in 2005 from 147,029 in 1995 (+44,534 daily vehicles).
 - Fresh Kills Bridge along Richmond Avenue over Richmond Creek in Staten Island: up 41.8% to 66,816 daily vehicles in 2005 from 47,132 in 1995 (19,684 additional daily vehicles).
- There were no major decreases from 1995 to 2005.

1948 - 2016

- During the 68 years from 1948 to 2016, total traffic on the 47 bridges increased 188.4% to 2,664,484 daily vehicles in 2016 from 923,996 in 1948 (1,740,488 additional daily vehicles).
- **East River Bridges**
 - Traffic using the four East River Bridges increased 83.7% to 466,685 daily vehicles in 2016 from 254,068 in 1948 (212,617 additional daily vehicles).
 - Brooklyn Bridge up 185.5% to 105,679 daily vehicles from 37,011 (+68,668 daily vehicles).
 - Ed Koch Queensboro Bridge up 104.7% to 170,277 daily vehicles from 83,201 (+87,076 daily vehicles).
 - Williamsburg Bridge up 124.1% to 105,645 daily vehicles from 47,139 (+58,506 daily vehicles).
- **Harlem River Bridges**
 - Traffic using the nine Harlem River Bridges increased 161.0% to 540,830 daily vehicles in 2016 from 207,177 in 1948 (333,653 additional daily vehicles). This includes the Alexander Hamilton Bridge which opened in January 1963.
 - Willis Avenue Bridge up 110.1% to 62,293 daily vehicles from 29,648 (+32,645 daily vehicles).
 - Broadway Bridge up 124.9%, to 36,027 daily vehicles from 16,020 (+20,007 daily vehicles).
 - Third Avenue Bridge up 75.4% to 55,096 daily vehicles from 31,403 (+23,693 daily vehicles).
 - Washington Bridge up 96.3% to 57,647 daily vehicles from 29,374 (+28,273 daily vehicles).

- **Brooklyn-Queens Bridges**

- Traffic using the four bridges over Newtown Creek increased 218.8% to 245,138 daily vehicles in 2016 from 76,884 in 1948 (168,254 additional daily vehicles).
- Kosciuszko Bridge up 396.3% to 162,581 daily vehicles in 2016 from 32,761 in 1948 (+129,820 daily vehicles).

- **Bronx Bridges**

- Traffic using the eight bridges in The Bronx increased 231.2% to 467,807 daily vehicles in 2016 from 141,247 in 1948 (326,560 additional daily vehicles).
- Hutchinson River Parkway Bridge up 736.4% to 126,171 daily vehicles from 15,085 (+111,086 daily vehicles).
- Eastern Boulevard Bridge up 310.9% to 183,090 daily vehicles from 44,563 (+138,527 daily vehicles).

- **Brooklyn Bridges**

- Traffic using the ten bridges in Brooklyn increased 245.0% to 317,121 daily vehicles in 2016 from 91,917 in 1948 (225,204 additional daily vehicles).
- Mill Basin Bridge up 530.3% to 137,226 daily vehicles in 2016 from 21,773 in 1948 (+115,453 daily vehicles).
- Hamilton Avenue Bridge up 358.0% to 55,584 daily vehicles in 2016 from 12,135 in 1948 (+43,449 daily vehicles).
- Metropolitan Avenue Bridge up 308.4% to 35,687 daily vehicles in 2016 from 8,739 in 1948 (+26,948 daily vehicles).

- **Queens Bridges**

- Traffic using the eleven bridges in Queens increased 284.9% to 566,219 daily vehicles in 2016 from 147,106 in 1948 (419,113 additional daily vehicles).
- Whitestone Expressway Bridge up 699.7% to 218,227 daily vehicles in 2016 from 27,290 in 1948 (+181,672 daily vehicles).
- Hook Creek Bridge up 687.1% to 75,716 daily vehicles from 9,620 (+66,096 daily vehicles).
- Midtown Highway Bridge up 189.8% to 83,342 daily vehicles from 28,754 (+54,588 daily vehicles).

- **Staten Island**

- Traffic volume on the Fresh Kills Bridge in Staten Island increased 984.2% to 60,684 daily vehicles in 2016 from 5,597 in 1948 (55,087 additional daily vehicles).

Total NYC Toll Free Bridges
Average Daily Traffic Volumes
1948 - 2016

<i>Year</i>	<i>East River</i>	<i>Harlem River</i>	<i>Brooklyn- Queens</i>	<i>Bronx</i>
1948	254,068	207,177	76,884	141,247
1949	260,933	193,510	65,778	135,682
1950	240,227	222,671	78,998	150,973
1951	269,352	249,199	95,480	145,227
1952	261,704	222,196	108,369	183,453
1953	292,726	248,629	108,718	177,999
1954	297,903	236,056	118,199	183,057
1955	293,633	250,239	116,018	180,249
1956	297,866	266,781	120,881	197,809
1957	297,028	316,530	137,610	184,031
1958	304,470	329,747	110,097	196,948
1959	312,431	342,349	144,137	188,531
1960	322,660	345,199	135,059	205,757
1961	316,813	333,463	145,861	259,905
1962	318,170	313,230	160,540	263,020
1963	333,880	309,090	160,400	291,240
1964	341,030	407,680	172,570	328,190
1965	353,518	401,259	171,379	351,358
1966	355,745	402,487	198,884	354,029
1967	352,936	427,744	197,695	337,982
1968	357,232	362,095	147,024	389,519
1969	379,416	412,992	199,029	378,854
1970	371,743	429,690	194,709	366,604
1971	364,070	432,195	200,624	391,040
1972	390,292	422,364	200,199	345,542
1973	394,290	449,670	168,037	272,116
1974	394,631	439,112	180,771	282,009
1975	404,379	440,354	194,534	284,772
1976	398,248	429,629	190,701	280,315
1977	398,140	442,200	192,432	268,480
1978	400,146	450,758	194,721	301,248
1979	382,028	427,816	201,314	277,666
1980	392,460	446,292	196,019	284,383
1981	395,125	448,323	201,487	287,933
1982	414,984	470,785	179,788	291,600
1983	413,152	491,153	221,703	301,686
1984	428,541	496,949	224,209	306,019
1985	476,032	538,263	225,050	311,072
1986	469,711	546,896	224,816	356,257
1987	460,092	530,228	238,975	362,490
1988	460,858	520,282	222,871	364,570
1989	461,102	539,381	239,889	354,927
1990	448,713	539,563	243,408	343,574
1991	447,969	533,368	236,472	338,921
1992	443,145	537,353	231,197	343,744
1993	431,874	542,306	230,020	336,776
1994	448,263	526,044	231,657	340,515
1995	464,903	521,882	237,305	348,009
1996	463,482	530,950	239,752	361,505
1997	511,410	546,750	258,585	362,846
1998	523,690	560,062	268,324	392,771
1999	516,507	563,182	266,762	403,934
2000	514,767	578,770	279,944	424,946
2001	427,321	568,759	276,288	439,239
2002	467,080	551,831	262,121	437,363
2003	493,418	549,510	275,737	448,186
2004	507,589	552,421	275,654	453,006
2005	498,213	561,392	280,189	459,149
2006	494,576	557,043	265,298	456,001
2007	496,666	557,925	263,326	453,636
2008	477,211	539,434	258,759	454,313
2009	485,313	543,736	263,638	449,209
2010	487,301	549,574	267,112	461,072
2011	478,203	544,642	267,075	447,178
2012	480,259	547,207	272,058	447,813
2013	477,147	558,163	269,845	456,730
2014	469,907	537,888	265,928	460,392
2015	468,918	530,808	260,529	462,216
2016	466,685	540,830	245,138	467,807

Total NYC Toll Free Bridges (continued)

Average Daily Traffic Volumes

1948 - 2016

<i>Year</i>	<i>Brooklyn</i>	<i>Queens</i>	<i>Staten Island</i>	<i>Totals</i>
1948	91,917	147,106	5,597	923,996
1949	111,439	173,925	5,759	947,026
1950	122,058	180,610	6,250	1,001,787
1951	140,124	200,163	8,023	1,107,568
1952	127,050	212,687	7,891	1,123,350
1953	141,728	220,866	7,858	1,198,524
1954	154,877	221,700	9,098	1,220,890
1955	140,907	218,696	9,841	1,209,583
1956	157,758	265,239	9,415	1,315,749
1957	153,756	261,111	9,897	1,359,963
1958	179,537	256,536	10,121	1,387,456
1959	176,508	264,201	8,573	1,436,730
1960	181,995	259,348	8,147	1,458,165
1961	207,273	265,848	10,270	1,539,433
1962	217,232	257,140	9,400	1,538,732
1963	210,610	288,190	12,450	1,605,860
1964	213,469	312,090	15,010	1,790,039
1965	241,570	310,588	15,539	1,845,211
1966	223,516	313,379	17,175	1,865,215
1967	211,307	354,637	17,309	1,899,610
1968	248,667	387,512	19,789	1,911,838
1969	251,115	387,146	22,379	2,030,931
1970	238,020	400,381	21,631	2,022,778
1971	241,116	402,853	26,744	2,058,642
1972	240,091	387,808	28,455	2,014,751
1973	226,608	407,538	37,213	1,955,472
1974	240,762	403,573	36,207	1,977,065
1975	234,623	390,507	38,684	1,987,853
1976	237,416	387,662	34,675	1,958,646
1977	228,117	387,403	30,295	1,947,067
1978	226,627	410,037	34,467	2,018,004
1979	247,018	393,749	36,806	1,966,397
1980	242,682	384,581	41,604	1,988,021
1981	240,109	432,886	46,947	2,052,810
1982	258,284	439,128	68,481	2,123,050
1983	253,358	446,926	46,450	2,174,428
1984	274,583	449,118	50,341	2,229,760
1985	275,566	450,396	53,590	2,329,969
1986	271,818	456,171	44,230	2,369,899
1987	271,080	466,965	50,372	2,380,202
1988	281,731	473,735	50,385	2,374,432
1989	299,865	461,819	36,550	2,393,533
1990	320,122	450,319	53,442	2,399,141
1991	273,185	466,539	49,197	2,345,651
1992	310,084	484,835	48,507	2,398,865
1993	308,495	467,195	49,969	2,366,635
1994	302,135	478,793	48,562	2,375,969
1995	300,832	474,342	47,132	2,394,405
1996	315,395	495,873	49,740	2,456,697
1997	318,101	503,323	51,738	2,552,753
1998	322,057	522,899	53,770	2,643,573
1999	338,261	541,114	65,577	2,695,337
2000	331,090	551,329	66,980	2,747,826
2001	335,404	551,116	67,465	2,665,592
2002	329,749	554,458	64,563	2,667,165
2003	331,805	562,107	66,155	2,726,918
2004	335,921	549,619	64,705	2,738,915
2005	331,523	560,520	66,816	2,757,802
2006	328,620	552,642	65,274	2,719,454
2007	333,955	562,062	68,997	2,736,567
2008	327,644	544,089	64,724	2,666,174
2009	330,614	542,678	64,490	2,679,678
2010	327,984	538,197	65,612	2,696,852
2011	317,516	533,007	60,678	2,648,299
2012	322,259	555,713	58,026	2,683,335
2013	326,908	563,650	60,240	2,712,683
2014	322,391	550,764	59,602	2,666,872
2015	323,594	557,502	57,538	2,661,105
2016	317,121	566,219	60,684	2,664,484

NYC Tolled Facilities
Average Daily Traffic Volumes
1948 - 2016

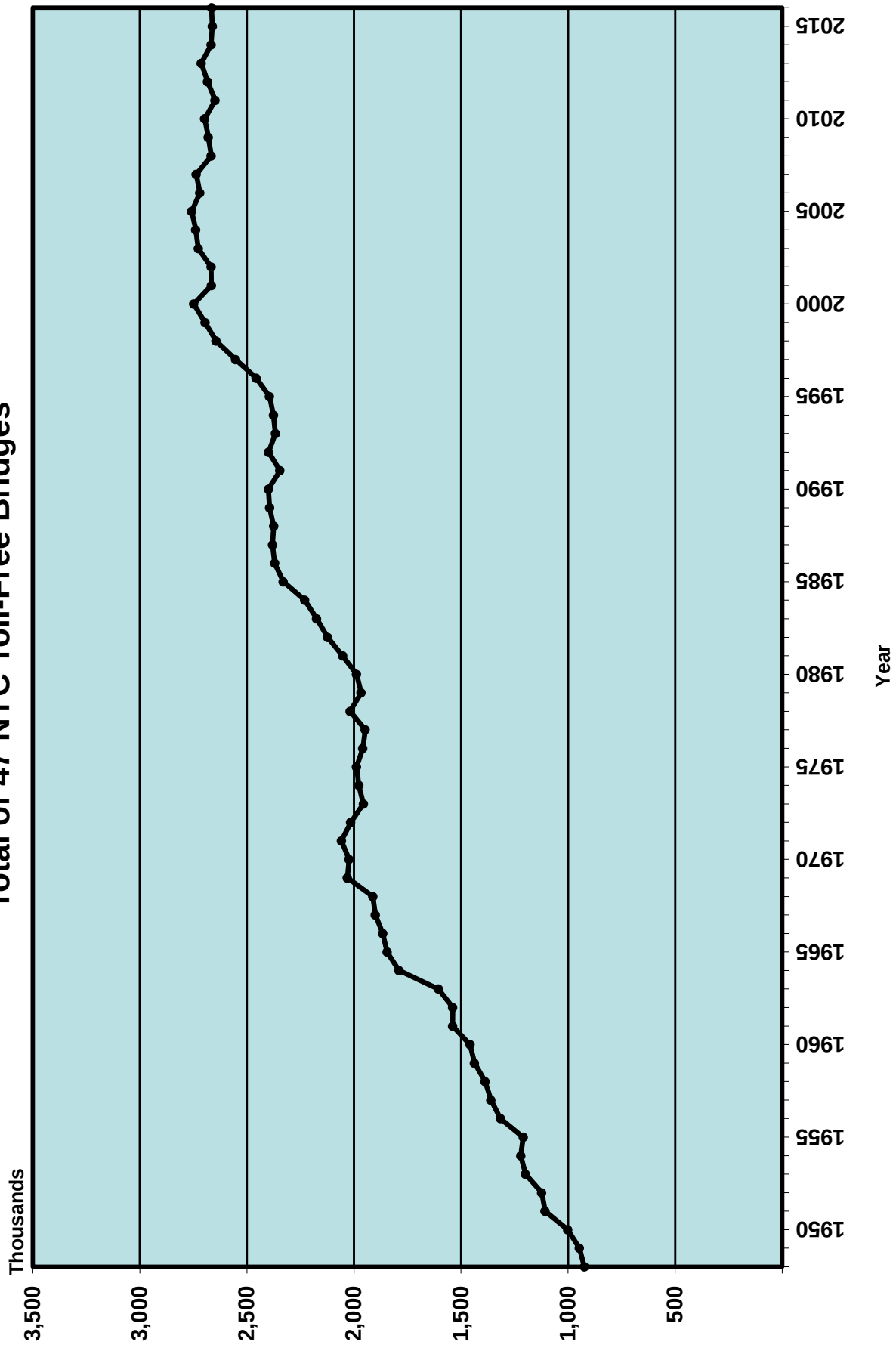
<i>Year</i>	<i>MTABT Manhattan</i>	<i>PANYNJ Manhattan</i>	<i>MTABT Outer Boro</i>	<i>PANYNJ Staten Is</i>	<i>Total</i>
1948	92,977	115,785	80,977	13,214	302,953
1949	110,071	129,943	97,117	14,628	351,759
1950	161,856	146,653	109,454	16,431	434,394
1951	180,272	166,150	124,391	18,335	489,148
1952	194,327	181,253	133,747	19,143	528,470
1953	200,535	194,577	143,873	20,598	559,583
1954	204,616	202,394	153,811	21,554	582,375
1955	216,835	211,926	167,176	22,685	618,622
1956	231,535	213,088	176,644	22,202	643,469
1957	236,343	218,623	176,042	22,614	653,622
1958	232,413	221,494	174,187	21,953	650,047
1959	231,501	237,021	183,224	22,978	674,724
1960	230,768	239,620	184,606	22,856	677,850
1961	227,241	236,833	144,600	25,374	634,048
1962	233,010	250,646	199,418	26,338	709,412
1963	225,100	265,603	213,940	27,398	732,041
1964	236,513	285,824	236,709	29,980	789,026
1965	240,949	293,339	301,459	44,828	880,575
1966	243,107	303,981	316,984	50,978	915,050
1967	244,038	308,153	329,918	54,051	936,160
1968	247,924	320,292	352,823	58,654	979,693
1969	254,863	329,123	365,734	63,053	1,012,773
1970	271,063	347,838	384,121	68,920	1,071,942
1971	286,692	362,063	401,495	74,758	1,125,008
1972	252,871	378,620	388,743	77,018	1,097,252
1973	251,593	397,203	402,096	81,034	1,131,926
1974	242,846	376,547	395,168	80,544	1,095,105
1975	214,120	374,707	381,450	81,060	1,051,337
1976	217,207	381,250	382,313	80,864	1,061,634
1977	229,766	385,013	384,470	85,536	1,084,785
1978	241,125	399,512	398,634	88,998	1,128,269
1979	251,544	393,724	395,516	92,164	1,132,948
1980	255,858	404,734	399,855	97,774	1,158,221
1981	269,854	427,381	417,974	101,644	1,216,853
1982	253,499	433,744	432,273	106,672	1,226,188
1983	263,510	441,164	446,596	113,786	1,265,056
1984	262,985	453,775	457,565	118,928	1,293,253
1985	275,858	468,452	475,782	126,466	1,346,558
1986	274,693	485,751	475,218	138,436	1,374,098
1987	289,642	486,639	482,429	139,734	1,398,444
1988	293,550	490,179	494,073	143,062	1,420,864
1989	275,358	487,693	475,447	140,051	1,378,549
1990	289,066	482,243	488,042	138,340	1,397,691
1991	295,265	467,501	488,953	141,454	1,393,173
1992	300,203	476,872	491,171	145,380	1,413,626
1993	282,159	473,069	478,703	140,775	1,374,706
1994	263,351	473,799	490,288	143,875	1,371,313
1995	293,574	482,098	498,104	143,657	1,417,433
1996	281,116	493,194	493,813	146,565	1,414,688
1997	283,686	504,788	488,923	151,578	1,428,975
1998	293,990	522,512	515,970	156,786	1,489,258
1999	303,966	549,352	522,677	166,890	1,542,885
2000	313,504	548,465	537,334	164,668	1,563,971
2001	257,937	458,944	551,948	177,251	1,446,080
2002	305,300	532,839	554,237	179,140	1,571,516
2003	307,034	547,449	547,068	174,582	1,576,133
2004	312,159	536,396	559,962	174,268	1,582,785
2005	297,411	527,717	530,284	171,653	1,527,065
2006	317,751	537,748	560,727	175,914	1,592,140
2007	312,253	513,974	548,552	170,228	1,545,007
2008	305,993	508,269	555,680	165,776	1,535,718
2009	294,156	504,860	544,642	165,504	1,509,162
2010	305,297	506,546	545,798	168,132	1,525,773
2011	294,293	491,109	526,428	169,536	1,481,366
2012	296,626	482,557	528,998	163,706	1,471,887
2013	292,355	479,819	530,329	158,267	1,460,770
2014	290,406	477,812	529,749	155,618	1,453,585
2015	297,794	498,270	554,882	163,218	1,514,164
2016	285,746	492,614	575,302	168,984	1,522,646

PANYNJ one-way tolls initiated 8/12/1970.

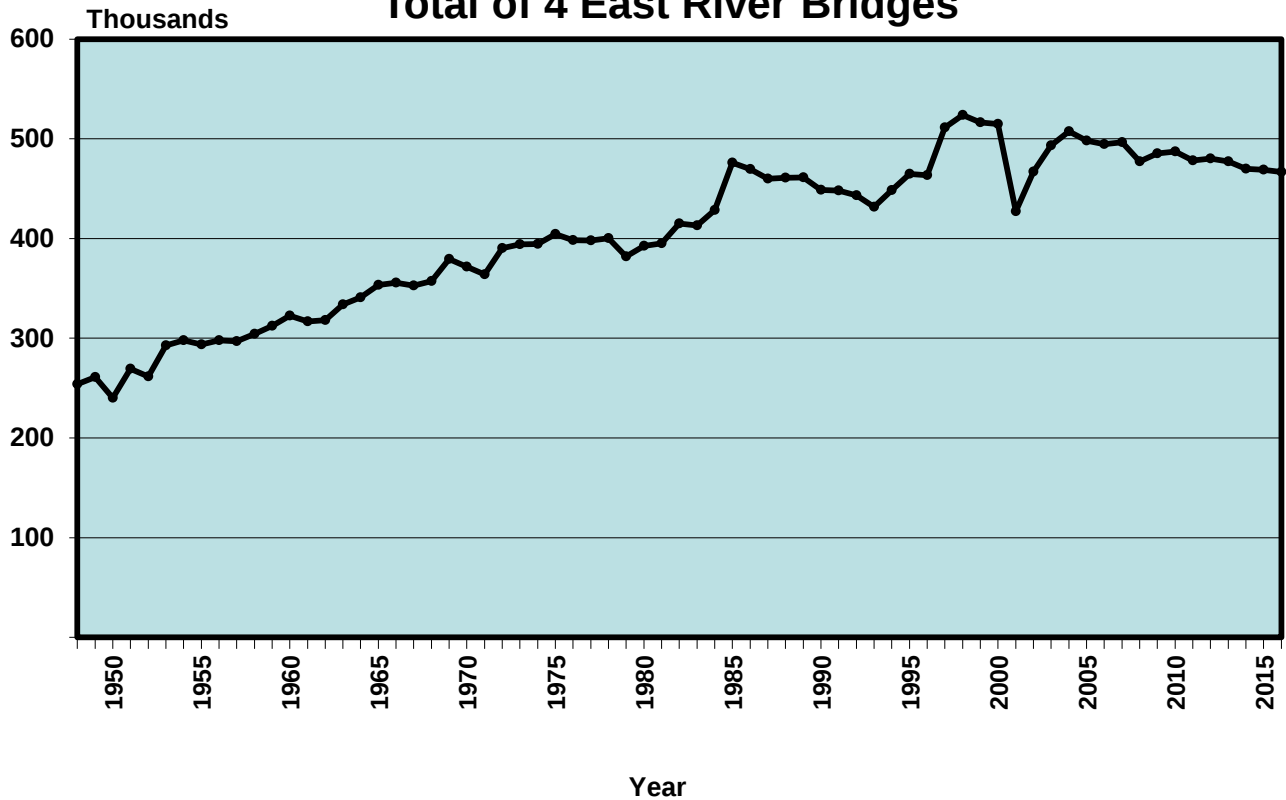
PANYNJ toll increases: 5/1975, 1/1984, 4/1987, 4/1991, 3/2001, 3/2008, 9/2011, 12/2012, 12/2013, 12/2014, & 12/2015.

MTABT toll Increases: 1/1972, 9/1975, 5/1980, 4/1982, 1/1984, 1/1986, 2/1987, 7/1989, 1/1993, 3/1996, 5/2003, 3/2005, 3/2008, 7/2009, 12/2010, 3/2013, & 3/2015.

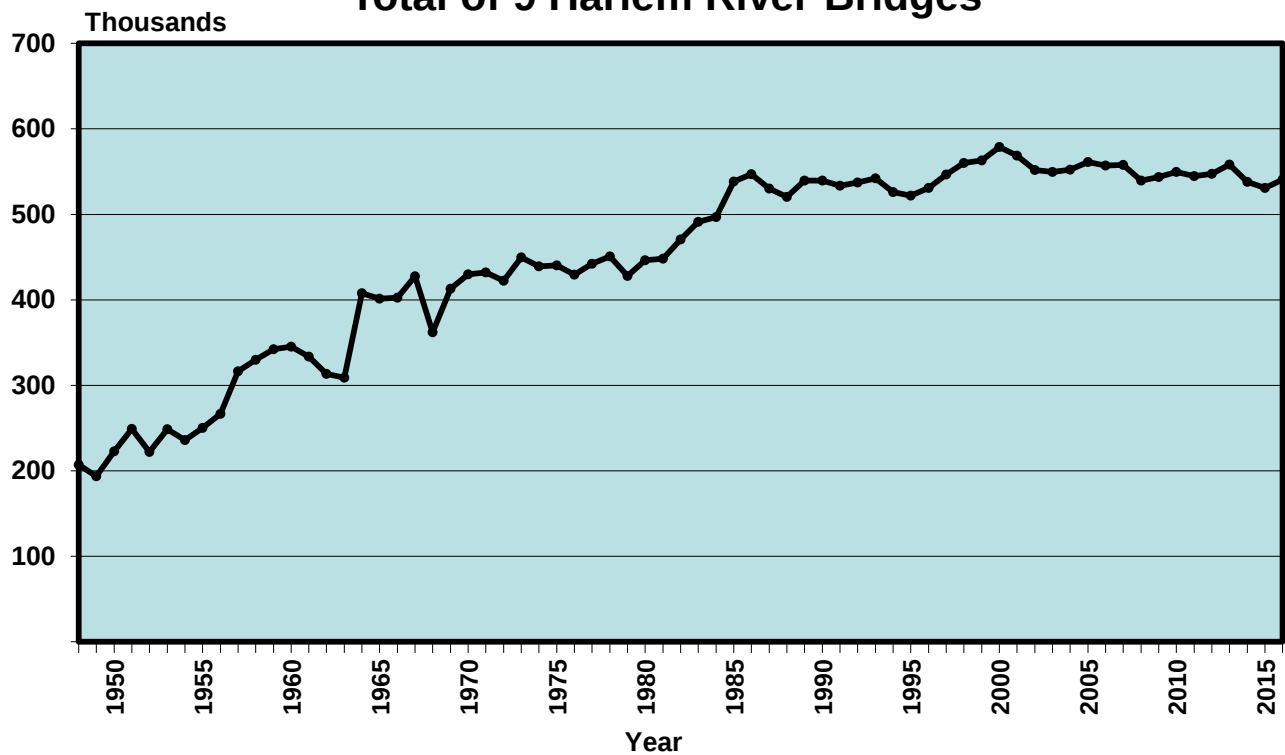
Average Daily Traffic Volumes ~ Total of Both Directions
Total of 47 NYC Toll-Free Bridges



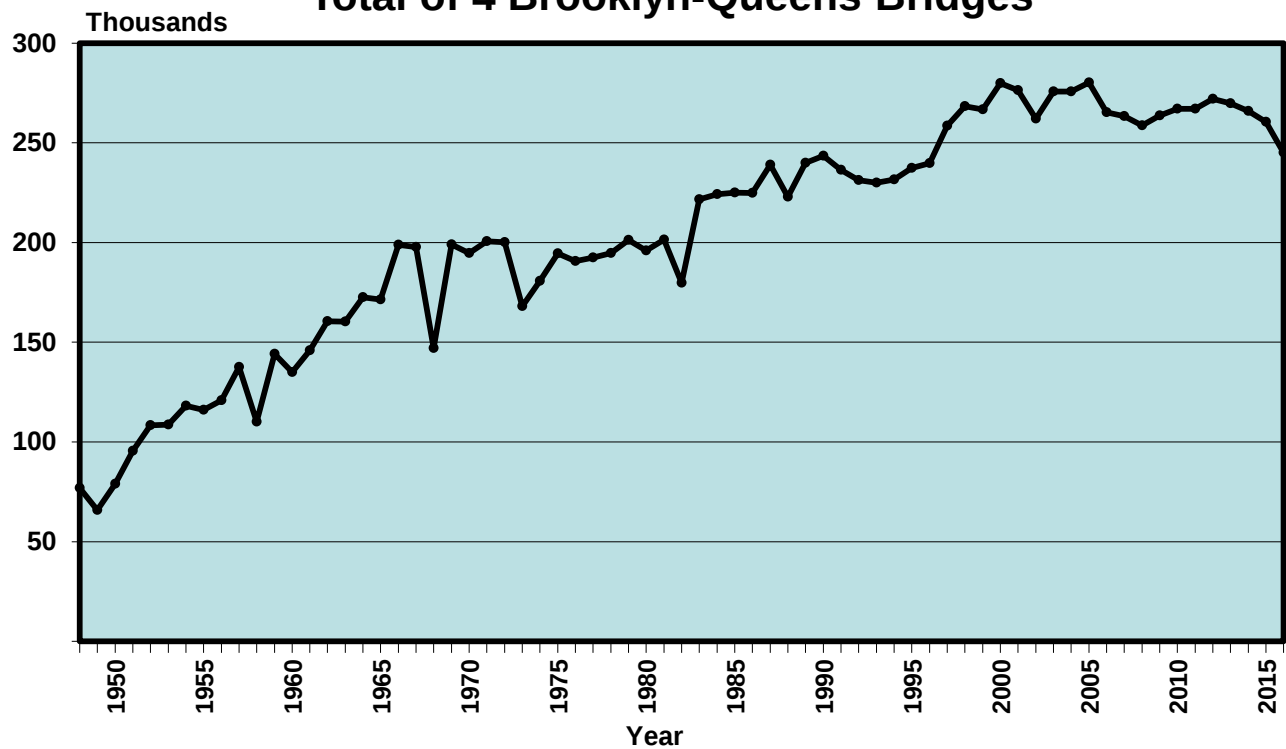
Average Daily Traffic Volumes ~ Total of Both Directions Total of 4 East River Bridges



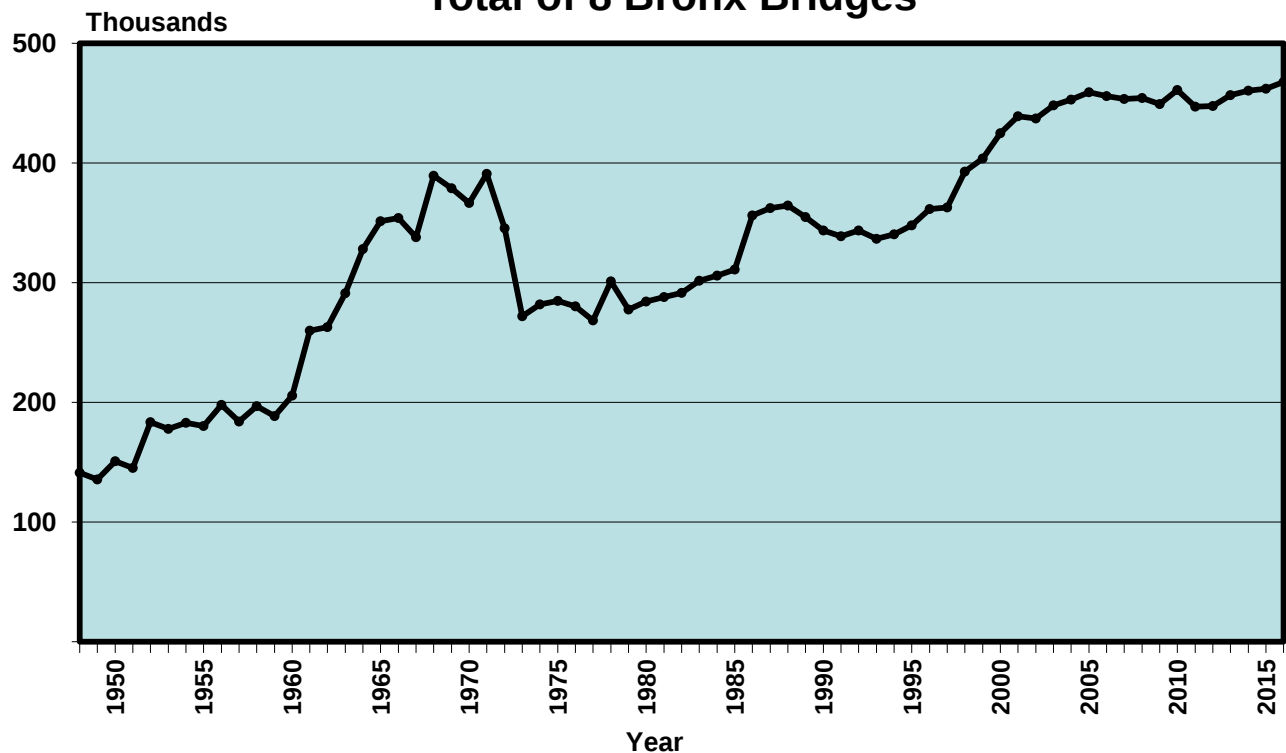
Average Daily Traffic Volumes ~ Total of Both Directions Total of 9 Harlem River Bridges



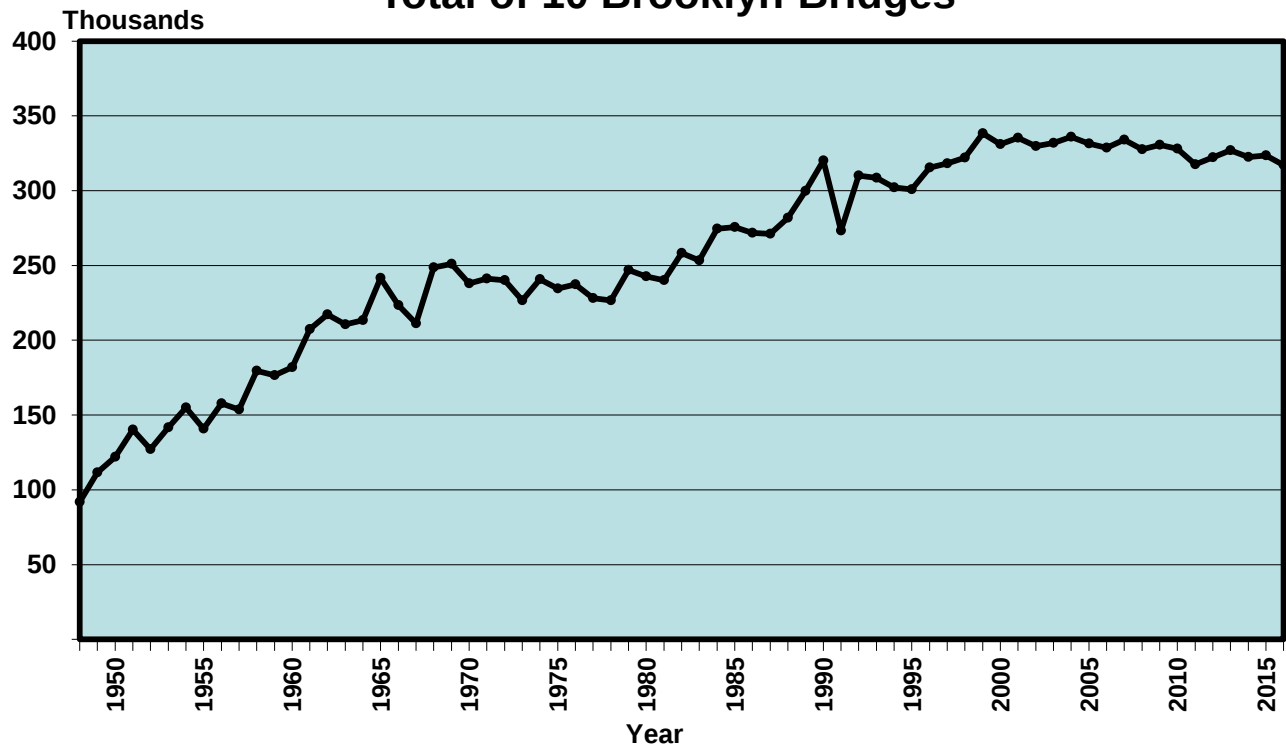
Average Daily Traffic Volumes ~ Total of Both Directions Total of 4 Brooklyn-Queens Bridges



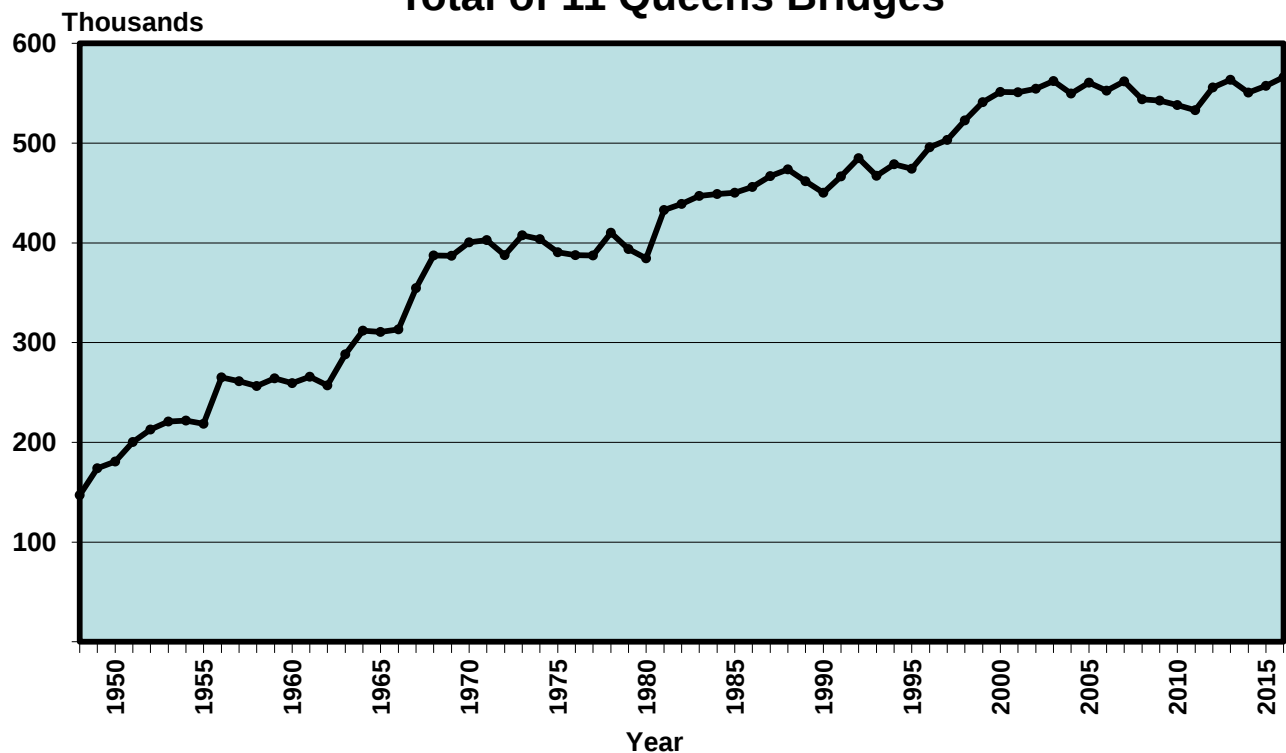
Average Daily Traffic Volumes ~ Total of Both Directions Total of 8 Bronx Bridges



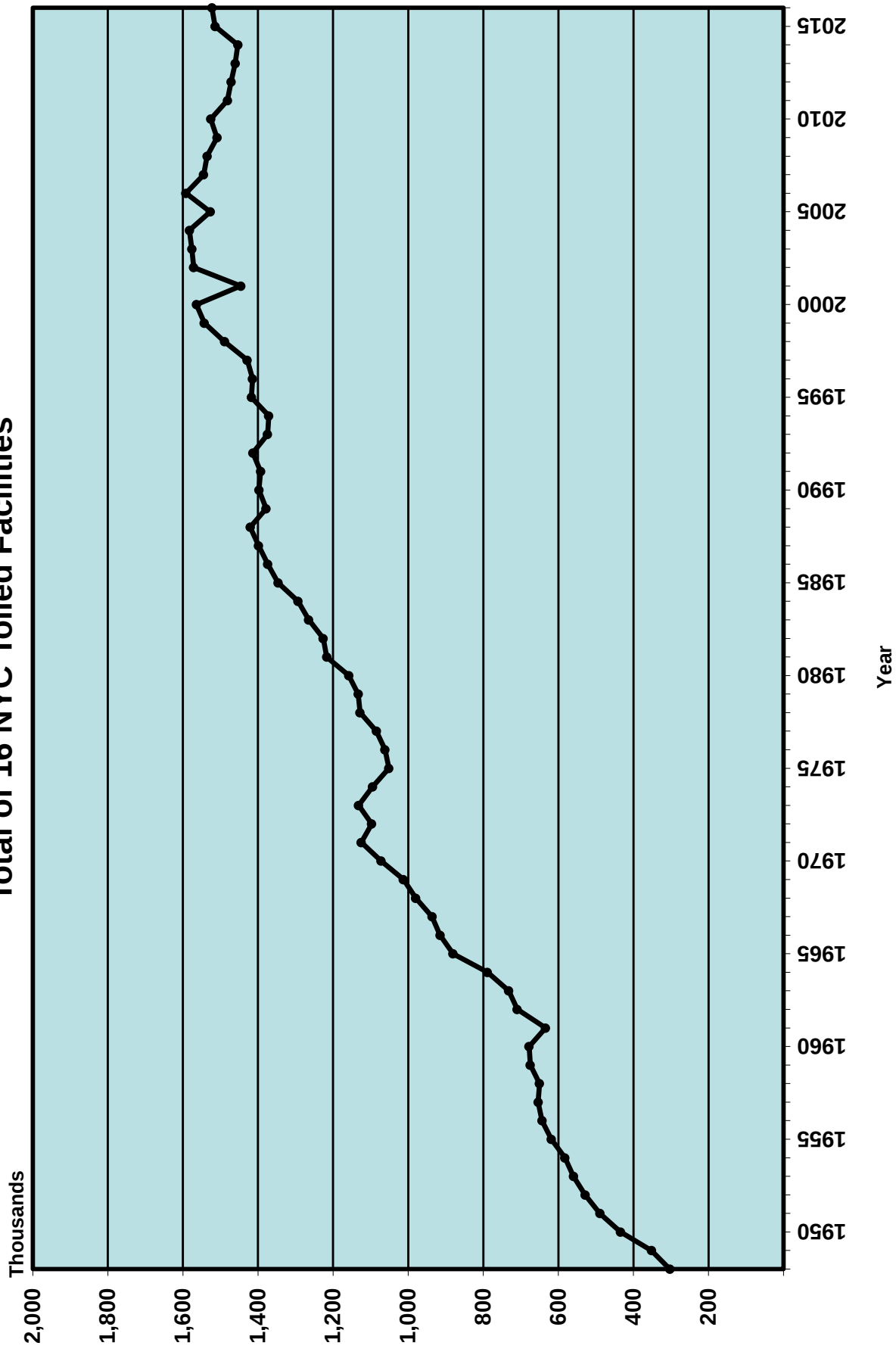
Average Daily Traffic Volumes ~ Total of Both Directions Total of 10 Brooklyn Bridges



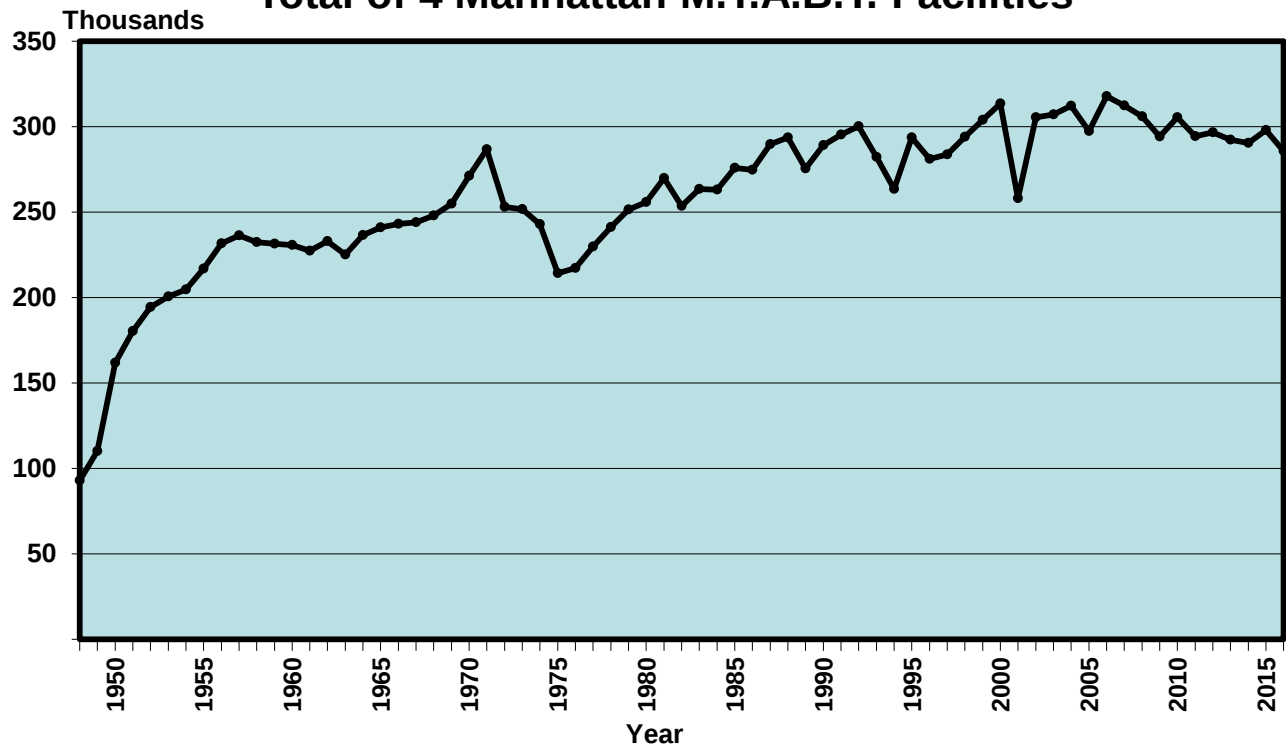
Average Daily Traffic Volumes ~ Total of Both Directions Total of 11 Queens Bridges



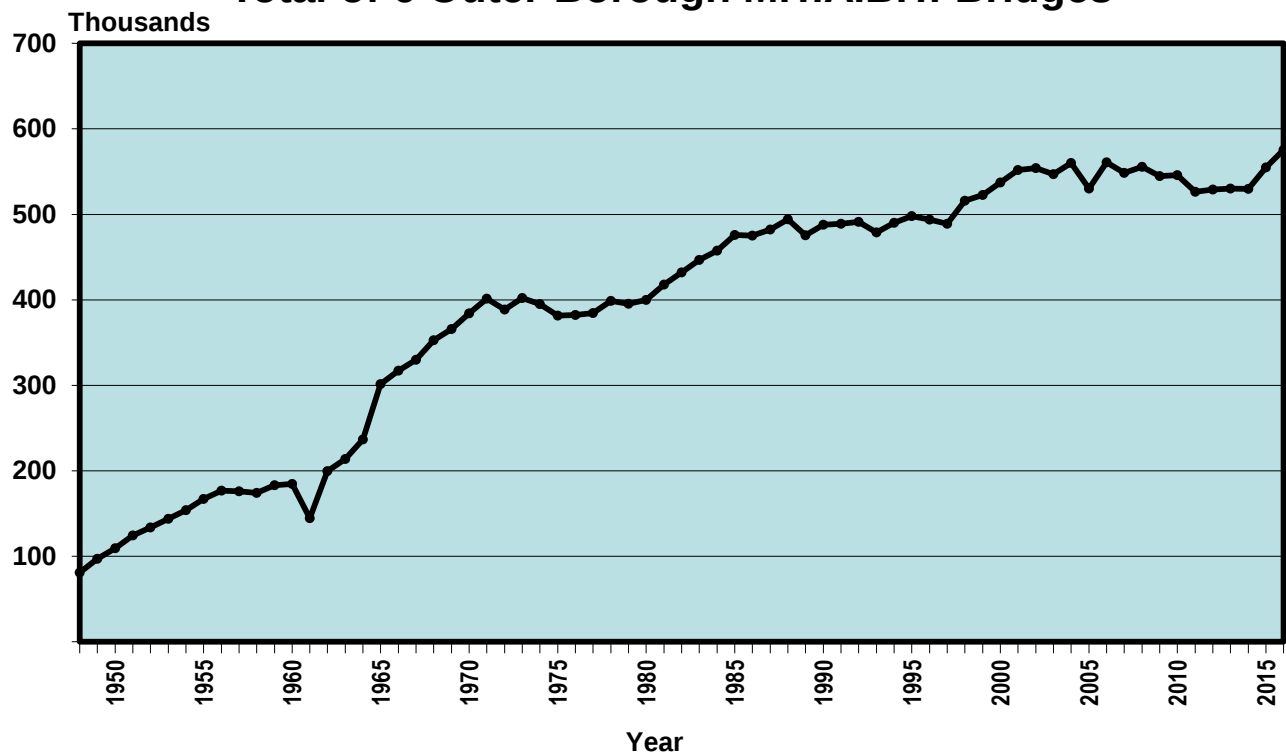
Average Daily Traffic Volumes ~ Total of Both Directions
Total of 16 NYC Tolled Facilities



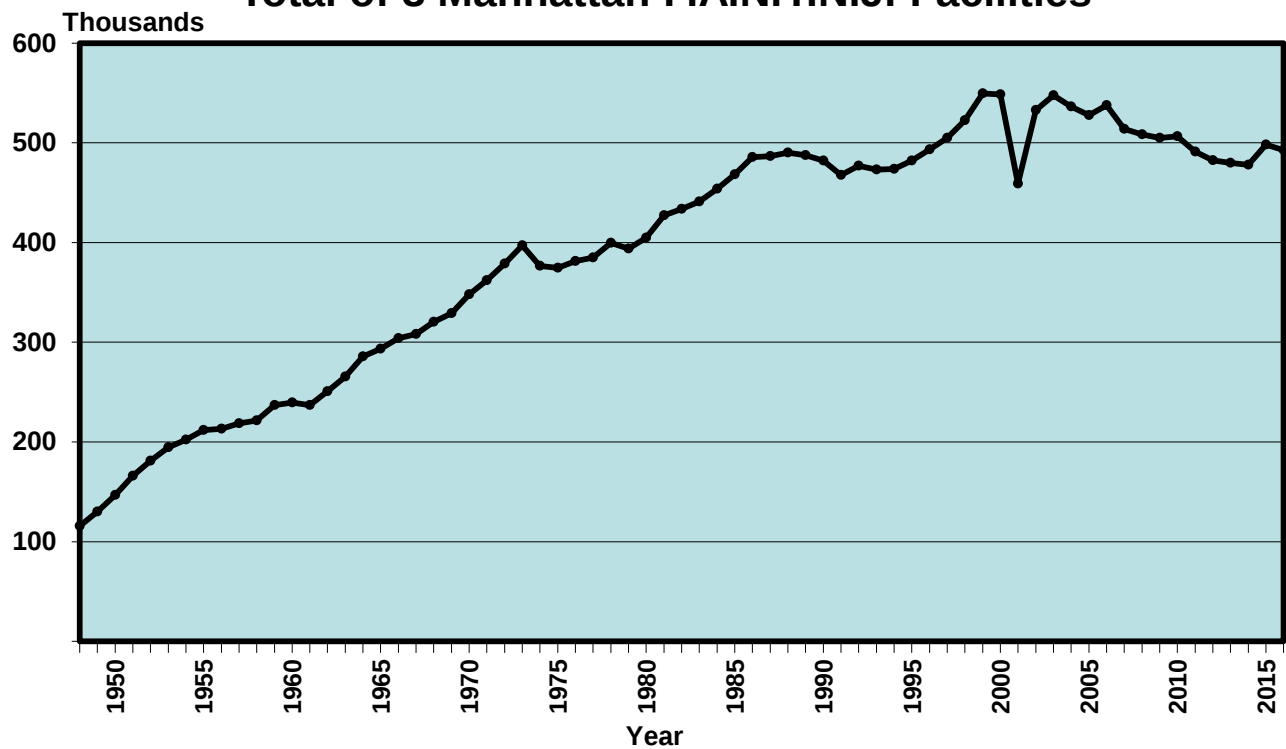
Average Daily Traffic Volumes ~ Total of Both Directions Total of 4 Manhattan M.T.A.B.T. Facilities



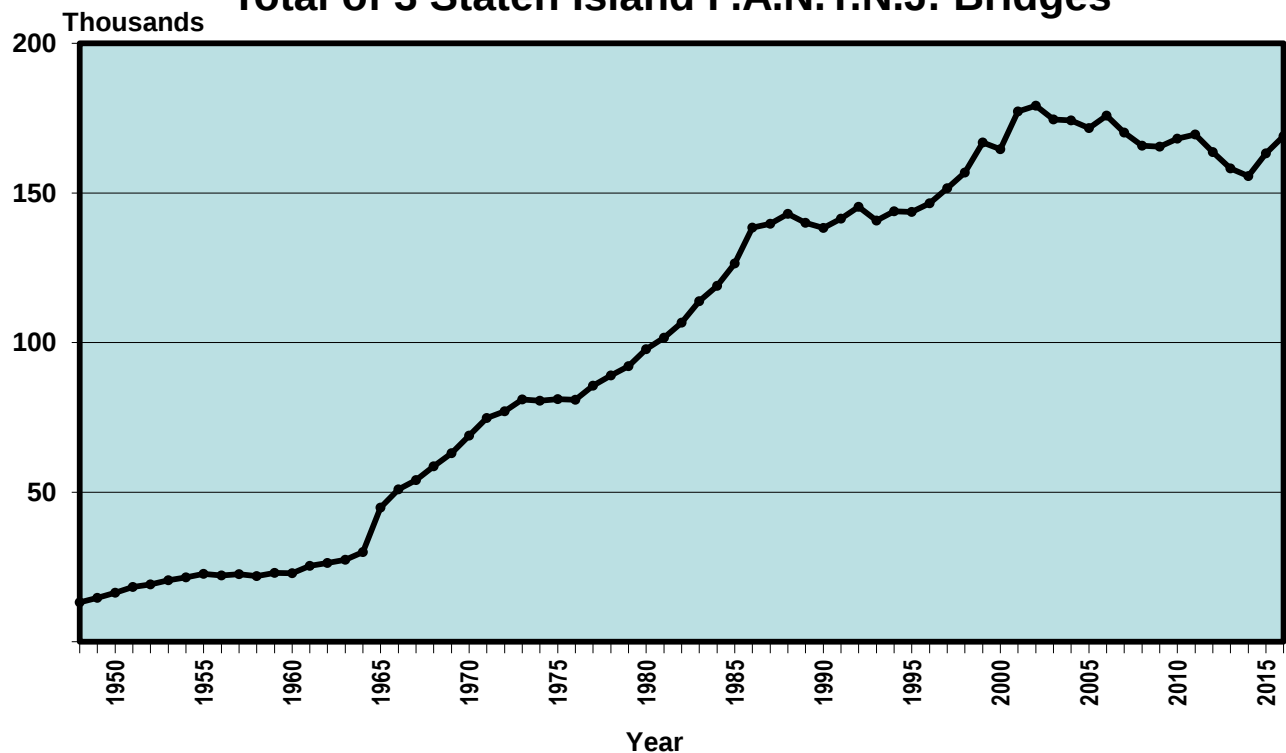
Average Daily Traffic Volumes ~ Total of Both Directions Total of 6 Outer Borough M.T.A.B.T. Bridges



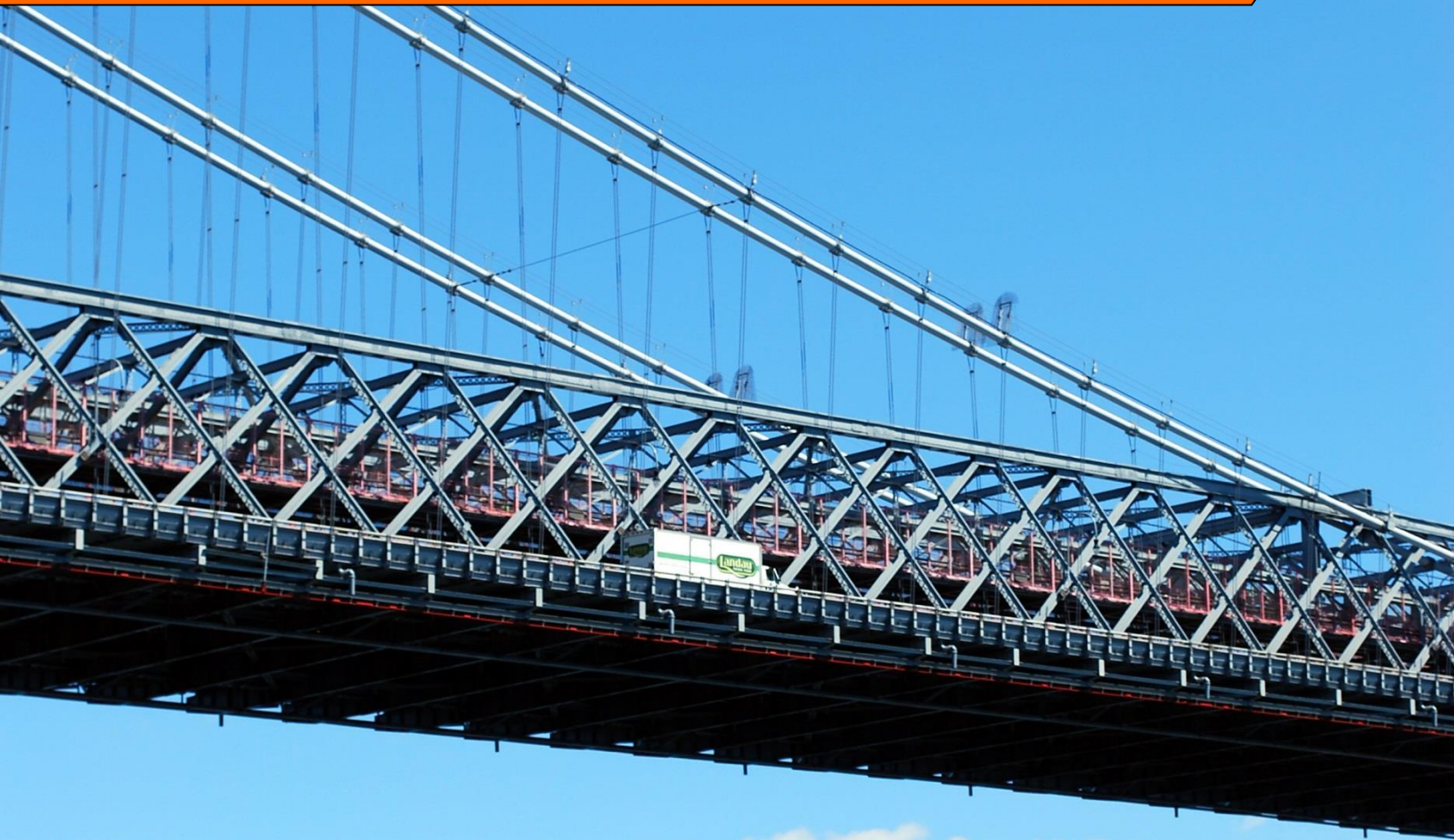
Average Daily Traffic Volumes ~ Total of Both Directions Total of 3 Manhattan P.A.N.Y.N.J. Facilities



Average Daily Traffic Volumes ~ Total of Both Directions Total of 3 Staten Island P.A.N.Y.N.J. Bridges



East River Bridges

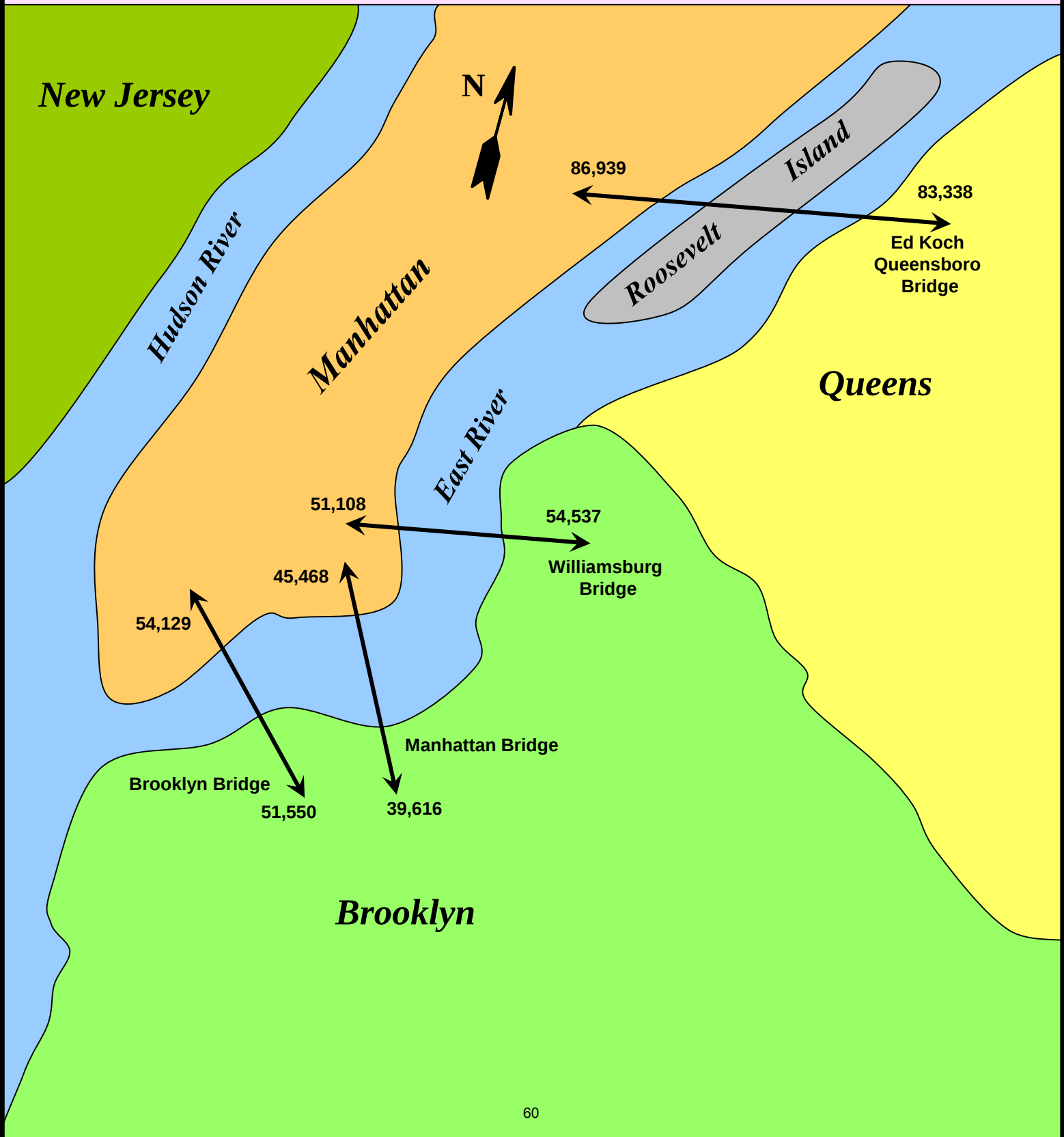


Williamsburg Bridge



East River Bridges

2016 Daily Volumes



East River Bridges
Average Daily Traffic Volumes
1948 - 2016

<i>Year</i>	<i>Brooklyn Bridge</i>	<i>Ed Koch Queensboro Bridge</i>	<i>Manhattan Bridge</i>	<i>Williamsburg Bridge</i>	<i>Totals</i>
1948	37,011	83,201	86,717	47,139	254,068
1949	37,244	88,821	80,420	54,448	260,933
1950	13,397	84,863	84,027	57,940	240,227
1951	14,865	90,922	100,826	62,739	269,352
1952	16,907	85,748	96,476	62,573	261,704
1953	14,513	106,391	94,320	77,502	292,726
1954	42,455	101,285	77,698	76,465	297,903
1955	53,964	91,958	66,968	80,743	293,633
1956	54,981	90,786	69,656	82,443	297,866
1957	23,852	93,676	89,793	89,707	297,028
1958	43,089	100,555	82,128	78,698	304,470
1959	53,115	103,522	74,329	81,465	312,431
1960	73,486	107,536	60,481	81,157	322,660
1961	68,997	104,505	62,797	80,514	316,813
1962	78,850	105,930	51,450	81,940	318,170
1963	78,770	116,350	58,510	80,250	333,880
1964	80,230	120,900	59,250	80,650	341,030
1965	84,141	117,588	71,222	80,567	353,518
1966	89,124	122,896	63,693	80,032	355,745
1967	87,387	124,033	75,741	65,775	352,936
1968	72,475	130,777	79,906	74,074	357,232
1969	97,565	132,553	75,473	73,825	379,416
1970	100,050	126,554	72,077	73,062	371,743
1971	102,535	120,555	68,681	72,299	364,070
1972	103,815	136,455	73,803	76,219	390,292
1973	102,834	138,066	73,401	79,989	394,290
1974	99,959	138,560	77,198	78,914	394,631
1975	103,750	144,252	74,320	82,057	404,379
1976	102,590	145,130	68,057	82,471	398,248
1977	104,532	146,283	64,835	82,490	398,140
1978	104,848	138,415	74,257	82,626	400,146
1979	91,319	133,966	75,403	81,340	382,028
1980	103,954	127,929	77,914	82,663	392,460
1981	102,572	127,864	79,589	85,100	395,125
1982	110,991	136,864	87,760	79,369	414,984
1983	115,825	125,158	85,222	86,947	413,152
1984	110,432	134,107	89,104	94,898	428,541
1985	116,929	150,892	100,825	107,386	476,032
1986	126,555	158,191	77,784	107,181	469,711
1987	123,523	151,688	77,519	107,362	460,092
1988	129,153	153,841	75,221	102,643	460,858
1989	131,951	152,591	68,593	107,967	461,102
1990	129,626	140,063	69,550	109,474	448,713
1991	128,491	131,438	72,695	115,345	447,969
1992	125,643	141,078	78,117	98,307	443,145
1993	134,793	135,964	74,526	86,591	431,874
1994	134,837	151,483	78,418	83,525	448,263
1995	131,883	157,306	75,126	100,588	464,903
1996	131,872	161,965	81,075	88,570	463,482
1997	147,898	184,179	83,209	96,124	511,410
1998	144,131	192,119	78,172	109,268	523,690
1999	127,065	189,190	92,311	107,941	516,507
2000	147,767	182,940	75,684	108,376	514,767
2001	95,586	176,469	73,064	82,202	427,321
2002	121,145	176,419	66,152	103,364	467,080
2003	134,444	184,964	73,767	100,243	493,418
2004	137,563	180,369	79,129	110,528	507,589
2005	132,210	178,610	80,363	107,030	498,213
2006	126,805	186,110	74,621	107,040	494,576
2007	131,551	181,365	73,205	110,545	496,666
2008	123,781	176,306	70,341	106,783	477,211
2009	125,021	180,162	71,936	108,194	485,313
2010	123,640	177,695	74,777	111,189	487,301
2011	105,820	183,401	85,392	103,590	478,203
2012	100,288	178,188	89,087	112,696	480,259
2013	102,542	171,556	87,375	115,674	477,147
2014	99,986	174,239	84,048	111,634	469,907
2015	102,219	174,447	87,046	105,206	468,918
2016	105,679	170,277	85,084	105,645	466,685

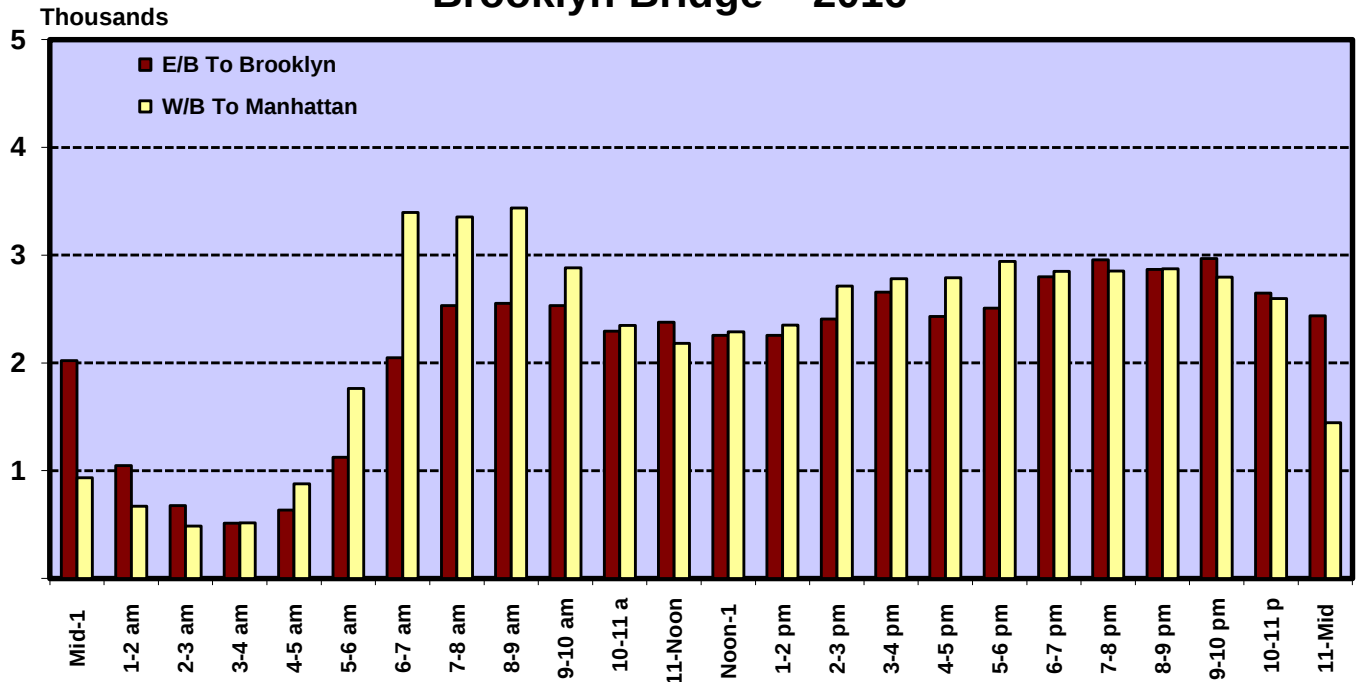
Hourly Vehicular Volumes Brooklyn Bridge - 2016

Eastbound to Brooklyn												Westbound to Manhattan												2-Way Grand Totals
Commuter Vans							Commuter Vans					Commuter Vans												
Autos & Motorcycles	Taxi	Commercial Vans Pickups	Buses	Single Unit Trucks	Tractor Trailers	Total Vehicles	Autos & Motorcycles	Taxi	Commercial Vans Pickups	Buses	Single Unit Trucks	Tractor Trailers	Total Vehicles	Autos & Motorcycles	Taxi	Commercial Vans Pickups	Buses	Single Unit Trucks	Tractor Trailers	Total Vehicles				
FHWA Classes ▶	1 & 2	2	3	4	5 - 7	8 - 13	1 & 2	2	3	4	5 - 7	8 - 13		1 & 2	2	3	4	5 - 7	8 - 13					
12-1am	1,611	385	22	0	4	0	2,022	676	233	22	0	3	0	934	2,956									
1-2am	770	262	14	0	0	0	1,046	648	132	19	0	2	0	669	1,715									
2-3am	506	160	11	0	0	0	677	470	86	15	0	2	0	487	1,164									
3-4am	405	100	9	0	0	0	514	483	71	33	0	0	0	516	1,030									
4-5am	528	96	11	0	1	0	636	852	84	22	1	4	0	879	1,515									
5-6am	1,064	44	14	0	3	0	1,125	1,719	145	32	9	4	0	1,764	2,889									
6-7am	1,954	72	18	3	0	0	2,047	3,308	284	56	30	2	0	3,396	5,443									
7-8am	2,345	125	35	27	1	0	2,533	3,235	382	90	26	3	0	3,354	5,887									
8-9am	2,256	195	54	48	0	0	2,553	3,293	330	133	10	3	0	3,439	5,992	**								
9-10am	2,196	269	38	26	3	0	2,532	2,738	271	139	3	3	0	2,883	5,415									
10-11am	2,005	253	32	4	0	0	2,294	2,236	177	104	6	3	0	2,349	4,643									
11-12am	2,112	210	55	2	0	0	2,379	2,065	192	114	2	0	0	2,181	4,560									
12-1pm	1,983	220	45	7	0	0	2,255	2,167	187	113	8	0	0	2,288	4,543									
1-2pm	1,979	223	48	2	3	0	2,255	2,244	177	87	16	4	0	2,351	4,606									
2-3pm	2,112	254	36	6	0	0	2,408	2,601	206	84	27	1	0	2,713	5,121									
3-4pm	2,295	305	29	29	0	0	2,658	2,697	223	68	14	3	0	2,782	5,440									
4-5pm	2,146	241	27	18	0	0	2,432	2,712	208	69	7	1	0	2,789	5,221									
5-6pm	2,330	149	26	3	0	0	2,508	2,877	299	62	2	1	0	2,942	5,450									
6-7pm	2,564	208	23	3	0	0	2,798	2,805	312	44	1	0	0	2,850	5,648									
7-8pm	2,649	293	14	1	0	0	2,957	2,804	294	47	1	0	0	2,852	5,809									
8-9pm	2,474	376	17	1	0	0	2,868	2,851	368	22	0	0	0	2,873	5,741									
9-10pm	2,378	563	27	0	0	0	2,968	2,751	443	42	0	3	0	2,796	5,764									
10-11pm	2,065	566	16	1	0	1	2,649	2,572	478	22	0	2	0	2,596	5,245									
11-12pm	1,941	485	10	0	0	0	2,436	1,428	335	15	0	3	0	1,446	3,882									
Totals	44,668		631	181	15	1	51,550	52,232	5,917	1,454	163	47	0	54,129	105,679									
7-10am	6,797		127	101	4	0	7,618	9,266		362	39	9	0	9,676	17,294									
10am-1pm	6,100		132	13	0	0	6,928	6,468		331	16	3	0	6,818	13,746									
1-4pm	6,386		113	37	3	0	7,321	7,542		239	57	8	0	7,846	15,167									
4-7pm	7,040		76	24	0	0	7,738	8,394		175	10	2	0	8,581	16,319									
7am-7pm	26,323		448	175	7	0	29,605	31,670		1,107	122	22	0	32,921	62,526									
6-10am	8,751		145	104	4	0	9,665	12,574		418	69	11	0	13,072	22,737									
3-7pm	9,335		105	53	0	0	10,396	11,091		243	24	5	0	11,363	21,759									
6am-7pm	28,277		466	178	7	0	31,652	34,978		1,163	152	24	0	36,317	67,969									

Based on March 2006 Classification Survey Data.

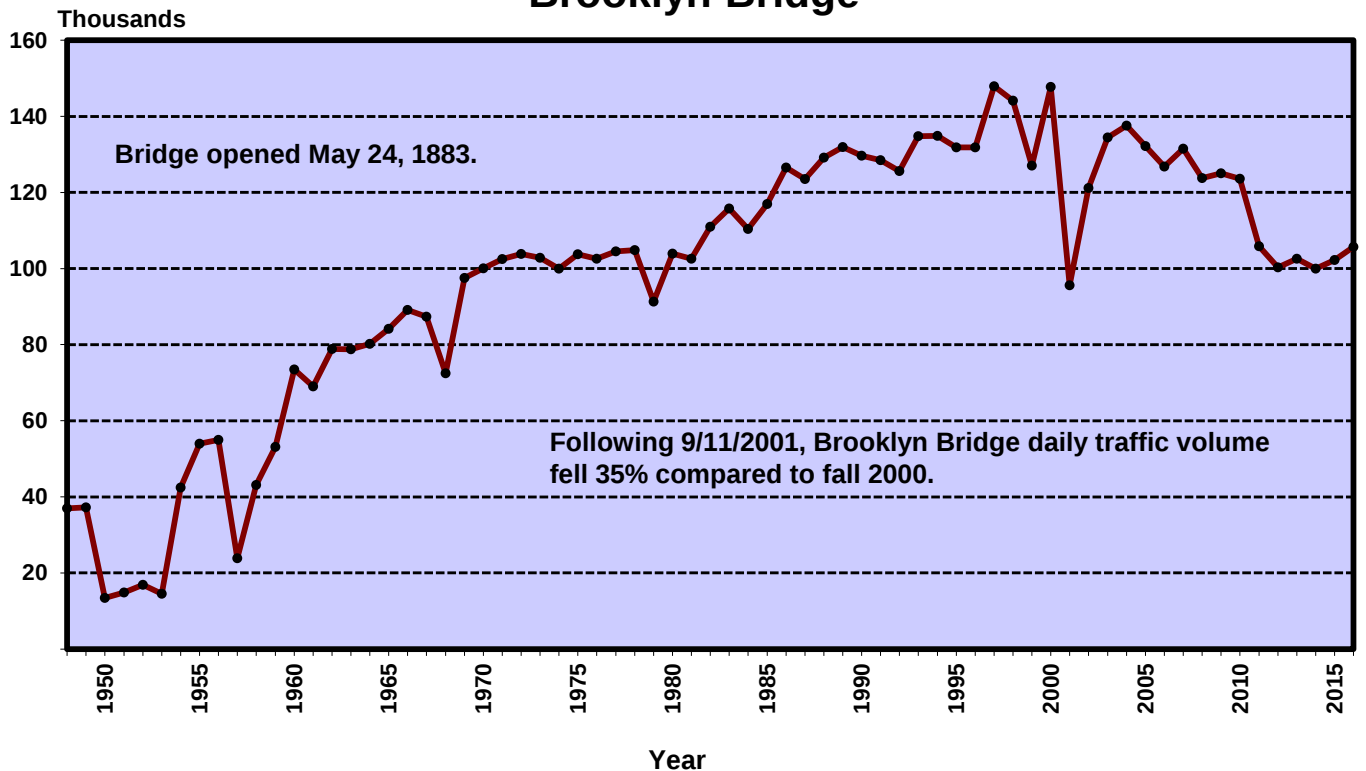
** Peak Volumes

Hourly Vehicular Volumes Brooklyn Bridge ~ 2016



Note: Bridge closed overnight Manhattan-bound for reconstruction during 2011, 2012, 2013, 2014, and 2015.

Average Daily Traffic Volumes ~ Total of Both Directions Brooklyn Bridge



Hourly Vehicular Volumes

Ed Koch Queensboro Bridge - 2016

Eastbound to Queens

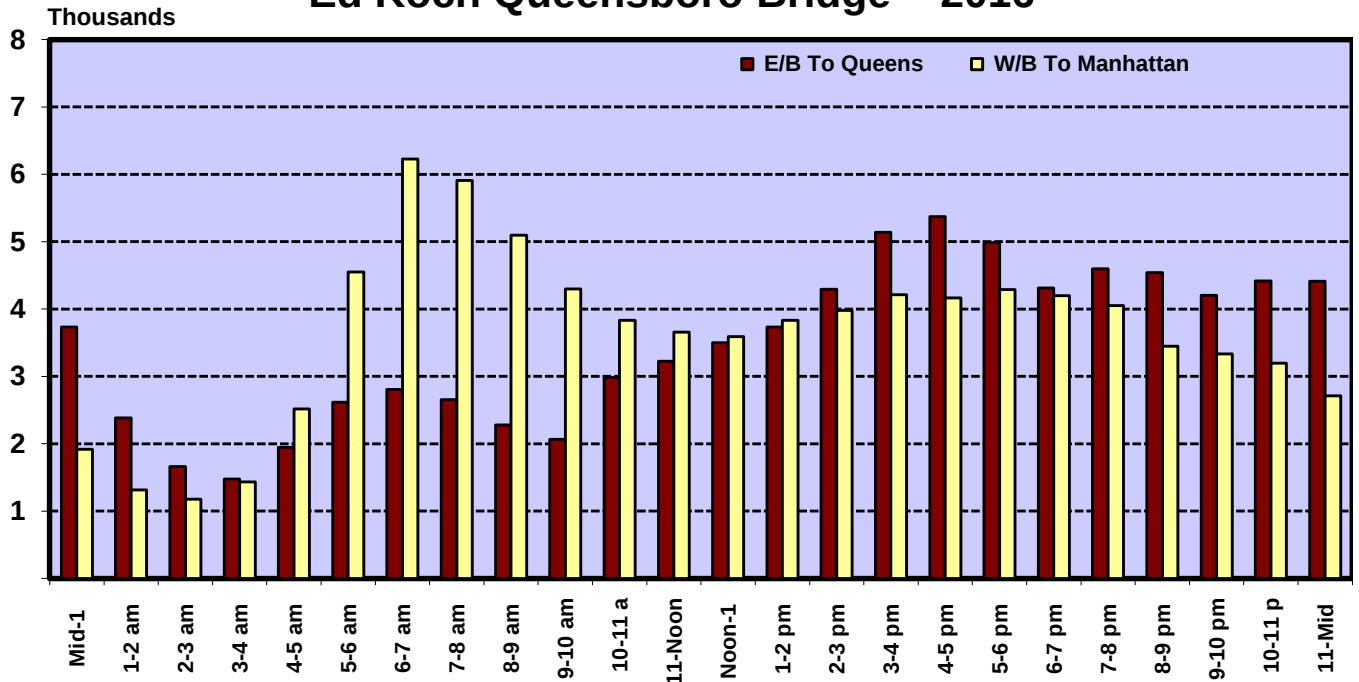
Westbound to Manhattan

FHWA Classes ►	Commercial Vans, Panel Trucks, Pickups,							Commercial Vans, Panel Trucks, Pickups,							2-Way Grand Totals
	Autos, Motorcycles	Taxis, Liveries, Limos	Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles	Autos, Motorcycles	Taxis, Liveries, Limos	Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles	
	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13		1, 2, 3	2	2 & 3	4	5 - 7	8 - 13		
12-1am	1,736	1,793	113	13	54	22	3,731	972	812	56	9	36	31	1,916	5,647
1-2am	845	1,367	76	13	43	41	2,385	537	624	69	6	37	40	1,313	3,698
2-3am	665	830	78	6	34	48	1,661	477	491	127	4	38	41	1,178	2,839
3-4am	646	628	105	3	31	61	1,474	603	495	224	4	60	48	1,434	2,908
4-5am	897	755	132	5	40	118	1,947	1,199	896	237	7	87	89	2,515	4,462
5-6am	1,757	572	151	4	53	79	2,616	2,463	1,549	276	11	181	70	4,550	7,166
6-7am	2,349	203	118	11	77	50	2,808	3,760	1,826	333	44	203	61	6,227	9,035
7-8am	2,227	169	114	45	89	10	2,654	2,967	1,854	767	55	237	31	5,911	8,565
8-9am	1,768	248	108	60	82	12	2,278	2,662	1,084	981	70	282	19	5,098	7,376
9-10am	1,464	302	128	56	103	11	2,064	2,301	731	950	26	263	27	4,298	6,362
10-11am	1,744	758	272	47	144	15	2,980	2,056	778	656	53	261	30	3,834	6,814
11-12am	1,868	809	348	34	144	22	3,225	1,960	892	557	21	188	41	3,659	6,884
12-1pm	2,191	681	416	34	162	17	3,501	1,878	982	499	29	157	44	3,589	7,090
1-2pm	2,373	728	390	41	187	16	3,735	2,146	1,013	436	40	165	31	3,831	7,566
2-3pm	2,463	1,030	551	40	193	15	4,292	2,351	1,047	378	42	128	35	3,981	8,273
3-4pm	2,993	1,147	721	54	211	15	5,141	2,607	1,115	351	20	98	21	4,212	9,353
4-5pm	3,069	1,409	676	61	152	5	5,372	2,476	1,330	258	24	60	17	4,165	9,537
5-6pm	3,554	755	475	90	109	5	4,988	2,489	1,516	191	22	64	8	4,290	9,278
6-7pm	3,238	630	287	81	72	4	4,312	2,711	1,196	190	30	54	16	4,197	8,509
7-8pm	3,384	827	252	65	46	24	4,598	2,977	792	167	37	54	26	4,053	8,651
8-9pm	3,142	1,084	208	31	55	23	4,543	2,501	720	131	31	49	15	3,447	7,990
9-10pm	2,680	1,302	135	31	37	20	4,205	2,326	792	119	11	70	17	3,335	7,540
10-11pm	2,710	1,462	128	40	60	17	4,417	2,151	850	99	13	52	29	3,194	7,611
11-12pm	2,661	1,558	100	23	41	28	4,411	1,703	860	67	9	42	31	2,712	7,123
Totals	52,424	21,047	6,082	888	2,219	678	83,338	50,273	24,245	8,119	618	2,866	818	86,939	170,277
7-10am	5,459	719	350	161	274	33	6,996	7,930	3,669	2,698	151	782	77	15,307	22,303
10am-1pm	5,803	2,248	1,036	115	450	54	9,706	5,894	2,652	1,712	103	606	115	11,082	20,788
1-4pm	7,829	2,905	1,662	135	591	46	13,168	7,104	3,175	1,165	102	391	87	12,024	25,192
4-7pm	9,861	2,794	1,438	232	333	14	14,672	7,676	4,042	639	76	178	41	12,652	27,324
7am-7pm	28,952	8,666	4,486	643	1,648	147	44,542	28,604	13,538	6,214	432	1,957	320	51,065	95,607
6-10am	7,808	922	468	172	351	83	9,804	11,690	5,495	3,031	195	985	138	21,534	31,338
3-7pm	12,854	3,941	2,159	286	544	29	19,813	10,283	5,157	990	96	276	62	16,864	36,677
6am-7pm	31,301	8,869	4,604	654	1,725	197	47,350	32,364	15,364	6,547	476	2,160	381	57,292	104,642

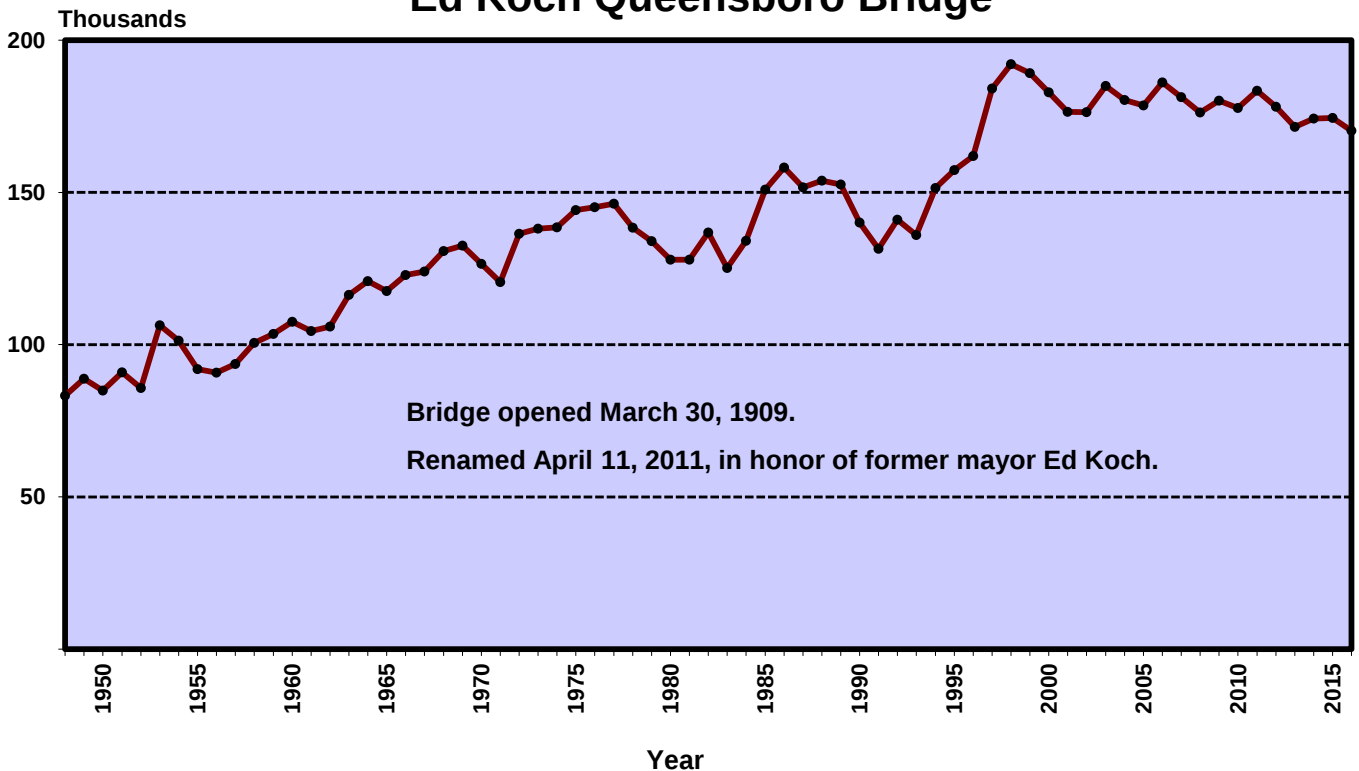
Based on October 2014 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Ed Koch Queensboro Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Ed Koch Queensboro Bridge



Hourly Vehicular Volumes

Manhattan Bridge - 2016

Eastbound to Brooklyn

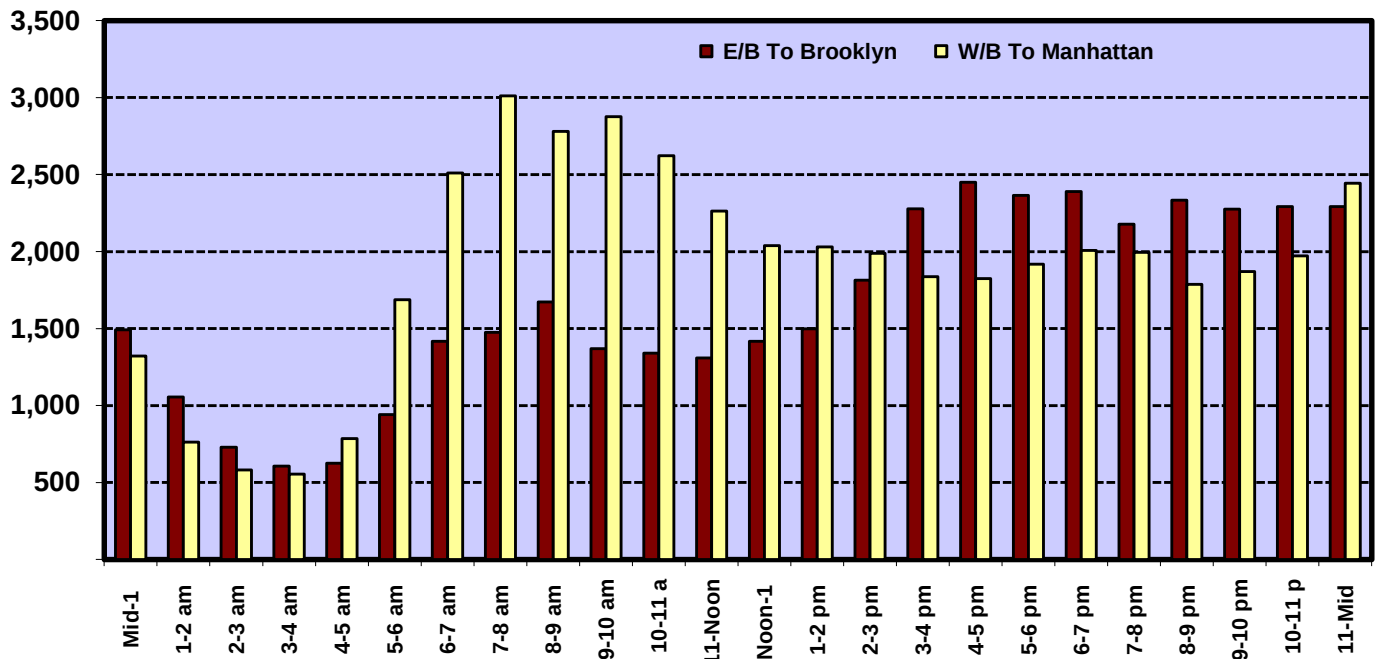
Westbound to Manhattan

FHWA Classes	Commercial Vans, Panel Trucks, Pickups,										Commercial Vans, Panel Trucks, Pickups,										2-Way Grand Totals		
	Autos, Motorcycles					Autos, Motorcycles					Autos, Motorcycles					Autos, Motorcycles							
	Family Vans	SUVs, Family Vans	Taxis, Liveries, Limos	Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles	Family Vans	SUVs, Family Vans	Taxis, Liveries, Limos	Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles	Family Vans	SUVs, Family Vans	Taxis, Liveries, Limos	Police, Fleet Vehicles		Buses	Single Unit Trucks
12-1am	910	478	53	9	25	17	1,492	769	476	30	2	32	13	1,322	2,814								
1-2am	581	377	55	13	14	15	1,055	402	290	40	1	22	8	763	1,818								
2-3am	403	226	44	6	31	18	728	326	188	24	3	25	16	582	1,310								
3-4am	308	191	53	5	29	21	607	312	139	43	2	39	20	555	1,162								
4-5am	360	128	60	2	50	25	625	536	142	49	2	29	27	785	1,410								
5-6am	639	85	67	15	110	24	940	1,262	190	112	18	67	38	1,687	2,627								
6-7am	997	71	165	27	101	55	1,416	1,531	230	368	127	170	85	2,511	3,927								
7-8am	1,020	61	206	18	107	64	1,476	1,808	244	581	102	199	77	3,011	4,487								
8-9am	1,080	94	240	63	138	58	1,673	1,604	155	607	51	261	103	2,781	4,454								
9-10am	821	120	228	34	121	45	1,369	1,647	191	631	51	296	61	2,877	4,246								
10-11am	830	102	243	21	105	39	1,340	1,493	152	549	31	297	100	2,622	3,962								
11-12am	940	84	138	51	75	21	1,309	1,339	124	429	39	244	87	2,262	3,571								
12-1pm	1,017	87	169	32	97	15	1,417	1,202	112	400	51	215	59	2,039	3,456								
1-2pm	917	88	320	23	129	22	1,499	1,198	103	375	98	188	68	2,030	3,529								
2-3pm	1,188	120	320	20	133	34	1,815	1,262	111	342	51	171	51	1,988	3,803								
3-4pm	1,454	167	421	74	131	30	2,277	1,255	106	302	23	119	32	1,837	4,114								
4-5pm	1,580	200	498	60	94	19	2,451	1,336	108	221	25	120	15	1,825	4,276								
5-6pm	1,734	133	355	27	103	13	2,365	1,387	168	251	20	74	18	1,918	4,283								
6-7pm	1,774	201	272	56	66	21	2,390	1,484	279	152	17	63	12	2,007	4,397								
7-8pm	1,627	245	174	77	51	4	2,178	1,452	285	145	32	62	18	1,994	4,172								
8-9pm	1,688	373	127	82	39	24	2,333	1,267	319	102	36	49	13	1,786	4,119								
9-10pm	1,570	499	96	53	33	25	2,276	1,265	411	85	34	36	39	1,870	4,146								
10-11pm	1,484	618	106	59	21	5	2,293	1,289	568	57	12	32	15	1,973	4,266								
11-12pm	1,496	652	85	19	28	12	2,292	1,508	853	53	3	17	9	2,443	4,735								
Totals	26,418	5,400	4,495	846	1,831	626	39,616	28,934	5,944	5,948	831	2,827	984	45,468	85,084								
7-10am	2,921	275	674	115	366	167	4,518	5,059	590	1,819	204	756	241	8,669	13,187								
10am-1pm	2,787	273	550	104	277	75	4,066	4,034	388	1,378	121	756	246	6,923	10,989								
1-4pm	3,559	375	1,061	117	393	86	5,591	3,715	320	1,019	172	478	151	5,855	11,446								
4-7pm	5,088	534	1,125	143	263	53	7,206	4,207	555	624	62	257	45	5,750	12,956								
7am-7pm	14,355	1,457	3,410	479	1,299	381	21,381	17,015	1,853	4,840	559	2,247	683	27,197	48,578								
6-10am	3,918	346	839	142	467	222	5,934	6,590	820	2,187	331	926	326	11,180	17,114								
3-7pm	6,542	701	1,546	217	394	83	9,483	5,462	661	926	85	376	77	7,587	17,070								
6am-7pm	15,352	1,528	3,575	506	1,400	436	22,797	18,546	2,083	5,208	686	2,417	768	29,708	52,505								

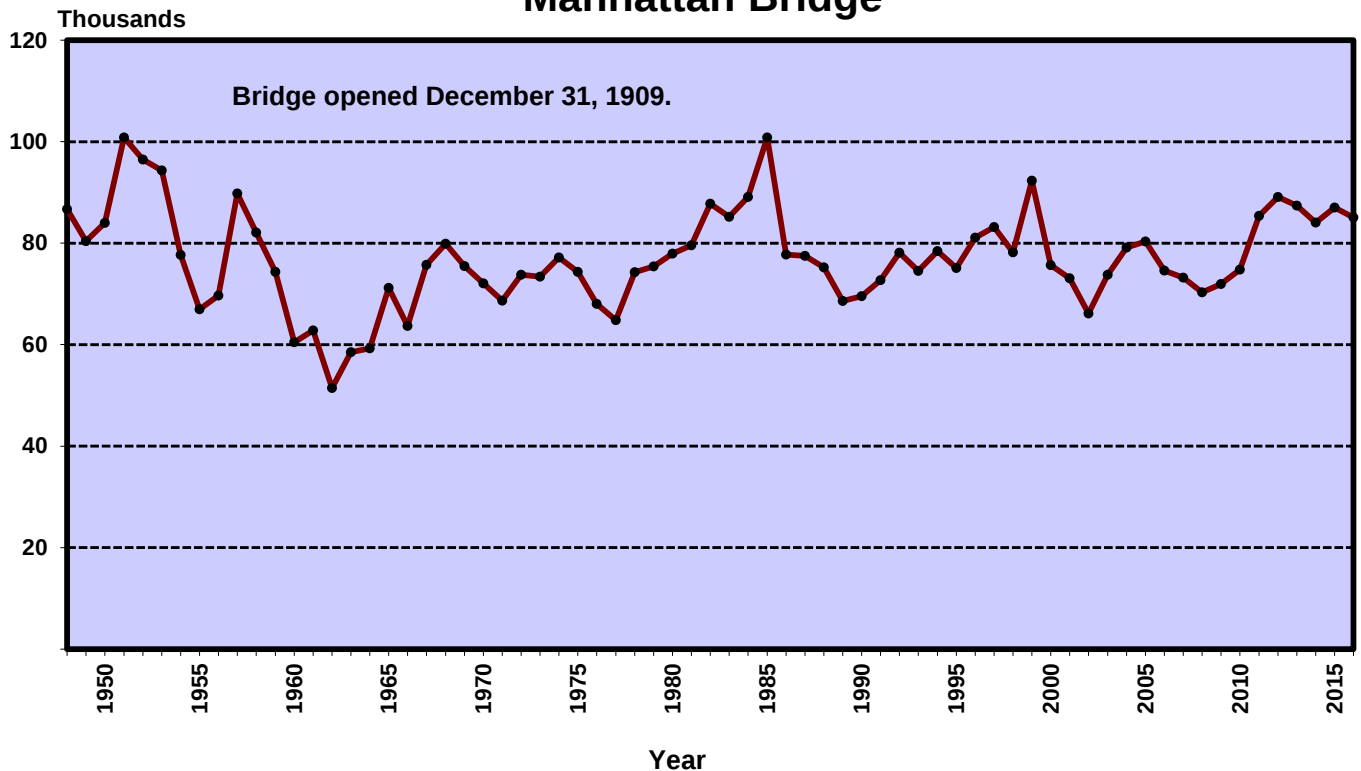
Based on October 2015 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Manhattan Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Manhattan Bridge



Hourly Vehicular Volumes

Williamsburg Bridge - 2016

Eastbound to Brooklyn

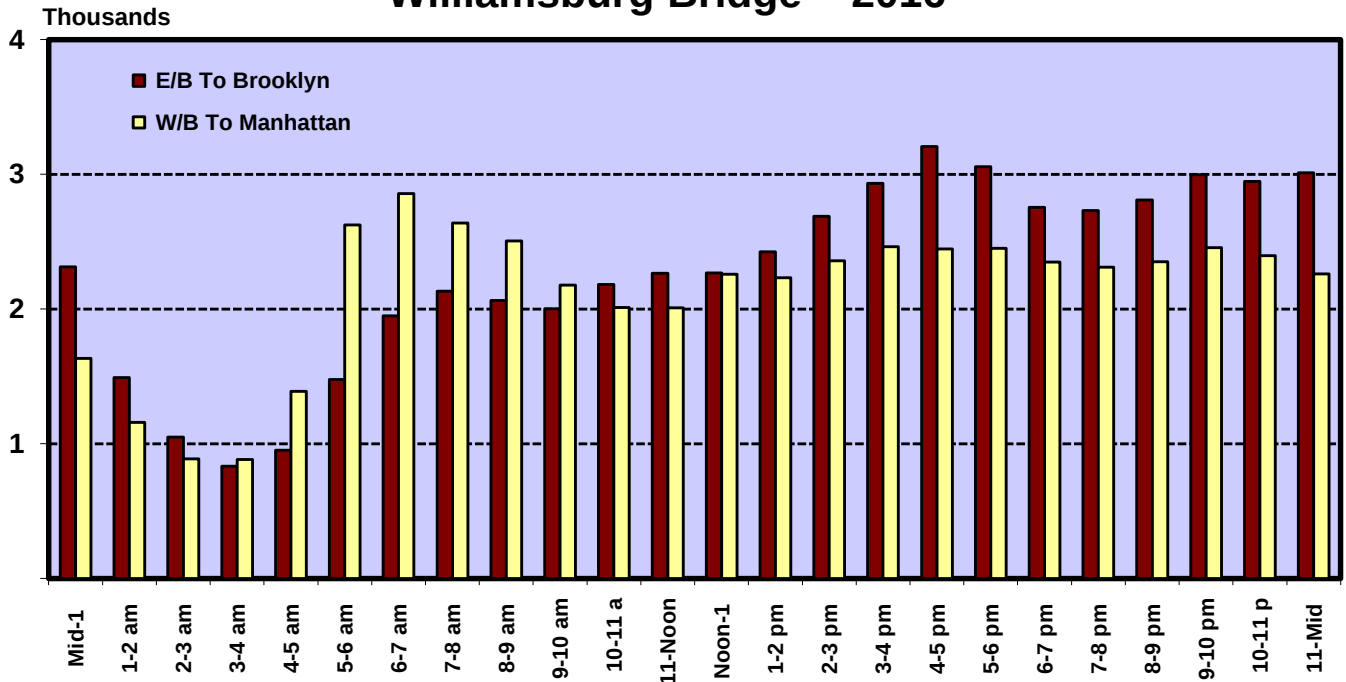
FHWA Classes ▶	Commercial Vans, Panel Trucks, Pickups,												Autos, Motorcycles		
	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13	Multiple Unit Trucks	Single Unit Trucks	Buses	Fleet Vehicles	Police, Fleet Vehicles	Taxis, Liveries, Limos			
12-1am	1,406	793	83	2	28	2	2	28	2	83	2	793			
1-2am	854	544	62	3	23	5	5	23	3	62	3	544			
2-3am	575	396	51	7	19	1	1	19	7	51	7	396			
3-4am	404	359	38	8	22	1	1	22	8	38	8	359			
4-5am	481	371	52	6	40	1	1	40	6	52	6	371			
5-6am	857	405	124	4	83	4	4	83	4	124	4	405			
6-7am	1,279	372	213	7	71	7	7	71	7	213	7	372			
7-8am	1,369	419	225	21	94	5	5	94	21	225	21	419			
8-9am	1,302	322	247	49	134	10	10	134	49	247	49	322			
9-10am	1,213	317	276	43	140	13	13	140	43	276	43	317			
10-11am	1,286	340	341	26	178	12	12	178	26	341	26	340			
11-12am	1,457	291	314	15	182	6	6	182	15	314	15	291			
12-1pm	1,482	337	257	13	172	6	6	172	13	257	13	337			
1-2pm	1,677	316	252	9	164	6	6	164	9	252	9	316			
2-3pm	1,814	440	237	9	186	2	2	186	9	237	9	440			
3-4pm	1,886	543	273	36	188	6	6	188	36	273	36	543			
4-5pm	2,188	489	307	35	185	2	2	185	35	307	35	489			
5-6pm	2,152	577	193	12	119	3	3	119	12	193	12	577			
6-7pm	1,737	818	102	12	86	1	1	86	12	102	12	818			
7-8pm	1,488	1,073	92	11	66	2	2	66	11	92	11	1,073			
8-9pm	1,529	1,155	83	7	34	2	2	34	7	83	7	1,155			
9-10pm	1,664	1,230	50	13	39	1	1	39	13	50	13	1,230			
10-11pm	1,617	1,207	82	2	35	4	4	35	2	82	2	1,207			
11-12pm	1,690	1,233	45	4	38	2	2	38	4	45	4	1,233			
Totals	33,407	14,347	3,999	354	2,326	104	104	2,326	354	3,999	354	14,347			

7-10am	3,884	1,058	748	113	368	28	6,199	4,257	787	1,372	74	781	51	1,372	74	781	1,372	74	781	781	1	781	51	51	7,322	13,521	
10am-1pm	4,225	968	912	54	532	24	6,715	4,079	977	757	41	403	23	757	41	403	757	41	403	403	1	403	23	23	6,280	12,995	
1-4pm	5,377	1,299	762	54	538	14	8,044	5,083	931	598	64	347	31	598	64	347	598	64	347	347	1	347	31	31	7,054	15,098	
4-7pm	6,077	1,894	602	59	390	6	9,018	5,085	1,615	350	32	154	8	350	32	154	350	32	154	154	1	154	8	8	7,244	16,262	
7am-7pm	19,563	5,209	3,024	280	1,828	72	29,976	18,504	4,310	3,077	211	1,685	113	3,077	211	1,685	3,077	211	1,685	1,685	1	1,685	113	113	27,900	57,876	
6-10am	5,163	1,430	961	120	439	35	8,148	6,055	1,192	1,670	139	1,032	91	1,670	139	1,032	1,670	139	1,032	1,032	1	1,032	91	91	10,179	18,327	
3-7pm	7,963	2,427	875	95	578	12	11,950	6,962	1,932	513	48	240	12	513	48	240	513	48	240	240	1	240	12	12	9,707	21,657	
6am-7pm	20,842	5,581	3,237	287	1,899	79	31,925	20,302	4,715	3,375	276	1,936	153	3,375	276	1,936	3,375	276	1,936	1,936	1	1,936	153	153	30,757	62,682	

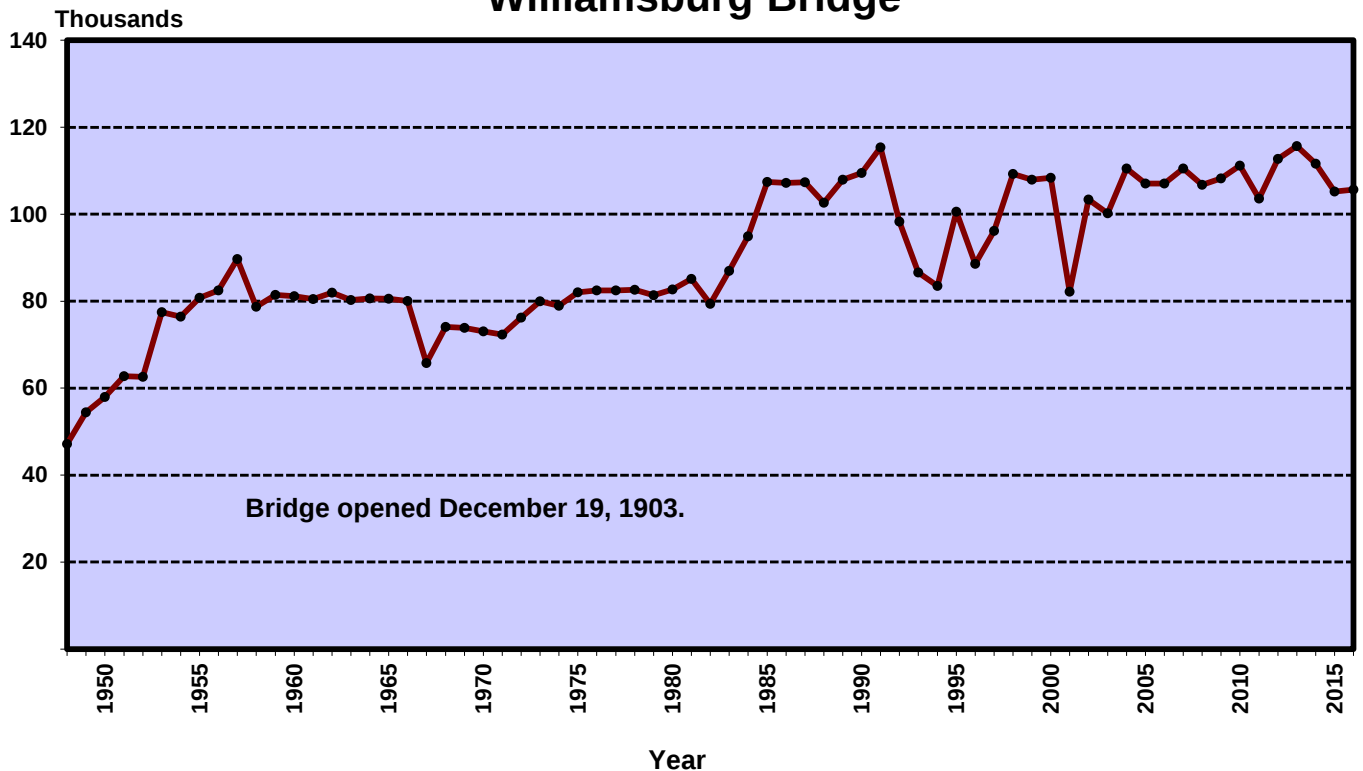
Based on October 2015 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Williamsburg Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Williamsburg Bridge



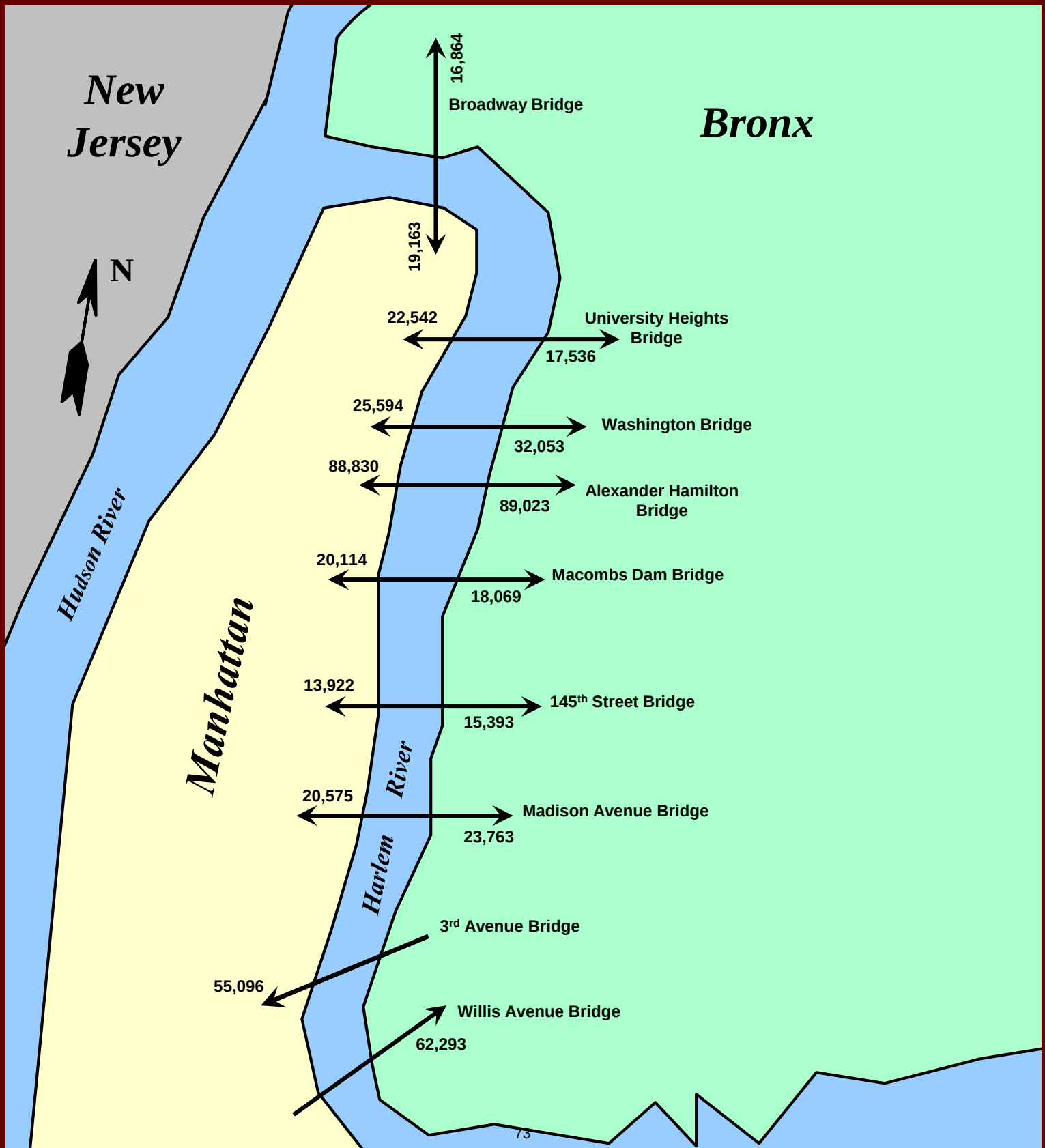
Harlem River Bridges



Willis Avenue Bridge

Harlem River Bridges

2016 Daily Volumes



Harlem River Bridges
Average Daily Traffic Volumes
1948 - 2016

Year	Alexander Hamilton	Broadway	Macombs Dam	Madison Avenue	Third Avenue
1948		16,020	33,608	27,222	31,403
1949		17,369	23,854	17,363	20,024
1950		15,462	28,641	27,933	34,984
1951	<i>Bridge Opened Jan. 1963</i>	16,374	31,072	33,576	51,478
1952		17,412	36,100	27,468	34,023
1953		16,821	35,331	24,382	37,593
1954		15,958	27,911	23,408	33,667
1955		17,046	27,914	34,681	38,201
1956		17,960	32,761	46,591	42,735
1957		20,345	55,609	40,860	47,269
1958		22,132	50,227	33,393	61,367
1959		25,491	48,720	27,967	56,525
1960		23,025	50,865	22,541	68,079
1961		21,097	32,447	28,375	61,584
1962		19,170	39,580	25,400	53,580
1963		23,110	43,450	27,090	63,840
1964	87,840	25,020	31,050	31,170	63,250
1965	125,133	17,555	37,451	26,315	55,644
1966	104,559	22,438	39,922	28,865	70,938
1967	135,803	22,844	35,595	27,683	52,931
1968	92,771	23,621	33,875	27,658	41,243
1969	132,487	22,224	38,845	28,219	57,748
1970	141,609	23,115	46,523	24,941	48,110
1971	137,881	28,232	40,489	28,891	50,548
1972	142,139	25,178	39,702	26,923	47,454
1973	137,133	24,408	38,349	34,815	60,415
1974	144,909	21,825	40,934	30,425	54,770
1975	134,013	30,638	38,995	29,823	62,079
1976	137,141	26,453	36,065	27,838	54,957
1977	158,710	26,465	33,539	29,832	52,969
1978	151,342	25,145	35,764	34,938	54,177
1979	143,973	27,673	37,145	29,036	54,428
1980	152,852	29,838	37,464	27,476	54,152
1981	148,609	30,485	42,064	29,456	51,483
1982	156,038	30,846	45,178	30,485	60,236
1983	161,772	29,875	42,747	30,715	67,813
1984	164,734	28,338	46,870	33,101	56,706
1985	171,602	33,086	52,497	37,956	59,907
1986	175,635	32,314	50,602	39,809	64,404
1987	180,908	31,934	48,021	31,506	62,089
1988	172,970	33,047	43,318	31,321	62,379
1989	183,661	35,066	43,450	31,688	64,849
1990	192,848	41,705	41,113	32,458	63,516
1991	187,309	40,444	42,393	34,826	65,787
1992	176,279	35,184	42,022	32,907	66,967
1993	180,507	33,752	39,251	32,432	68,812
1994	178,522	32,833	39,876	22,923	66,104
1995	175,279	42,555	41,571	22,739	68,663
1996	176,856	40,040	40,031	17,948	67,206
1997	176,102	34,645	44,033	28,646	71,365
1998	176,632	35,770	42,027	32,922	70,757
1999	180,201	35,412	41,813	38,102	68,544
2000	177,899	37,990	21,008	47,583	73,121
2001	168,605	41,175	39,615	43,331	72,756
2002	168,079	38,287	18,878	49,487	58,949
2003	182,704	36,888	42,254	41,575	43,065
2004	175,323	35,190	40,558	48,723	47,053
2005	181,566	35,698	40,112	48,397	60,152
2006	190,183	33,551	39,878	43,805	61,874
2007	192,651	35,523	40,749	44,663	59,712
2008	189,598	33,266	38,897	41,740	58,510
2009	191,646	35,566	39,508	43,480	59,039
2010	192,213	37,292	39,627	42,966	60,549
2011	182,174	35,770	44,311	41,423	59,603
2012	185,309	35,411	39,020	41,782	59,053
2013	188,417	35,462	38,930	47,046	60,120
2014	178,809	34,239	38,417	41,340	58,447
2015	178,407	33,897	38,556	40,432	55,988
2016	177,853	36,027	38,183	44,338	55,096

Harlem River Bridges (cont'd)
Average Daily Traffic Volumes
1948 - 2016

<i>Year</i>	<i>University Heights</i>	<i>Washington</i>	<i>Willis Avenue</i>	<i>145th Street</i>	<i>Totals</i>	<i>Year</i>
1948	21,706	29,374	29,648	18,196	207,177	1948
1949	14,098	32,122	42,772	25,908	193,510	1949
1950	24,986	29,541	38,708	22,416	222,671	1950
1951	25,270	28,599	35,958	26,872	249,199	1951
1952	21,527	28,270	33,207	24,189	222,196	1952
1953	29,240	37,298	38,579	29,385	248,629	1953
1954	22,979	39,339	46,675	26,119	236,056	1954
1955	18,151	33,988	44,809	35,449	250,239	1955
1956	21,834	30,598	43,752	30,550	266,781	1956
1957	34,077	38,861	51,395	28,114	316,530	1957
1958	37,078	50,100	49,773	25,677	329,747	1958
1959	33,580	51,652	58,705	39,709	342,349	1959
1960	36,763	54,008	59,050	30,868	345,199	1960
1961	43,749	61,542	50,902	33,767	333,463	1961
1962	35,940	56,110	55,910	27,540	313,230	1962
1963	26,030	32,760	65,290	27,520	309,090	1963
1964	31,490	41,410	65,190	31,260	407,680	1964
1965	23,458	35,560	53,219	26,924	401,259	1965
1966	25,700	31,104	53,677	25,284	402,487	1966
1967	26,990	33,921	69,609	22,368	427,744	1967
1968	26,126	35,218	58,730	22,853	362,095	1968
1969	29,941	19,136	60,192	24,200	412,992	1969
1970	26,718	33,661	61,433	23,580	429,690	1970
1971	29,622	38,522	53,609	24,401	432,195	1971
1972	31,620	36,812	49,431	23,105	422,364	1972
1973	33,503	46,079	51,537	23,431	449,670	1973
1974	29,297	42,014	53,322	21,616	439,112	1974
1975	29,111	41,522	52,984	21,189	440,354	1975
1976	34,494	39,058	53,873	19,750	429,629	1976
1977	29,128	38,185	52,484	20,888	442,200	1977
1978	35,883	37,690	54,335	21,484	450,758	1978
1979	31,796	37,348	44,851	21,566	427,816	1979
1980	32,562	38,061	52,061	21,826	446,292	1980
1981	34,454	38,061	52,561	21,150	448,323	1981
1982	25,416	44,168	55,762	22,656	470,785	1982
1983	32,233	42,186	60,296	23,516	491,153	1983
1984	30,485	46,896	66,017	23,802	496,949	1984
1985	37,553	51,302	65,638	28,722	538,263	1985
1986	36,192	54,935	66,824	26,181	546,896	1986
1987	37,223	46,094	67,558	24,895	530,228	1987
1988	38,542	48,025	64,862	25,818	520,282	1988
1989	42,246	49,092	66,012	23,317	539,381	1989
1990	19,768	61,668	62,315	24,172	539,563	1990
1991	18,220	57,526	60,415	26,448	533,368	1991
1992	39,232	51,925	66,522	26,315	537,353	1992
1993	38,895	52,795	70,472	25,390	542,306	1993
1994	38,134	57,009	67,344	23,299	526,044	1994
1995	21,238	56,372	67,716	25,749	521,882	1995
1996	35,280	56,204	70,229	27,156	530,950	1996
1997	39,639	54,708	73,461	24,151	546,750	1997
1998	41,640	57,307	78,145	24,862	560,062	1998
1999	42,287	58,907	71,555	26,361	563,182	1999
2000	45,557	68,075	73,175	34,362	578,770	2000
2001	46,381	57,443	72,901	26,552	568,759	2001
2002	45,311	63,609	73,435	35,796	551,831	2002
2003	50,126	63,154	66,710	23,034	549,510	2003
2004	47,350	57,530	74,700	25,994	552,421	2004
2005	44,938	58,019	66,708	25,802	561,392	2005
2006	42,118	57,689	66,212	21,733	557,043	2006
2007	41,422	56,945	65,113	21,147	557,925	2007
2008	39,340	52,768	62,167	23,148	539,434	2008
2009	39,165	52,420	58,548	24,364	543,736	2009
2010	39,230	52,014	56,934	28,749	549,574	2010
2011	43,601	52,373	57,710	27,677	544,642	2011
2012	39,641	57,011	62,062	27,918	547,207	2012
2013	40,774	54,031	65,216	28,167	558,163	2013
2014	37,791	52,537	67,951	28,357	537,888	2014
2015	38,513	54,006	63,912	27,097	530,808	2015
2016	40,078	57,647	62,293	29,315	540,830	2016

Hourly Vehicular Volumes

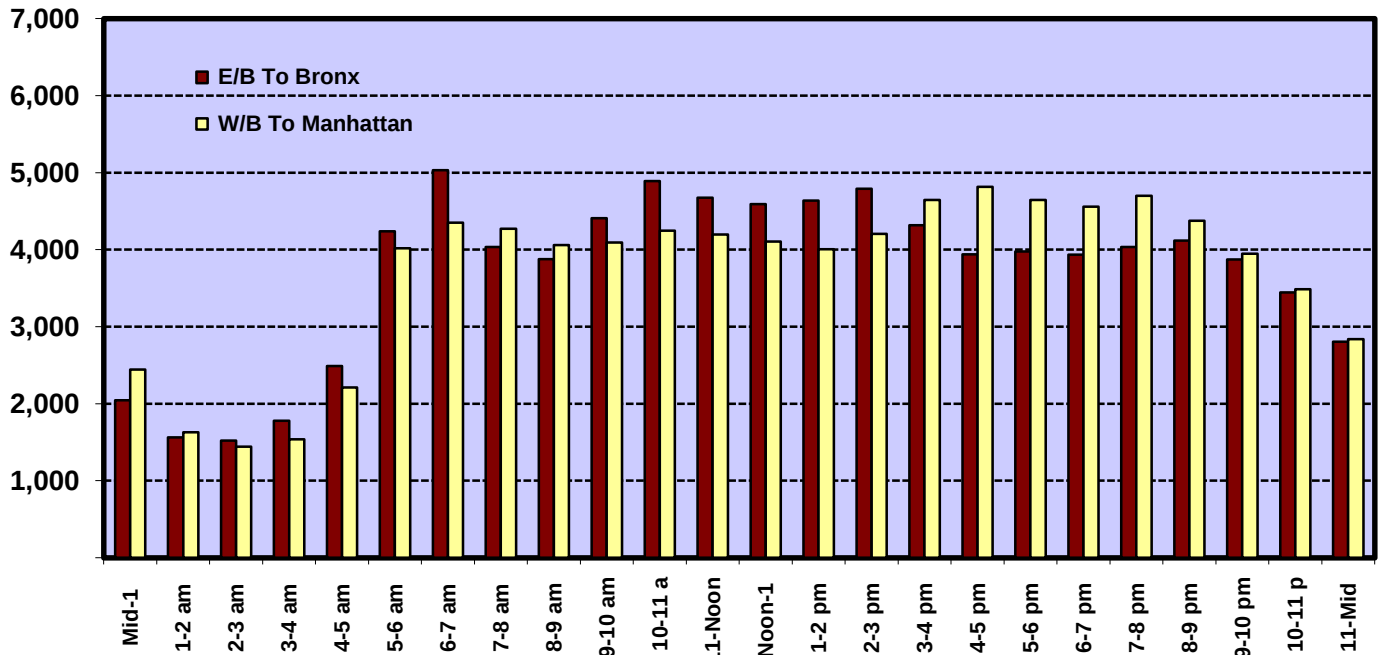
Alexander Hamilton Bridge - 2016

Eastbound to Bronx								Westbound to Manhattan								2-way Grand Totals
FHWA Classes ▶	Commercial Vans,							Commercial Vans,								
	Autos, Motorcycles SUVs, Family Vans	Taxis, Liveries, Limos	Panel Trucks, Pickups, Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles	Autos, Motorcycles SUVs, Family Vans	Taxis, Liveries, Limos	Panel Trucks, Pickups, Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles		
	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13		1, 2, 3	2	2 & 3	4	5 - 7	8 - 13			
12-1am	1,466	77	40	4	75	382	2,044	1,790	17	67	17	64	488	2,443	4,487	
1-2am	924	65	24	3	69	477	1,562	999	25	65	7	70	462	1,628	3,190	
2-3am	723	42	27	0	120	607	1,519	705	13	43	3	48	629	1,441	2,960	
3-4am	684	54	40	2	230	768	1,778	588	0	46	3	93	809	1,539	3,317	
4-5am	1,231	71	98	0	253	838	2,491	1,122	21	98	0	186	785	2,212	4,703	
5-6am	2,503	24	115	3	187	1,406	4,238	2,426	51	144	0	381	1,016	4,018	8,256	
6-7am	3,518	9	300	1	85	1,121	5,034 **	3,210	34	229	46	159	673	4,351	9,385 **	
7-8am	3,113	17	235	16	277	375	4,033	3,281	55	282	36	236	381	4,271	8,304	
8-9am	2,838	40	256	29	349	365	3,877	3,123	34	184	22	266	429	4,058	7,935	
9-10am	3,158	26	347	40	379	461	4,411	2,924	34	152	18	374	592	4,094	8,505	
10-11am	3,544	15	316	16	500	502	4,893	2,717	29	291	21	444	745	4,247	9,140	
11-12am	3,326	87	300	8	464	491	4,676	2,656	26	223	23	348	921	4,197	8,873	
12-1pm	3,312	80	281	24	412	484	4,593	2,579	38	221	26	384	856	4,104	8,697	
1-2pm	3,571	44	280	28	327	387	4,637	2,629	29	239	39	295	775	4,006	8,643	
2-3pm	3,866	42	233	23	326	302	4,792	2,919	57	221	27	280	702	4,206	8,998	
3-4pm	3,404	63	213	33	291	315	4,319	3,441	43	303	14	239	605	4,645	8,964	
4-5pm	3,183	42	202	52	232	227	3,938	3,740	32	275	13	224	533	4,817 **	8,755	
5-6pm	3,211	35	296	20	172	242	3,976	3,877	37	163	3	167	399	4,646	8,622	
6-7pm	3,343	7	140	7	147	293	3,937	3,959	16	123	2	111	347	4,558	8,495	
7-8pm	3,369	36	121	29	154	324	4,033	3,985	21	132	7	118	436	4,699	8,732	
8-9pm	3,454	58	96	10	172	327	4,117	3,667	27	136	5	103	439	4,377	8,494	
9-10pm	3,122	84	108	4	102	454	3,874	3,281	29	99	0	86	451	3,946	7,820	
10-11pm	2,876	49	71	0	56	394	3,446	2,952	38	107	8	79	303	3,487	6,933	
11-12pm	2,391	75	38	0	50	251	2,805	2,056	27	90	11	86	570	2,840	5,645	
Totals	66,130	1,142	4,177	352	5,429	11,793	89,023	64,626	733	3,933	351	4,841	14,346	88,830	177,853	
7-10am	9,109	83	838	85	1,005	1,201	12,321	9,328	123	618	76	876	1,402	12,423	24,744	
10am-1pm	10,182	182	897	48	1,376	1,477	14,162	7,952	93	735	70	1,176	2,522	12,548	26,710	
1-4pm	10,841	149	726	84	944	1,004	13,748	8,989	129	763	80	814	2,082	12,857	26,605	
4-7pm	9,737	84	638	79	551	762	11,851	11,576	85	561	18	502	1,279	14,021	25,872	
7am-7pm	39,869	498	3,099	296	3,876	4,444	52,082	37,845	430	2,677	244	3,368	7,285	51,849	103,931	
6-10am	12,627	92	1,138	86	1,090	2,322	17,355	12,538	157	847	122	1,035	2,075	16,774	34,129	
3-7pm	13,141	147	851	112	842	1,077	16,170	15,017	128	864	32	741	1,884	18,666	34,836	
6am-7pm	43,387	507	3,399	297	3,961	5,565	57,116	41,055	464	2,906	290	3,527	7,958	56,200	113,316	

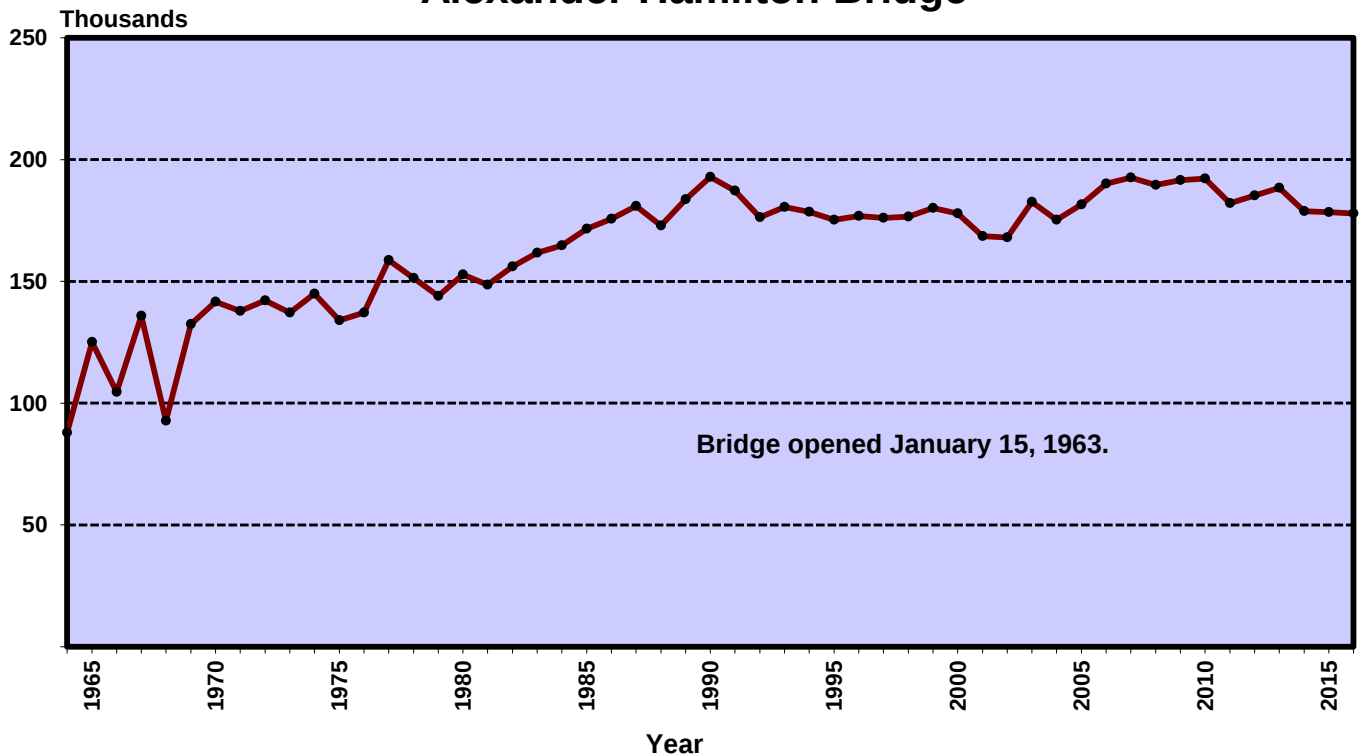
Based on October 2013 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Alexander Hamilton Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Alexander Hamilton Bridge



Hourly Vehicular Volumes

Broadway Bridge - 2016

Northbound to Bronx

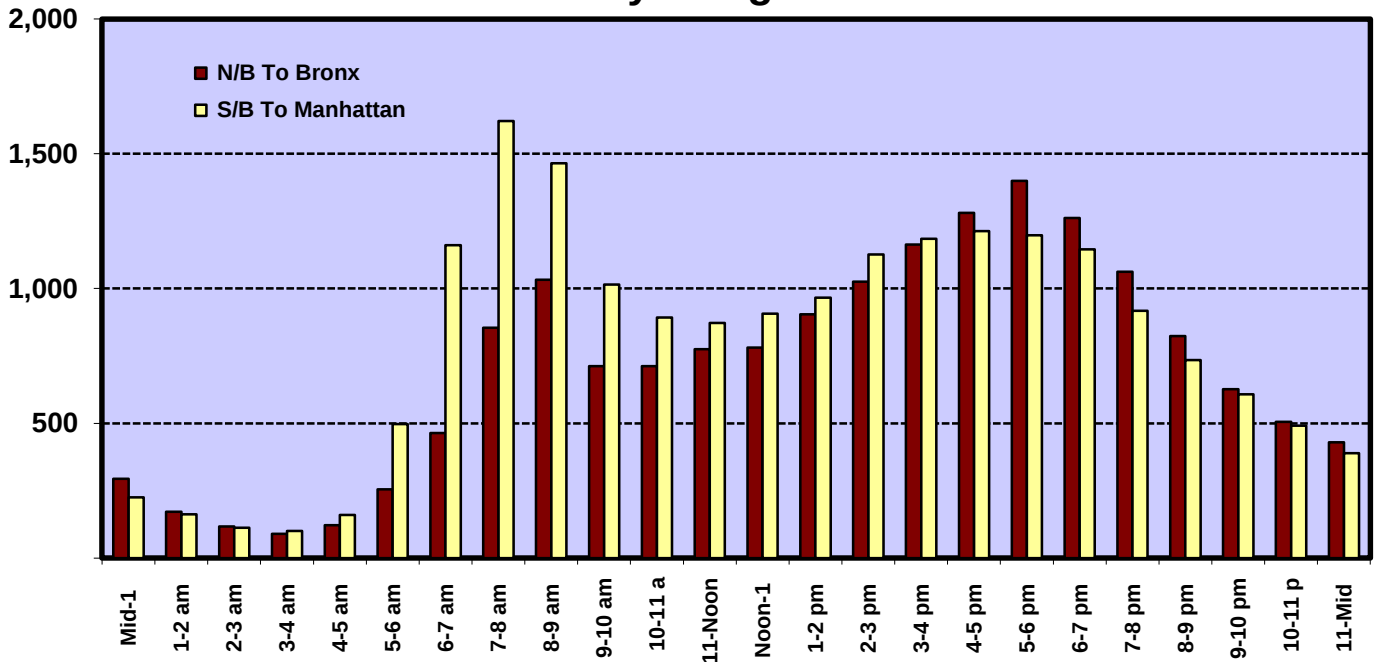
Southbound to Manhattan

FHWA Classes ▶	Northbound to Bronx							Southbound to Manhattan							2-way Grand Totals
	Autos, Motorcycles SUVs, Family Vans	Taxis, Liveries, Limos	Panel Trucks, Pickups, Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles	Autos, Motorcycles SUVs, Family Vans	Taxis, Liveries, Limos	Panel Trucks, Pickups, Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles	
	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13		1, 2, 3	2	2 & 3	4	5 - 7	8 - 13		
12-1am	252	18	8	12	2	2	294	136	68	3	16	2	0	225	519
1-2am	137	17	0	12	5	1	172	91	47	1	20	0	3	162	334
2-3am	100	7	6	1	2	1	117	59	43	4	4	1	2	113	230
3-4am	69	16	3	0	0	2	90	65	24	3	2	4	2	100	190
4-5am	88	11	1	14	4	4	122	111	30	11	1	1	6	160	282
5-6am	149	10	3	58	34	1	255	387	70	23	9	6	2	497	752
6-7am	339	14	12	67	2	30	464	924	106	36	83	11	1	1,161	1,625
7-8am	712	27	23	63	17	13	855	1,311	186	54	52	14	5	1,622	2,477
8-9am	875	79	23	36	10	10	1,033	1,135	187	62	50	21	10	1,465	2,498
9-10am	558	56	45	32	17	4	712	734	142	54	43	23	19	1,015	1,727
10-11am	556	59	45	16	26	10	712	595	177	42	26	23	30	893	1,605
11-12am	620	77	26	20	24	8	775	587	176	66	11	22	10	872	1,647
12-1pm	620	68	36	21	28	8	781	675	135	48	19	22	8	907	1,688
1-2pm	719	55	49	46	34	1	904	673	191	49	23	20	10	966	1,870
2-3pm	847	78	30	38	22	11	1,026	836	158	53	43	29	7	1,126	2,152
3-4pm	993	84	27	41	16	2	1,163	886	175	55	49	18	2	1,185	2,348
4-5pm	1,075	120	27	48	10	1	1,281	958	157	50	30	18	0	1,213	2,494
5-6pm	1,191	129	40	36	3	1	1,400	986	136	39	29	7	1	1,198	2,598
6-7pm	1,165	45	22	28	1	1	1,262	920	154	16	45	8	2	1,145	2,407
7-8pm	973	45	16	16	9	3	1,062	741	108	17	42	8	1	917	1,979
8-9pm	740	44	12	17	10	1	824	520	149	22	34	4	5	734	1,558
9-10pm	566	40	15	2	1	2	626	436	113	11	45	1	1	607	1,233
10-11pm	441	44	11	7	0	2	505	334	115	6	32	2	2	491	996
11-12pm	369	35	10	8	6	1	429	256	103	16	12	0	2	389	818
Totals	14,154	1,178	490	639	283	120	16,864	14,356	2,950	741	720	265	131	19,163	36,027
7-10am	2,145	162	91	131	44	27	2,600	3,180	515	170	145	58	34	4,102	6,702
10am-1pm	1,796	204	107	57	78	26	2,268	1,857	488	156	56	67	48	2,672	4,940
1-4pm	2,559	217	106	125	72	14	3,093	2,395	524	157	115	67	19	3,277	6,370
4-7pm	3,431	294	89	112	14	3	3,943	2,864	447	105	104	33	3	3,556	7,499
7am-7pm	9,931	877	393	425	208	70	11,904	10,296	1,974	588	420	225	104	13,607	25,511
6-10am	2,484	176	103	198	46	57	3,064	4,104	621	206	228	69	35	5,263	8,327
3-7pm	4,424	378	116	153	30	5	5,106	3,750	622	160	153	51	5	4,741	9,847
6am-7pm	10,270	891	405	492	210	100	12,368	11,220	2,080	624	503	236	105	14,768	27,136

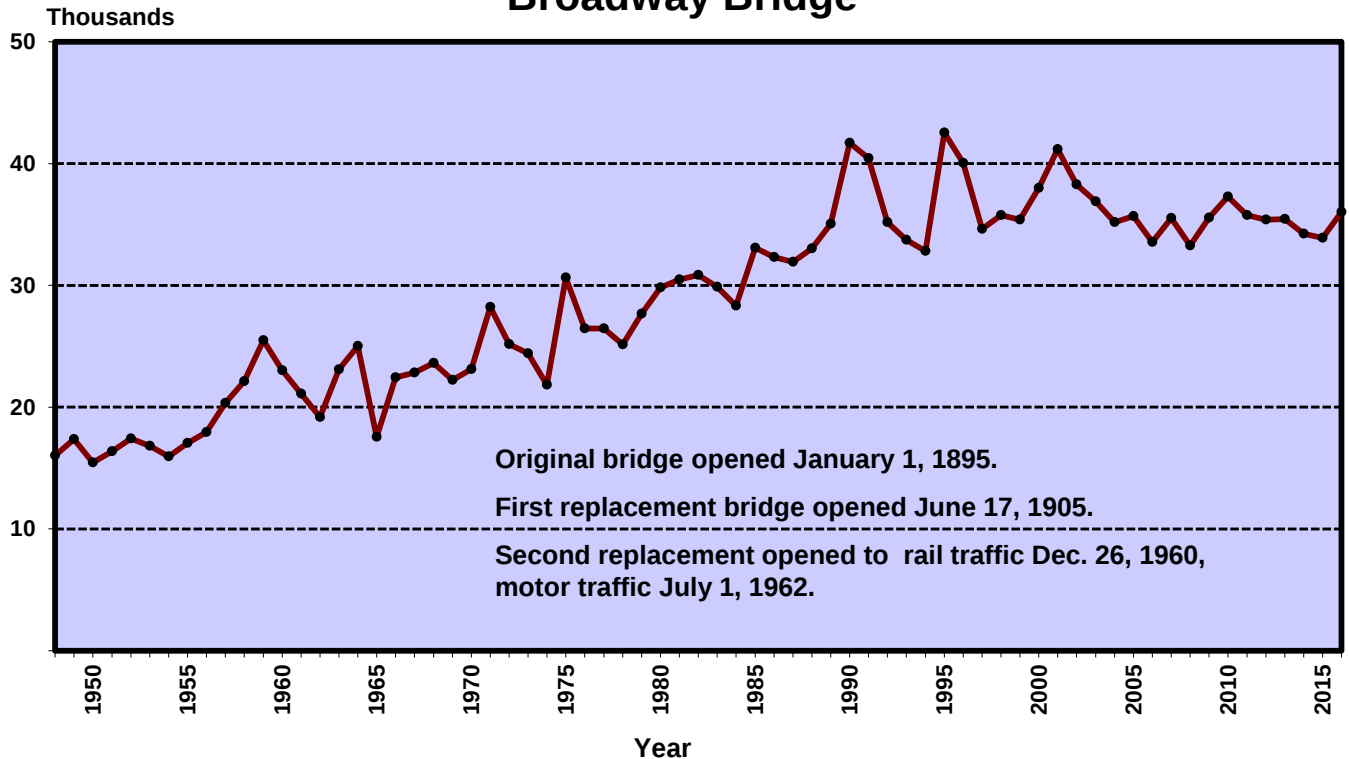
Based on October 2013 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Broadway Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Broadway Bridge



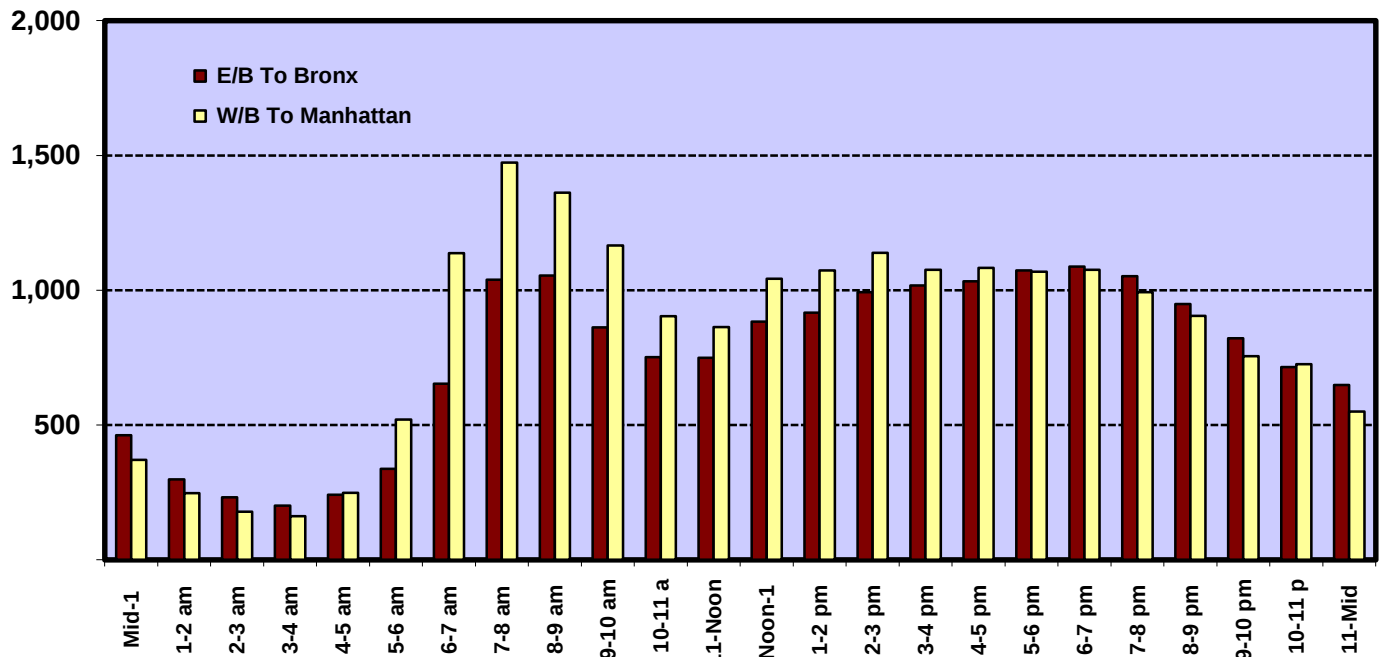
Hourly Vehicular Volumes
Macombs Dam Bridge - 2016

Eastbound to Bronx													Westbound to Manhattan												
FHWA Classes ▶	Commercial Vans,					Autos, Motorcycles			Commercial Vans,					Autos, Motorcycles			Commercial Vans,					2-way Grand Totals			
	Panel Trucks, Pickups,			Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles	Taxi, Liveries, Limos		Panel Trucks, Pickups, Police, Fleet Vehicles		Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles										
1, 2, 3	2	2 & 3	4					5 - 7	8 - 13	1, 2, 3	2					2 & 3	4	5 - 7	8 - 13						
12-1am	373	44	28	5	9	3	462	320	30	14	4	1	1	370	832										
1-2am	242	26	18	5	5	2	298	215	18	11	2	0	1	247	545										
2-3am	176	32	11	2	9	2	232	146	22	6	2	2	0	178	410										
3-4am	152	31	13	1	1	3	201	137	18	3	2	1	0	161	362										
4-5am	180	45	7	1	7	1	241	194	21	17	13	2	1	248	489										
5-6am	268	50	10	3	1	5	337	382	81	31	16	7	3	520	857										
6-7am	511	89	25	8	20	0	653	723	183	113	62	44	12	1,137	1,790										
7-8am	850	124	25	21	16	3	1,039	1,036	188	115	85	30	20	1,474	2,513										
8-9am	866	87	23	57	16	5	1,054	1,086	110	91	25	43	7	1,362	2,416										
9-10am	691	81	42	25	21	2	862	920	97	67	12	63	7	1,166	2,028										
10-11am	585	79	44	11	30	3	752	721	65	52	20	39	6	903	1,655										
11-12am	560	90	61	7	25	6	749	660	78	74	16	29	6	863	1,612										
12-1pm	670	102	72	8	26	5	883	823	95	77	14	22	12	1,043	1,926										
1-2pm	698	109	69	10	28	3	917	811	133	75	22	24	8	1,073	1,990										
2-3pm	790	110	56	10	25	1	992	871	136	82	27	20	3	1,139	2,131										
3-4pm	840	80	49	17	25	6	1,017	827	112	72	31	30	4	1,076	2,093										
4-5pm	872	69	43	24	22	3	1,033	871	85	81	32	13	1	1,083	2,116										
5-6pm	858	104	39	32	33	7	1,073	905	80	57	20	6	0	1,068	2,141										
6-7pm	889	101	57	12	24	5	1,088	930	74	51	16	5	0	1,076	2,164										
7-8pm	860	95	67	9	17	4	1,052	858	71	44	16	2	1	992	2,044										
8-9pm	790	91	51	5	8	4	949	788	63	41	10	3	0	905	1,854										
9-10pm	690	75	44	6	6	1	822	654	63	25	10	3	0	755	1,577										
10-11pm	595	64	40	5	6	5	715	623	47	41	9	5	0	725	1,440										
11-12pm	540	54	38	3	9	4	648	475	38	23	11	3	0	550	1,198										
Totals	14,546	1,832	932	287	389	83	18,069	15,976	1,908	1,263	477	397	93	20,114	38,183										
7-10am	2,407	292	90	103	53	10	2,955	3,042	395	273	122	136	34	4,002	6,957										
10am-1pm	1,815	271	177	26	81	14	2,384	2,204	238	203	50	90	24	2,809	5,193										
1-4pm	2,328	299	174	37	78	10	2,926	2,509	381	229	80	74	15	3,288	6,214										
4-7pm	2,619	274	139	68	79	15	3,194	2,706	239	189	68	24	1	3,227	6,421										
7am-7pm	9,169	1,136	580	234	291	49	11,459	10,461	1,253	894	320	324	74	13,326	24,785										
6-10am	2,918	381	115	111	73	10	3,608	3,765	578	386	184	180	46	5,139	8,747										
3-7pm	3,459	354	188	85	104	21	4,211	3,533	351	261	99	54	5	4,303	8,514										
6am-7pm	9,680	1,225	605	242	311	49	12,112	11,184	1,436	1,007	382	368	86	14,463	26,575										

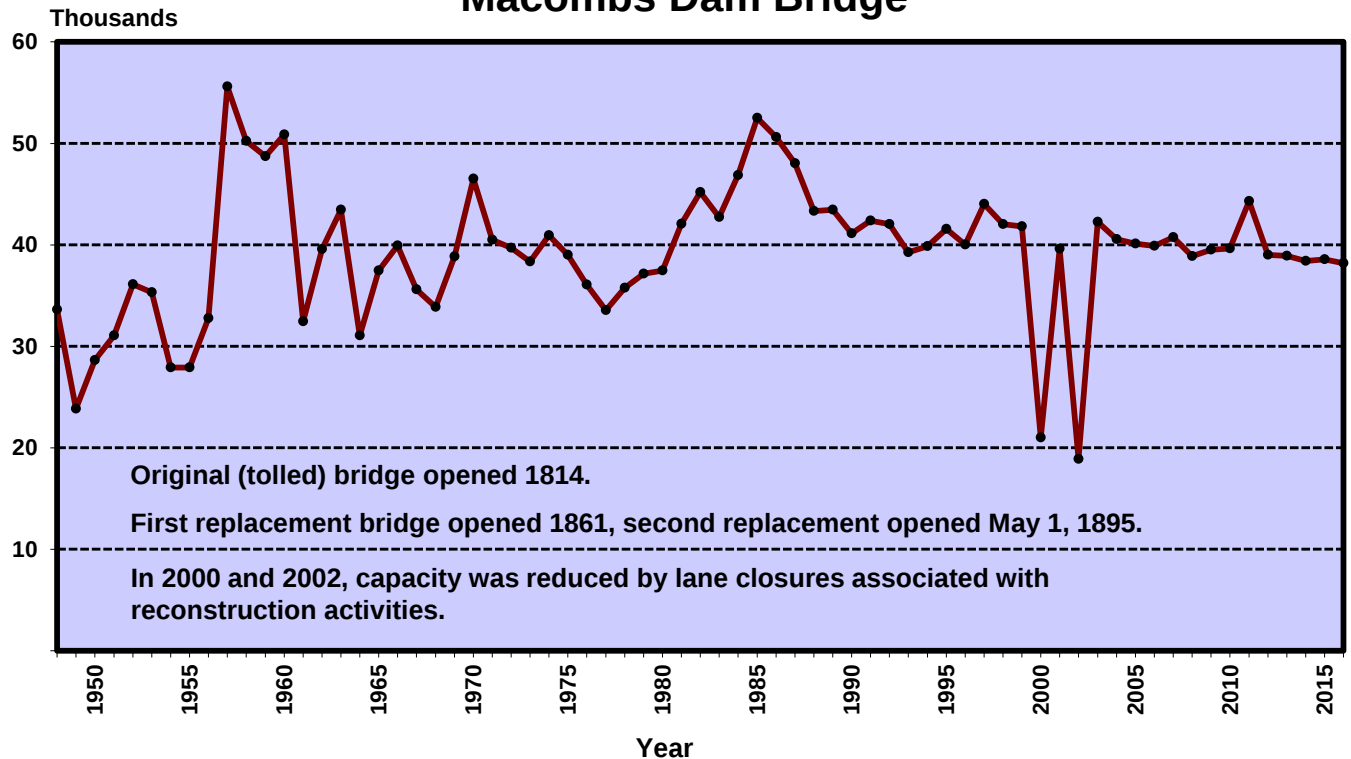
Based on October 2013 Classification Survey Data.

Peak Volumes

Hourly Vehicular Volumes Macombs Dam Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Macombs Dam Bridge



Hourly Vehicular Volumes

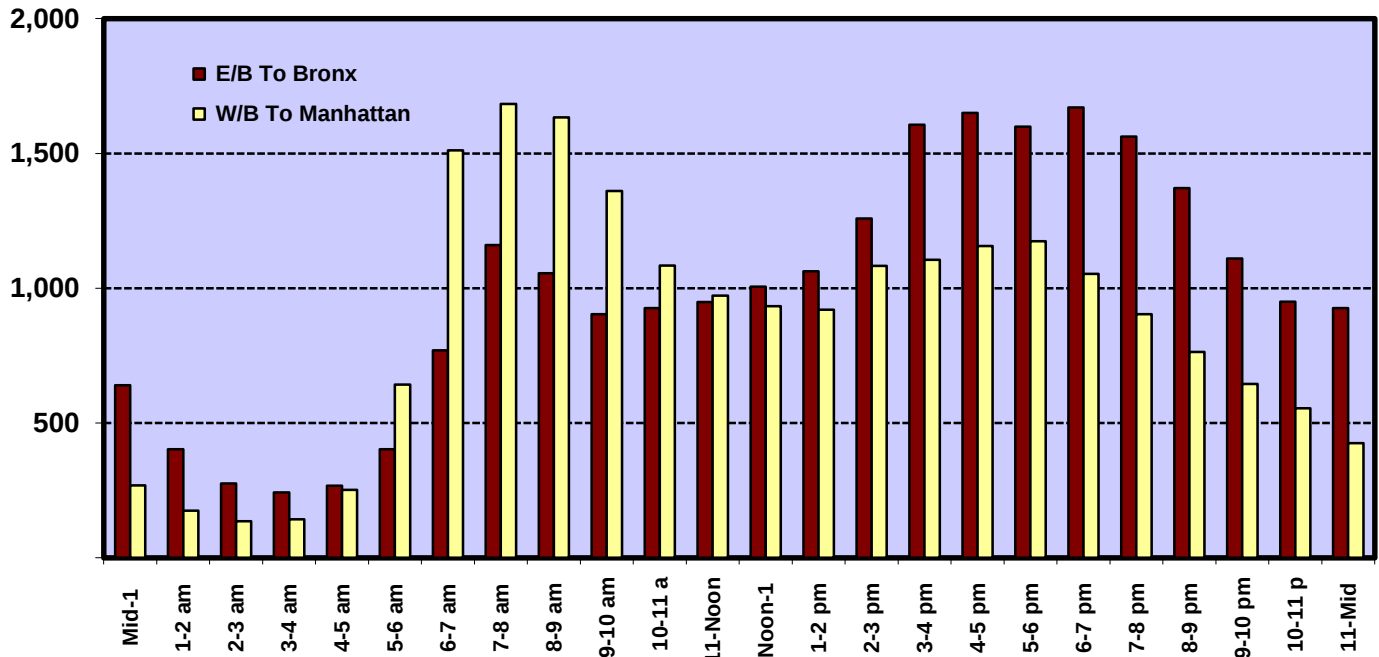
Madison Avenue Bridge - 2016

Eastbound to Bronx														Westbound to Manhattan														2-way Grand Totals
Commercial Vans,														Commercial Vans,														
Autos, Motorcycles				Taxis, Liveries, Limos				Panel Trucks, Pickups, Police, Fleet Vehicles				Buses				Single Unit Trucks				Multiple Unit Trucks				Total Vehicles				
FHWA Classes	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13	Total Vehicles	Autos, Motorcycles SUVs, Family Vans	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles	Autos, Motorcycles SUVs, Family Vans	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles	
12-1am	513	86	18	11	8	4	640	244	11	6	3	4	0	268	908													
1-2am	279	90	12	4	17	0	402	152	15	1	1	4	1	174	576													
2-3am	188	66	6	1	15	0	276	119	10	1	0	3	2	135	411													
3-4am	158	55	14	1	9	5	242	97	28	11	0	5	2	143	385													
4-5am	174	54	15	1	16	7	267	168	44	20	2	16	2	252	519													
5-6am	314	41	15	2	30	0	402	457	81	19	23	58	4	1,044	1,044													
6-7am	644	51	28	9	37	0	769	969	146	67	197	121	12	1,512	2,281													
7-8am	1,003	37	26	39	52	3	1,160	1,314	108	105	80	70	6	1,683	2,843													
8-9am	816	68	39	94	36	2	1,055	1,275	49	167	26	113	4	1,634	2,689													
9-10am	562	177	76	43	36	9	903	1,006	43	146	43	119	4	1,361	2,264													
10-11am	604	141	86	28	66	1	926	818	39	112	49	64	2	1,084	2,010													
11-12am	692	91	92	20	51	3	949	748	28	120	22	53	1	972	1,921													
12-1pm	671	121	114	31	67	2	1,006	752	16	64	40	58	3	933	1,939													
1-2pm	797	73	92	24	77	0	1,063	747	19	45	51	57	1	920	1,983													
2-3pm	972	61	121	22	82	0	1,258	856	25	84	80	35	3	1,083	2,341													
3-4pm	1,159	129	171	74	70	3	1,606	960	21	69	35	20	0	1,105	2,711													
4-5pm	1,177	204	163	60	43	3	1,650	1,051	48	14	32	11	0	1,156	2,806													
5-6pm	1,352	62	119	38	28	0	1,599	1,046	93	5	22	8	0	1,174	2,773													
6-7pm	1,483	41	75	34	38	0	1,671	950	47	23	21	10	2	1,053	2,724													
7-8pm	1,377	72	67	23	22	1	1,562	829	27	19	25	2	1	903	2,465													
8-9pm	1,216	88	39	16	11	1	1,371	724	18	9	5	6	1	763	2,134													
9-10pm	978	82	31	9	10	0	1,110	599	8	21	10	6	1	645	1,755													
10-11pm	809	100	23	8	9	1	950	498	23	19	9	5	1	555	1,505													
11-12pm	797	75	25	12	16	1	926	396	13	5	8	3	0	425	1,351													
Totals	18,735	2,065	1,467	604	846	46	23,763	16,775	960	1,152	784	851	53	20,575	44,338													
7-10am	2,381	282	141	176	124	14	3,118	3,595	200	418	149	302	14	4,678	7,796													
10am-1pm	1,967	353	292	79	184	6	2,881	2,318	83	296	111	175	6	2,989	5,870													
1-4pm	2,928	263	384	120	229	3	3,927	2,563	65	198	166	112	4	3,108	7,035													
4-7pm	4,012	307	357	132	109	3	4,920	3,047	188	42	75	29	2	3,383	8,303													
7am-7pm	11,288	1,205	1,174	507	646	26	14,846	11,523	536	954	501	618	26	14,158	29,004													
6-10am	3,025	333	169	185	161	14	3,887	4,564	346	485	346	423	26	6,190	10,077													
3-7pm	5,171	436	528	206	179	6	6,526	4,007	209	111	110	49	2	4,488	11,014													
6am-7pm	11,932	1,256	1,202	516	683	26	15,615	12,492	682	1,021	698	739	38	15,670	31,285													

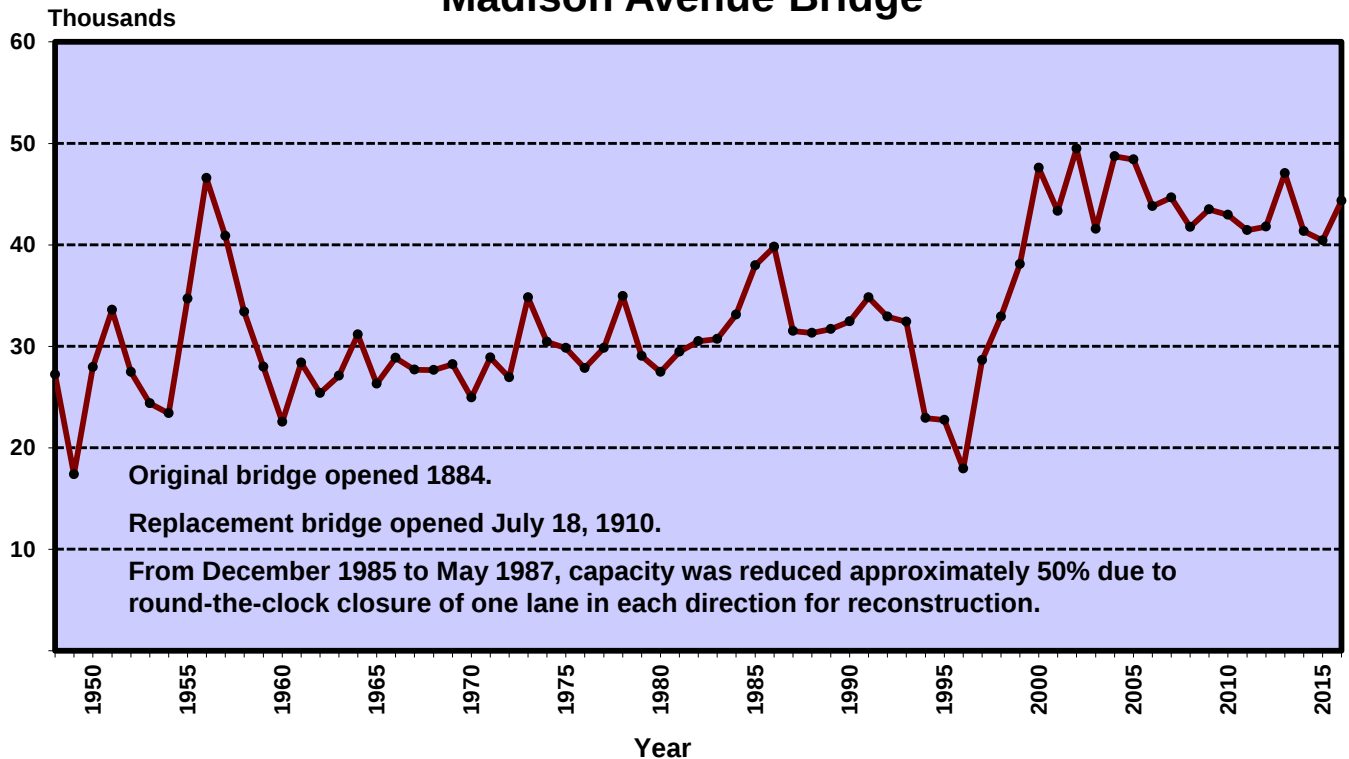
Based on October 2013 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Madison Avenue Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Madison Avenue Bridge



Hourly Vehicular Volumes

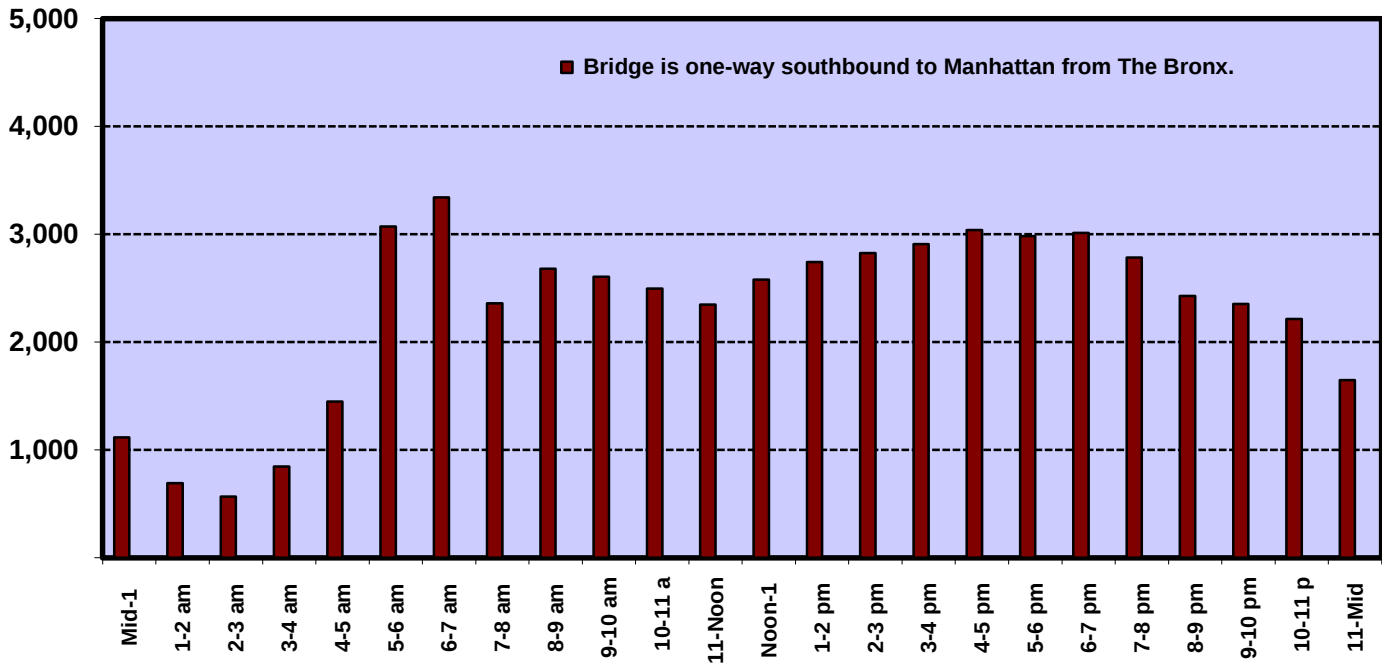
Third Avenue Bridge - 2016

[illegible]

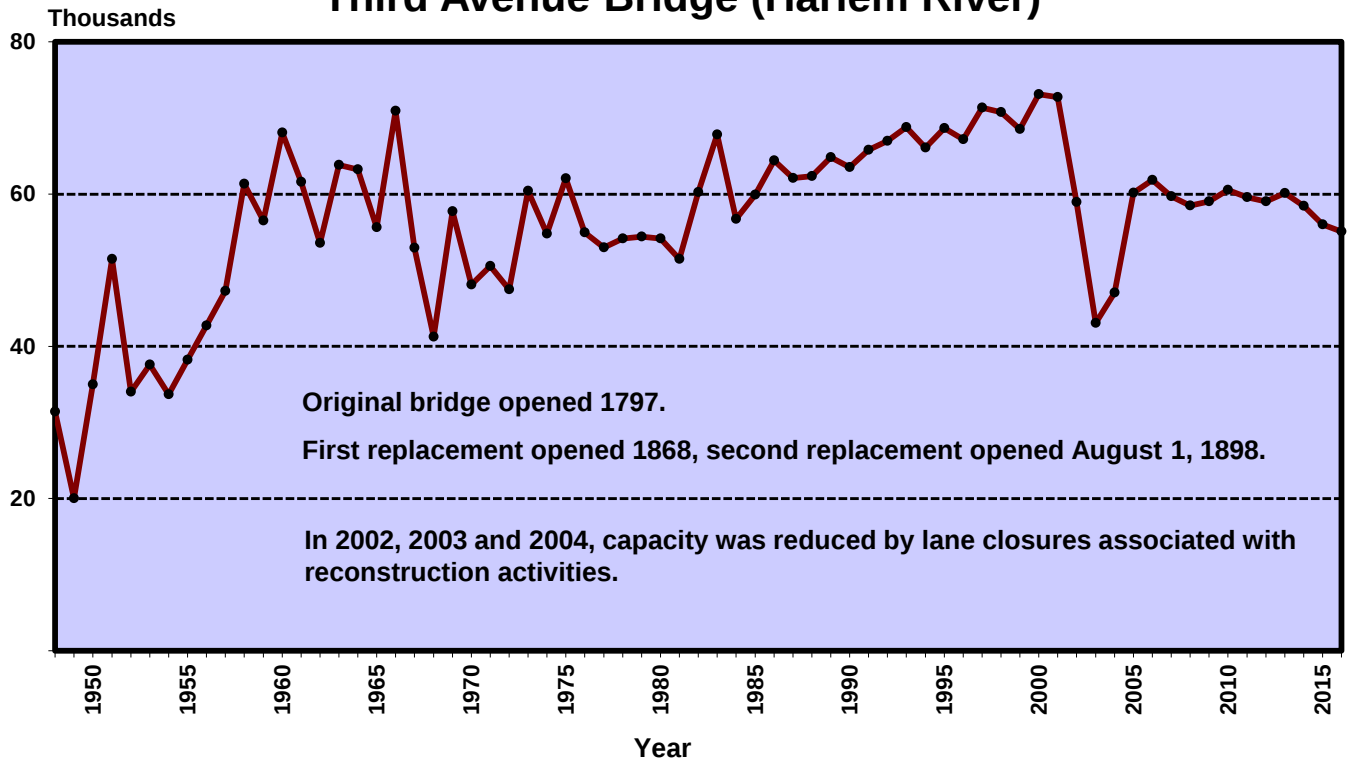
Based on October 2013 Classification Survey Data.

**** Peak Volumes**

Hourly Vehicular Volumes Third Avenue Bridge (Harlem River) ~ 2016



Average Daily Traffic Volumes Third Avenue Bridge (Harlem River)



Hourly Vehicular Volumes

University Heights Bridge - 2016

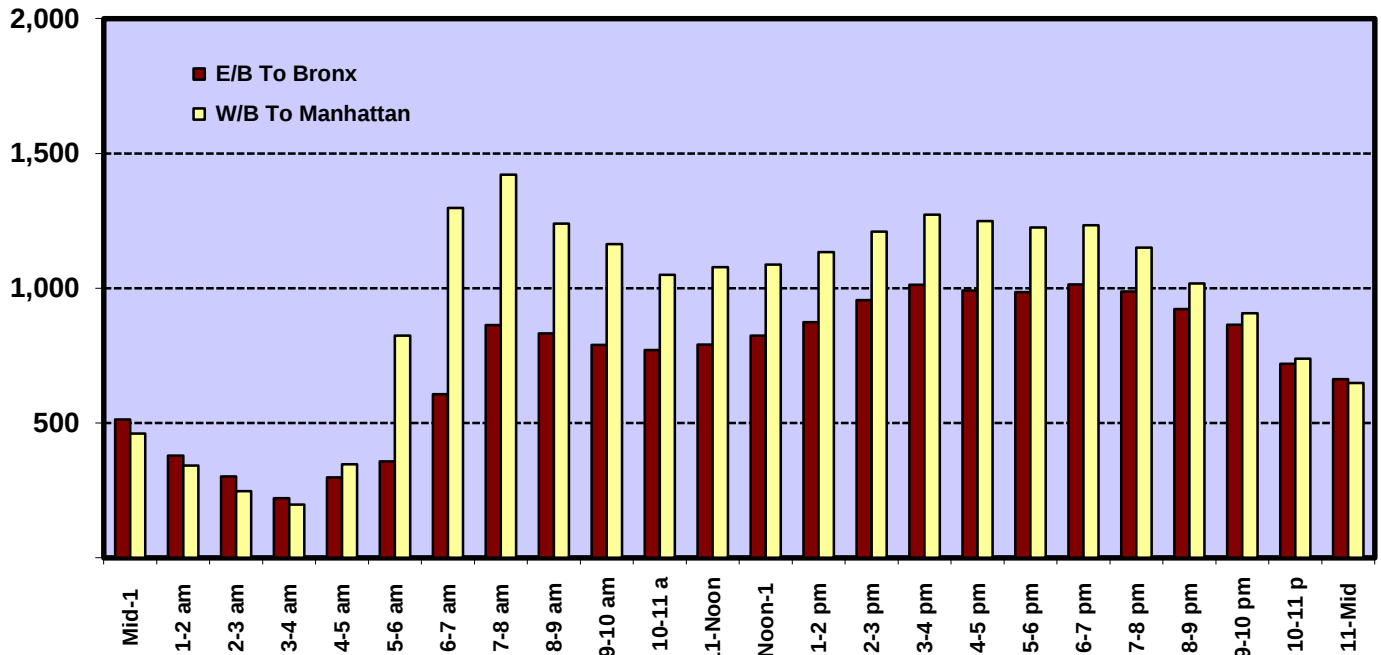
Eastbound to Bronx

FHWA Classes ▶	Commercial Vans, Panel Trucks, Pickups,							Commercial Vans, Panel Trucks, Pickups,							2-way Grand Totals
	Autos, Motorcycles	Taxis, Liveries, Limos	Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles	Autos, Motorcycles	Taxis, Liveries, Limos	Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles	
	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13		1, 2, 3	2	2 & 3	4	5 - 7	8 - 13		
12-1am	435	57	5	5	10	1	513	397	41	7	7	9	0	461	974
1-2am	339	24	10	3	3	0	379	265	56	11	1	9	0	342	721
2-3am	269	21	3	3	6	0	302	179	38	10	2	18	0	247	549
3-4am	178	20	7	2	13	1	221	182	4	3	4	4	0	197	418
4-5am	245	13	23	4	6	7	298	300	22	10	1	14	0	347	645
5-6am	304	21	16	4	9	3	357	695	55	43	10	19	2	824	1,181
6-7am	463	49	18	19	57	1	607	1,040	78	83	69	26	2	1,298	1,905
7-8am	698	54	39	30	38	4	863	1,194	61	59	54	51	2	1,421	2,284
8-9am	646	70	57	32	23	4	832	1,019	78	74	20	45	3	1,239	2,071
9-10am	542	103	63	21	59	2	790	854	112	100	27	61	10	1,164	1,954
10-11am	561	79	88	17	22	3	770	791	108	73	13	63	2	1,050	1,820
11-12am	607	64	50	14	48	8	791	878	53	63	20	57	7	1,078	1,869
12-1pm	618	76	57	16	53	4	824	879	64	58	26	57	4	1,088	1,912
1-2pm	692	58	72	18	25	9	874	879	102	72	35	45	1	1,134	2,008
2-3pm	748	91	54	21	31	11	956	957	121	63	25	43	1	1,210	2,166
3-4pm	795	81	77	32	27	1	1,013	1,077	66	52	36	40	2	1,273	2,286
4-5pm	797	68	62	42	21	1	991	1,030	91	60	25	42	1	1,249	2,240
5-6pm	795	102	51	20	14	4	986	1,009	110	69	18	19	0	1,225	2,211
6-7pm	871	84	32	7	18	2	1,014	1,045	114	37	16	22	0	1,234	2,248
7-8pm	764	141	51	19	11	2	988	940	138	39	16	17	0	1,150	2,138
8-9pm	753	117	28	12	11	1	922	846	110	35	12	13	1	1,017	1,939
9-10pm	775	53	22	10	4	0	864	776	93	21	11	6	0	907	1,771
10-11pm	616	71	19	7	6	0	719	616	94	12	9	7	1	739	1,458
11-12pm	576	65	10	6	4	1	662	539	74	17	4	13	1	648	1,310
Totals	14,087	1,582	914	364	519	70	17,536	18,387	1,883	1,071	461	700	40	22,542	40,078
7-10am	1,886	227	159	83	120	10	2,485	3,067	251	233	101	157	15	3,824	6,309
10am-1pm	1,786	219	195	47	123	15	2,385	2,548	225	194	59	177	13	3,216	5,601
1-4pm	2,235	230	203	71	83	21	2,843	2,913	289	187	96	128	4	3,617	6,460
4-7pm	2,463	254	145	69	53	7	2,991	3,084	315	166	59	83	1	3,708	6,699
7am-7pm	8,370	930	702	270	379	53	10,704	11,612	1,080	780	315	545	33	14,365	25,069
6-10am	2,349	276	177	102	177	11	3,092	4,107	329	316	170	183	17	5,122	8,214
3-7pm	3,258	335	222	101	80	8	4,004	4,161	381	218	95	123	3	4,981	8,985
6am-7pm	8,833	979	720	289	436	54	11,311	12,652	1,158	863	384	571	35	15,663	26,974

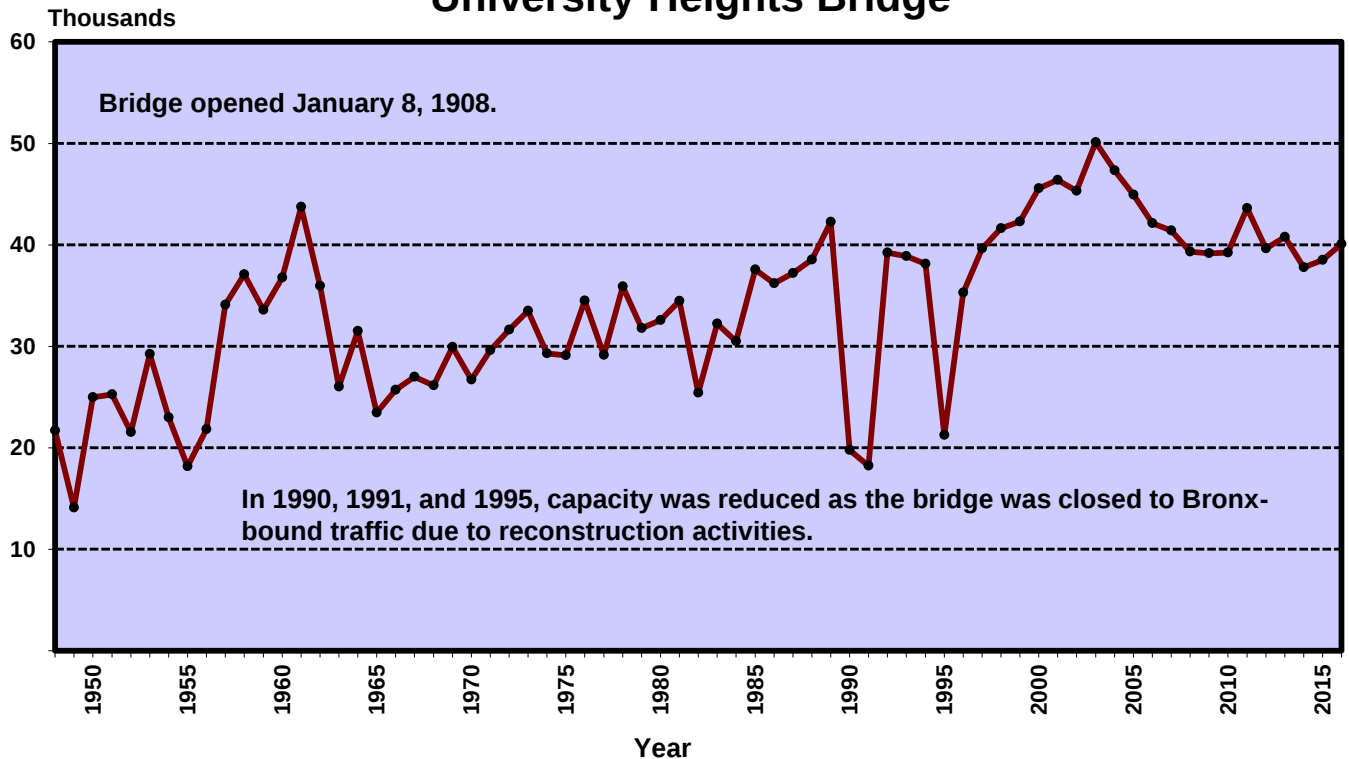
Based on October 2013 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes University Heights Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions University Heights Bridge



Washington Bridge - 2016

Eastbound to Bronx

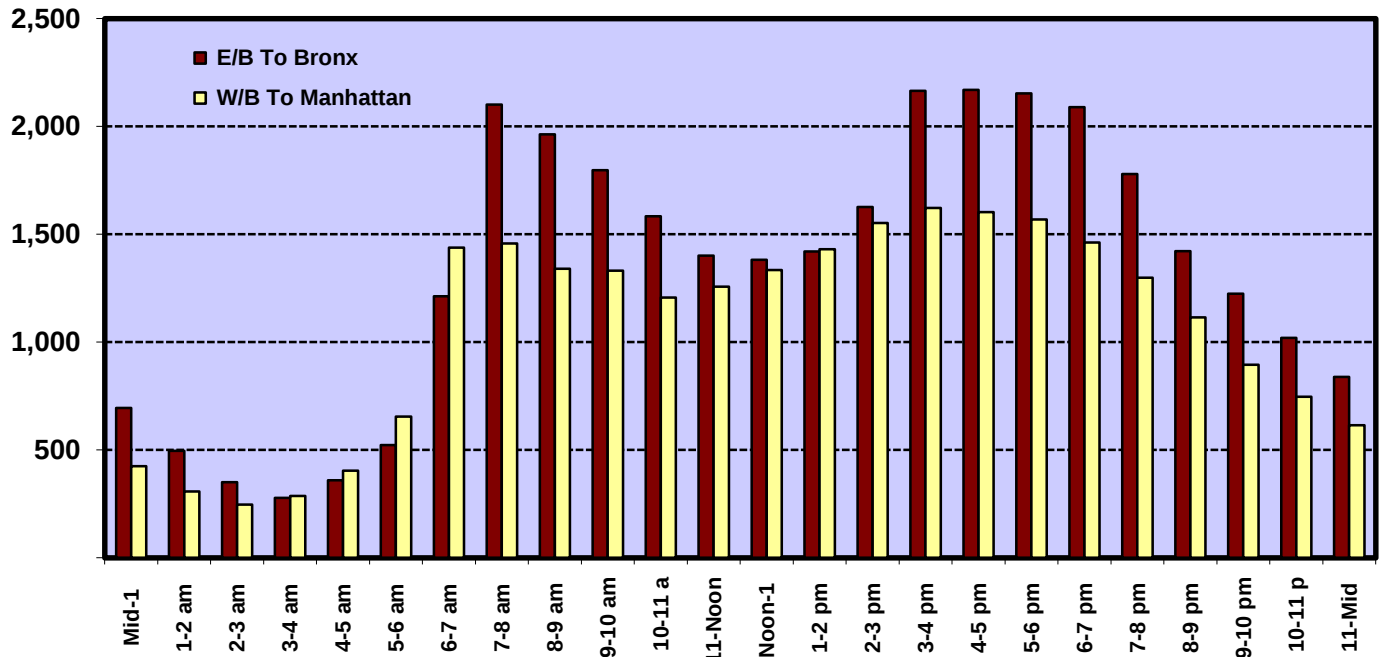
Westbound to Manhattan

FHWA Classes ▶	Commercial Vans,						Commercial Vans,						2-way Grand Totals
	Autos, Motorcycles SUVs, Family Vans	Taxis, Liveries, Limos	Panel Trucks, Pickups, Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	Autos, Motorcycles SUVs, Family Vans	Taxis, Liveries, Limos	Panel Trucks, Pickups, Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	
12-1am	634	29	18	13	1	0	695	30	10	19	3	1	424
1-2am	443	30	8	11	3	0	495	28	7	8	0	0	308
2-3am	312	20	8	4	7	0	351	17	7	4	0	3	246
3-4am	233	12	12	3	14	4	278	19	10	6	1	1	286
4-5am	321	16	17	2	3	0	359	22	21	6	11	15	404
5-6am	459	8	22	18	16	0	523	17	21	24	14	23	654
6-7am	1,063	25	54	43	21	6	1,212	50	67	156	14	8	1,438
7-8am	1,922	34	61	75	10	0	2,102	63	73	75	17	6	1,458
8-9am	1,711	35	75	115	23	4	1,963	64	92	68	26	5	1,340
9-10am	1,552	35	102	63	41	5	1,798	39	123	65	21	8	1,331
10-11am	1,353	32	109	44	42	4	1,584	33	109	41	31	6	1,207
11-12am	1,175	44	97	32	44	9	1,401	36	72	40	32	16	1,257
12-1pm	1,159	41	99	39	40	4	1,382	48	84	54	33	15	1,334
1-2pm	1,198	37	92	58	34	1	1,420	34	114	79	39	13	1,430
2-3pm	1,398	44	82	54	45	4	1,627	49	86	62	27	6	1,552
3-4pm	1,835	45	147	90	48	1	2,166	48	73	58	19	9	1,622
4-5pm	1,839	42	161	105	21	2	2,170	46	93	52	26	4	1,603
5-6pm	1,875	39	139	69	29	2	2,153	41	84	54	11	1	1,569
6-7pm	1,866	40	107	55	19	2	2,089	26	58	40	8	0	1,462
7-8pm	1,619	29	71	36	21	3	1,779	25	28	35	1	4	1,299
8-9pm	1,262	54	52	41	12	1	1,422	17	19	46	1	2	1,114
9-10pm	1,057	89	43	31	4	1	1,225	27	3	32	1	0	895
10-11pm	912	43	30	29	5	1	1,020	15	7	20	3	11	746
11-12pm	698	100	20	19	1	1	839	19	6	19	0	1	615
Totals	27,896	923	1,626	1,049	504	55	32,053	813	1,267	1,063	339	158	25,594
7-10am	5,185	104	238	253	74	9	5,863	166	288	208	64	19	4,129
10am-1pm	3,687	117	305	115	126	17	4,367	117	265	135	96	37	3,798
1-4pm	4,431	126	321	202	127	6	5,213	131	273	199	85	28	4,604
4-7pm	5,580	121	407	229	69	6	6,412	113	235	146	45	5	4,634
7am-7pm	18,883	468	1,271	799	396	38	21,855	527	1,061	688	290	89	17,165
6-10am	6,248	129	292	296	95	15	7,075	216	355	364	78	27	5,567
3-7pm	7,415	166	554	319	117	7	8,578	161	308	204	64	14	6,256
6am-7pm	19,946	493	1,325	842	417	44	23,067	577	1,128	844	304	97	18,603

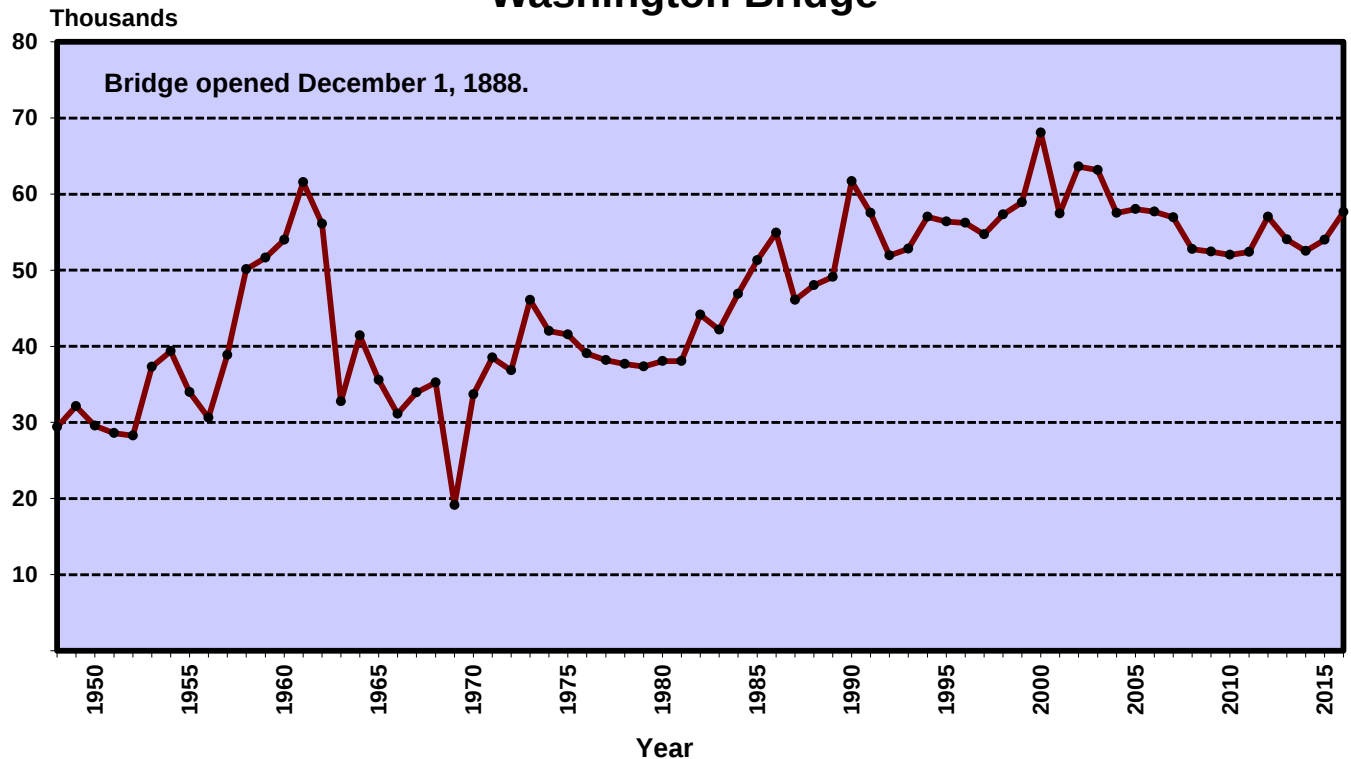
Based on October 2015 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Washington Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Washington Bridge



Hourly Vehicular Volumes

Willis Avenue Bridge - 2016

Northbound to Bronx

FHWA Classes ▶	Commercial Vans, Panel Trucks, Pickups, Police, Fleet Vehicles							Commercial Vans, Panel Trucks, Pickups, Police, Fleet Vehicles							2-way Grand Totals
	Autos, Motorcycles SUVs, Family Vans	Taxis, Liveries, Limos	Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles		Autos, Motorcycles SUVs, Family Vans	Taxis, Liveries, Limos	Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles		
	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13		1, 2, 3	2	2 & 3	4	5 - 7	8 - 13		
12-1am	1,897	122	75	3	34	10	2,141								2,141
1-2am	1,123	76	50	4	31	23	1,307								1,307
2-3am	786	53	35	3	22	16	915								915
3-4am	719	49	32	3	20	15	838								838
4-5am	959	65	43	4	26	19	1,116								1,116
5-6am	1,511	108	77	10	60	59	1,825								1,825
6-7am	2,688	85	113	30	95	57	3,068								3,068
7-8am	3,107	88	125	56	93	23	3,492								3,492
8-9am	2,526	98	150	180	104	29	3,087								3,087
9-10am	1,997	92	201	78	146	24	2,538								2,538
10-11am	1,802	99	255	39	177	27	2,399								2,399
11-12am	1,965	86	301	19	204	29	2,604								2,604
12-1pm	2,024	108	276	34	252	36	2,730								2,730
1-2pm	2,208	94	313	28	245	31	2,919								2,919
2-3pm	2,403	62	333	37	220	24	3,079								3,079
3-4pm	2,755	98	318	98	169	24	3,462								3,462
4-5pm	2,529	129	336	118	128	11	3,251								3,251
5-6pm	2,702	80	251	49	92	9	3,183								3,183
6-7pm	2,826	49	179	23	62	7	3,146								3,146
7-8pm	3,005	84	146	16	67	8	3,326								3,326
8-9pm	2,884	85	110	9	49	13	3,150								3,150
9-10pm	2,848	107	86	7	68	16	3,132								3,132
10-11pm	2,646	128	103	7	38	10	2,932								2,932
11-12pm	2,339	143	117	7	42	5	2,653								2,653
Totals	52,249	2,188	4,025	862	2,444	525	62,293								62,293
7-10am	7,630	278	476	314	343	76	9,117								9,117
10am-1pm	5,791	293	832	92	633	92	7,733								7,733
1-4pm	7,366	254	964	163	634	79	9,460								9,460
4-7pm	8,057	258	766	190	282	27	9,580								9,580
7am-7pm	28,844	1,083	3,038	759	1,892	274	35,890								35,890
6-10am	10,318	363	589	344	438	133	12,185								12,185
3-7pm	10,812	356	1,084	288	451	51	13,042								13,042
6am-7pm	31,532	1,168	3,151	789	1,987	331	38,958								38,958

Bridge is 1-way northbound from Manhattan to Bronx.

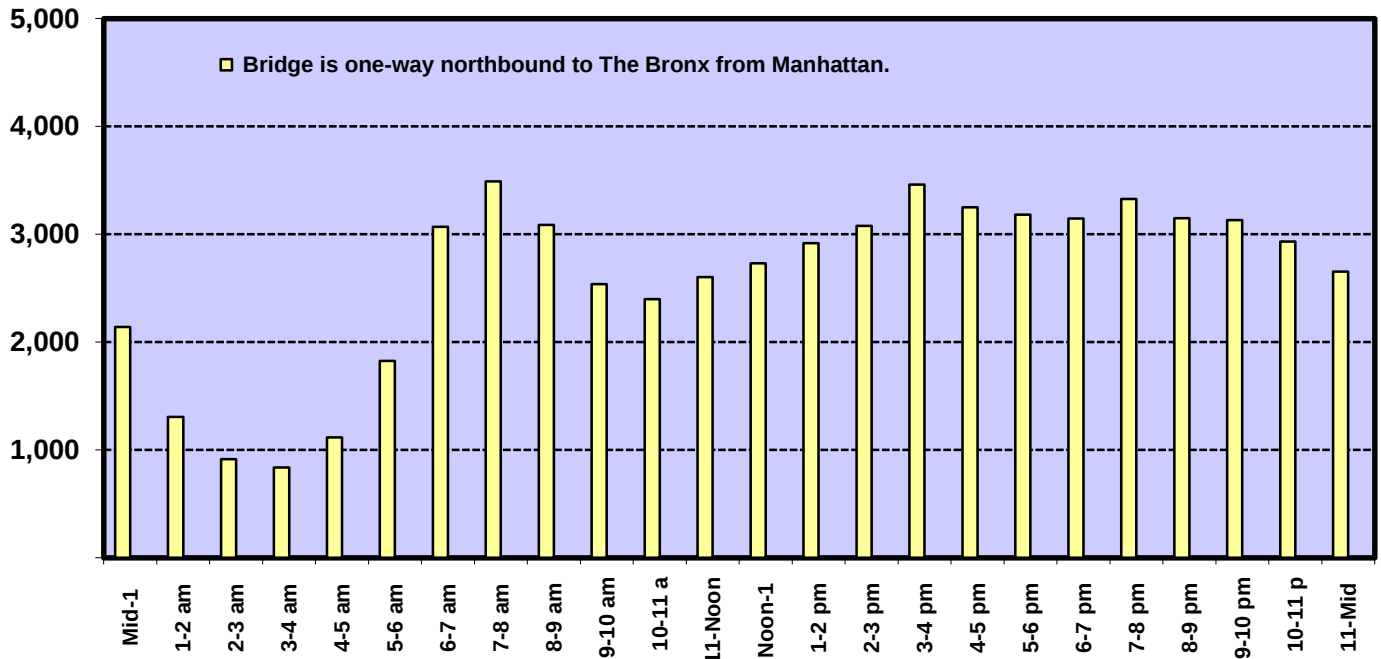
Bridge closed for reconstruction 1:00am to 5:00am during 2013 classification survey.

Classification distribution is estimated for these hours.

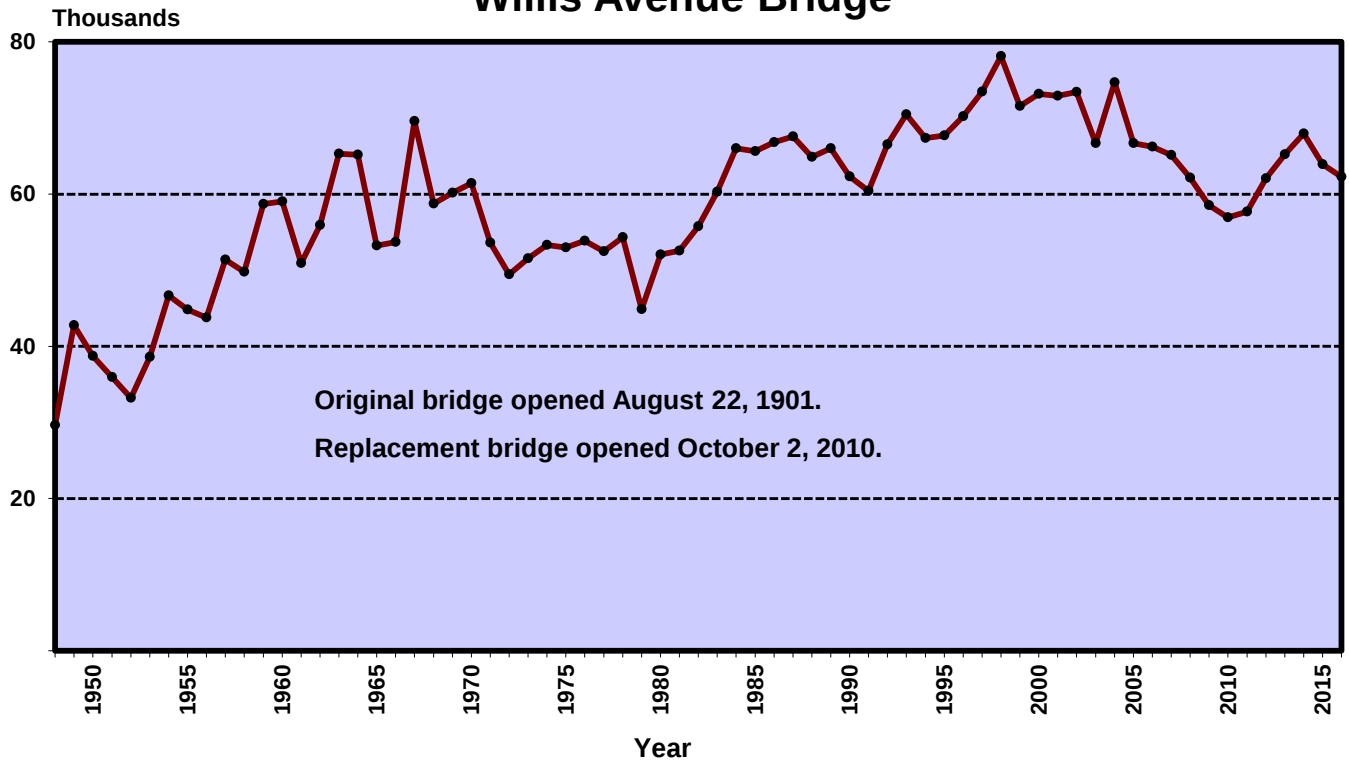
Based on October 2013 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Willis Avenue Bridge ~ 2016



Average Daily Traffic Volumes Willis Avenue Bridge



Hourly Vehicular Volumes

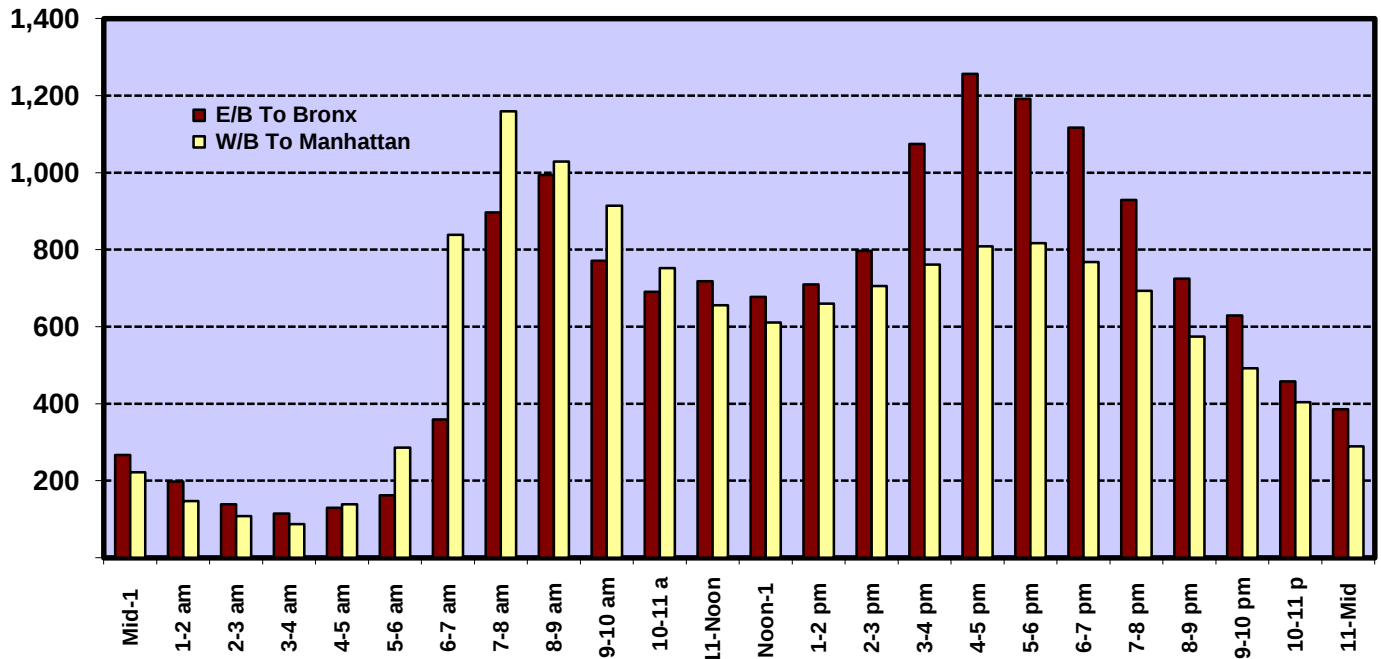
145th Street Bridge - 2016

Eastbound to Bronx										Westbound to Manhattan									
Commercial Vans, Panel Trucks, Pickups, Police, Fleet Vehicles										Commercial Vans, Panel Trucks, Pickups, Police, Fleet Vehicles									
FHWA Classes ▶	Autos, Motorcycles			Taxis, Liveries, Limos			Buses			Autos, Motorcycles			Taxis, Liveries, Limos			Buses			2-way Grand Totals
	1, 2, 3	2	2 & 3	5	7	0	5 - 7	8 - 13	Total Vehicles	1, 2, 3	2	2 & 3	5	7	0	5 - 7	8 - 13	Total Vehicles	
Totals	10,167	3,216	950	514	496	50	15,393	9,434	2,624	859	453	106	13,922	29,315	5,764	3,102	4,105	4,709	5,960
7-10am	1,754	594	122	118	66	8	2,662	1,882	634	307	95	46	3,102	5,764	4,105	4,709	5,960	20,538	6,962
10am-1pm	1,177	530	205	39	119	16	2,086	1,238	427	211	47	20	2,019	4,105	4,709	5,960	20,538	6,962	7,796
1-4pm	1,581	530	217	98	149	7	2,582	1,495	325	137	91	10	2,127	4,709	5,960	20,538	6,962	7,796	21,736
4-7pm	2,523	523	242	171	98	9	3,566	1,906	357	61	38	4	2,394	5,960	20,538	6,962	7,796	21,736	21,736
7am-7pm	7,035	2,177	786	426	432	40	10,896	6,521	1,743	716	271	80	9,642	20,538	6,962	7,796	21,736	21,736	21,736
6-10am	2,004	663	135	138	72	9	3,021	2,309	779	353	221	56	3,941	6,962	7,796	21,736	21,736	21,736	21,736
3-7pm	3,201	735	319	239	137	10	4,641	2,496	450	100	69	6	3,155	7,796	21,736	21,736	21,736	21,736	21,736
6am-7pm	7,285	2,246	799	446	438	41	11,255	6,948	1,888	762	397	90	10,481	21,736	21,736	21,736	21,736	21,736	21,736

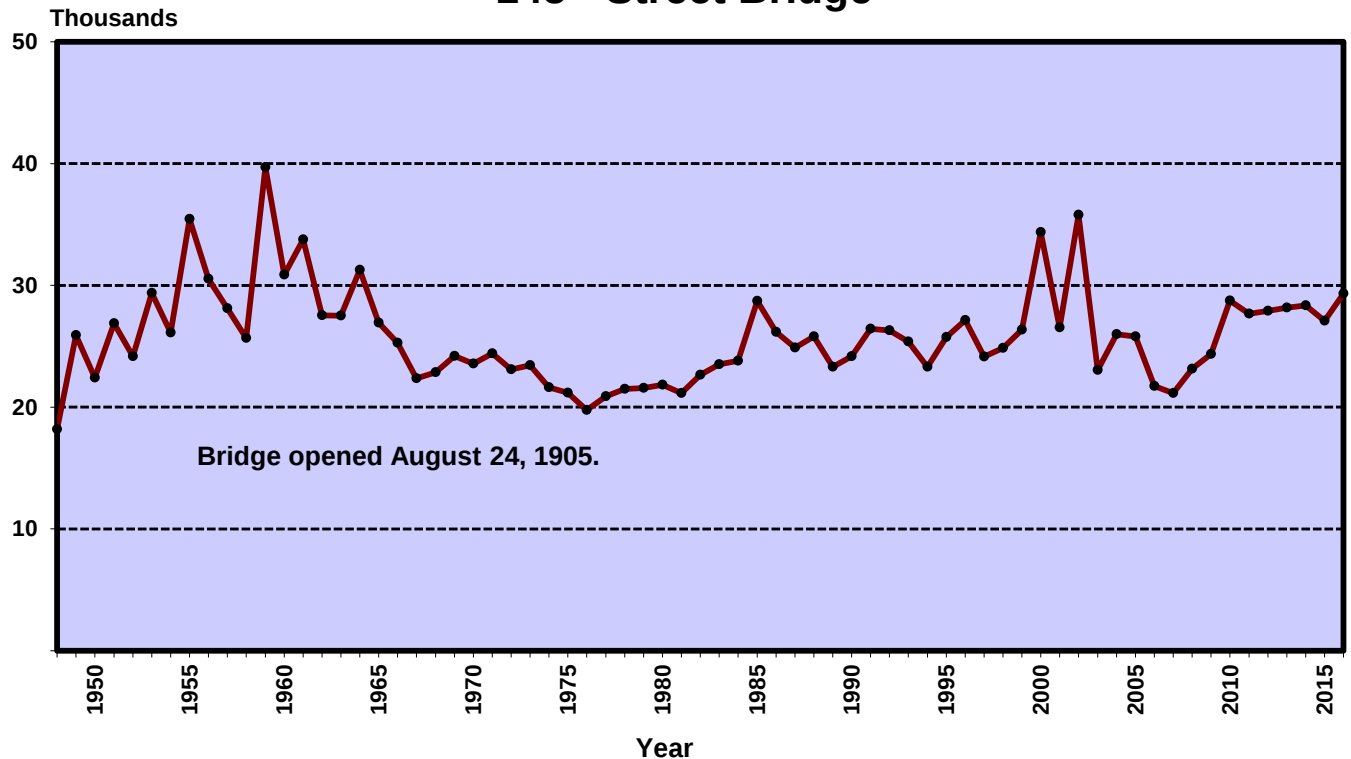
Based on October 2013 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes 145th Street Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions 145th Street Bridge



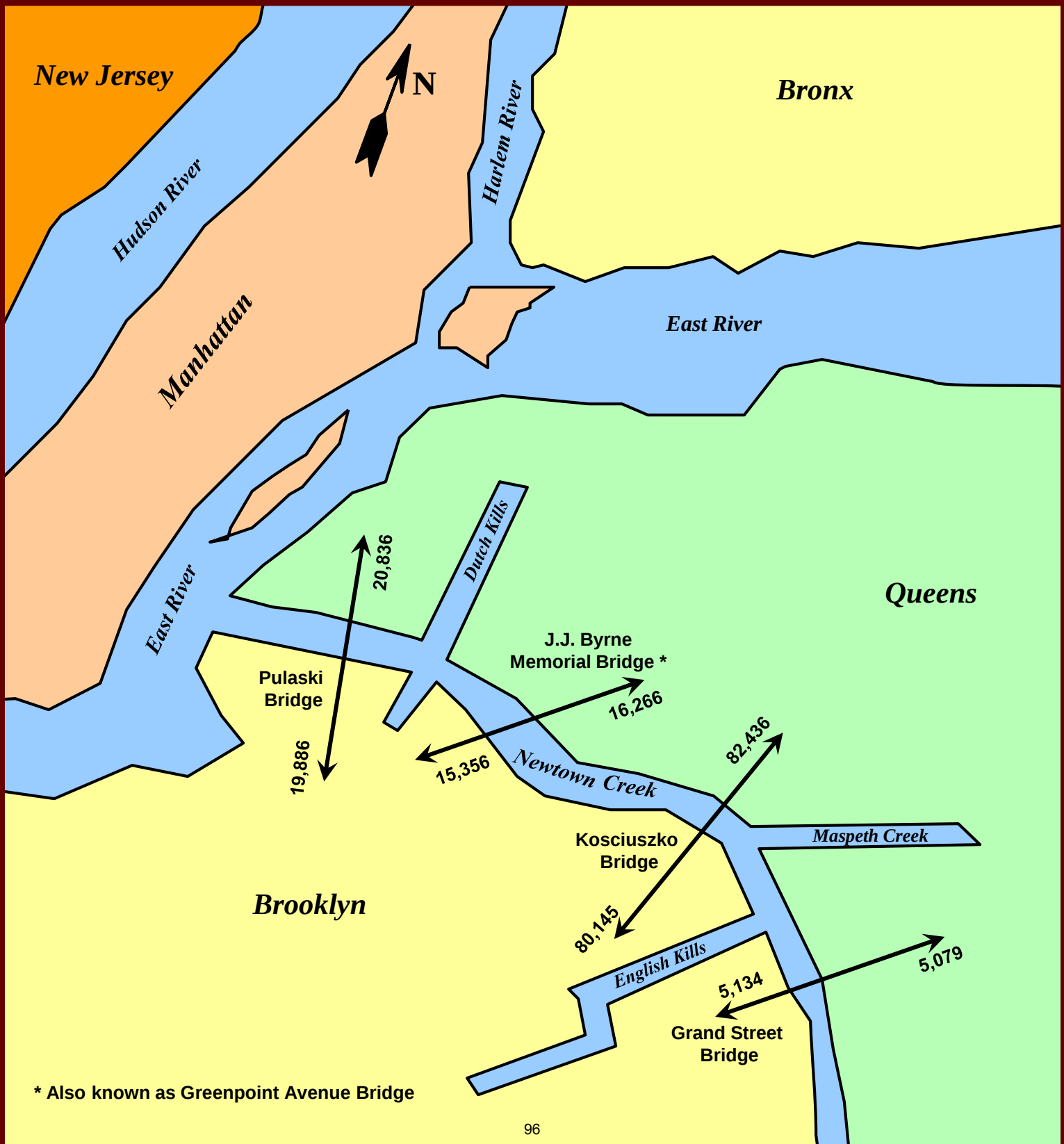
Brooklyn-Queens Bridges



Pulaski Bridge

Brooklyn-Queens Bridges

2016 Daily Volumes



Brooklyn - Queens Bridges ~ Average Daily Traffic Volumes

1948 - 2016

<i>Year</i>	<i>Grand Street Bridge</i>	<i>J.J. Byrne Memorial Bridge *</i>	<i>Kosciuszko Bridge</i>	<i>Pulaski Bridge</i>	<i>Totals</i>
1948	5,447	15,314	32,761	23,362	76,884
1949	6,007	14,499	30,827	14,445	65,778
1950	6,455	17,822	40,782	13,939	78,998
1951	6,295	21,594	44,886	22,705	95,480
1952	7,053	22,862	49,738	28,716	108,369
1953	7,685	24,360	53,213	23,460	108,718
1954	8,467	24,680	65,154	19,898	118,199
1955	8,040	22,055	53,563	32,360	116,018
1956	7,043	22,393	66,932	24,513	120,881
1957	6,408	23,801	78,216	29,185	137,610
1958	13,537	33,276	39,093	24,191	110,097
1959	11,373	18,702	92,192	21,870	144,137
1960	9,209	18,914	86,322	20,614	135,059
1961	10,843	18,028	93,055	23,935	145,861
1962	11,520	17,450	103,530	28,040	160,540
1963	12,020	17,630	102,190	28,560	160,400
1964	13,570	19,180	106,790	33,030	172,570
1965	8,065	21,965	110,764	30,585	171,379
1966	14,333	21,806	131,298	31,447	198,884
1967	13,437	23,827	132,586	27,845	197,695
1968	18,703	20,890	71,500	35,931	147,024
1969	14,148	24,549	126,858	33,474	199,029
1970	12,121	20,998	136,335	25,255	194,709
1971	11,710	19,189	139,912	29,813	200,624
1972	14,564	34,562	121,443	29,630	200,199
1973	11,723	26,798	99,044	30,472	168,037
1974	8,889	21,195	120,949	29,738	180,771
1975	4,271	19,669	140,882	29,712	194,534
1976	7,280	19,171	140,407	23,843	190,701
1977	8,052	16,513	142,185	25,682	192,432
1978	7,206	18,708	144,408	24,399	194,721
1979	8,912	17,914	141,154	33,334	201,314
1980	10,062	18,681	142,513	24,763	196,019
1981	8,898	15,470	153,985	23,134	201,487
1982	9,203	17,898	129,553	23,134	179,788
1983	10,787	16,528	165,958	28,430	221,703
1984	11,378	18,668	164,865	29,298	224,209
1985	13,791	Closed	168,680	42,579	225,050
1986	11,413	14,338	168,314	30,751	224,816
1987	12,838	14,066	181,056	31,015	238,975
1988	12,845	18,478	158,978	32,570	222,871
1989	13,041	17,473	176,288	33,087	239,889
1990	13,880	20,295	176,940	32,293	243,408
1991	13,940	24,375	166,340	31,817	236,472
1992	13,900	24,093	166,980	26,224	231,197
1993	12,448	25,701	166,592	25,279	230,020
1994	13,175	26,329	166,354	25,799	231,657
1995	13,250	26,936	168,639	28,480	237,305
1996	12,382	26,528	170,504	30,338	239,752
1997	12,875	24,937	189,210	31,563	258,585
1998	15,328	25,604	195,192	32,200	268,324
1999	14,390	26,613	194,784	30,975	266,762
2000	15,508	26,143	200,872	37,421	279,944
2001	13,895	26,766	196,565	39,062	276,288
2002	13,088	26,306	184,379	38,348	262,121
2003	14,139	28,755	194,497	38,346	275,737
2004	13,459	28,437	193,612	40,146	275,654
2005	13,016	29,449	198,813	38,911	280,189
2006	12,893	29,840	184,341	38,224	265,298
2007	12,585	27,027	186,493	37,221	263,326
2008	13,031	26,926	181,783	37,019	258,759
2009	12,576	26,637	188,322	36,103	263,638
2010	12,662	26,716	190,753	36,981	267,112
2011	12,320	25,709	191,624	37,422	267,075
2012	12,595	26,379	196,217	36,867	272,058
2013	13,843	25,701	191,225	39,076	269,845
2014	13,662	27,836	184,025	40,405	265,928
2015	12,546	28,361	179,137	40,485	260,529
2016	10,213	31,622	162,581	40,722	245,138

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

Hourly Vehicular Volumes

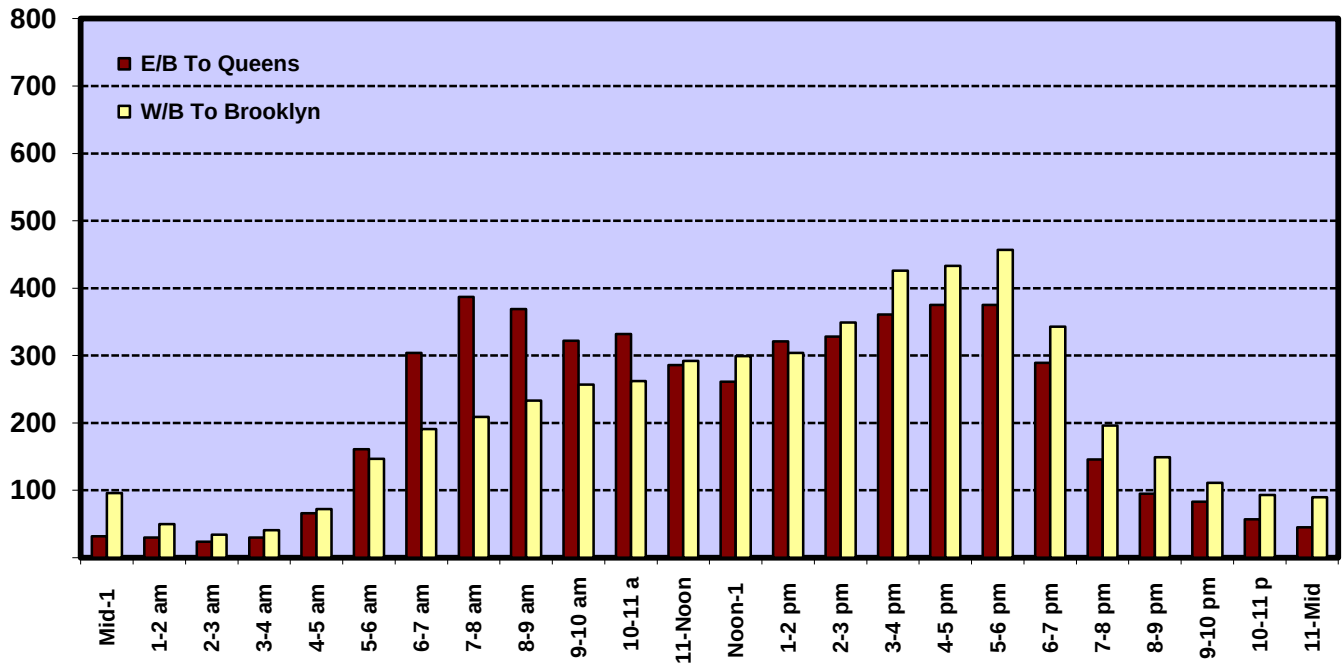
Grand Street Bridge - 2016

Eastbound to Queens							Westbound to Brooklyn							2-Way Totals
Autos	Buses	Commuter		Commercial		Totals	Autos	Buses	Commuter		Commercial		Totals	
		Vans	Trucks	Vans					Vans	Trucks	Vans			
12-1am	---	---	---	---	---	32	---	---	---	---	---	---	96	
1-2am	---	---	---	---	---	30	---	---	---	---	---	---	50	
2-3am	---	---	---	---	---	24	---	---	---	---	---	---	34	
3-4am	---	---	---	---	---	30	---	---	---	---	---	---	41	
4-5am	---	---	---	---	---	66	---	---	---	---	---	---	72	
5-6am	---	---	---	---	---	161	---	---	---	---	---	---	147	
6-7am	---	---	---	---	---	304	---	---	---	---	---	---	191	
7-8am	306	11	10	45	15	387	142	5	10	42	10	209	596	
8-9am	241	5	10	91	22	369	130	2	12	68	21	233	602	
9-10am	215	15	2	68	22	322	138	4	14	79	22	257	579	
10-11am	240	4	4	55	29	332	200	6	7	38	11	262	594	
11-12am	156	5	9	88	28	286	181	4	18	70	19	292	578	
12-1pm	219	6	2	27	7	261	242	7	10	32	8	299	560	
1-2pm	253	4	8	43	13	321	221	10	17	45	11	304	625	
2-3pm	204	8	9	80	27	328	184	4	24	109	28	349	677	
3-4pm	310	6	3	35	7	361	332	14	10	59	11	426	787	
4-5pm	301	10	10	39	15	375	319	8	22	66	18	433	808	
5-6pm	302	5	8	43	17	375	351	4	21	64	17	457	832	
6-7pm	228	4	6	39	12	289	286	7	16	30	4	343	632	
7-8pm	---	---	---	---	---	146	---	---	---	---	---	196	342	
8-9pm	---	---	---	---	---	95	---	---	---	---	---	149	244	
9-10pm	---	---	---	---	---	83	---	---	---	---	---	111	194	
10-11pm	---	---	---	---	---	57	---	---	---	---	---	93	150	
11-12pm	---	---	---	---	---	45	---	---	---	---	---	90	135	
Totals	---	---	---	---	---	5,079	---	---	---	---	---	5,134	10,213	
7-10am	762	31	22	204	59	1,078	410	11	36	189	53	699	1,777	
10am-1pm	615	15	15	170	64	879	623	17	35	140	38	853	1,732	
1-4pm	767	18	20	158	47	1,010	737	28	51	213	50	1,079	2,089	
4-7pm	831	19	24	121	44	1,039	956	19	59	160	39	1,233	2,272	
7am-7pm	2,975	83	81	653	214	4,006	2,726	75	181	702	180	3,864	7,870	
6-10am						1,382						890	2,272	
3-7pm	1,141	25	27	156	51	1,400	1,288	33	69	219	50	1,659	3,059	
6am-7pm						4,310						4,055	8,365	

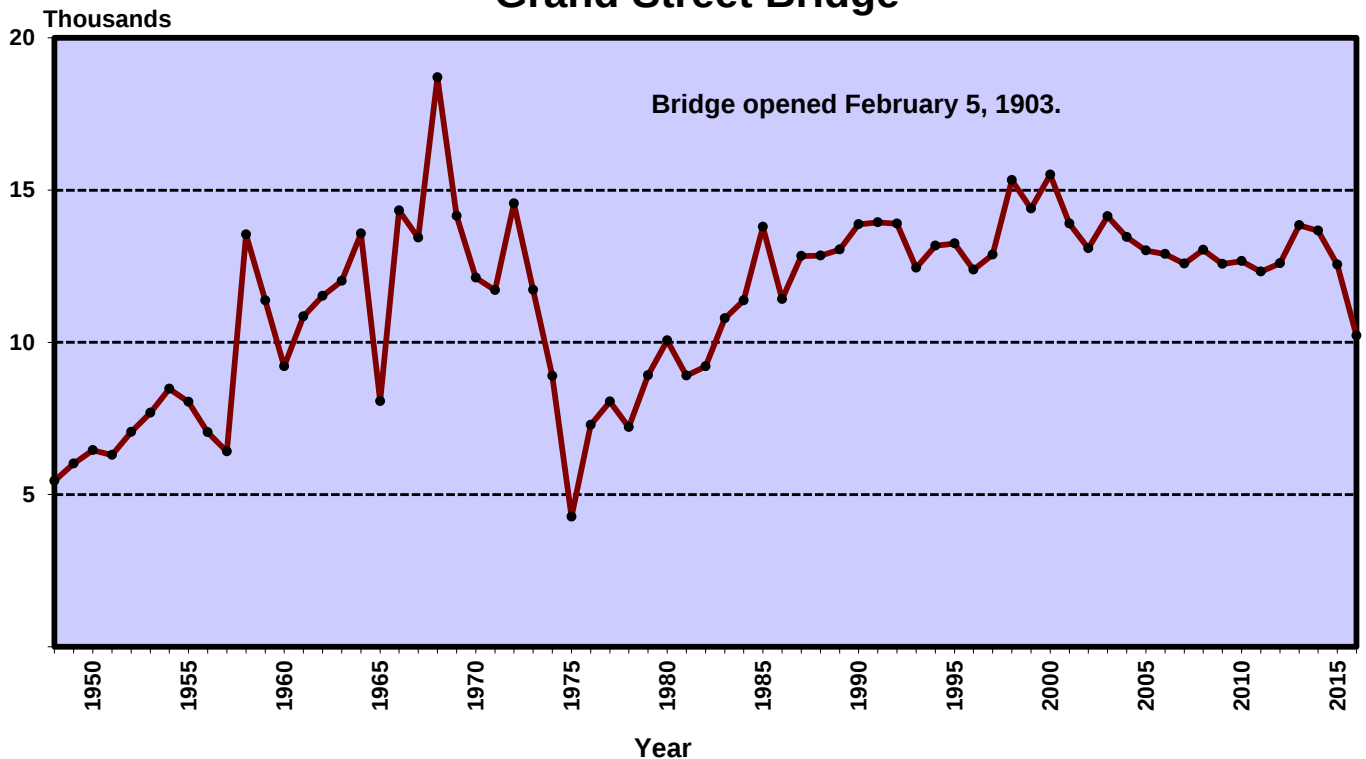
Based on September 1989 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Grand Street Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Grand Street Bridge



Hourly Vehicular Volumes

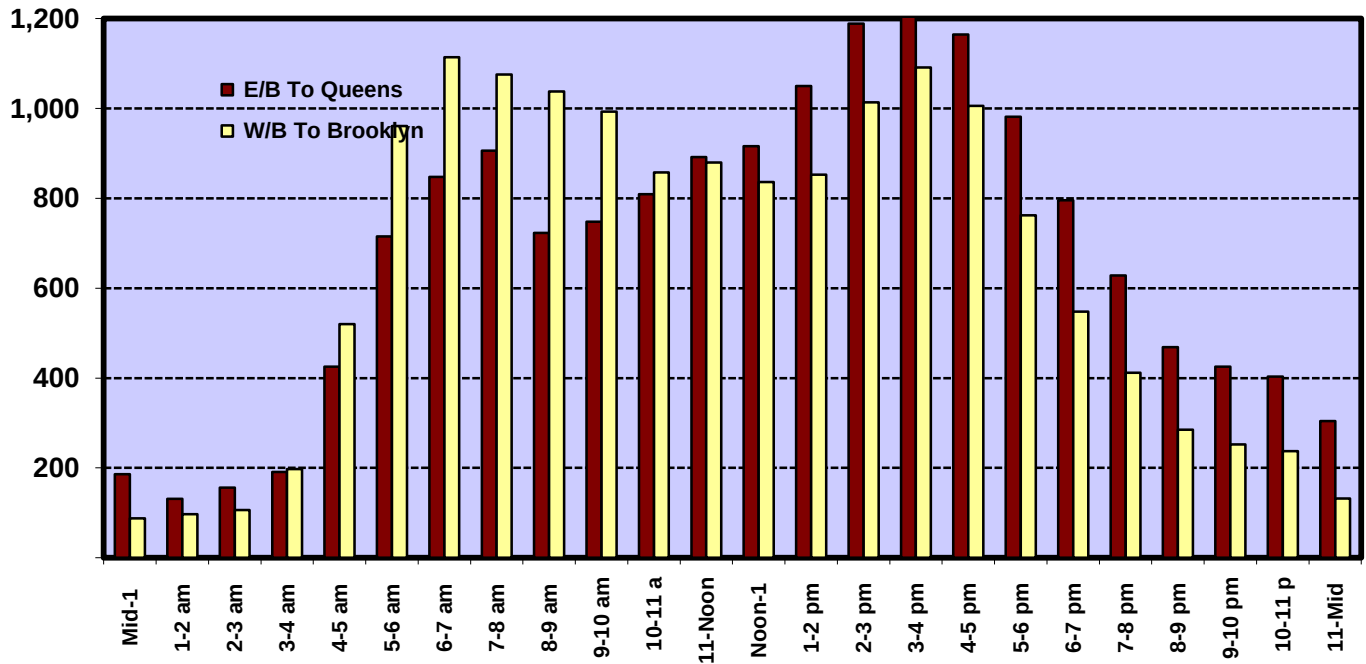
J.J. Byrne Memorial Bridge - 2016 (Greenpoint Avenue Bridge)

Eastbound to Queens										Westbound to Brooklyn											
FHWA Classes ▶	Commercial Vans, Panel Trucks,					Autos, Motorcycles					Commercial Vans, Panel Trucks,					Autos, Motorcycles					2-way Grand Totals
	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13	Total Vehicles	Single Unit Trucks	Multiple Unit Trucks	SUV's, Family Vans	Taxis, Liveries, Limos	Pickups, Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles					
12-1am	115	38	13	2	13	5	186			67	5	4	1	6	5	88					
1-2am	71	40	3	2	10	5	131			51	17	12	0	5	12	97					
2-3am	65	45	14	2	18	12	156			45	10	20	2	17	12	106					
3-4am	86	36	16	7	30	16	191			93	11	37	2	28	26	197					
4-5am	178	46	57	0	98	46	425			260	18	106	6	71	59	520					
5-6am	455	34	64	8	84	70	715			678	35	87	39	74	48	961					
6-7am	571	25	91	14	97	50	848			820	10	135	24	111	14	1,114	**				
7-8am	604	21	102	15	144	20	906			773	24	100	14	132	33	1,076					
8-9am	453	19	106	19	115	11	723			661	53	173	23	110	18	1,038					
9-10am	435	40	132	13	104	24	748			555	66	148	11	185	28	993					
10-11am	448	42	140	10	137	32	809			530	60	120	8	122	18	858					
11-12am	484	57	146	9	163	33	892			555	61	89	14	142	19	880					
12-1pm	518	60	177	9	127	25	916			513	76	104	5	122	16	836					
1-2pm	611	46	160	2	200	31	1,050			530	78	93	10	129	13	853					
2-3pm	752	48	204	0	155	30	1,189			727	75	77	8	100	27	1,014					
3-4pm	808	44	179	9	138	31	1,209	**		780	76	95	9	114	17	1,091	**				
4-5pm	858	32	151	10	101	13	1,165			709	79	115	7	80	16	1,006					
5-6pm	750	53	111	3	62	3	982			577	49	68	5	59	4	762					
6-7pm	638	37	68	7	33	13	796			444	32	30	10	28	4	548					
7-8pm	496	37	34	9	41	11	628			334	28	28	4	11	7	412					
8-9pm	370	37	33	4	15	10	469			233	10	26	3	7	6	285					
9-10pm	327	48	12	5	18	15	425			204	12	17	5	10	4	252					
10-11pm	299	46	21	8	21	8	403			197	8	14	5	8	5	237					
11-12pm	212	41	20	5	18	8	304			98	6	9	2	13	4	132					
Totals	10,604	972	2,054	172	1,942	522	16,266			10,434	899	1,707	217	1,684	415	15,356	31,622				
7-10am	1,492	80	340	47	363	55	2,377			1,989	143	421	48	427	79	3,107	5,484				
10am-1pm	1,450	159	463	28	427	90	2,617			1,598	197	313	27	386	53	2,574	5,191				
1-4pm	2,171	138	543	11	493	92	3,448			2,037	229	265	27	343	57	2,958	6,406				
4-7pm	2,246	122	330	20	196	29	2,943			1,730	160	213	22	167	24	2,316	5,259				
7am-7pm	7,359	499	1,676	106	1,479	266	11,385			7,354	729	1,212	124	1,323	213	10,955	22,340				
6-10am	2,063	105	431	61	460	105	3,225			2,809	153	556	72	538	93	4,221	7,446				
3-7pm	3,054	166	509	29	334	60	4,152			2,510	236	308	31	281	41	3,407	7,559				
6am-7pm	7,930	524	1,767	120	1,576	316	12,233			8,174	739	1,347	148	1,434	227	12,069	24,302				

Based on October 2014 Classification Survey Data.

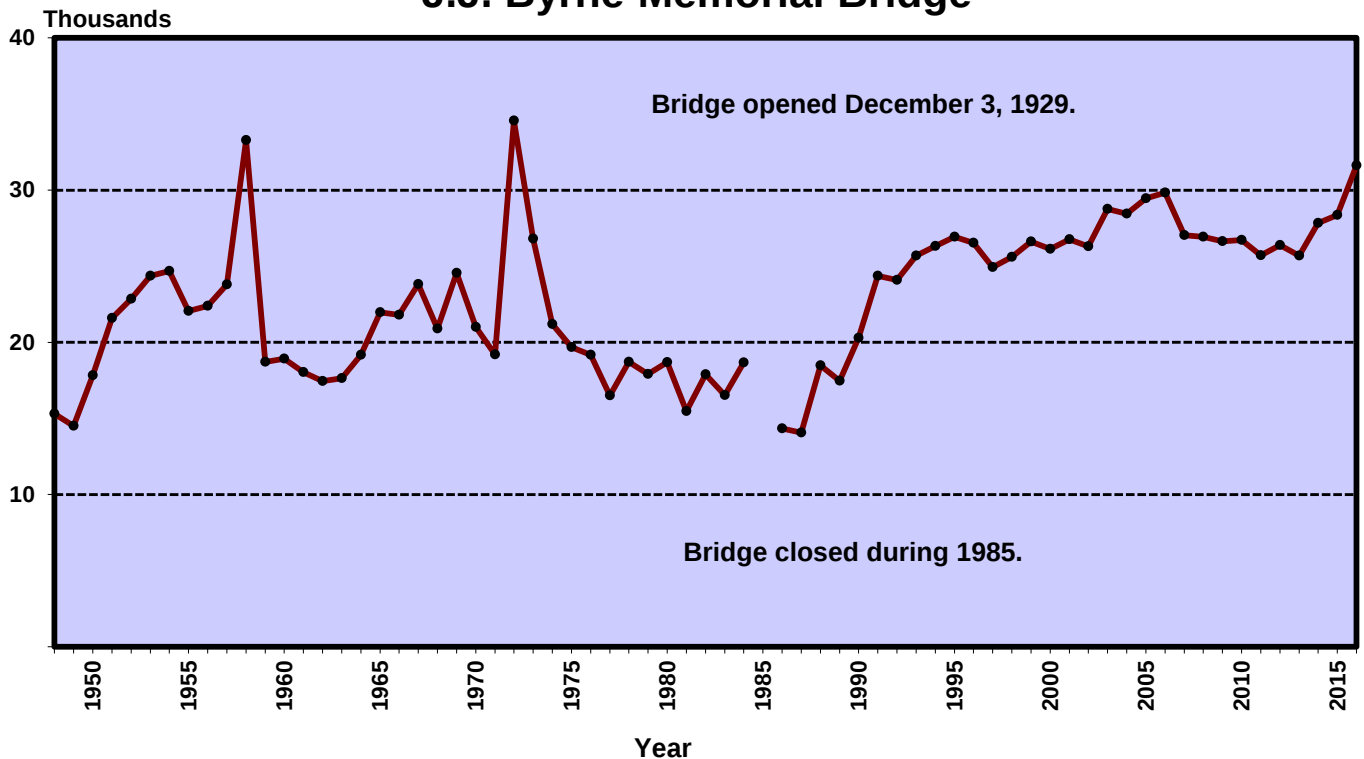
** Peak Volumes

Hourly Vehicular Volumes J.J. Byrne Memorial Bridge ~ 2016



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

Average Daily Traffic Volumes ~ Total of Both Directions J.J. Byrne Memorial Bridge



Hourly Vehicular Volumes

Kosciuszko Bridge - 2016

Eastbound to Queens

FHWA Classes ▶	Commercial Vans, Panel Trucks, Pickups, Police, Fleet Vehicles									
	Autos, Motorcycles		Taxis, Liveries, Limos		Buses		Single Unit Trucks		Multiple Unit Trucks	
	1, 2, 3	2	2	2 & 3	4	4	5 - 7	8 - 13	Total Vehicles	
12-1am	2,072	402		136	10		49	109	2,778	
1-2am	1,373	308		89	2		107	115	1,994	
2-3am	866	223		70	0		141	209	1,509	
3-4am	740	142		72	6		120	219	1,299	
4-5am	1,189	164		128	8		232	363	2,084	
5-6am	2,173	207		223	16		237	409	3,265	
6-7am	2,571	211		326	49		318	222	3,697	
7-8am	2,927	139		384	35		313	188	3,986	
8-9am	2,735	152		485	48		347	163	3,930	
9-10am	2,310	181		527	28		421	262	3,729	
10-11am	2,122	199		540	48		451	242	3,602	
11-12am	2,231	203		551	24		428	215	3,652	
12-1pm	2,490	187		552	21		426	187	3,863	
1-2pm	2,437	171		636	20		370	197	3,831	
2-3pm	2,578	185		656	21		402	133	3,975	
3-4pm	2,581	157		705	25		285	68	3,821	
4-5pm	2,893	132		686	10		214	72	4,007	
5-6pm	3,316	117		576	24		180	68	4,281	**
6-7pm	3,399	165		430	22		185	55	4,256	
7-8pm	3,471	173		337	18		158	70	4,227	
8-9pm	3,309	196		257	34		95	77	3,968	
9-10pm	3,224	271		192	16		79	68	3,850	
10-11pm	2,929	239		163	8		62	80	3,481	
11-12pm	2,793	261		135	10		56	96	3,351	
Totals	58,729	4,785		8,856	503		5,676	3,887	82,436	

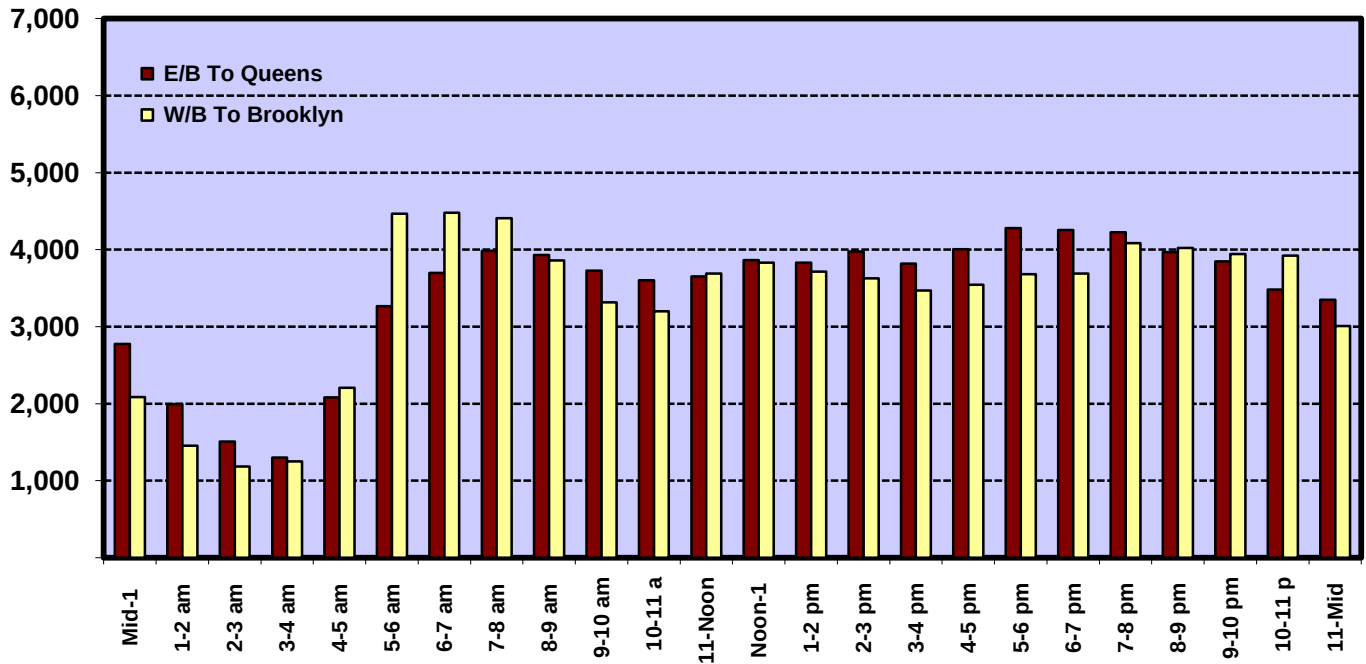
Westbound to Brooklyn

FHWA Classes ▶	Commercial Vans, Panel Trucks, Pickups, Police, Fleet Vehicles									
	Autos, Motorcycles		Taxis, Liveries, Limos		Buses		Single Unit Trucks		Multiple Unit Trucks	
	1, 2, 3	2	2	2 & 3	4	4	5 - 7	8 - 13	Total Vehicles	
12-1am	1,515	302		65	8		79	116	2,085	
1-2am	933	243		79	0		93	107	1,455	
2-3am	671	171		70	7		98	166	1,183	
3-4am	778	145		80	0		119	131	1,253	
4-5am	1,479	241		162	5		187	133	2,207	
5-6am	2,774	277		943	17		312	144	4,467	
6-7am	2,996	173		561	45		534	170	4,479	**
7-8am	3,167	87		635	23		366	130	4,408	
8-9am	2,680	75		601	15		353	138	3,862	
9-10am	2,147	65		453	25		418	208	3,316	
10-11am	2,222	73		420	26		327	132	3,200	
11-12am	2,494	97		485	24		389	203	3,692	
12-1pm	2,611	109		483	34		413	182	3,832	
1-2pm	2,565	85		455	35		444	130	3,714	
2-3pm	2,734	101		331	21		374	66	3,627	
3-4pm	2,610	92		352	36		307	71	3,468	
4-5pm	2,854	94		301	24		215	55	3,543	
5-6pm	3,134	118		199	9		188	34	3,682	
6-7pm	3,225	139		140	16		130	41	3,691	
7-8pm	3,572	173		168	22		123	25	4,083	
8-9pm	3,553	176		123	14		118	38	4,022	
9-10pm	3,415	226		89	48		105	62	3,945	
10-11pm	3,078	452		164	12		102	114	3,922	
11-12pm	2,192	548		105	10		42	112	3,009	
Totals	59,399	4,262		7,464	476		5,836	2,708	80,145	

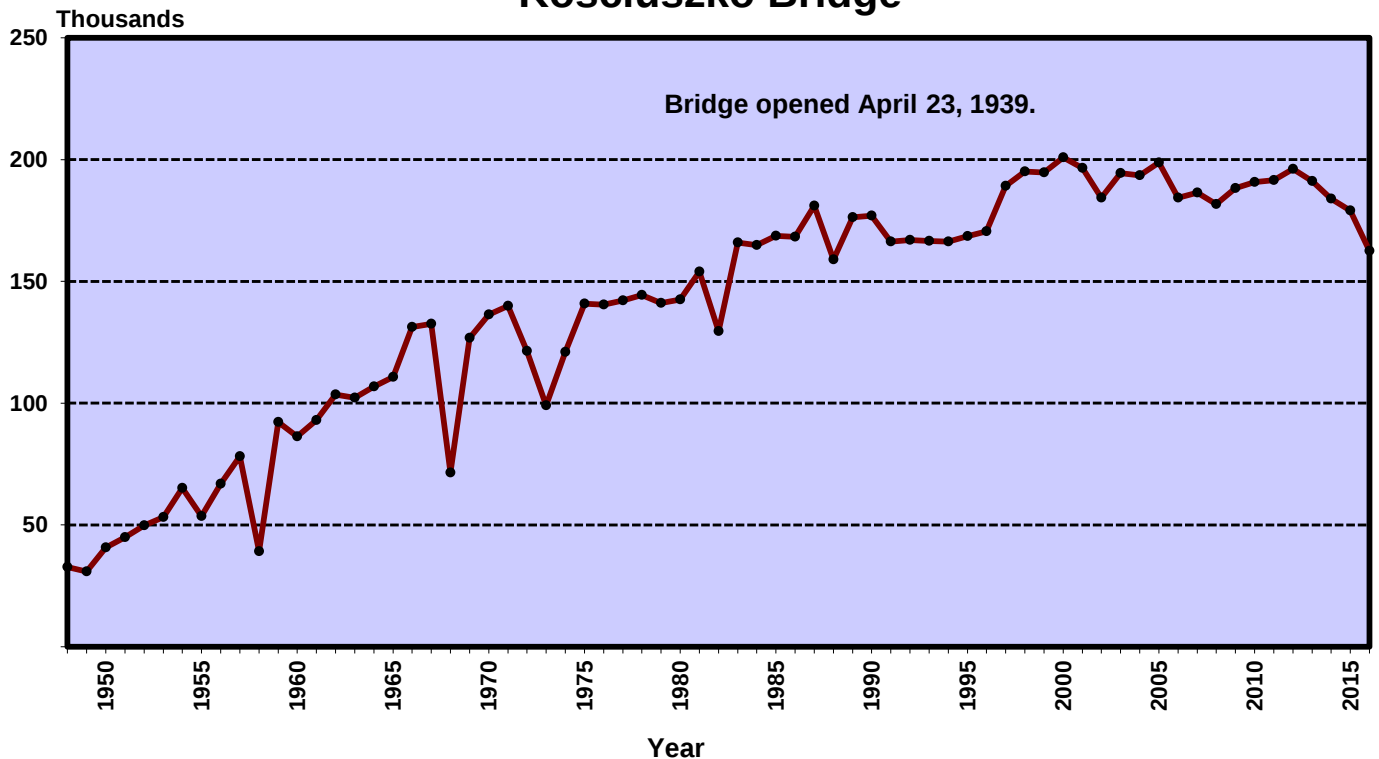
Based on November 2014 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Kosciuszko Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Kosciuszko Bridge

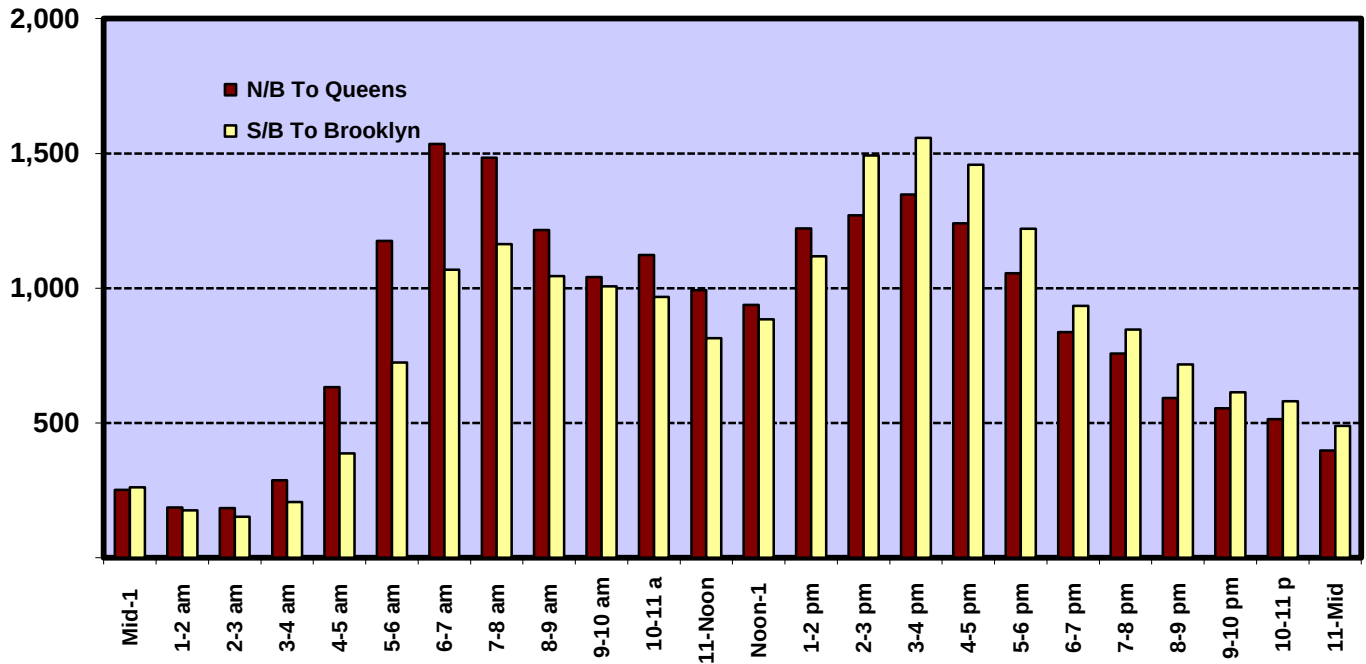


Pulaski Bridge - 2016

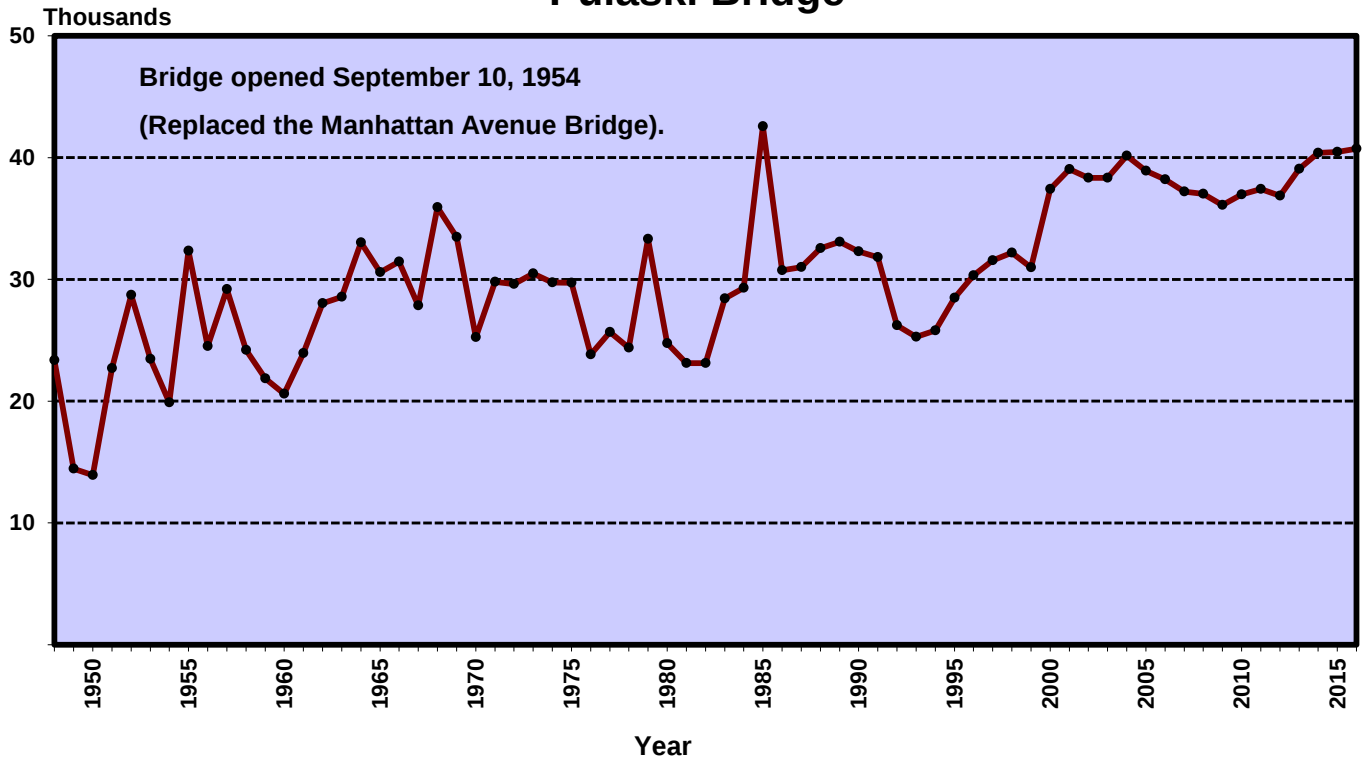
Commercial Vans, Panel Trucks, Autos, Motorcycles														Commercial Vans, Panel Trucks, Autos, Motorcycles														Commercial Vans, Panel Trucks, Autos, Motorcycles														2-way Grand Totals
FHWA Classes ▶	Autos, Motorcycles SUVs, Family Vans				Taxis, Liveries, Limos				Panel Trucks, Police, Fleet Vehicles				Buses				Single Unit Trucks				Multiple Unit Trucks				Total Vehicles																	
	1, 2, 3	2	2 & 3	4	5	6	7	8 - 13	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																		
12-1am	156	80	5	2	9	0	252	152	94	6	3	5	1	261	513																											
1-2am	74	98	2	2	11	0	187	85	76	2	1	8	4	176	363																											
2-3am	72	94	10	4	3	1	184	72	66	4	1	7	2	152	336																											
3-4am	130	126	17	1	13	0	287	107	77	8	2	9	4	207	494																											
4-5am	374	189	18	8	41	3	633	230	88	21	9	26	13	387	1,020																											
5-6am	921	134	42	16	49	13	1,175	515	107	44	14	37	7	724	1,899																											
6-7am	1,244	61	97	62	49	22	1,535	818	80	56	31	69	15	1,069	2,604																											
7-8am	1,145	46	184	26	69	14	1,484	842	64	122	29	87	19	1,163	2,647																											
8-9am	915	46	146	10	86	13	1,216	751	38	120	48	80	8	1,045	2,261																											
9-10am	703	46	198	16	74	4	1,041	719	46	128	37	65	12	1,007	2,048																											
10-11am	725	67	179	33	108	11	1,123	678	53	116	25	77	19	968	2,091																											
11-12am	667	49	176	12	76	13	993	561	41	97	20	85	11	815	1,808																											
12-1pm	631	40	158	12	93	4	938	631	32	106	19	74	22	884	1,822																											
1-2pm	818	35	196	38	123	12	1,222	798	37	131	35	103	14	1,118	2,340																											
2-3pm	914	46	144	30	126	11	1,271	1,047	45	219	31	123	27	1,492	2,763																											
3-4pm	943	77	152	28	140	7	1,347	1,209	59	134	46	102	8	1,558	2,905																											
4-5pm	941	105	102	16	68	9	1,241	1,141	77	117	42	63	18	1,458	2,699																											
5-6pm	855	79	68	11	34	8	1,055	961	71	116	20	36	16	1,220	2,275																											
6-7pm	697	48	49	7	27	9	837	758	82	47	11	25	11	934	1,771																											
7-8pm	631	46	35	12	33	0	757	681	76	28	9	45	8	847	1,604																											
8-9pm	479	65	17	8	21	2	592	557	94	32	10	16	8	717	1,309																											
9-10pm	443	63	16	7	21	4	554	474	105	15	6	11	3	614	1,168																											
10-11pm	399	65	15	6	27	2	514	416	121	21	4	12	7	581	1,095																											
11-12pm	307	59	9	7	14	2	398	342	120	3	4	13	7	489	887																											
Totals	15,184	1,764	2,035	374	1,315	164	20,836	14,545	1,749	1,693	457	1,178	264	19,886	40,722																											
7-10am	2,763	138	528	52	229	31	3,741	2,312	148	370	114	232	39	3,215	6,956																											
10am-1pm	2,023	156	513	57	277	28	3,054	1,870	126	319	64	236	52	2,667	5,721																											
1-4pm	2,675	158	492	96	389	30	3,840	3,054	141	484	112	328	49	4,168	8,008																											
4-7pm	2,493	232	219	34	129	26	3,133	2,860	230	280	73	124	45	3,612	6,745																											
7am-7pm	9,954	684	1,752	239	1,024	115	13,768	10,096	645	1,453	363	920	185	13,662	27,430																											
6-10am	4,007	199	625	114	278	53	5,276	3,130	228	426	145	301	54	4,284	9,560																											
3-7pm	3,436	309	371	62	269	33	4,480	4,069	289	414	119	226	53	5,170	9,650																											
6am-7pm	11,198	745	1,849	301	1,073	137	15,303	10,914	725	1,509	394	989	200	14,731	30,034																											

** Peak Volumes

Hourly Vehicular Volumes Pulaski Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Pulaski Bridge



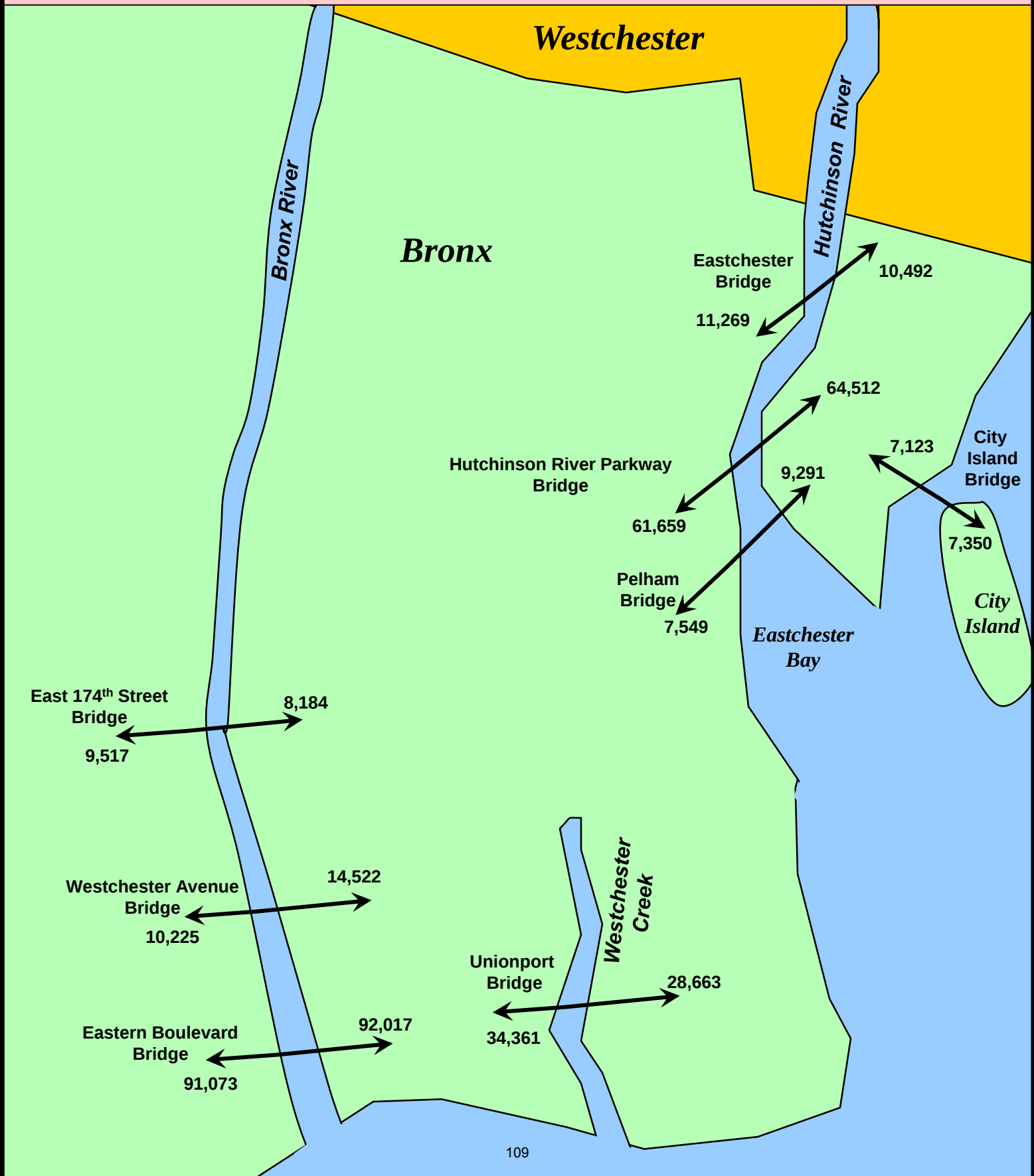
Bronx Bridges



Pelham Bridge

Bronx Bridges

2016 Daily Volumes



Bronx Bridges
Average Daily Traffic Volumes
1948 - 2016

<i>Year</i>	<i>City Island</i>	<i>East 174th Street</i>	<i>Eastchester</i>	<i>Eastern Boulevard</i>	<i>Hutchinson River Pky</i>
1948	4,249	8,995	15,012	44,563	15,085
1949	4,078	8,287	11,322	42,615	20,087
1950	3,712	10,607	13,715	48,184	21,513
1951	3,588	11,187	14,992	46,804	21,237
1952	3,474	11,588	15,964	68,245	24,247
1953	4,850	9,996	14,341	58,492	32,805
1954	3,969	11,299	15,079	78,010	24,706
1955	3,855	11,533	14,087	60,892	27,337
1956	5,377	8,329	14,715	63,449	37,155
1957	5,301	8,873	13,163	60,323	33,533
1958	3,925	6,927	11,192	56,647	34,067
1959	4,442	8,539	11,728	50,787	31,559
1960	6,071	9,259	9,527	67,082	33,048
1961	7,167	12,863	5,491	71,734	34,858
1962	6,030	12,420	8,590	85,070	28,330
1963	7,210	9,190	10,840	80,840	35,690
1964	8,930	10,540	11,480	94,660	37,790
1965	9,909	10,272	12,853	94,167	48,870
1966	7,512	10,867	12,000	88,510	52,483
1967	8,269	12,583	12,000	70,612	47,693
1968	8,508	12,296	11,472	82,581	50,427
1969	9,267	11,034	13,940	93,850	48,629
1970	8,996	10,924	15,977	106,685	42,887
1971	8,724	10,473	26,743	126,757	49,136
1972	9,433	10,676	22,801	145,755	47,487
1973	12,481	11,909	21,800	104,293	51,137
1974	10,009	9,994	20,724	124,668	47,737
1975	11,836	9,356	20,599	123,389	51,629
1976	10,112	9,632	17,351	124,087	52,498
1977	10,073	7,493	17,935	114,478	51,613
1978	10,559	7,967	19,595	122,745	68,239
1979	10,355	6,203	16,893	128,836	47,187
1980	9,922	6,328	17,644	126,040	57,192
1981	10,216	6,037	17,723	125,133	59,824
1982	10,447	6,641	18,848	125,945	69,091
1983	11,056	10,252	18,162	130,492	59,615
1984	11,715	10,134	21,448	136,387	69,925
1985	10,180	<i>Closed</i>	20,955	138,725	59,455
1986	14,063	9,632	20,571	147,789	78,211
1987	12,639	10,489	22,870	154,741	79,179
1988	13,444	10,659	23,275	154,385	80,904
1989	13,843	11,574	19,307	136,008	85,410
1990	16,240	13,702	20,559	117,384	91,280
1991	15,299	14,587	20,520	122,414	76,794
1992	13,960	15,558	20,783	123,097	76,641
1993	13,938	13,734	20,825	128,713	78,053
1994	13,867	12,876	19,997	125,592	80,773
1995	14,911	12,428	18,872	130,647	85,985
1996	14,062	12,719	20,172	133,517	84,158
1997	14,264	11,955	21,001	133,278	85,703
1998	14,954	13,758	21,415	151,238	93,304
1999	16,863	5,667	21,510	157,987	98,700
2000	18,844	11,838	22,583	163,954	105,792
2001	20,012	12,093	22,810	169,437	108,191
2002	16,637	12,786	22,255	178,983	110,141
2003	14,617	14,229	24,193	170,735	117,195
2004	14,528	12,184	22,480	178,724	119,029
2005	15,297	13,632	22,318	183,743	118,387
2006	15,339	13,662	20,890	182,579	120,599
2007	15,188	14,436	21,431	180,128	117,660
2008	15,955	14,158	20,842	174,597	121,499
2009	14,313	14,130	20,329	176,800	119,285
2010	15,380	16,499	25,374	174,168	122,416
2011	14,480	15,940	21,292	175,020	115,574
2012	16,424	15,534	21,483	168,451	118,000
2013	16,431	15,273	21,393	175,436	120,999
2014	15,915	16,144	24,071	176,945	121,281
2015	15,292	16,556	22,317	177,999	124,390
2016	14,473	17,701	21,761	183,090	126,171

Bronx Bridges (cont'd)
Average Daily Traffic Volumes
1948 - 2016

<i>Year</i>	<i>Pelham</i>	<i>Unionport</i>	<i>Westchester Avenue</i>	<i>Totals</i>
1948	5,084	37,359	10,900	141,247
1949	5,252	30,278	13,763	135,682
1950	5,872	32,969	14,401	150,973
1951	4,357	30,100	12,962	145,227
1952	4,511	40,854	14,570	183,453
1953	4,331	38,468	14,716	177,999
1954	5,998	28,890	15,106	183,057
1955	4,122	45,292	13,131	180,249
1956	6,908	47,992	13,884	197,809
1957	6,824	45,010	11,004	184,031
1958	5,599	69,044	9,547	196,948
1959	5,731	62,198	13,547	188,531
1960	6,844	59,433	14,493	205,757
1961	9,857	107,115	10,820	259,905
1962	6,410	104,820	11,350	263,020
1963	9,780	113,680	24,010	291,240
1964	11,010	134,200	19,580	328,190
1965	13,345	139,724	22,218	351,358
1966	10,064	149,176	23,417	354,029
1967	11,025	149,032	26,768	337,982
1968	15,521	177,024	31,690	389,519
1969	11,624	168,297	22,213	378,854
1970	11,320	146,748	23,067	366,604
1971	13,098	135,254	20,855	391,040
1972	16,440	70,659	22,291	345,542
1973	10,852	30,459	29,185	272,116
1974	12,963	33,528	22,386	282,009
1975	12,992	34,648	20,323	284,772
1976	13,284	29,903	23,448	280,315
1977	12,177	33,289	21,422	268,480
1978	14,866	36,515	20,762	301,248
1979	12,978	34,574	20,640	277,666
1980	16,327	28,702	22,228	284,383
1981	13,210	34,492	21,298	287,933
1982	Closed	37,935	22,693	291,600
1983	10,740	38,676	22,693	301,686
1984	14,862	41,548	Closed	306,019
1985	12,603	42,915	26,239	311,072
1986	15,753	45,382	24,856	356,257
1987	14,498	45,450	22,624	362,490
1988	15,144	41,573	25,186	364,570
1989	15,644	43,696	29,445	354,927
1990	18,728	38,541	27,140	343,574
1991	20,917	37,842	30,548	338,921
1992	23,895	40,348	29,462	343,744
1993	20,235	40,385	20,893	336,776
1994	23,960	41,910	21,540	340,515
1995	23,598	39,811	21,757	348,009
1996	24,807	47,953	24,117	361,505
1997	22,963	47,941	25,741	362,846
1998	23,264	48,975	25,863	392,771
1999	21,430	50,563	31,214	403,934
2000	23,007	49,006	29,922	424,946
2001	22,694	52,418	31,584	439,239
2002	15,663	51,347	29,551	437,363
2003	18,023	60,993	28,201	448,186
2004	18,292	60,908	26,861	453,006
2005	17,972	60,605	27,195	459,149
2006	16,749	61,262	24,921	456,001
2007	19,041	59,906	25,846	453,636
2008	19,131	62,342	25,789	454,313
2009	17,521	61,700	25,131	449,209
2010	17,159	64,098	25,978	461,072
2011	16,966	61,619	26,287	447,178
2012	17,668	62,845	27,408	447,813
2013	18,330	61,892	26,976	456,730
2014	18,117	62,715	25,204	460,392
2015	17,241	62,410	26,011	462,216
2016	16,840	63,024	24,747	467,807

Hourly Vehicular Volumes

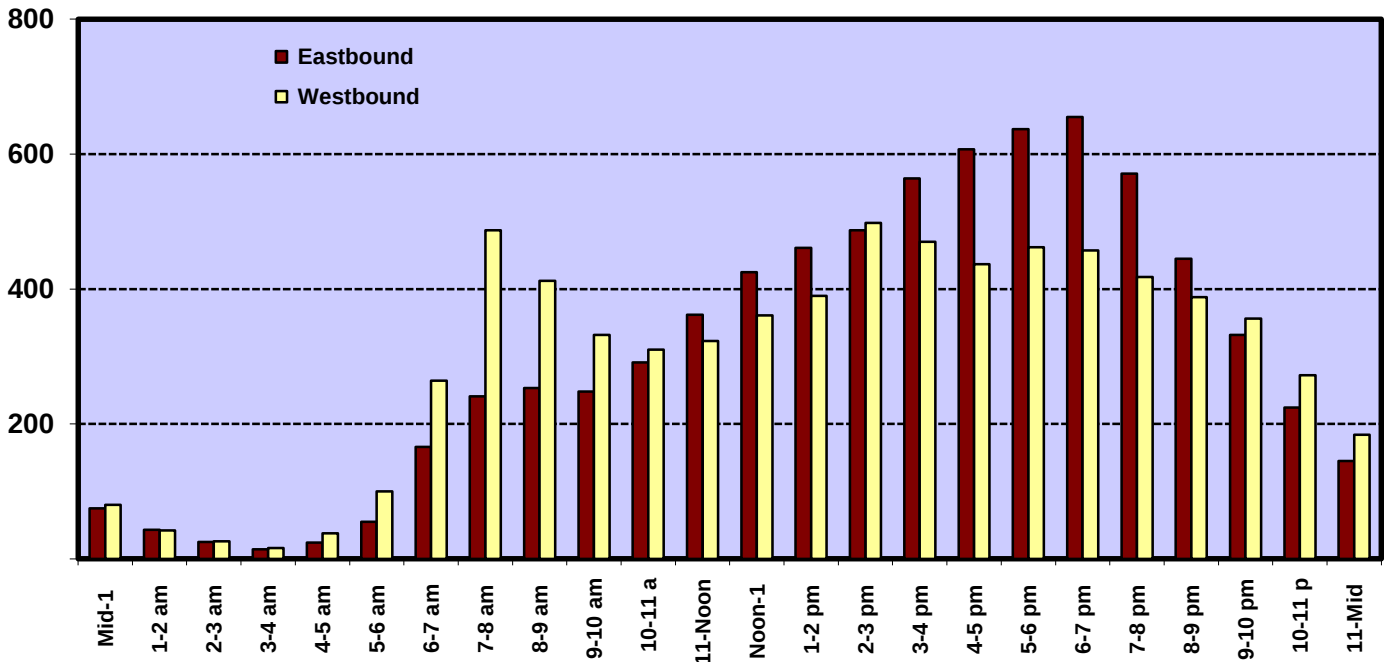
City Island Bridge - 2016

	Eastbound						Westbound						2-Way Totals
	Autos	Buses	Commuter		Commercial		Autos	Buses	Commuter		Commercial		
			Vans	Trucks	Vans	Totals			Vans	Trucks	Vans	Totals	
12-1am	---	---	---	---	---	75	---	---	---	---	---	---	80
1-2am	---	---	---	---	---	43	---	---	---	---	---	---	42
2-3am	---	---	---	---	---	25	---	---	---	---	---	---	26
3-4am	---	---	---	---	---	14	---	---	---	---	---	---	16
4-5am	---	---	---	---	---	24	---	---	---	---	---	---	38
5-6am	---	---	---	---	---	55	---	---	---	---	---	---	100
6-7am	---	---	---	---	---	166	---	---	---	---	---	---	264
7-8am	200	8	11	5	17	241	440	10	0	18	19	487	728
8-9am	197	11	10	6	29	253	358	13	0	13	28	412	665
9-10am	207	4	4	7	26	248	301	4	0	9	18	332	580
10-11am	272	0	4	6	9	291	297	3	1	7	2	310	601
11-12am	310	5	9	6	32	362	312	6	0	2	3	323	685
12-1pm	392	2	8	3	20	425	347	8	0	4	2	361	786
1-2pm	431	2	1	6	21	461	366	2	0	5	17	390	851
2-3pm	407	9	13	19	39	487	429	11	2	23	33	498	985
3-4pm	527	11	6	7	13	564	442	14	0	5	9	470	1,034
4-5pm	529	2	22	11	43	607	403	2	0	7	25	437	1,044
5-6pm	591	6	12	7	21	637	430	5	0	9	18	462	1,099
6-7pm	618	5	6	9	17	655	433	6	0	8	10	457	1,112
7-8pm	---	---	---	---	---	571	---	---	---	---	---	418	989
8-9pm	---	---	---	---	---	445	---	---	---	---	---	388	833
9-10pm	---	---	---	---	---	332	---	---	---	---	---	356	688
10-11pm	---	---	---	---	---	224	---	---	---	---	---	272	496
11-12pm	---	---	---	---	---	145	---	---	---	---	---	184	329
Totals	---	---	---	---	---	7,350	---	---	---	---	---	7,123	14,473
7-10am	604	23	25	18	72	742	1,099	27	0	40	65	1,231	1,973
10am-1pm	974	7	21	15	61	1,078	956	17	1	13	7	994	2,072
1-4pm	1,365	22	20	32	73	1,512	1,237	27	2	33	59	1,358	2,870
4-7pm	1,738	13	40	27	81	1,899	1,266	13	0	24	53	1,356	3,255
7am-7pm	4,681	65	106	92	287	5,231	4,558	84	3	110	184	4,939	10,170
6-10am						908						1,495	2,403
3-7pm	2,265	24	46	34	94	2,463	1,708	27	0	29	62	1,826	4,289
6am-7pm						5,397						5,203	10,600

Based on September 1989 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes City Island Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions City Island Bridge



Hourly Vehicular Volumes

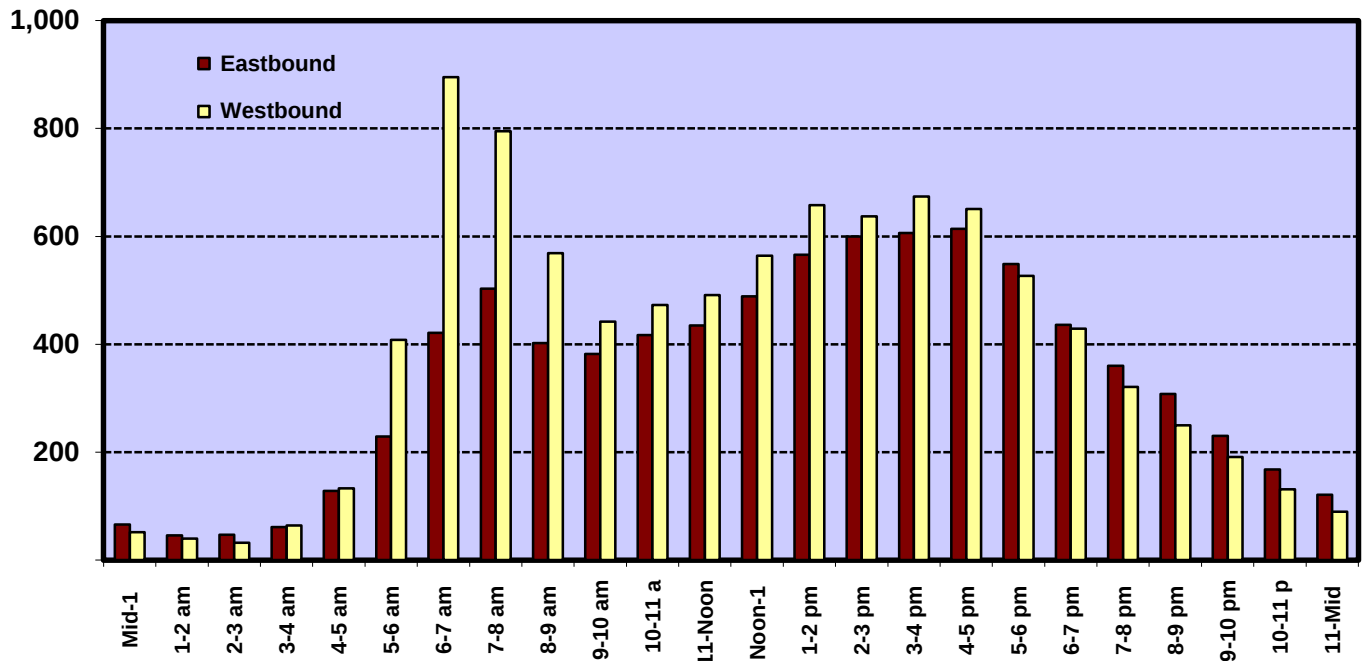
East 174th Street Bridge - 2016

	Eastbound						Westbound						2-Way Totals		
	Autos	Commuter			Commercial		Totals	Autos	Buses	Commuter		Commercial		Totals	
		Buses	Vans	Trucks	Vans	Trucks				Vans	Trucks	Vans			Trucks
12-1am	---	---	---	---	---	66	---	---	---	---	---	---	---	52	118
1-2am	---	---	---	---	---	46	---	---	---	---	---	---	---	40	86
2-3am	---	---	---	---	---	47	---	---	---	---	---	---	---	32	79
3-4am	---	---	---	---	---	61	---	---	---	---	---	---	---	64	125
4-5am	---	---	---	---	---	128	---	---	---	---	---	---	---	133	261
5-6am	---	---	---	---	---	229	---	---	---	---	---	---	---	408	637
6-7am	---	---	---	---	---	421	---	---	---	---	---	---	---	895	1,316
7-8am	414	38	13	18	20	503	680	36	25	9	45	45	795	1,298	
8-9am	307	45	9	29	12	402	478	25	22	10	34	34	569	971	
9-10am	303	29	11	18	21	382	371	16	12	9	34	34	442	824	
10-11am	359	21	7	18	12	417	423	36	6	6	2	2	473	890	
11-12am	310	26	26	40	33	435	395	17	6	33	40	40	491	926	
12-1pm	421	14	14	21	19	489	506	28	6	11	13	13	564	1,053	
1-2pm	500	14	16	16	20	566	595	26	11	9	17	17	658	1,224	
2-3pm	460	39	30	44	27	600	503	48	19	25	42	42	637	1,237	
3-4pm	529	36	13	14	14	606	580	49	11	2	32	32	674	1,280	
4-5pm	518	14	25	31	26	614	559	21	18	18	35	35	651	1,265	
5-6pm	483	13	14	20	19	549	471	19	13	1	23	23	527	1,076	
6-7pm	388	17	6	10	15	436	388	12	12	3	14	14	429	865	
7-8pm	---	---	---	---	---	360	---	---	---	---	---	---	321	681	
8-9pm	---	---	---	---	---	308	---	---	---	---	---	---	250	558	
9-10pm	---	---	---	---	---	230	---	---	---	---	---	---	191	421	
10-11pm	---	---	---	---	---	168	---	---	---	---	---	---	131	299	
11-12pm	---	---	---	---	---	121	---	---	---	---	---	---	90	211	
Totals	---	---	---	---	---	8,184	---	---	---	---	---	---	9,517	17,701	
7-10am	1,024	112	33	65	53	1,287	1,529	77	59	28	113	113	1,806	3,093	
10am-1pm	1,090	61	47	79	64	1,341	1,324	81	18	50	55	55	1,528	2,869	
1-4pm	1,489	89	59	74	61	1,772	1,678	123	41	36	91	91	1,969	3,741	
4-7pm	1,389	44	45	61	60	1,599	1,418	52	43	22	72	72	1,607	3,206	
7am-7pm	4,992	306	184	279	238	5,999	5,949	333	161	136	331	331	6,910	12,909	
6-10am						1,708							2,701	4,409	
3-7pm	1,918	80	58	75	74	2,205	1,998	101	54	24	104	104	2,281	4,486	
6am-7pm						6,420							7,805	14,225	

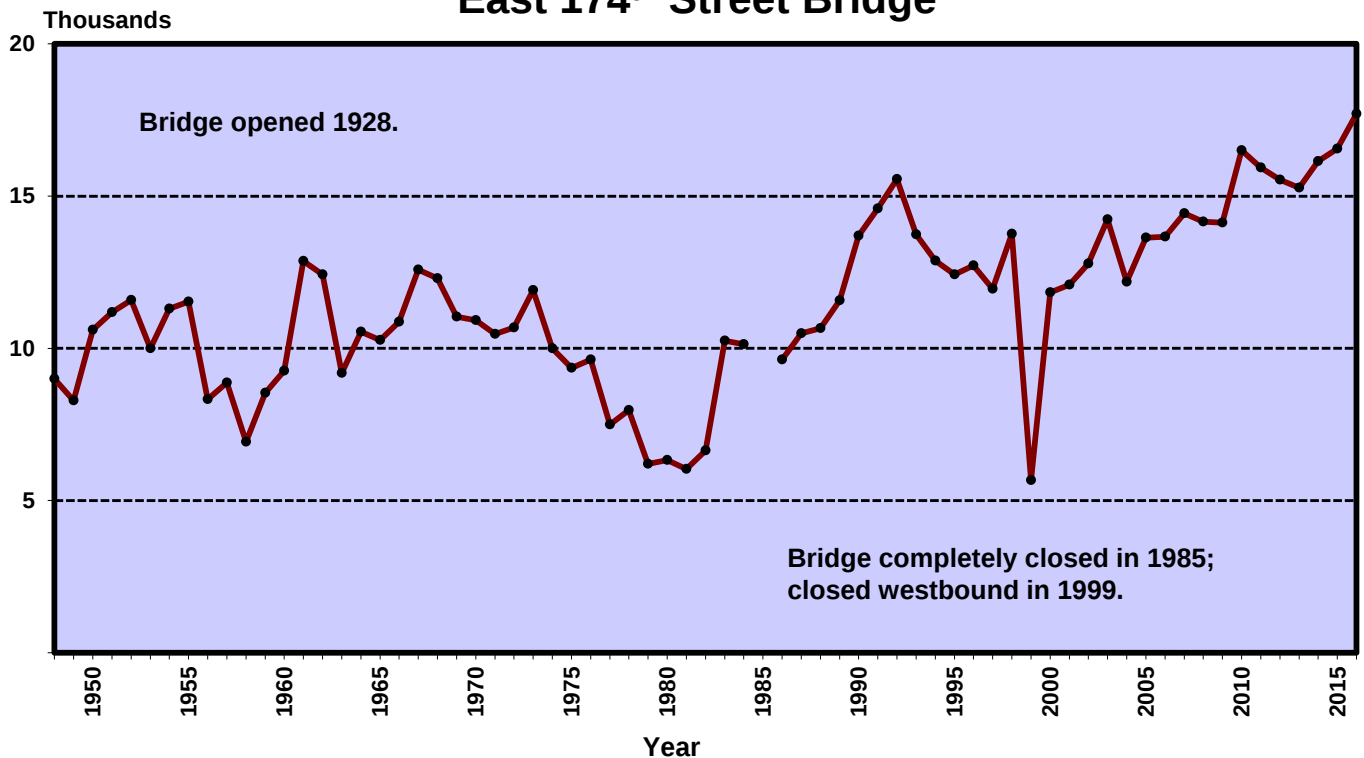
Based on September 1989 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes East 174th Street Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions East 174th Street Bridge



Hourly Vehicular Volumes

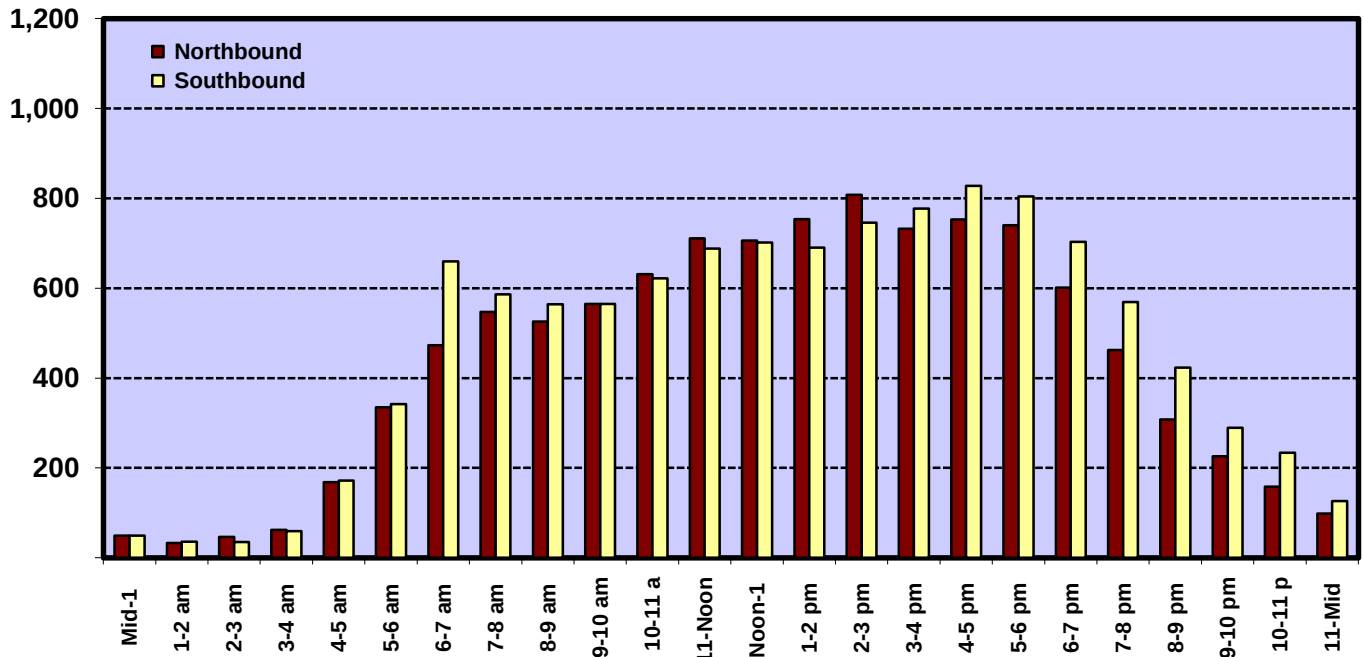
Eastchester Bridge - 2016

	Northbound						Southbound						2-Way Totals	
	Autos	Buses	Commuter		Commercial		Totals	Autos	Buses	Commuter		Commercial		Totals
			Vans	Trucks	Vans					Vans	Trucks	Vans		
12-1am	---	---	---	---	---	49	---	---	---	---	---	---	---	49
1-2am	---	---	---	---	---	33	---	---	---	---	---	---	---	36
2-3am	---	---	---	---	---	46	---	---	---	---	---	---	---	35
3-4am	---	---	---	---	---	62	---	---	---	---	---	---	---	59
4-5am	---	---	---	---	---	168	---	---	---	---	---	---	---	172
5-6am	---	---	---	---	---	335	---	---	---	---	---	---	---	342
6-7am	---	---	---	---	---	473	---	---	---	---	---	---	---	660
7-8am	482	16	0	28	21	547	484	8	8	67	19	19	586	
8-9am	445	11	0	39	31	526	443	11	13	73	24	24	564	
9-10am	477	16	0	39	33	565	372	18	19	115	41	41	565	
10-11am	577	8	0	25	21	631	540	8	15	39	20	20	622	
11-12am	622	6	0	39	44	711	529	9	18	91	41	41	688	
12-1pm	662	8	0	13	23	706	639	7	6	31	19	19	702	
1-2pm	712	8	0	14	20	754	631	7	4	37	11	11	690	
2-3pm	728	17	0	38	25	808	585	11	14	108	28	28	746	
3-4pm	682	13	0	19	18	732	696	16	9	44	12	12	777	**
4-5pm	686	9	0	23	35	753	742	9	15	41	21	21	828	**
5-6pm	673	8	0	24	35	740	719	9	12	37	27	27	804	
6-7pm	568	10	0	11	12	601	640	16	8	31	8	8	703	
7-8pm	---	---	---	---	---	462	---	---	---	---	---	---	569	
8-9pm	---	---	---	---	---	308	---	---	---	---	---	---	423	
9-10pm	---	---	---	---	---	226	---	---	---	---	---	---	289	
10-11pm	---	---	---	---	---	158	---	---	---	---	---	---	234	
11-12pm	---	---	---	---	---	98	---	---	---	---	---	---	126	
Totals	---	---	---	---	---	10,492	---	---	---	---	---	---	11,269	
7-10am	1,404	43	0	106	85	1,638	1,299	37	40	255	84	84	1,715	3,353
10am-1pm	1,861	22	0	77	88	2,048	1,708	24	39	161	80	80	2,012	4,060
1-4pm	2,122	38	0	71	63	2,294	1,912	34	27	189	51	51	2,213	4,507
4-7pm	1,927	27	0	58	82	2,094	2,101	34	35	109	56	56	2,335	4,429
7am-7pm	7,314	130	0	312	318	8,074	7,020	129	141	714	271	271	8,275	16,349
6-10am						2,111							2,375	4,486
3-7pm	2,609	40	0	77	100	2,826	2,797	50	44	153	68	68	3,112	5,938
6am-7pm						8,547							8,935	17,482

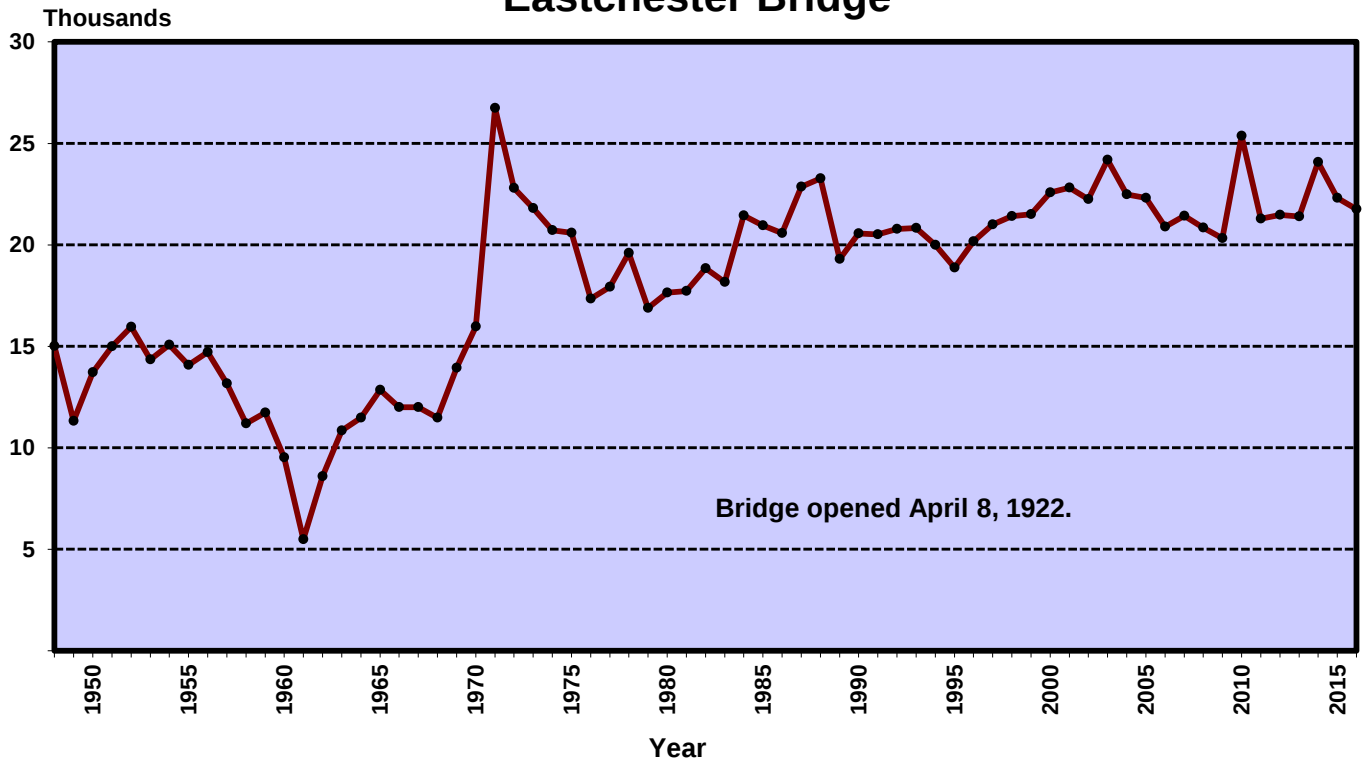
Based on September 1989 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Eastchester Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Eastchester Bridge



Hourly Vehicular Volumes

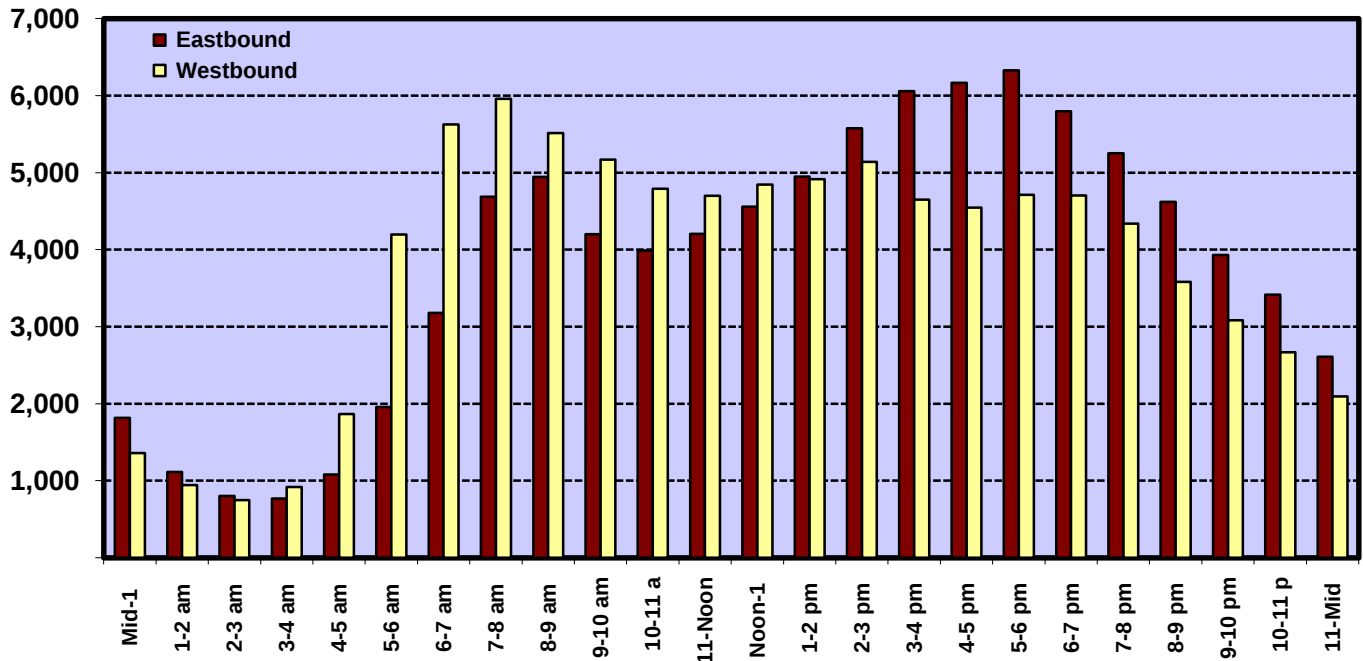
Eastern Boulevard Bridge - 2016

	Eastbound					Westbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	1,818	---	---	---	---	---	1,358
1-2am	---	---	---	---	---	1,114	---	---	---	---	---	945
2-3am	---	---	---	---	---	804	---	---	---	---	---	747
3-4am	---	---	---	---	---	769	---	---	---	---	---	917
4-5am	---	---	---	---	---	1,082	---	---	---	---	---	1,865
5-6am	---	---	---	---	---	1,956	---	---	---	---	---	4,196
6-7am	---	---	---	---	---	3,178	---	---	---	---	---	5,626
7-8am	3,963	60	74	445	145	4,687	5,173	94	112	333	245	5,957
8-9am	3,933	114	105	558	236	4,946	4,670	66	125	398	256	5,515
9-10am	3,232	101	116	541	210	4,200	4,475	46	84	326	237	5,168
10-11am	3,514	25	52	288	110	3,989	4,417	38	57	175	104	4,791
11-12am	3,324	17	151	445	268	4,205	4,030	27	112	311	219	4,699
12-1pm	4,105	22	74	225	131	4,557	4,484	30	36	188	107	4,845
1-2pm	4,661	30	1	164	94	4,950	4,546	59	62	185	65	4,917
2-3pm	5,040	45	0	283	209	5,577	4,418	121	96	366	141	5,142
3-4pm	5,768	41	0	154	97	6,060	4,332	63	39	168	48	4,650
4-5pm	5,647	36	0	298	187	6,168	3,926	95	113	261	153	4,548
5-6pm	6,000	62	0	94	174	6,330	4,300	33	130	166	83	4,712
6-7pm	5,454	44	0	151	146	5,795	4,434	39	80	89	62	4,704
7-8pm	---	---	---	---	---	5,253	---	---	---	---	---	4,340
8-9pm	---	---	---	---	---	4,622	---	---	---	---	---	3,584
9-10pm	---	---	---	---	---	3,933	---	---	---	---	---	3,084
10-11pm	---	---	---	---	---	3,415	---	---	---	---	---	2,667
11-12pm	---	---	---	---	---	2,609	---	---	---	---	---	2,096
Totals	---	---	---	---	---	92,017	---	---	---	---	---	91,073
7-10am	11,128	275	295	1,544	591	13,833	14,318	206	321	1,057	738	16,640
10am-1pm	10,943	64	277	958	509	12,751	12,931	95	205	674	430	14,335
1-4pm	15,469	116	1	601	400	16,587	13,296	243	197	719	254	14,709
4-7pm	17,101	142	0	543	507	18,293	12,660	167	323	516	298	13,964
7am-7pm	54,641	597	573	3,646	2,007	61,464	53,205	711	1,046	2,966	1,720	59,648
6-10am	---	---	---	---	---	---	---	---	---	---	---	---
3-7pm	22,869	183	0	697	604	17,011	16,992	230	362	684	346	22,266
6am-7pm	---	---	---	---	---	24,353	---	---	---	---	---	18,614
	---	---	---	---	---	64,642	---	---	---	---	---	65,274

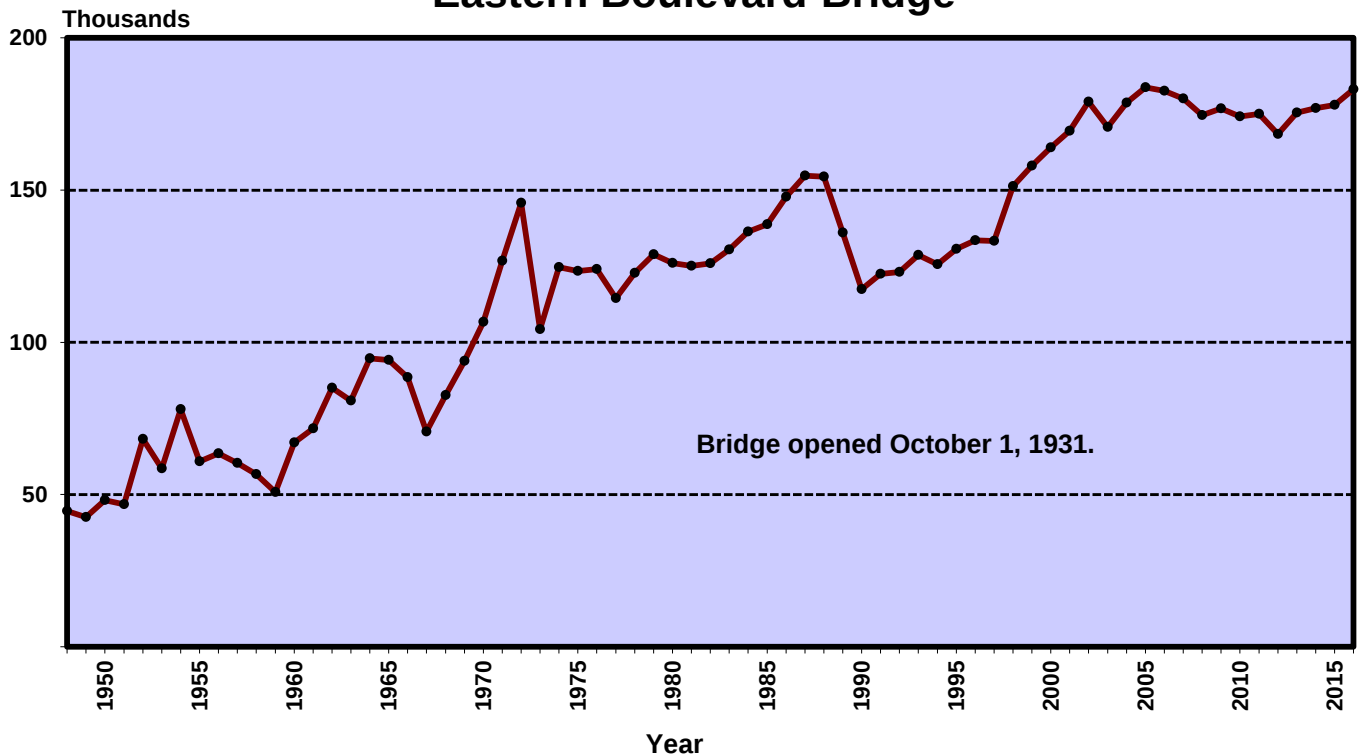
Based on September 1989 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Eastern Boulevard Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Eastern Boulevard Bridge



Hourly Vehicular Volumes

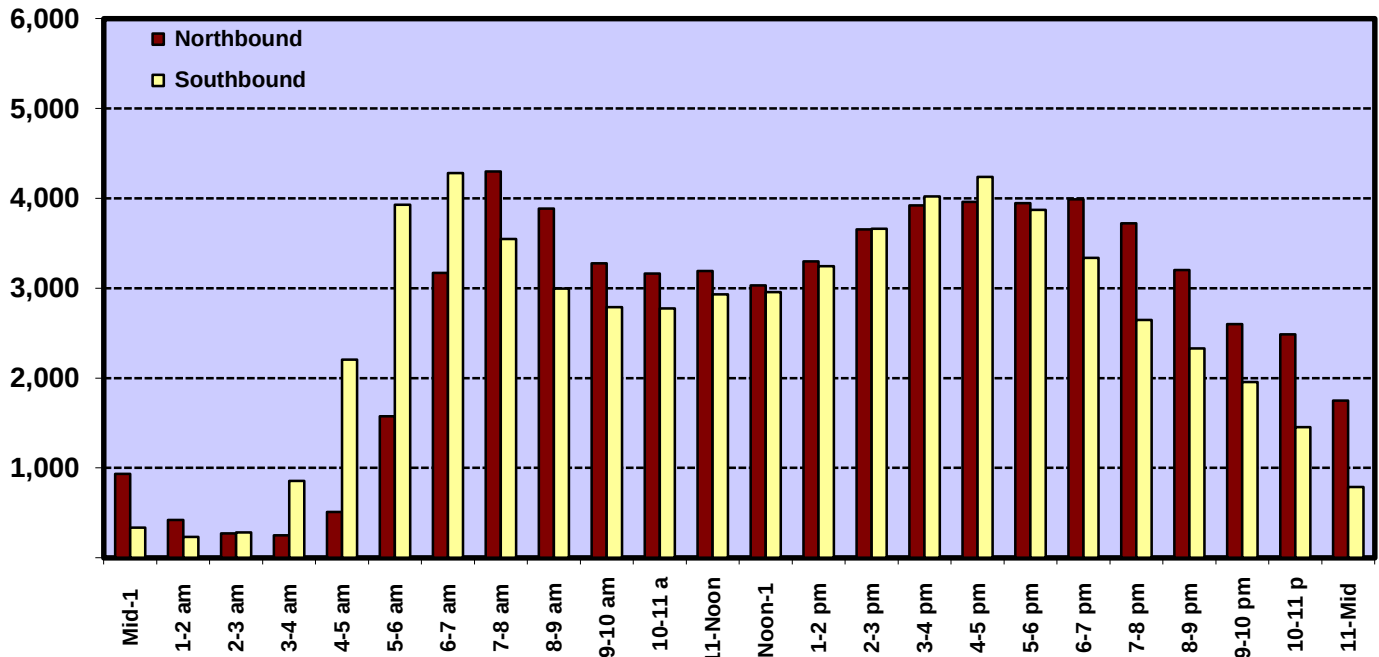
Hutchinson River Parkway Bridge - 2016

Northbound													Southbound													2-way Grand Totals
FHWA Classes ▶	Commercial Vans,						Autos, Motorcycles						Commercial Vans,						Autos, Motorcycles						Total Vehicles	
	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13	Taxis, Liveries, Limos	Panel Trucks, Pickups, Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	Family Vans	SUVs, Vans	Taxis, Liveries, Limos	Panel Trucks, Pickups, Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles							
12-1am	885	40	8	0	0	0	933					319	9	5	0	1	0	334		1,267						
1-2am	385	33	2	0	2	0	422					221	8	2	0	1	0	232		654						
2-3am	252	15	2	0	1	0	270					255	15	7	0	3	0	280		550						
3-4am	240	6	4	0	1	0	251					782	22	47	0	4	0	855		1,106						
4-5am	482	18	10	0	1	0	511					2,048	72	81	4	0	0	2,205		2,716						
5-6am	1,414	116	32	8	2	2	1,574					3,470	138	149	159	13	0	3,929	**	5,503						
6-7am	2,971	112	74	7	6	0	3,170					3,789	166	184	142	1	0	4,282		7,452						
7-8am	3,971	164	100	60	3	0	4,298	**				3,343	99	94	10	0	0	3,546		7,844						
8-9am	3,586	159	96	45	1	0	3,887					2,807	73	91	23	1	0	2,995		6,882						
9-10am	3,028	140	84	18	6	0	3,276					2,616	80	70	22	2	0	2,790		6,066						
10-11am	2,904	139	108	11	1	0	3,163					2,590	77	96	9	2	0	2,774		5,937						
11-12am	2,853	144	171	10	12	1	3,191					2,724	90	105	5	7	0	2,931		6,122						
12-1pm	2,765	124	128	9	4	0	3,030					2,757	91	97	6	4	1	2,956		5,986						
1-2pm	3,039	121	108	29	3	0	3,300					3,032	85	103	23	2	1	3,246		6,546						
2-3pm	3,355	146	136	16	1	0	3,654					3,375	86	135	56	7	1	3,660		7,314						
3-4pm	3,622	161	123	13	3	0	3,922					3,649	132	138	86	15	3	4,023		7,945						
4-5pm	3,602	156	134	63	6	0	3,961					3,980	127	105	25	1	0	4,238	**	8,199						
5-6pm	3,657	151	82	55	3	0	3,948					3,685	94	90	3	1	0	3,873		7,821						
6-7pm	3,718	151	88	30	3	0	3,990					3,200	79	53	3	2	0	3,337		7,327						
7-8pm	3,461	182	68	10	1	0	3,722					2,518	63	59	1	1	3	2,645		6,367						
8-9pm	2,934	180	74	5	1	8	3,202					2,224	60	37	2	1	4	2,328		5,530						
9-10pm	2,340	202	57	1	2	0	2,602					1,855	64	33	0	3	2	1,957		4,559						
10-11pm	2,318	111	50	0	1	5	2,485					1,396	35	20	0	1	3	1,455		3,940						
11-12pm	1,646	56	38	1	3	6	1,750					748	27	10	1	2	0	788		2,538						
Totals	59,428	2,827	1,777	391	67	22	64,512					57,383	1,792	1,811	580	75	18	61,659		126,171						
7-10am	10,585	463	280	123	10	0	11,461					8,766	252	255	55	3	0	9,331		20,792						
10am-1pm	8,522	407	407	30	17	1	9,384					8,071	258	298	20	13	1	8,661		18,045						
1-4pm	10,016	428	367	58	7	0	10,876					10,056	303	376	165	24	5	10,929		21,805						
4-7pm	10,977	458	304	148	12	0	11,899					10,865	300	248	31	4	0	11,448		23,347						
7am-7pm	40,100	1,756	1,358	359	46	1	43,620					37,758	1,113	1,177	271	44	6	40,369		83,989						
6-10am	13,556	575	354	130	16	0	14,631					12,555	418	439	197	4	0	13,613		28,244						
3-7pm	14,599	619	427	161	15	0	15,821					14,514	432	386	117	19	3	15,471		31,292						
6am-7pm	43,071	1,868	1,432	366	52	1	46,790					41,547	1,279	1,361	413	45	6	44,651		91,441						

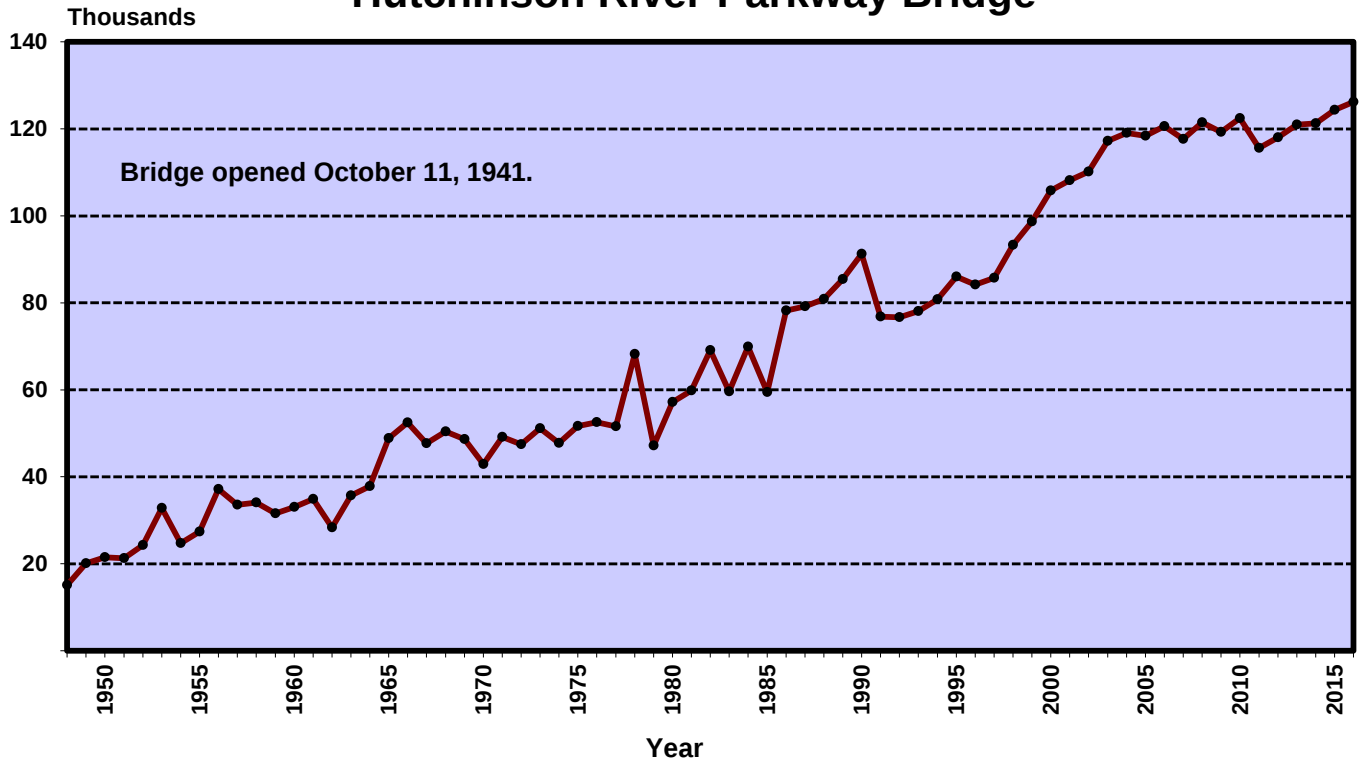
Based on November 2015 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Hutchinson River Parkway Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Hutchinson River Parkway Bridge



Hourly Vehicular Volumes

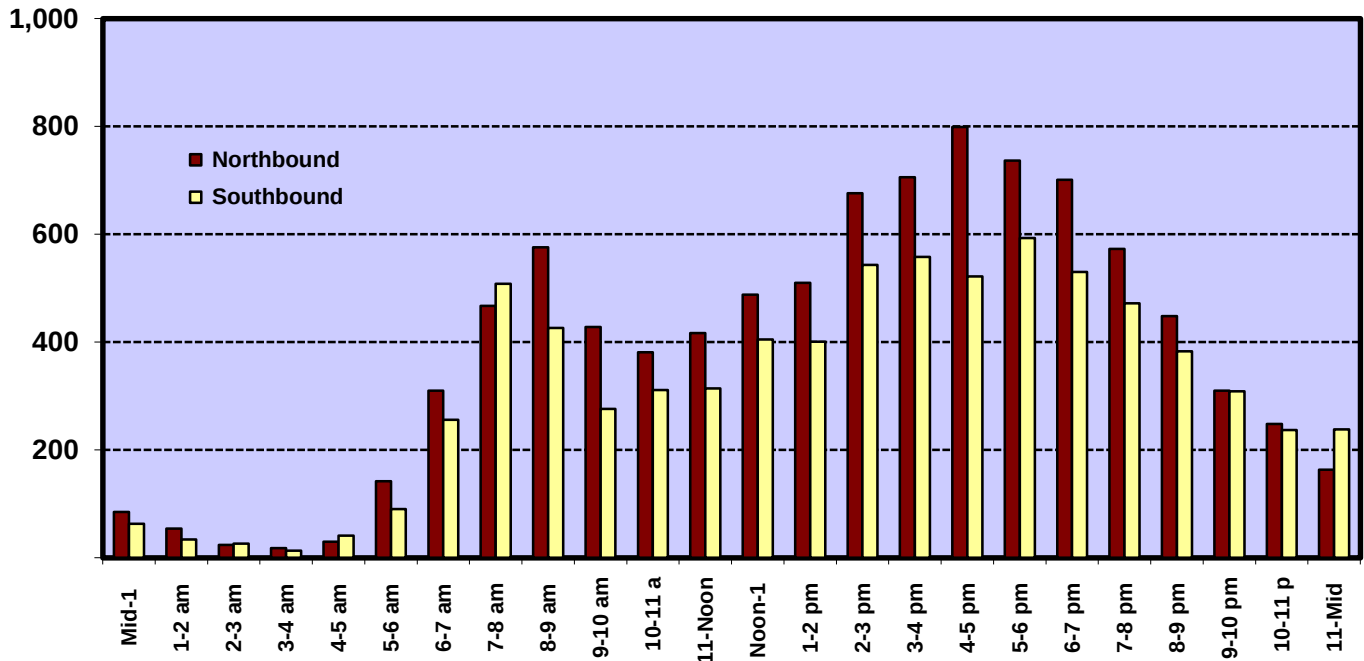
Pelham Bridge - 2016

Northbound											Southbound											2-way Grand Totals
FHWA Classes ▶	Commercial Vans,					Autos, Motorcycles					Commercial Vans,					Autos, Motorcycles					Total Vehicles	
	Panel Trucks, Pickups, Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles	Taxis, Liveries, Limos	Panel Trucks, Pickups, Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles	Panel Trucks, Pickups, Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles						
12-1am	67	9	6	0	85	9	2	2 & 3	4	5 - 7	8 - 13	52	5	4	1	1	0	63	148			
1-2am	42	8	4	0	54	8		4	0	0	0	29	1	4	0	0	0	34	88			
2-3am	16	0	3	0	24	0		3	0	5	0	20	1	0	0	5	0	26	50			
3-4am	13	2	1	0	18	1		1	0	2	0	10	0	1	0	2	0	13	31			
4-5am	23	1	1	1	30	1		1	1	4	0	36	1	2	1	1	0	41	71			
5-6am	124	5	5	3	142	5		5	3	5	0	82	1	4	1	2	0	90	232			
6-7am	266	3	9	27	310	4		9	27	4	1	220	3	11	16	6	0	256	566			
7-8am	410	4	26	11	467	16		26	11	16	0	444	5	27	17	15	0	508	975			
8-9am	478	5	49	13	576	30		49	13	30	1	373	8	19	9	17	0	426	1,002			
9-10am	333	6	53	8	428	28		53	8	28	0	224	6	27	5	13	1	276	704			
10-11am	315	10	25	7	381	24		25	7	24	0	254	10	31	5	11	0	311	692			
11-12am	362	4	29	4	417	18		29	4	18	0	273	3	19	5	14	0	314	731			
12-1pm	423	9	38	5	488	13		38	5	13	0	340	5	29	9	22	0	405	893			
1-2pm	436	8	38	9	510	19		38	9	19	0	347	11	25	6	12	0	401	911			
2-3pm	593	10	31	10	676	30		31	10	30	2	491	9	16	8	18	1	543	1,219			
3-4pm	624	9	35	24	706	13		35	24	13	1	484	10	24	24	14	2	558	1,264			
4-5pm	749	11	26	9	799	4		26	9	4	0	483	10	17	11	1	0	522	1,321			
5-6pm	688	15	14	10	737	10		14	10	10	0	549	10	15	11	8	0	593	1,330			
6-7pm	648	14	25	12	701	1		25	12	1	1	492	7	12	13	5	1	530	1,231			
7-8pm	546	9	9	6	573	3		9	6	3	0	439	8	12	8	5	0	472	1,045			
8-9pm	418	15	8	5	448	2		8	5	2	0	359	10	7	6	1	0	383	831			
9-10pm	292	8	7	3	310	0		7	3	0	0	288	4	13	3	1	0	309	619			
10-11pm	218	9	11	5	248	5		11	5	5	0	229	2	4	2	0	0	237	485			
11-12pm	149	6	5	3	163	0		5	3	0	0	231	4	1	2	0	0	238	401			
Totals	8,233	180	458	175	9,291	239		458	175	239	6	6,749	134	324	163	174	5	7,549	16,840			
7-10am	1,221	15	128	32	1,471	74		128	32	74	1	1,041	19	73	31	45	1	1,210	2,681			
10am-1pm	1,100	23	92	16	1,286	55		92	16	55	0	867	18	79	19	47	0	1,030	2,316			
1-4pm	1,653	27	104	43	1,892	62		104	43	62	3	1,322	30	65	38	44	3	1,502	3,394			
4-7pm	2,085	40	65	31	2,237	15		65	31	15	1	1,524	27	44	35	14	1	1,645	3,882			
7am-7pm	6,059	105	389	122	6,886	206		389	122	206	5	4,754	94	261	123	150	5	5,387	12,273			
6-10am	1,487	18	137	59	1,781	78		137	59	78	2	1,261	22	84	47	51	1	1,466	3,247			
3-7pm	2,709	49	100	55	2,943	28		100	55	28	2	2,008	37	68	59	28	3	2,203	5,146			
6am-7pm	6,325	108	398	149	7,196	210		398	149	210	6	4,974	97	272	139	156	5	5,643	12,839			

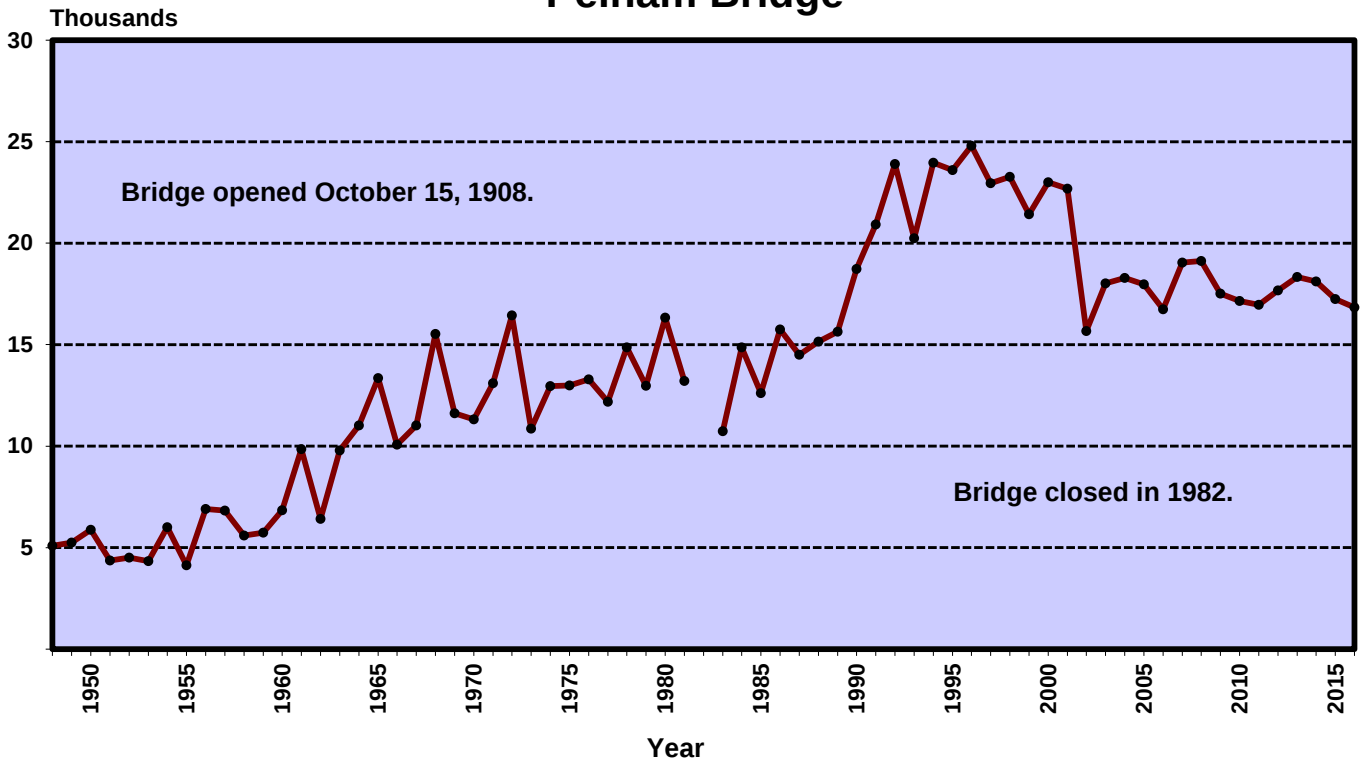
Based on November 2013 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Pelham Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Pelham Bridge



Hourly Vehicular Volumes

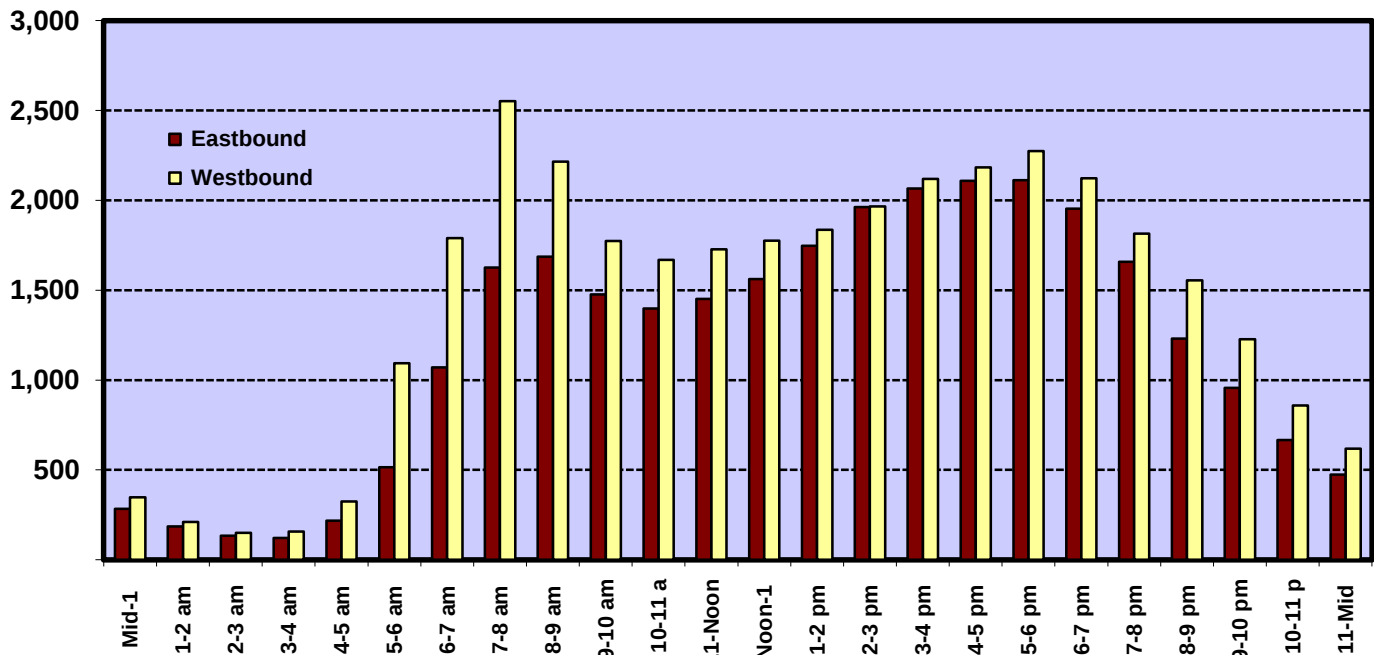
Unionport Bridge - 2016

	Eastbound					Totals	Westbound					Totals
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans		Autos	Buses	Commuter Vans	Trucks	Commercial Vans	
12-1am	---	---	---	---	---	284	---	---	---	---	---	347
1-2am	---	---	---	---	---	185	---	---	---	---	---	210
2-3am	---	---	---	---	---	133	---	---	---	---	---	150
3-4am	---	---	---	---	---	122	---	---	---	---	---	156
4-5am	---	---	---	---	---	218	---	---	---	---	---	325
5-6am	---	---	---	---	---	514	---	---	---	---	---	1,093
6-7am	---	---	---	---	---	1,070	---	---	---	---	---	1,790
7-8am	1,411	37	21	118	39	1,626	2,382	46	3	50	71	2,552
8-9am	1,424	34	44	121	64	1,687	2,066	26	0	72	52	2,216
9-10am	1,184	32	58	125	78	1,477	1,640	22	0	48	63	1,773
10-11am	1,234	18	20	80	46	1,398	1,570	22	0	19	57	1,668
11-12am	1,139	15	59	161	78	1,452	1,496	18	0	97	116	1,727
12-1pm	1,390	14	30	88	40	1,562	1,690	12	0	39	34	1,775
1-2pm	1,426	12	47	170	92	1,747	1,583	24	2	114	114	1,837
2-3pm	1,680	19	50	152	62	1,963	1,728	28	0	104	107	1,967
3-4pm	1,930	15	18	65	38	2,066	1,954	49	0	47	69	2,119
4-5pm	1,835	18	38	147	71	2,109	1,935	31	0	73	145	2,184
5-6pm	1,865	24	48	136	40	2,113	2,082	33	0	73	87	2,275
6-7pm	1,734	34	47	103	36	1,954	2,001	22	0	37	63	2,123
7-8pm	---	---	---	---	---	1,658	---	---	---	---	---	1,815
8-9pm	---	---	---	---	---	1,230	---	---	---	---	---	1,555
9-10pm	---	---	---	---	---	956	---	---	---	---	---	1,227
10-11pm	---	---	---	---	---	666	---	---	---	---	---	859
11-12pm	---	---	---	---	---	473	---	---	---	---	---	618
Totals	---	---	---	---	---	28,663	---	---	---	---	---	34,361
7-10am	4,019	103	123	364	181	4,790	6,088	94	3	170	186	6,541
10am-1pm	3,763	47	109	329	164	4,412	4,756	52	0	155	207	5,170
1-4pm	5,036	46	115	387	192	5,776	5,265	101	2	265	290	5,923
4-7pm	5,434	76	133	386	147	6,176	6,018	86	0	183	295	6,582
7am-7pm	18,252	272	480	1,466	684	21,154	22,127	333	5	773	978	24,216
6-10am						5,860						8,331
3-7pm	7,364	91	151	451	185	8,242	7,972	135	0	230	364	8,701
6am-7pm						22,224						26,006

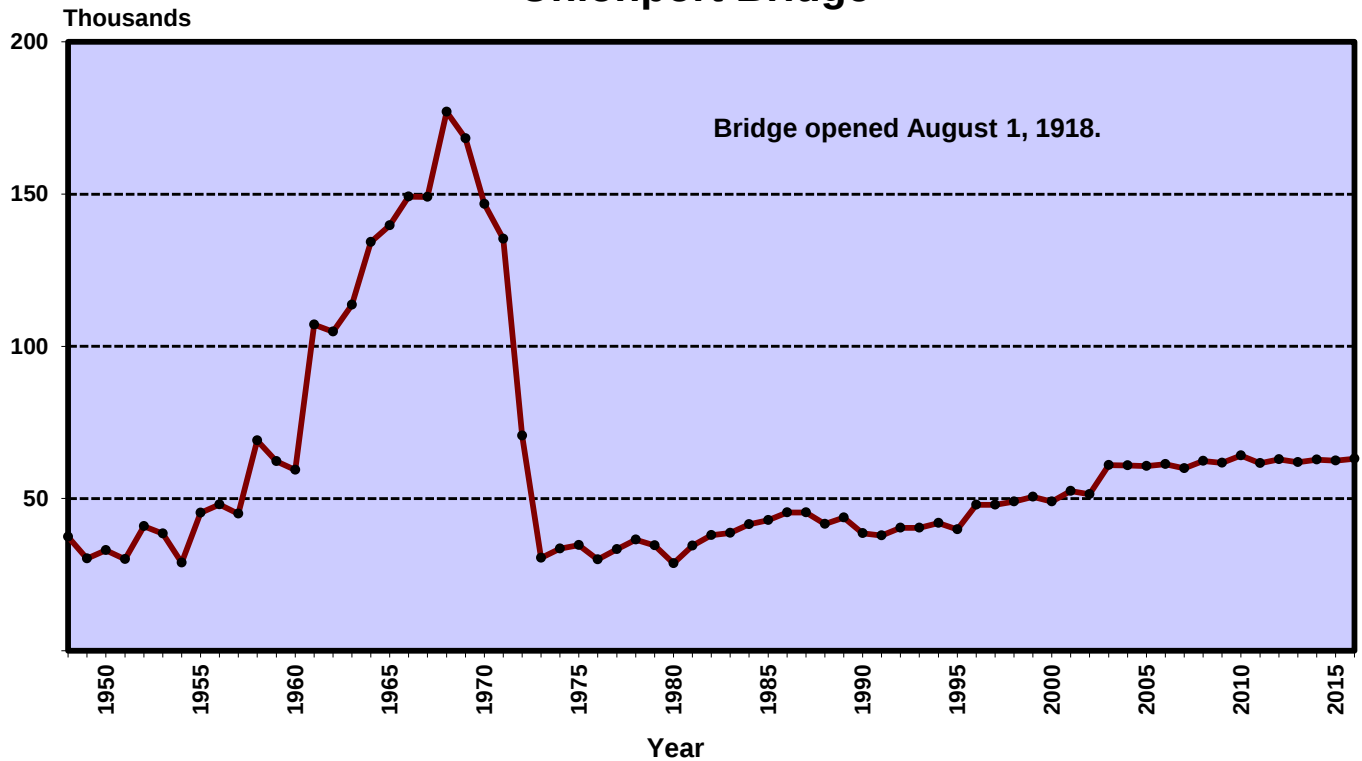
Based on September 1989 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Unionport Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Unionport Bridge



Hourly Vehicular Volumes

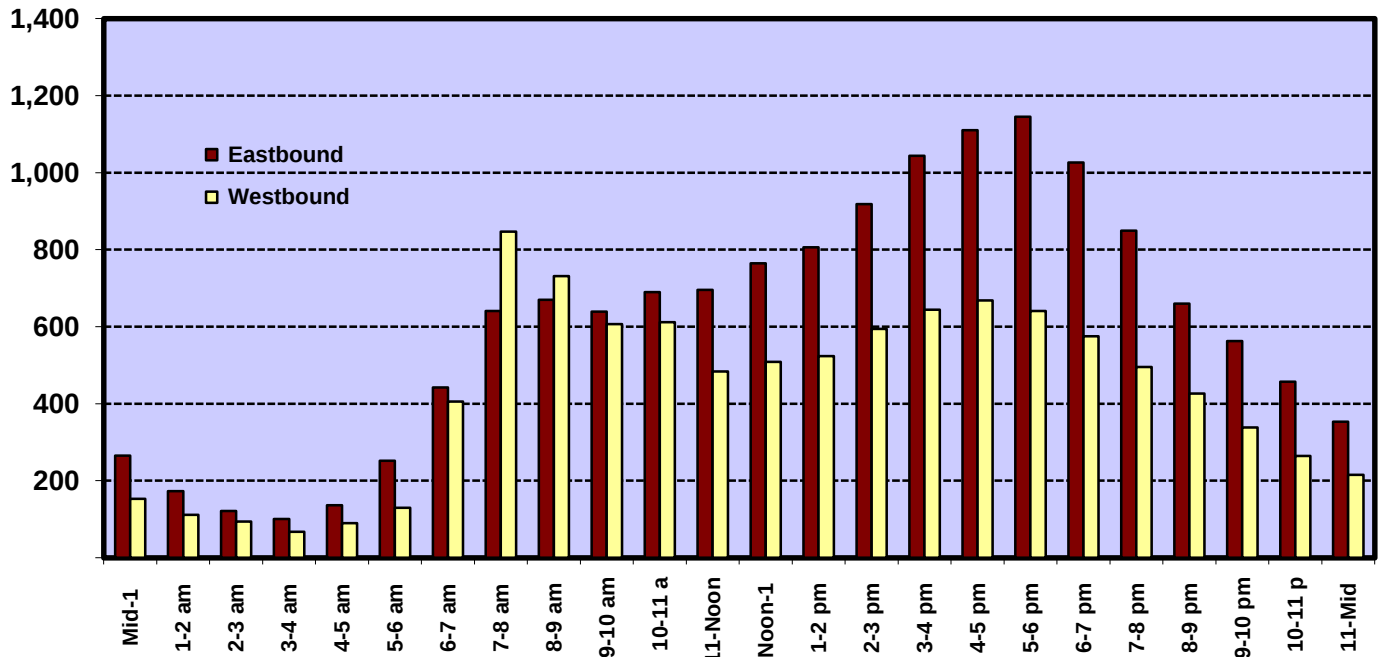
Westchester Avenue Bridge - 2016

	Eastbound					Westbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	265	---	---	---	---	---	153
1-2am	---	---	---	---	---	173	---	---	---	---	---	111
2-3am	---	---	---	---	---	121	---	---	---	---	---	94
3-4am	---	---	---	---	---	101	---	---	---	---	---	67
4-5am	---	---	---	---	---	136	---	---	---	---	---	90
5-6am	---	---	---	---	---	252	---	---	---	---	---	130
6-7am	---	---	---	---	---	442	---	---	---	---	---	406
7-8am	547	33	16	24	21	641	739	34	1	20	53	847
8-9am	570	48	7	23	22	670	635	34	1	25	36	731
9-10am	570	28	12	12	17	639	519	14	0	24	50	607
10-11am	627	33	5	10	15	690	571	18	0	13	10	612
11-12am	588	27	8	33	40	696	392	14	0	31	47	484
12-1pm	718	22	2	8	15	765	448	17	0	22	22	509
1-2pm	722	43	9	16	16	806	476	17	0	9	22	524
2-3pm	771	56	7	34	50	918	512	26	0	18	38	594
3-4pm	942	72	2	16	12	1,044	596	22	0	12	14	644
4-5pm	1,002	41	24	23	20	1,110	586	27	0	19	36	668
5-6pm	1,050	24	13	22	36	1,145	551	16	0	17	57	641
6-7pm	942	31	2	9	42	1,026	512	8	0	2	53	575
7-8pm	---	---	---	---	---	849	---	---	---	---	---	495
8-9pm	---	---	---	---	---	660	---	---	---	---	---	426
9-10pm	---	---	---	---	---	563	---	---	---	---	---	338
10-11pm	---	---	---	---	---	457	---	---	---	---	---	264
11-12pm	---	---	---	---	---	353	---	---	---	---	---	215
Totals	---	---	---	---	---	14,522	---	---	---	---	---	10,225
7-10am	1,687	109	35	59	60	1,950	1,893	82	2	69	139	2,185
10am-1pm	1,933	82	15	51	70	2,151	1,411	49	0	66	79	1,605
1-4pm	2,435	171	18	66	78	2,768	1,584	65	0	39	74	1,762
4-7pm	2,994	96	39	54	98	3,281	1,649	51	0	38	146	1,884
7am-7pm	9,049	458	107	230	306	10,150	6,537	247	2	212	438	7,436
6-10am												
3-7pm	3,936	168	41	70	110	2,392	2,245	73	0	50	160	2,591
6am-7pm						4,325						2,528
						10,592						7,842

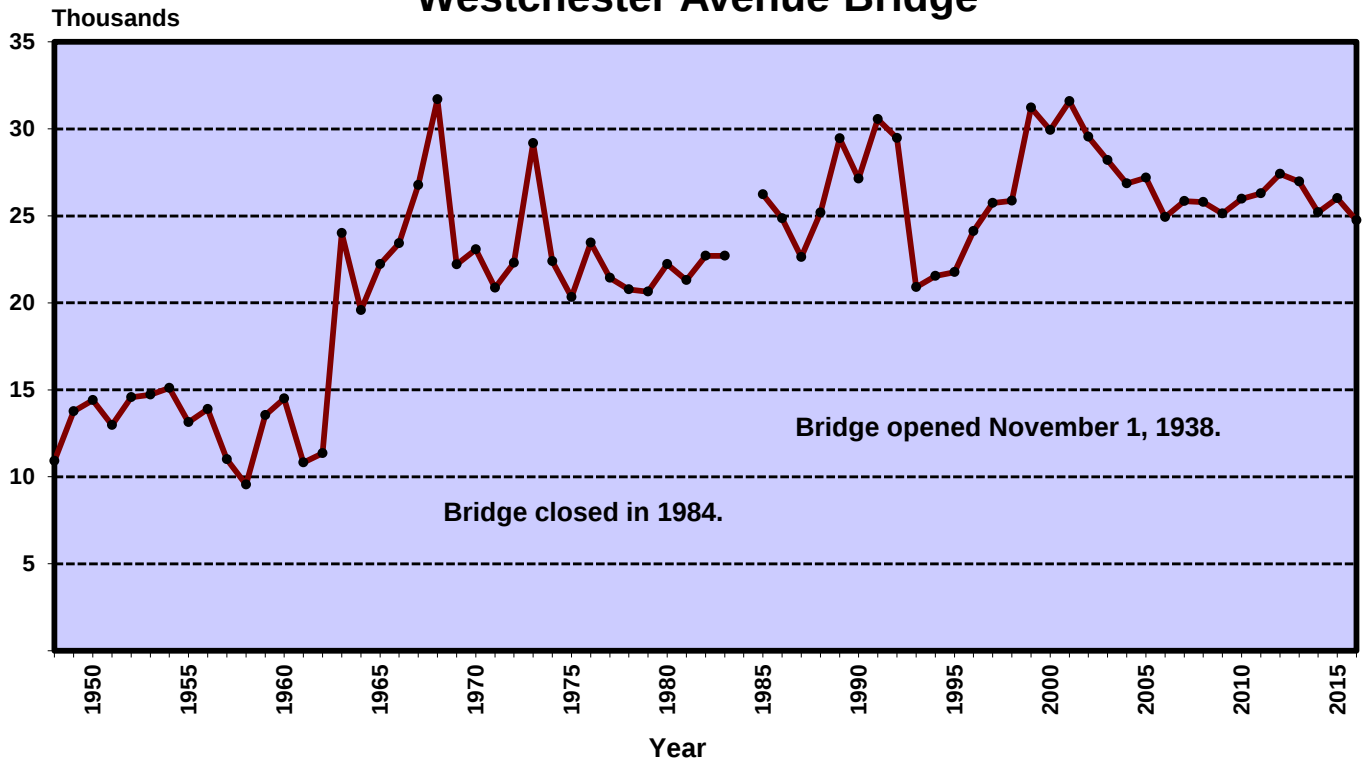
Based on September 1989 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Westchester Avenue Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Westchester Avenue Bridge



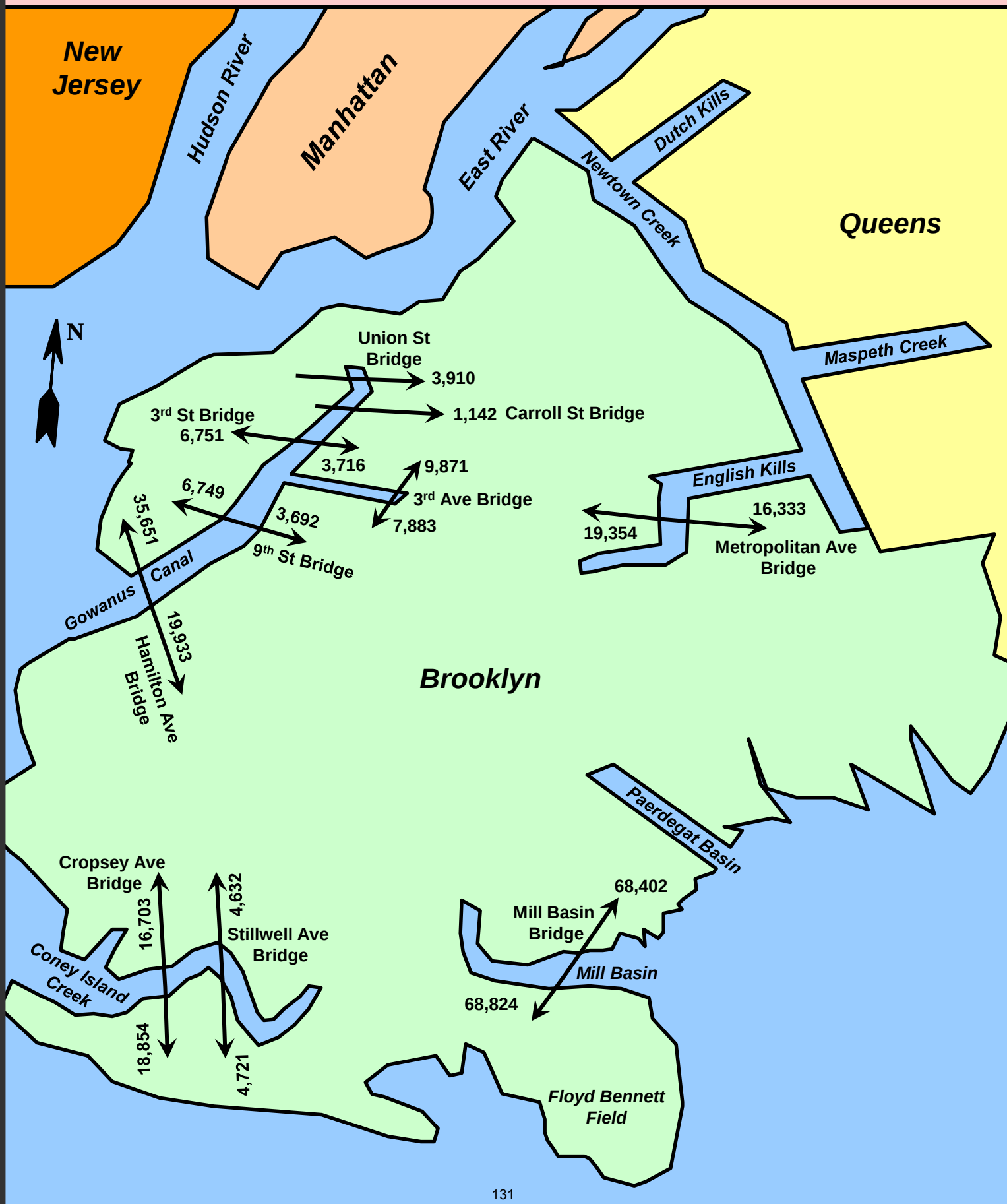
Brooklyn Bridges



9th Street Bridge

BROOKLYN BRIDGES

2016 Daily Volumes



Brooklyn Bridges
Average Daily Traffic Volumes
1948 - 2016

Year	Carroll Street	Cropsey Avenue	Hamilton Avenue	Metropolitan Avenue	Mill Basin
1948	1,401	11,745	12,135	8,739	21,773
1949	4,805	12,913	16,071	12,476	23,357
1950	1,203	15,024	20,149	14,285	32,787
1951	1,444	10,362	24,893	15,496	44,285
1952	1,192	11,495	23,642	15,150	38,025
1953	2,951	12,278	33,379	13,843	36,209
1954	1,962	13,945	36,121	18,208	40,604
1955	2,831	13,184	24,415	15,536	43,011
1956	2,574	15,832	29,676	11,637	57,515
1957	1,917	11,836	22,862	12,293	63,310
1958	1,805	17,462	31,543	25,777	60,384
1959	1,706	15,671	35,085	15,507	61,730
1960	2,553	15,417	42,584	18,892	58,929
1961	7,628	16,968	43,232	20,446	64,142
1962	6,360	18,060	41,380	21,120	71,540
1963	2,120	17,620	36,530	24,130	75,610
1964	2,959	15,240	39,970	23,850	80,270
1965	3,798	21,902	35,795	22,742	110,566
1966	6,364	17,443	42,426	21,634	90,769
1967	1,948	20,440	40,733	25,101	75,168
1968	2,762	18,774	42,869	31,457	105,979
1969	1,965	22,292	42,400	28,604	111,694
1970	2,671	20,257	38,078	29,977	102,964
1971	1,939	21,147	33,847	27,803	110,834
1972	1,207	23,597	39,219	31,130	102,346
1973	1,191	22,986	36,136	23,374	98,553
1974	1,224	22,755	37,097	27,719	107,455
1975	1,108	21,808	39,784	22,148	102,628
1976	1,245	19,503	39,321	23,287	106,744
1977	1,382	21,040	34,602	26,732	103,508
1978	1,126	22,068	36,443	21,457	104,174
1979	1,565	21,254	38,412	24,152	118,242
1980	Closed	21,462	36,084	29,717	109,782
1981	1,112	21,504	35,510	30,190	106,378
1982	1,467	21,005	43,044	34,135	114,600
1983	1,980	27,847	44,047	31,444	112,211
1984	1,432	32,770	48,204	40,936	110,458
1985	1,876	30,960	54,612	43,173	108,974
1986	Closed	31,998	48,274	35,372	114,876
1987	Closed	30,134	43,715	34,830	122,013
1988	Closed	32,341	51,721	37,682	114,287
1989	606	30,967	54,063	35,446	134,708
1990	1,153	30,592	52,170	37,289	142,142
1991	1,175	25,542	39,911	39,576	134,410
1992	1,387	28,230	56,227	37,510	130,737
1993	1,125	27,878	56,655	36,538	130,805
1994	1,132	27,181	50,309	36,026	134,605
1995	1,164	29,015	51,646	37,581	134,540
1996	1,244	26,933	70,385	39,662	132,853
1997	1,215	28,590	69,144	37,966	135,482
1998	1,270	30,323	59,211	38,271	146,940
1999	1,248	31,076	67,259	38,752	147,347
2000	1,265	30,334	59,557	41,238	145,070
2001	1,280	33,725	60,808	39,930	146,602
2002	1,248	33,325	60,075	39,944	142,105
2003	1,150	35,137	59,108	40,284	141,212
2004	1,099	35,104	60,240	38,529	145,760
2005	1,101	36,132	59,885	35,113	143,158
2006	1,068	35,398	55,526	38,130	143,917
2007	1,116	36,395	54,632	37,332	148,802
2008	1,103	35,881	52,731	38,587	144,010
2009	956	36,379	55,577	37,557	144,536
2010	994	37,411	55,252	38,279	140,800
2011	992	31,643	54,663	38,613	139,835
2012	1,136	34,998	55,797	38,262	136,875
2013	1,072	34,062	52,321	37,437	148,084
2014	1,106	33,373	54,250	39,620	141,150
2015	1,238	33,433	55,266	38,191	141,303
2016	1,142	35,557	55,584	35,687	137,226

Brooklyn Bridges (cont'd)
Average Daily Traffic Volumes
1948 - 2016

<i>Year</i>	<i>Ninth Street</i>	<i>Stillwell Avenue</i>	<i>Third Avenue</i>	<i>Third Street</i>	<i>Union Street</i>	<i>Totals</i>
1948	6,006	4,295	17,220	3,438	5,165	91,917
1949	5,640	4,911	19,048	5,716	6,502	111,439
1950	6,895	5,832	13,068	4,976	7,839	122,058
1951	7,159	5,312	19,114	4,852	7,207	140,124
1952	7,376	5,094	14,303	3,711	7,062	127,050
1953	10,329	4,142	15,517	3,463	9,617	141,728
1954	9,904	4,788	17,630	3,215	8,500	154,877
1955	7,704	5,706	15,144	5,907	7,469	140,907
1956	8,715	5,418	14,112	4,401	7,878	157,758
1957	8,897	4,523	14,113	4,742	9,263	153,756
1958	8,347	4,903	15,098	5,814	8,404	179,537
1959	7,906	5,239	16,808	6,887	9,969	176,508
1960	7,465	5,511	14,821	6,227	9,596	181,995
1961	13,330	5,462	16,794	9,747	9,524	207,273
1962	14,170	6,340	15,260	13,550	9,452	217,232
1963	13,270	6,280	17,700	7,970	9,380	210,610
1964	11,430	6,410	16,230	6,850	10,260	213,469
1965	9,540	6,887	15,196	5,992	9,152	241,570
1966	9,418	6,874	14,008	5,682	8,898	223,516
1967	9,871	6,708	16,560	5,570	9,208	211,307
1968	12,484	6,661	13,141	5,680	8,860	248,667
1969	9,363	7,070	13,798	5,527	8,402	251,115
1970	8,855	7,091	14,413	5,650	8,064	238,020
1971	9,952	7,344	13,473	5,991	8,786	241,116
1972	9,581	6,577	12,794	5,806	7,834	240,091
1973	8,939	6,983	13,477	6,124	8,845	226,608
1974	8,752	7,245	15,000	5,792	7,723	240,762
1975	9,313	9,925	14,576	5,145	8,188	234,623
1976	9,634	9,568	14,752	5,361	8,001	237,416
1977	11,123	6,868	13,692	4,328	4,842	228,117
1978	8,892	7,591	14,743	5,425	4,708	226,627
1979	10,095	8,764	14,448	5,629	4,457	247,018
1980	11,485	7,629	14,444	6,420	5,659	242,682
1981	9,726	7,595	17,780	5,759	4,555	240,109
1982	11,350	7,541	16,865	Closed	8,277	258,284
1983	10,893	Closed	16,521	Closed	8,415	253,358
1984	12,578	Closed	18,787	Closed	9,418	274,583
1985	9,438	Closed	17,304	Closed	9,229	275,566
1986	12,263	Closed	15,235	2,426	11,374	271,818
1987	8,762	Closed	20,029	5,626	5,971	271,080
1988	11,005	Closed	20,971	7,189	6,535	281,731
1989	9,571	Closed	22,230	6,232	6,042	299,865
1990	13,062	5,334	24,548	7,745	6,087	320,122
1991	11,444	8,574	Closed	7,411	5,142	273,185
1992	11,059	8,730	23,610	6,972	5,622	310,084
1993	9,358	9,367	24,055	7,743	4,971	308,495
1994	9,666	9,186	21,745	7,978	4,307	302,135
1995	Closed	9,889	22,639	9,556	4,802	300,832
1996	Closed	9,044	21,664	9,048	4,562	315,395
1997	Closed	9,602	21,129	10,400	4,573	318,101
1998	Closed	9,243	20,597	11,378	4,824	322,057
1999	5,544	9,478	21,647	10,849	5,061	338,261
2000	7,355	9,103	22,084	10,231	4,853	331,090
2001	7,898	9,246	21,461	9,855	4,599	335,404
2002	8,399	9,534	20,538	10,146	4,435	329,749
2003	9,406	10,138	20,517	10,010	4,843	331,805
2004	10,216	10,436	20,292	9,846	4,399	335,921
2005	11,393	10,166	20,046	10,108	4,421	331,523
2006	11,143	11,158	18,403	9,487	4,390	328,620
2007	11,903	10,085	19,410	9,937	4,343	333,955
2008	13,362	10,197	17,901	9,482	4,390	327,644
2009	13,251	10,302	17,587	10,028	4,441	330,614
2010	12,567	9,884	18,088	10,390	4,319	327,984
2011	12,404	7,548	17,895	9,776	4,147	317,516
2012	13,321	8,827	17,432	10,579	5,032	322,259
2013	12,136	8,519	17,630	10,611	5,036	326,908
2014	11,020	8,569	18,227	10,299	4,777	322,391
2015	11,549	8,917	18,179	11,160	4,358	323,594
2016	10,441	9,353	17,754	10,467	3,910	317,121

Hourly Vehicular Volumes

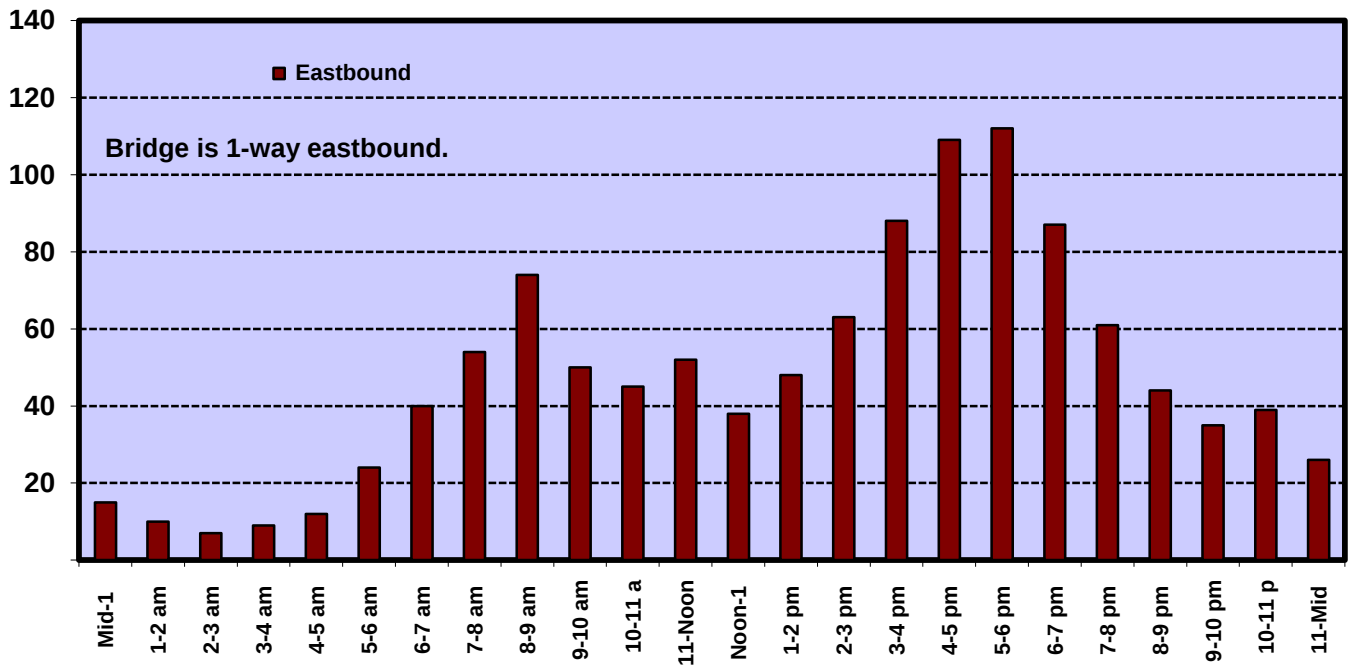
Carroll Street Bridge - 2016

	Eastbound						Westbound						Grand Totals
	Commuter			Commercial			Commuter			Commercial			
	Autos	Buses	Totals	Vans	Trucks	Totals	Autos	Buses	Totals	Vans	Trucks	Totals	
12-1am	---	---	15	---	---	---	Bridge is 1-way eastbound.						15
1-2am	---	---	10	---	---	---							10
2-3am	---	---	7	---	---	---							7
3-4am	---	---	9	---	---	---							9
4-5am	---	---	12	---	---	---							12
5-6am	---	---	24	---	---	---							24
6-7am	---	---	40	---	---	---							40
7-8am	20	0	54	10	14	10							54
8-9am	23	2	74	20	22	20							74
9-10am	18	0	50	7	19	7							50
10-11am	22	0	45	10	13	10							45
11-12am	18	0	52	13	15	13							52
12-1pm	8	0	38	11	11	12							38
1-2pm	14	0	48	19	8	19							48
2-3pm	1	0	63	17	32	17							63
3-4pm	72	0	88	6	8	6							88
4-5pm	83	0	109	14	9	14							109
5-6pm	89	0	112	9	5	9							112
6-7pm	75	0	87	5	2	5							87
7-8pm	---	---	61	---	---	---							61
8-9pm	---	---	44	---	---	---							44
9-10pm	---	---	35	---	---	---							35
10-11pm	---	---	39	---	---	---							39
11-12pm	---	---	26	---	---	---							26
Totals	---	---	1,142	---	---	---	1,142						
7-10am	61	2	178	37	55	37	178						
10am-1pm	48	0	135	35	39	35	135						
1-4pm	87	0	199	42	48	42	199						
4-7pm	247	0	308	28	16	28	308						
7am-7pm	443	2	820	142	158	142	820						
6-10am													
3-7pm	319	0	218	34	24	34	218						
6am-7pm			396				396						
			860				860						

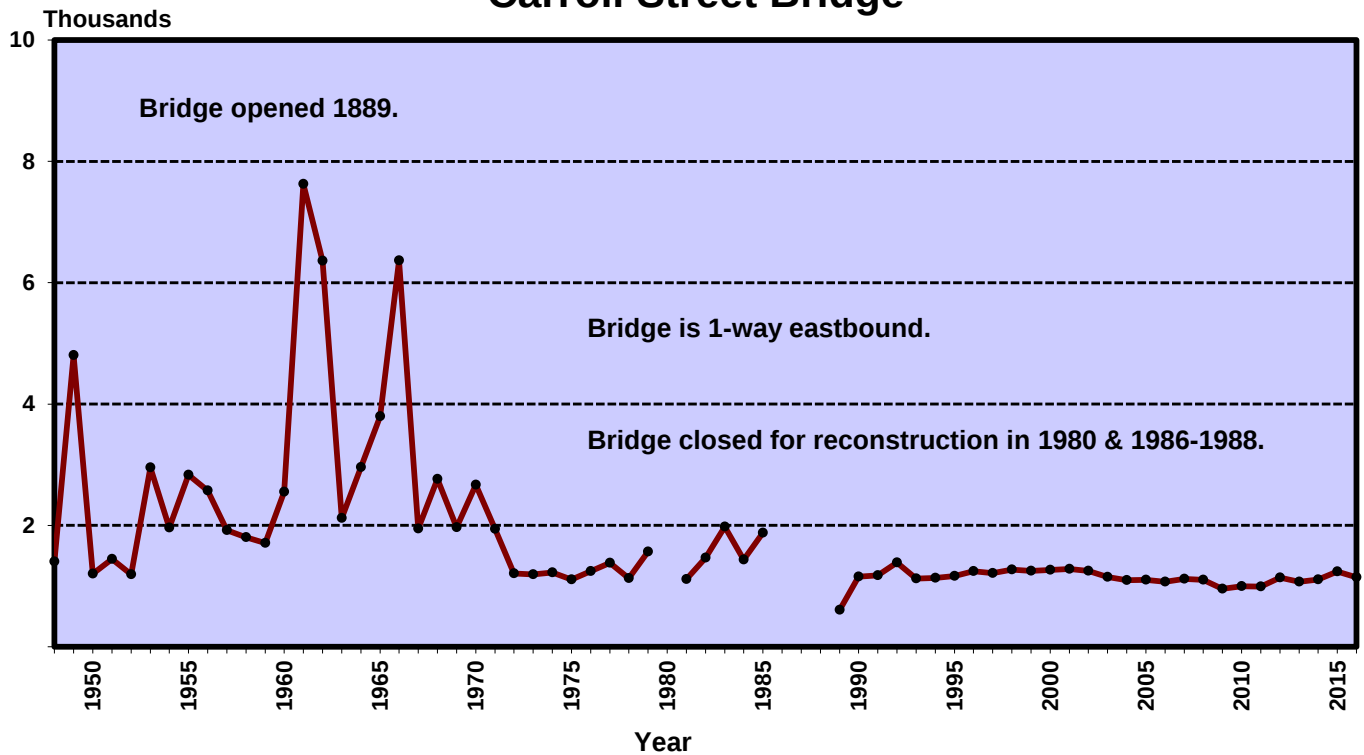
Based on September 1989 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Carroll Street Bridge ~ 2016



Average Daily Traffic Volumes Carroll Street Bridge



Hourly Vehicular Volumes

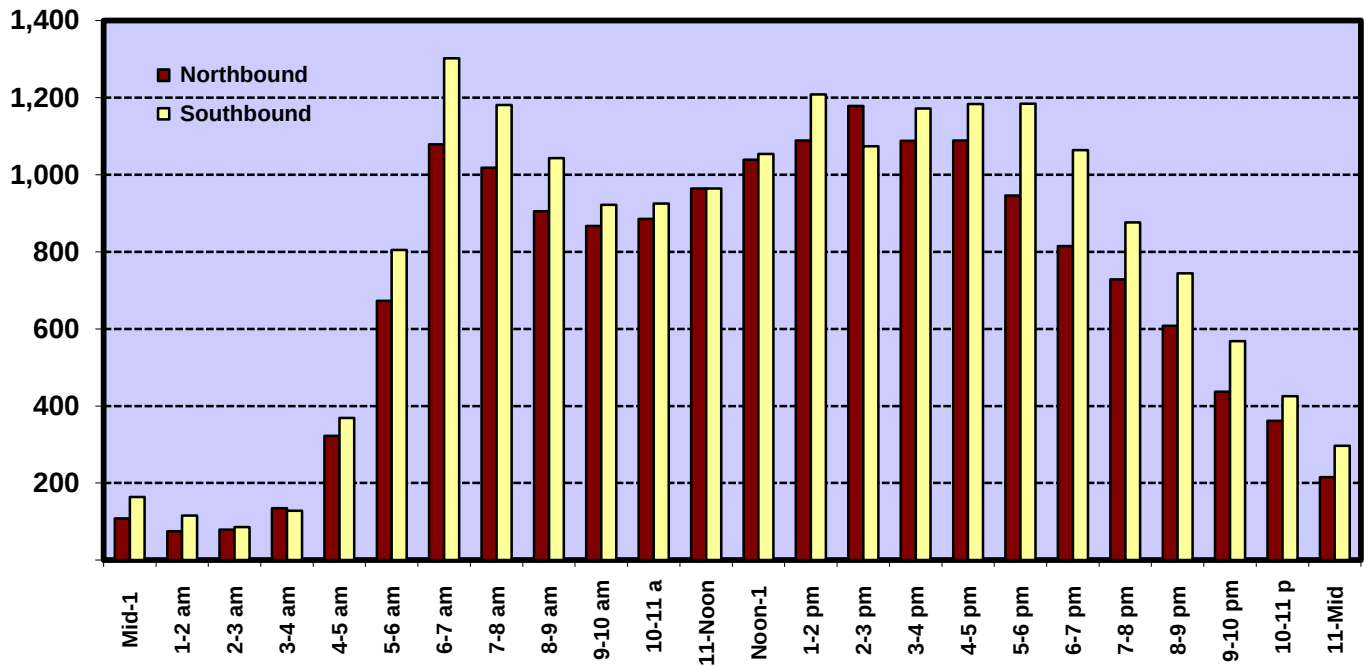
Cropsey Avenue Bridge - 2016

	Northbound					Southbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	108	---	---	---	---	---	164
1-2am	---	---	---	---	---	75	---	---	---	---	---	116
2-3am	---	---	---	---	---	79	---	---	---	---	---	86
3-4am	---	---	---	---	---	135	---	---	---	---	---	128
4-5am	---	---	---	---	---	322	---	---	---	---	---	369
5-6am	---	---	---	---	---	673	---	---	---	---	---	805
6-7am	---	---	---	---	---	1,079	---	---	---	---	---	1,302 **
7-8am	821	72	2	43	80	1,018	979	105	0	57	40	1,181
8-9am	756	49	3	46	51	905	885	72	2	49	35	1,043
9-10am	692	46	1	46	82	867	714	85	3	51	69	922
10-11am	776	43	0	27	39	885	819	27	0	37	42	925
11-12am	799	27	0	73	65	964	769	28	1	80	86	964
12-1pm	913	49	0	34	43	1,039	965	34	0	30	25	1,054
1-2pm	936	70	0	35	48	1,089	1,090	42	1	28	47	1,208
2-3pm	930	90	3	71	84	1,178 **	889	51	0	60	74	1,074
3-4pm	931	88	1	30	38	1,088	1,008	80	2	26	56	1,172
4-5pm	923	42	0	55	69	1,089	1,005	57	0	27	94	1,183
5-6pm	821	11	0	52	62	946	1,003	21	9	47	104	1,184
6-7pm	728	18	0	30	39	815	970	8	0	15	71	1,064
7-8pm	---	---	---	---	---	728	---	---	---	---	---	876
8-9pm	---	---	---	---	---	608	---	---	---	---	---	744
9-10pm	---	---	---	---	---	437	---	---	---	---	---	568
10-11pm	---	---	---	---	---	361	---	---	---	---	---	425
11-12pm	---	---	---	---	---	215	---	---	---	---	---	297
Totals	---	---	---	---	---	16,703	---	---	---	---	---	18,854
7-10am	2,269	167	6	135	213	2,790	2,578	262	5	157	144	3,146
10am-1pm	2,488	119	0	134	147	2,888	2,553	89	1	147	153	2,943
1-4pm	2,797	248	4	136	170	3,355	2,987	173	3	114	177	3,454
4-7pm	2,472	71	0	137	170	2,850	2,978	86	9	89	269	3,431
7am-7pm	10,026	605	10	542	700	11,883	11,096	610	18	507	743	12,974
6-10am						3,869						4,448
3-7pm	3,403	159	1	167	208	3,938	3,986	166	11	115	325	4,603
6am-7pm						12,962						14,276

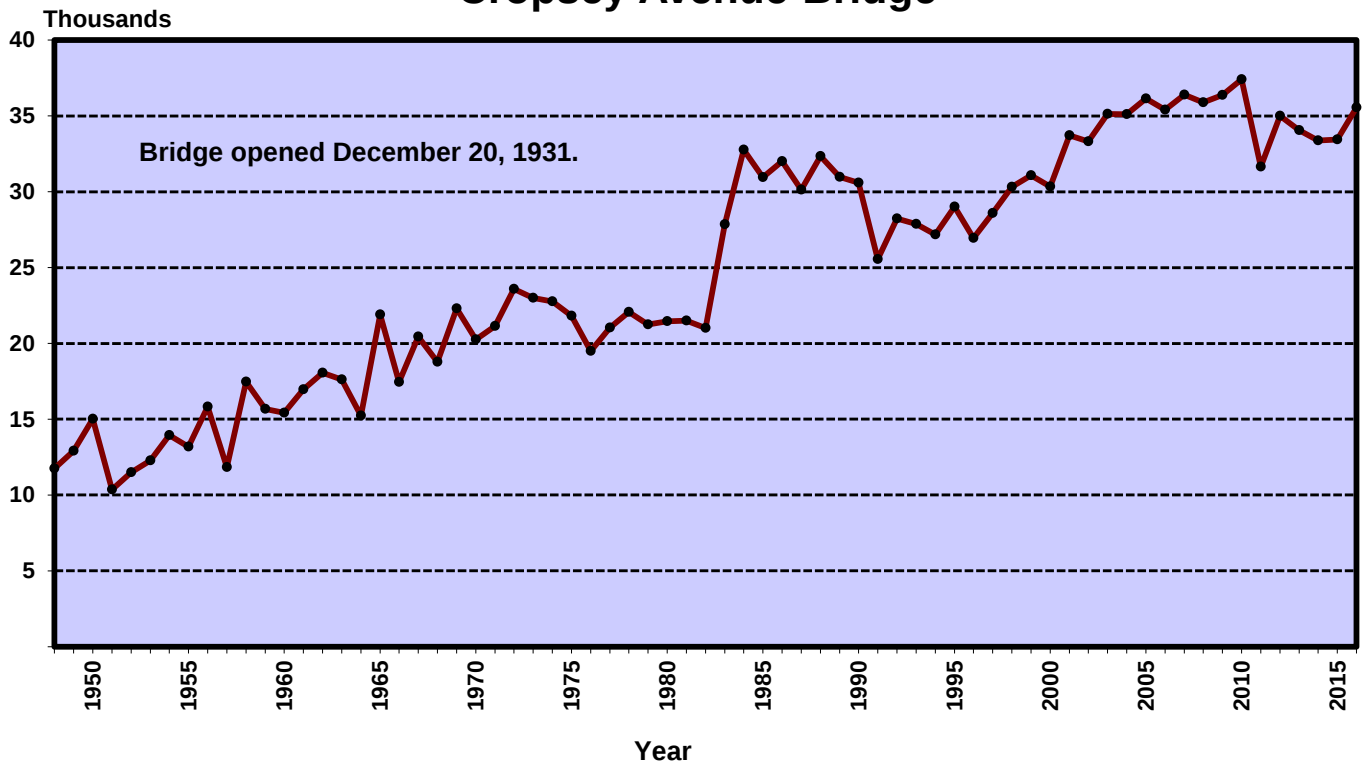
Based on September 1989 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Cropsey Avenue Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Cropsey Avenue Bridge



Hourly Vehicular Volumes

Hamilton Avenue Bridge - 2016

Northbound

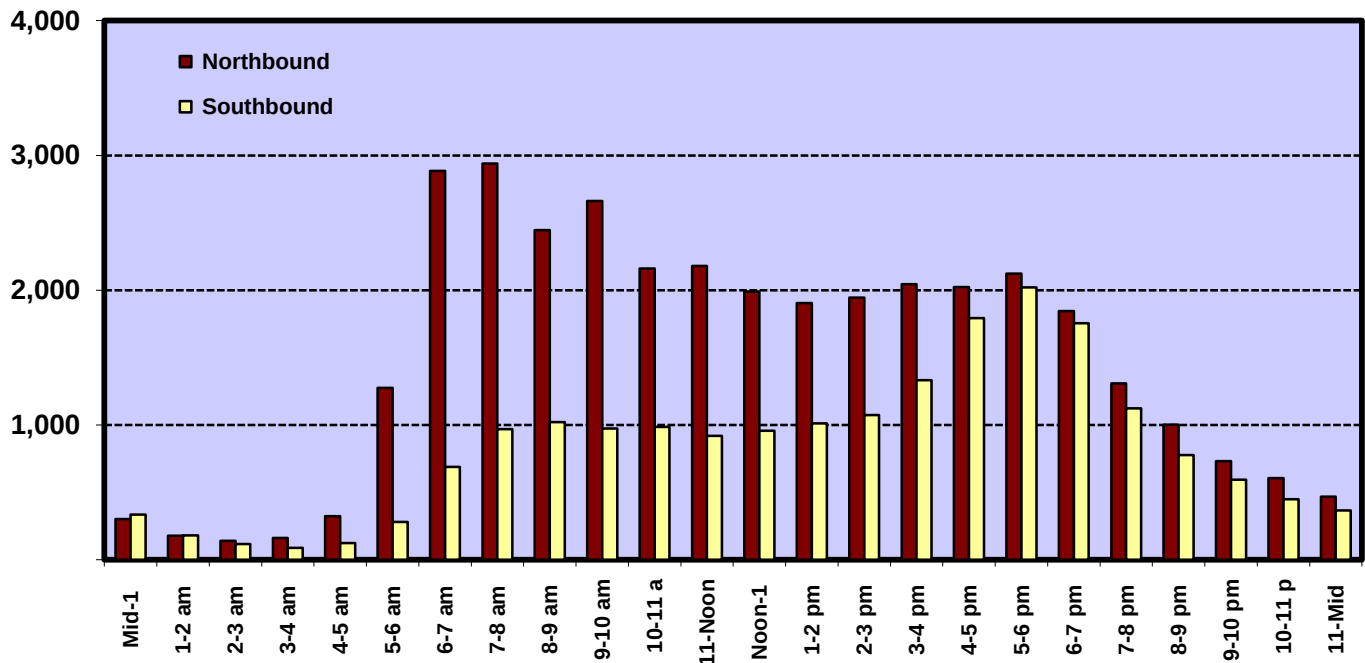
Southbound

FHWA Classes ▶	Commercial Vans,							Commercial Vans,							Grand Totals
	Autos, Motorcycles			Panel Trucks, Pickups,				Autos, Motorcycles			Panel Trucks, Pickups,				
	SUVs, Family Vans	Taxis, Liveries, Limos	Total Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	SUVs, Family Vans	Taxis, Liveries, Limos	Total Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks			
12-1am	211	47	7	1	8	27	301	235	51	17	0	7	24	334	
1-2am	113	26	5	3	9	22	178	110	30	14	0	0	27	181	
2-3am	85	19	2	1	10	24	141	51	25	10	1	4	25	116	
3-4am	97	16	13	2	17	17	162	49	13	6	1	2	18	89	
4-5am	241	20	12	3	21	26	323	76	6	12	1	7	21	123	
5-6am	1,019	89	49	12	59	48	1,276	167	13	12	24	30	34	280	
6-7am	2,356	257	130	53	57	31	2,884	377	19	41	151	55	46	689	
7-8am	2,427	245	164	33	53	18	2,940	713	20	90	33	78	35	969	
8-9am	2,039	112	190	26	49	31	2,447	730	31	126	41	62	31	1,021	
9-10am	1,992	74	326	25	185	60	2,662	701	31	94	24	93	31	974	
10-11am	1,657	72	250	15	133	34	2,161	637	42	145	15	105	42	986	
11-12am	1,573	86	251	14	183	73	2,180	647	35	112	15	84	27	920	
12-1pm	1,471	80	247	11	132	50	1,991	642	31	119	27	98	41	958	
1-2pm	1,399	79	189	28	153	57	1,905	715	26	130	27	84	30	1,012	
2-3pm	1,463	76	176	33	143	54	1,945	768	30	124	22	95	35	1,074	
3-4pm	1,637	82	140	59	107	20	2,045	999	37	137	40	92	28	1,333	
4-5pm	1,523	111	153	86	113	38	2,024	1,465	48	137	38	96	9	1,793	
5-6pm	1,689	165	139	46	60	25	2,124	1,763	61	97	11	84	4	2,020	
6-7pm	1,521	126	105	18	54	22	1,846	1,476	58	119	20	65	18	1,756	
7-8pm	1,128	56	58	4	33	30	1,309	970	31	58	15	39	10	1,123	
8-9pm	816	78	41	13	29	24	1,001	666	46	33	5	21	5	776	
9-10pm	604	48	29	3	27	20	731	498	45	27	3	16	4	593	
10-11pm	504	54	21	4	12	11	606	355	43	40	3	4	3	448	
11-12pm	371	59	15	4	9	11	469	309	35	13	2	3	3	365	
Totals	27,936	2,077	2,712	497	1,656	773	35,651	15,119	807	1,713	519	1,224	551	19,933	
7-10am	6,458	431	680	84	287	109	8,049	2,144	82	310	98	233	97	2,964	
10am-1pm	4,701	238	748	40	448	157	6,332	1,926	108	376	57	287	110	2,864	
1-4pm	4,499	237	505	120	403	131	5,895	2,482	93	391	89	271	93	3,414	
4-7pm	4,733	402	397	150	227	85	5,994	4,704	167	353	69	245	31	5,569	
7am-7pm	20,391	1,308	2,330	394	1,365	482	26,270	11,256	450	1,430	313	1,036	331	14,816	
6-10am	8,814	688	810	137	344	140	10,933	2,521	101	351	249	288	143	3,653	
3-7pm	6,370	484	537	209	334	105	8,039	5,703	204	490	109	337	59	6,902	
6am-7pm	22,747	1,565	2,460	447	1,422	513	29,154	11,633	469	1,471	464	1,091	377	15,505	

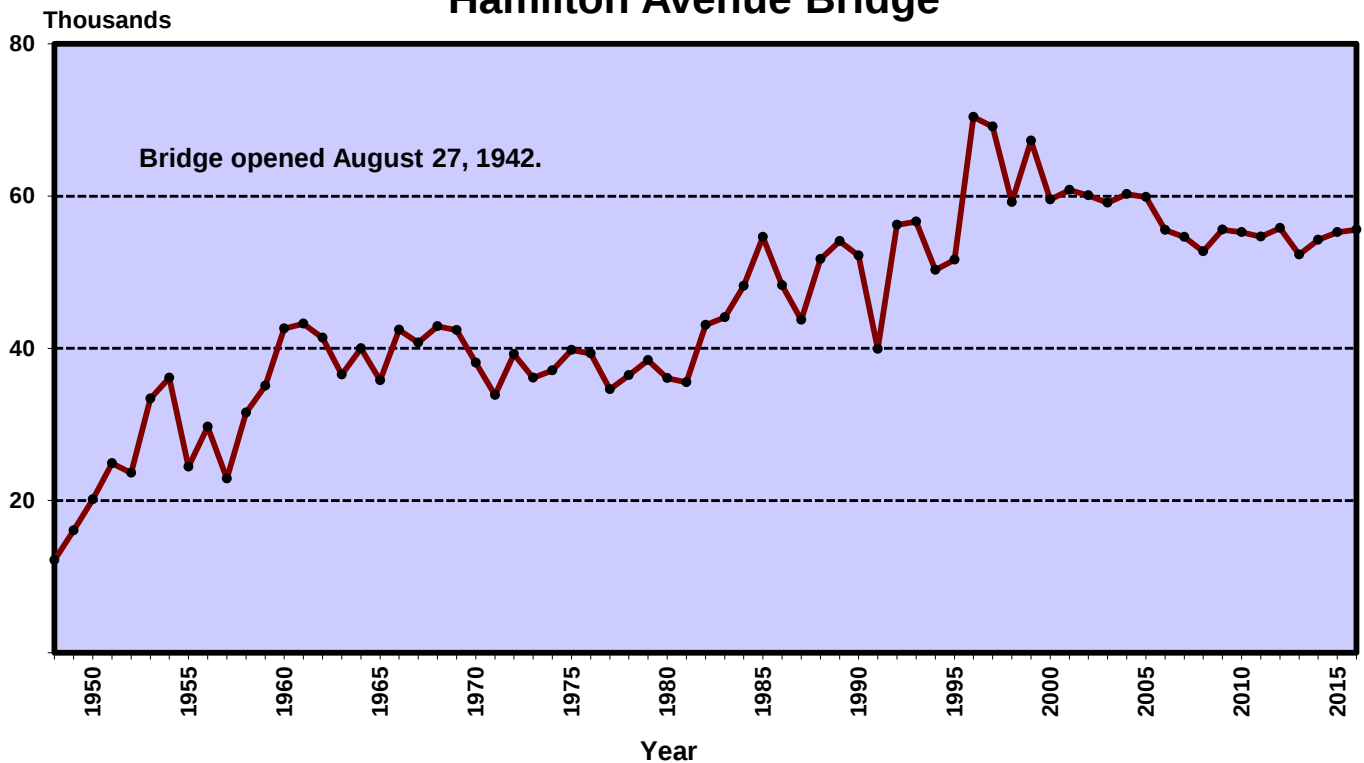
Based on October 2015 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Hamilton Avenue Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Hamilton Avenue Bridge



Hourly Vehicular Volumes

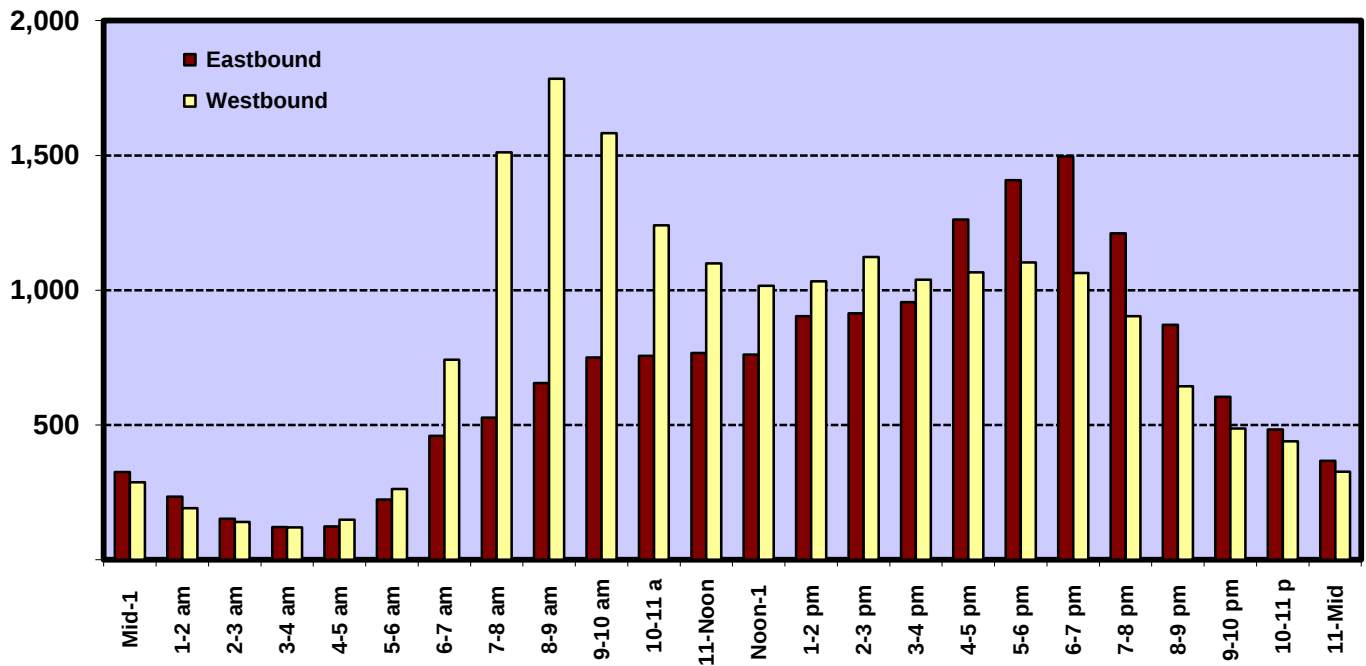
Metropolitan Avenue Bridge - 2016

	Eastbound					Totals	Westbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans		Autos	Buses	Commuter Vans	Trucks	Commercial Vans		Totals
12-1am	---	---	---	---	---	325	---	---	---	---	---	287	612
1-2am	---	---	---	---	---	234	---	---	---	---	---	191	425
2-3am	---	---	---	---	---	152	---	---	---	---	---	140	292
3-4am	---	---	---	---	---	121	---	---	---	---	---	120	241
4-5am	---	---	---	---	---	124	---	---	---	---	---	149	273
5-6am	---	---	---	---	---	223	---	---	---	---	---	263	486
6-7am	---	---	---	---	---	460	---	---	---	---	---	742	1,202
7-8am	395	10	10	85	27	527	1,119	32	62	213	85	1,511	2,038
8-9am	423	12	17	136	68	656	1,253	20	58	319	134	1,784	2,440
9-10am	387	33	20	221	89	750	959	45	51	389	139	1,583	2,333
10-11am	619	7	10	87	33	756	1,029	22	31	118	41	1,241	1,997
11-12am	452	13	21	215	66	767	690	19	50	254	87	1,100	1,867
12-1pm	627	12	14	82	26	761	826	16	26	111	37	1,016	1,777
1-2pm	734	25	8	92	45	904	859	23	22	89	40	1,033	1,937
2-3pm	634	11	26	165	78	914	772	19	33	206	93	1,123	2,037
3-4pm	802	11	20	84	39	956	853	20	17	100	49	1,039	1,995
4-5pm	931	31	52	143	105	1,262	813	14	28	142	69	1,066	2,328
5-6pm	1,069	13	67	145	114	1,408	862	10	57	94	80	1,103	2,511
6-7pm	1,187	13	65	132	99	1,496	889	15	50	58	52	1,064	2,560
7-8pm	---	---	---	---	---	1,211	---	---	---	---	---	904	2,115
8-9pm	---	---	---	---	---	872	---	---	---	---	---	643	1,515
9-10pm	---	---	---	---	---	604	---	---	---	---	---	487	1,091
10-11pm	---	---	---	---	---	483	---	---	---	---	---	439	922
11-12pm	---	---	---	---	---	367	---	---	---	---	---	326	693
Totals	---	---	---	---	---	16,333	---	---	---	---	---	19,354	35,687
7-10am	1,205	55	47	442	184	1,933	3,331	97	171	921	358	4,878	6,811
10am-1pm	1,698	32	45	384	125	2,284	2,545	57	107	483	165	3,357	5,641
1-4pm	2,170	47	54	341	162	2,774	2,484	62	72	395	182	3,195	5,969
4-7pm	3,187	57	184	420	318	4,166	2,564	39	135	294	201	3,233	7,399
7am-7pm	8,260	191	330	1,587	789	11,157	10,924	255	485	2,093	906	14,663	25,820
6-10am						2,393						5,620	8,013
3-7pm	3,989	68	204	504	357	5,122	3,417	59	152	394	250	4,272	9,394
6am-7pm						11,617						15,405	27,022

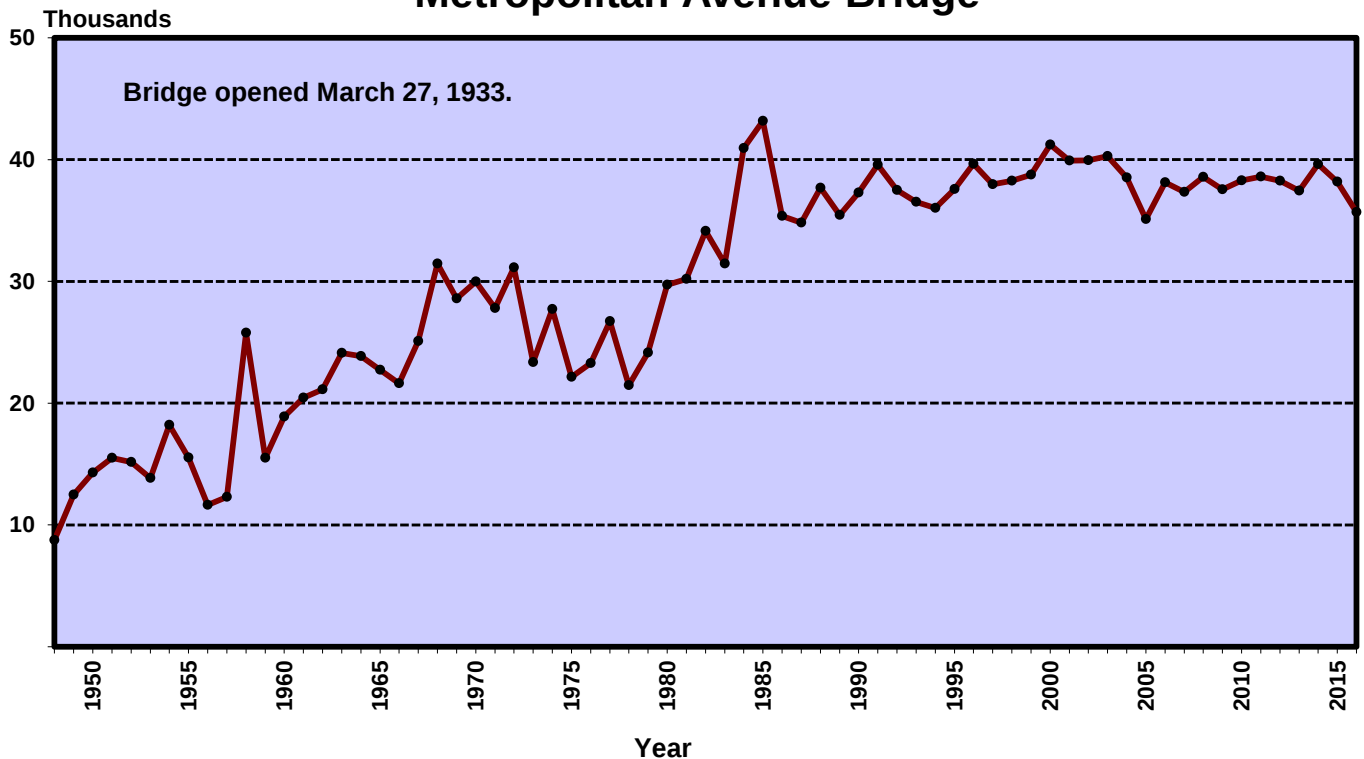
Based on September 1989 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Metropolitan Avenue Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Metropolitan Avenue Bridge



Hourly Vehicular Volumes

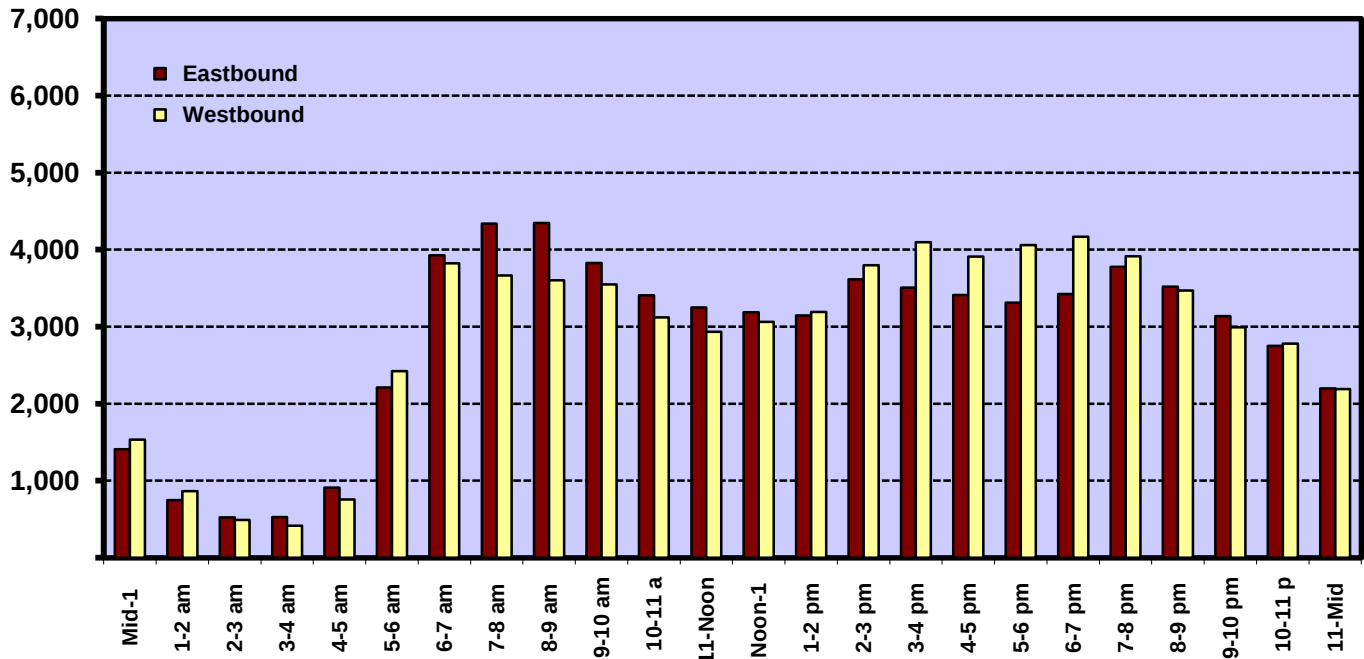
Mill Basin Bridge - 2016

	Eastbound					Westbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	1,407	---	---	---	---	---	1,535
1-2am	---	---	---	---	---	747	---	---	---	---	---	865
2-3am	---	---	---	---	---	524	---	---	---	---	---	492
3-4am	---	---	---	---	---	527	---	---	---	---	---	417
4-5am	---	---	---	---	---	909	---	---	---	---	---	757
5-6am	---	---	---	---	---	2,209	---	---	---	---	---	2,421
6-7am	---	---	---	---	---	3,926	---	---	---	---	---	3,825
7-8am	4,038	57	21	5	219	4,340	3,413	16	0	107	130	3,666
8-9am	4,110	17	15	16	188	4,346	3,297	42	0	96	168	3,603
9-10am	3,525	9	17	24	252	3,827	3,220	63	1	98	166	3,548
10-11am	3,286	8	11	14	90	3,409	3,017	15	0	32	55	3,119
11-12am	2,874	4	63	29	279	3,249	2,650	0	4	140	139	2,933
12-1pm	3,044	4	19	14	106	3,187	2,885	0	0	67	111	3,063
1-2pm	2,944	81	12	10	98	3,145	3,079	9	0	34	71	3,193
2-3pm	3,280	34	22	13	268	3,617	3,520	7	0	108	164	3,799
3-4pm	3,348	20	13	5	121	3,507	3,848	69	0	75	105	4,097
4-5pm	3,175	10	30	5	190	3,410	3,591	36	2	112	170	3,911
5-6pm	3,129	5	14	11	152	3,311	3,758	28	3	121	150	4,060
6-7pm	3,240	3	13	4	166	3,426	3,909	3	1	104	151	4,168
7-8pm	---	---	---	---	---	3,777	---	---	---	---	---	3,916
8-9pm	---	---	---	---	---	3,518	---	---	---	---	---	3,471
9-10pm	---	---	---	---	---	3,137	---	---	---	---	---	2,994
10-11pm	---	---	---	---	---	2,749	---	---	---	---	---	2,780
11-12pm	---	---	---	---	---	2,198	---	---	---	---	---	2,191
Totals	---	---	---	---	---	68,402	---	---	---	---	---	68,824
7-10am	11,673	83	53	45	659	12,513	9,930	121	1	301	464	10,817
10am-1pm	9,204	16	93	57	475	9,845	8,552	15	4	239	305	9,115
1-4pm	9,572	135	47	28	487	10,269	10,447	85	0	217	340	11,089
4-7pm	9,544	18	57	20	508	10,147	11,258	67	6	337	471	12,139
7am-7pm	39,993	252	250	150	2,129	42,774	40,187	288	11	1,094	1,580	43,160
6-10am						16,439						14,642
3-7pm	12,892	38	70	25	629	13,654	15,106	136	6	412	576	16,236
6am-7pm						46,700						46,985

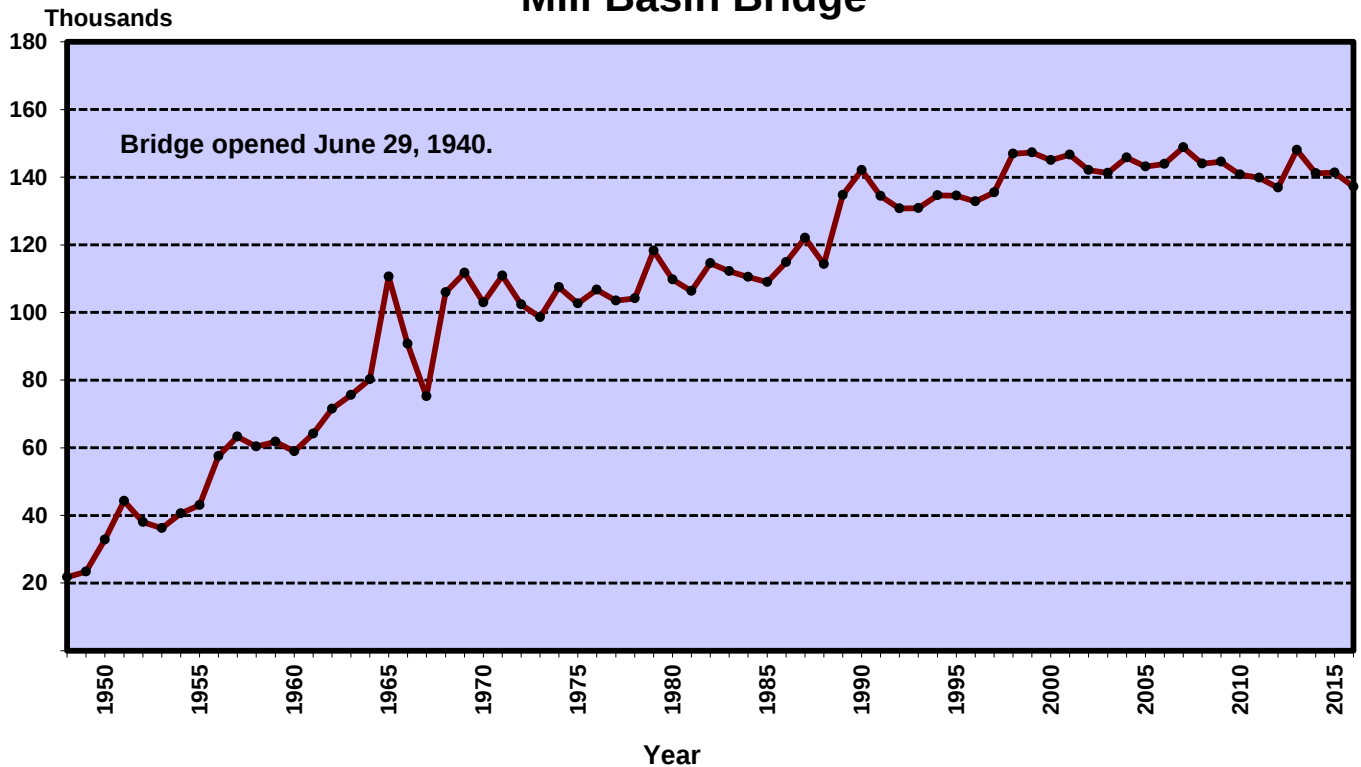
Based on September 1989 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Mill Basin Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Mill Basin Bridge



Hourly Vehicular Volumes

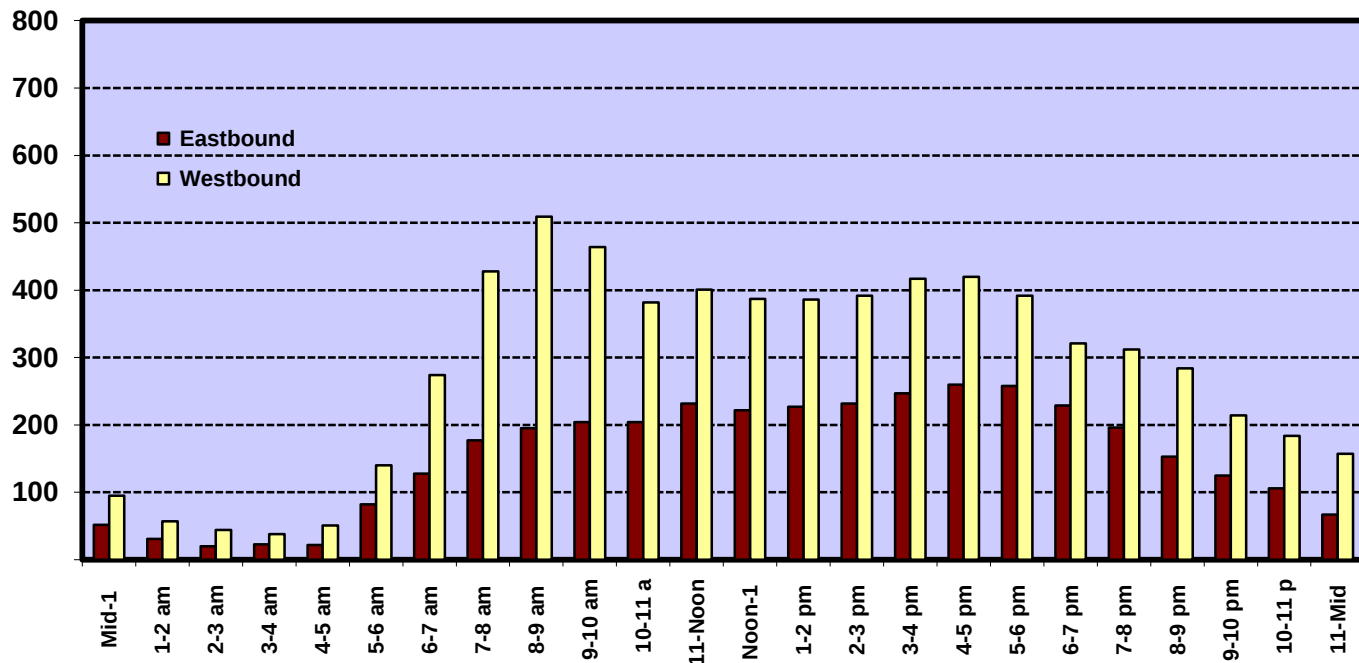
Ninth Street Bridge - 2016

	Eastbound						Westbound						2-Way Totals
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	
12-1am	---	---	---	---	---	52	---	---	---	---	---	95	
1-2am	---	---	---	---	---	31	---	---	---	---	---	57	
2-3am	---	---	---	---	---	20	---	---	---	---	---	44	
3-4am	---	---	---	---	---	23	---	---	---	---	---	38	
4-5am	---	---	---	---	---	22	---	---	---	---	---	51	
5-6am	---	---	---	---	---	82	---	---	---	---	---	140	
6-7am	---	---	---	---	---	128	---	---	---	---	---	274	
7-8am	129	18	5	15	10	177	346	9	0	40	33	428	
8-9am	121	17	7	38	12	195	425	5	0	44	35	509	
9-10am	129	15	3	39	18	204	389	10	0	40	25	464	
10-11am	159	15	3	17	10	204	345	8	0	16	13	382	
11-12am	154	14	10	44	10	232	251	28	0	84	38	401	
12-1pm	169	11	10	22	10	222	255	27	0	71	34	387	
1-2pm	108	13	15	76	15	227	290	7	39	25	25	386	
2-3pm	142	15	11	46	18	232	303	17	15	33	24	392	
3-4pm	200	12	2	19	14	247	349	20	0	30	18	417	
4-5pm	196	11	5	29	19	260	323	14	0	51	32	420	
5-6pm	199	17	1	30	11	258	330	23	0	23	16	392	
6-7pm	156	15	1	41	16	229	291	9	0	13	8	321	
7-8pm	---	---	---	---	---	196	---	---	---	---	---	312	
8-9pm	---	---	---	---	---	153	---	---	---	---	---	284	
9-10pm	---	---	---	---	---	125	---	---	---	---	---	214	
10-11pm	---	---	---	---	---	106	---	---	---	---	---	184	
11-12pm	---	---	---	---	---	67	---	---	---	---	---	157	
Totals	---	---	---	---	---	3,692	---	---	---	---	---	6,749	
7-10am	379	50	15	92	40	576	1,160	24	0	124	93	1,401	
10am-1pm	482	40	23	83	30	658	851	63	0	171	85	1,170	
1-4pm	450	40	28	141	47	706	942	44	54	88	67	1,195	
4-7pm	551	43	7	100	46	747	944	46	0	87	56	1,133	
7am-7pm	1,862	173	73	416	163	2,687	3,897	177	54	470	301	4,899	
6-10am						704						1,675	
3-7pm	751	55	9	119	60	994	1,293	66	0	117	74	1,550	
6am-7pm						2,815						5,173	

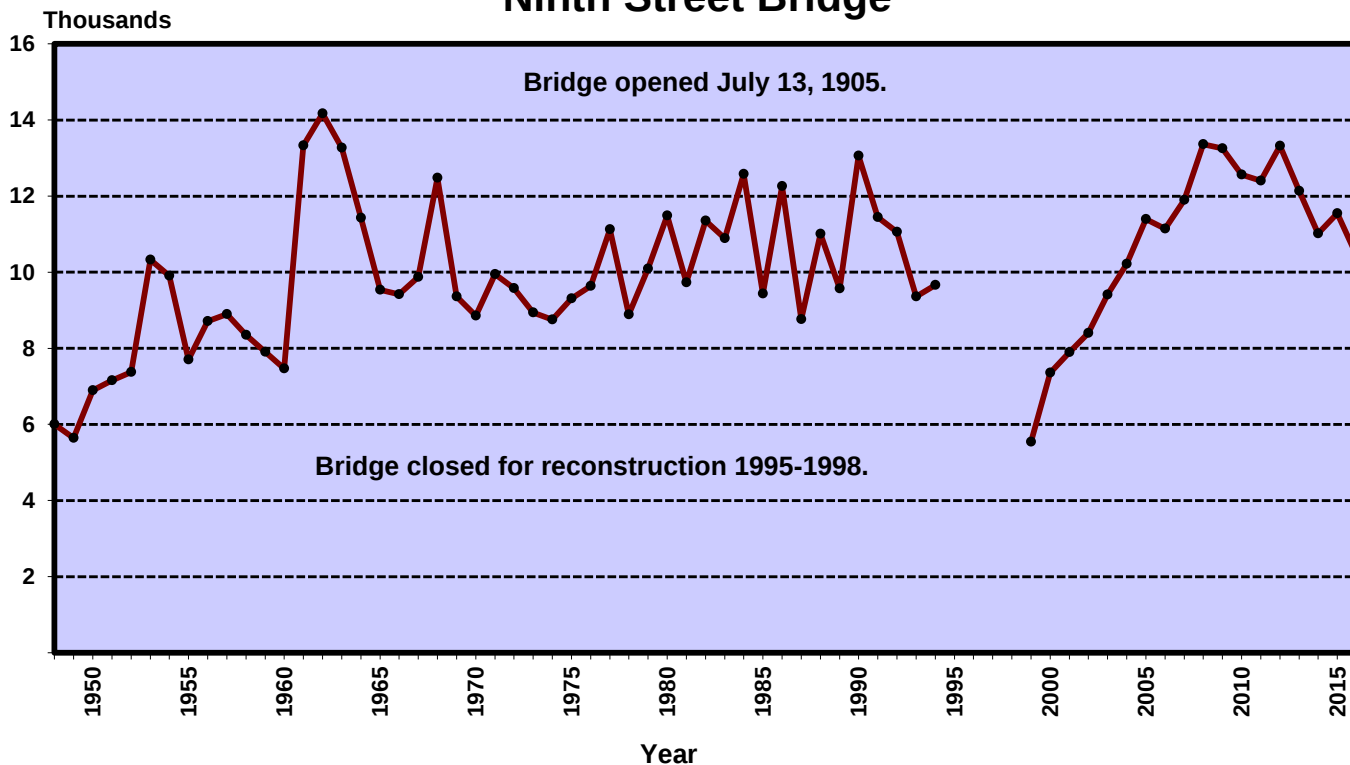
Based on September 1989 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Ninth Street Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Ninth Street Bridge



Hourly Vehicular Volumes

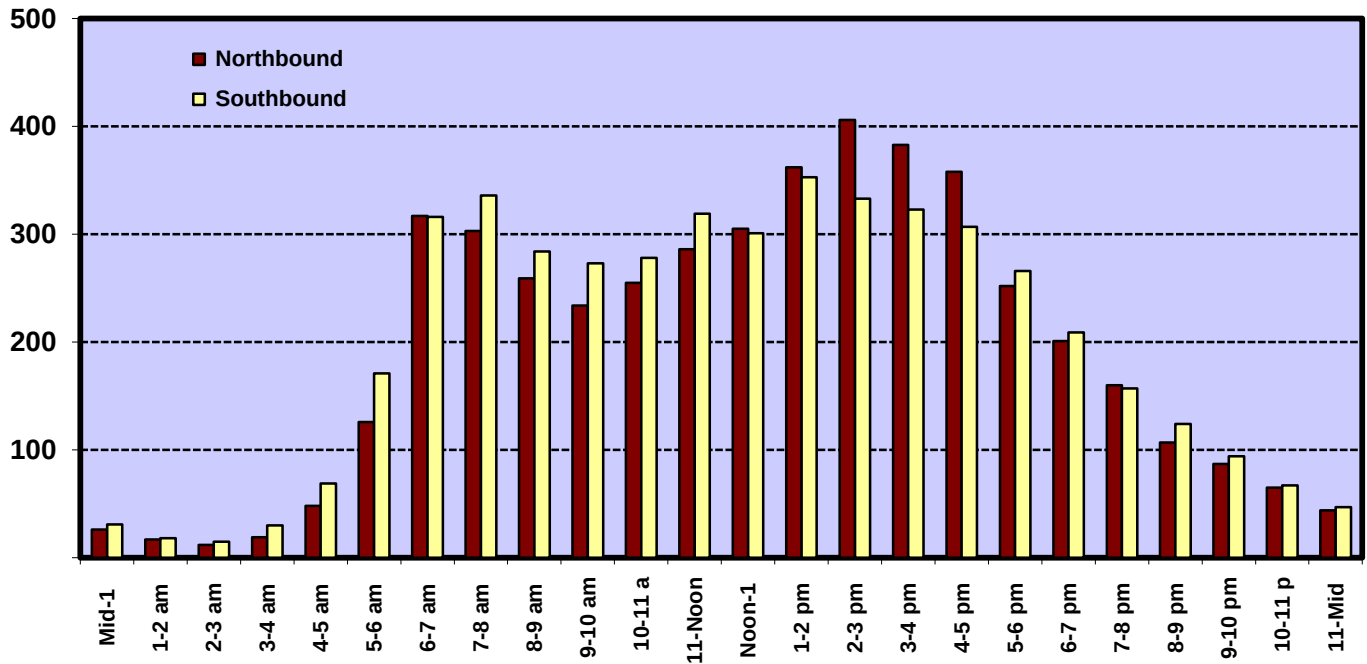
Stillwell Avenue Bridge - 2016

	Northbound					Southbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	26	---	---	---	---	---	31
1-2am	---	---	---	---	---	17	---	---	---	---	---	18
2-3am	---	---	---	---	---	12	---	---	---	---	---	15
3-4am	---	---	---	---	---	19	---	---	---	---	---	30
4-5am	---	---	---	---	---	48	---	---	---	---	---	69
5-6am	---	---	---	---	---	126	---	---	---	---	---	171
6-7am	---	---	---	---	---	317	---	---	---	---	---	316
7-8am	242	22	0	39	0	303	261	57	0	18	0	336
8-9am	196	27	0	36	0	259	235	31	0	18	0	284
9-10am	175	27	0	32	0	234	177	17	0	79	0	273
10-11am	182	28	0	45	0	255	201	21	0	56	0	278
11-12am	214	12	0	60	0	286	255	16	0	48	0	319
12-1pm	213	14	0	78	0	305	242	17	0	42	0	301
1-2pm	244	27	0	91	0	362	257	22	0	74	0	353
2-3pm	291	35	0	80	0	406	218	25	0	90	0	333
3-4pm	296	40	0	47	0	383	263	17	0	43	0	323
4-5pm	276	37	0	45	0	358	249	18	0	40	0	307
5-6pm	220	17	0	15	0	252	227	14	0	25	0	266
6-7pm	173	19	0	9	0	201	183	17	0	9	0	209
7-8pm	---	---	---	---	---	160	---	---	---	---	---	157
8-9pm	---	---	---	---	---	107	---	---	---	---	---	124
9-10pm	---	---	---	---	---	87	---	---	---	---	---	94
10-11pm	---	---	---	---	---	65	---	---	---	---	---	67
11-12pm	---	---	---	---	---	44	---	---	---	---	---	47
Totals	---	---	---	---	---	4,632	---	---	---	---	---	4,721
7-10am	613	76	0	107	0	796	673	105	0	115	0	893
10am-1pm	609	54	0	183	0	846	698	54	0	146	0	898
1-4pm	831	102	0	218	0	1,151	738	64	0	207	0	1,009
4-7pm	669	73	0	69	0	811	659	49	0	74	0	782
7am-7pm	2,722	305	0	577	0	3,604	2,768	272	0	542	0	3,582
6-10am						1,113						1,209
3-7pm	965	113	0	116	0	1,194	922	66	0	117	0	1,105
6am-7pm						3,921						3,898

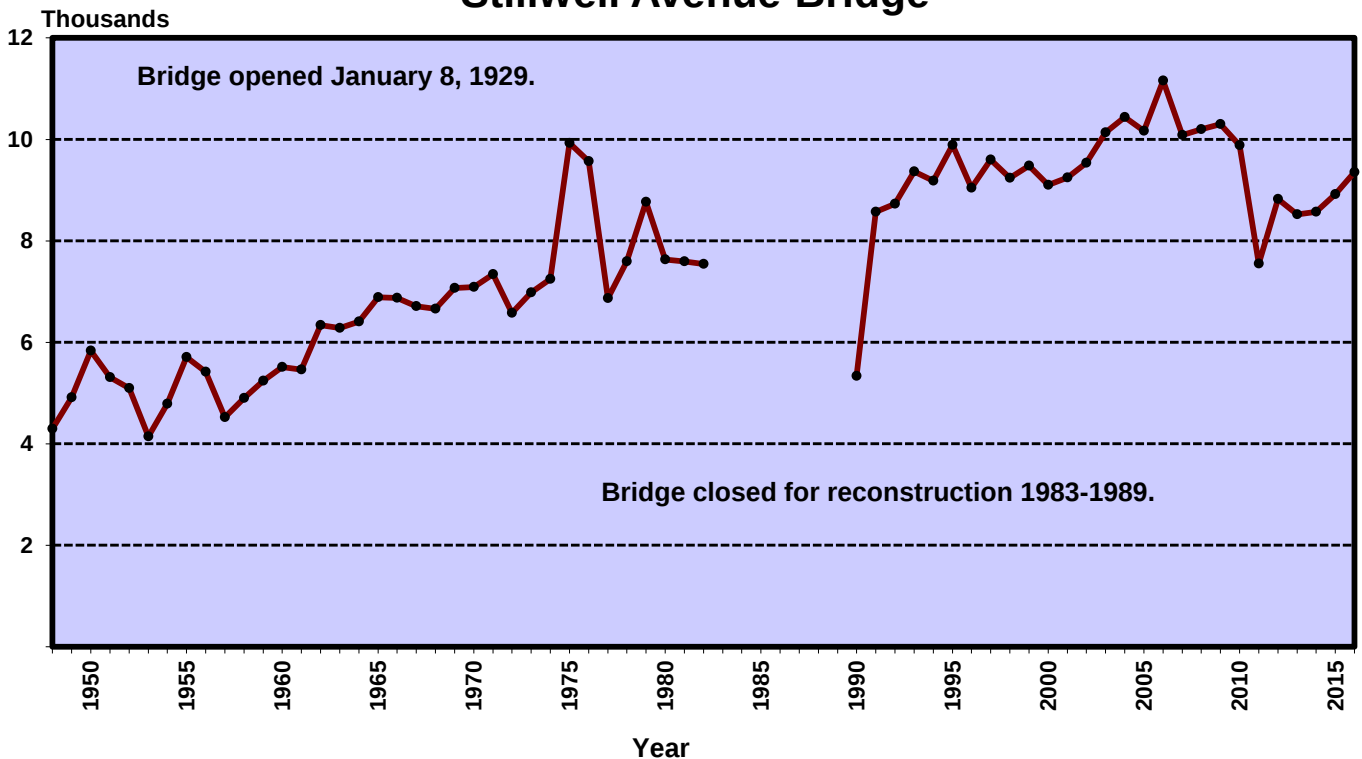
Based on September 1989 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Stillwell Avenue Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Stillwell Avenue Bridge



Hourly Vehicular Volumes

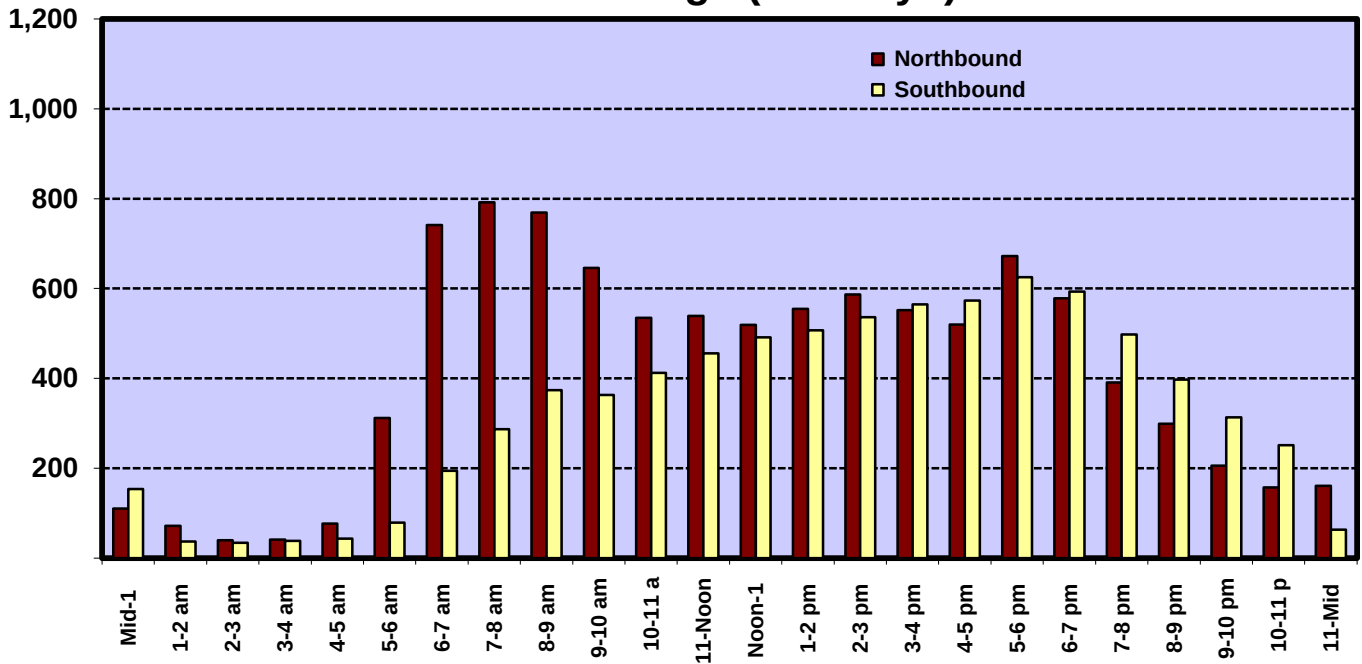
Third Avenue Bridge - 2016

	Northbound					Southbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	110	---	---	---	---	---	154
1-2am	---	---	---	---	---	72	---	---	---	---	---	37
2-3am	---	---	---	---	---	40	---	---	---	---	---	34
3-4am	---	---	---	---	---	41	---	---	---	---	---	38
4-5am	---	---	---	---	---	77	---	---	---	---	---	43
5-6am	---	---	---	---	---	312	---	---	---	---	---	79
6-7am	---	---	---	---	---	741	---	---	---	---	---	194
7-8am	627	12	0	88	65	792	212	6	0	39	30	287
8-9am	638	8	0	66	57	769	271	11	0	60	32	374
9-10am	408	8	0	137	93	646	254	7	2	60	40	363
10-11am	462	9	0	34	30	535	345	5	1	35	26	412
11-12am	395	8	1	84	51	539	341	5	0	65	45	456
12-1pm	466	3	0	29	21	519	434	4	1	27	25	491
1-2pm	439	9	0	62	45	555	439	5	0	34	29	507
2-3pm	381	16	0	110	80	587	392	6	0	87	51	536
3-4pm	458	12	0	44	38	552	514	5	0	20	26	565
4-5pm	405	7	0	52	56	520	463	6	0	48	56	573
5-6pm	588	7	0	31	46	672	541	3	0	35	46	625
6-7pm	500	12	0	39	27	578	505	4	0	36	48	593
7-8pm	---	---	---	---	---	391	---	---	---	---	---	498
8-9pm	---	---	---	---	---	299	---	---	---	---	---	397
9-10pm	---	---	---	---	---	206	---	---	---	---	---	313
10-11pm	---	---	---	---	---	157	---	---	---	---	---	251
11-12pm	---	---	---	---	---	161	---	---	---	---	---	63
Totals	---	---	---	---	---	9,871	---	---	---	---	---	7,883
7-10am	1,673	28	0	291	215	2,207	737	24	2	159	102	1,024
10am-1pm	1,323	20	1	147	102	1,593	1,120	14	2	127	96	1,359
1-4pm	1,278	37	0	216	163	1,694	1,345	16	0	141	106	1,608
4-7pm	1,493	26	0	122	129	1,770	1,509	13	0	119	150	1,791
7am-7pm	5,767	111	1	776	609	7,264	4,711	67	4	546	454	5,782
6-10am						2,948						1,218
3-7pm	1,951	38	0	166	167	2,322	2,023	18	0	139	176	2,356
6am-7pm						8,005						5,976

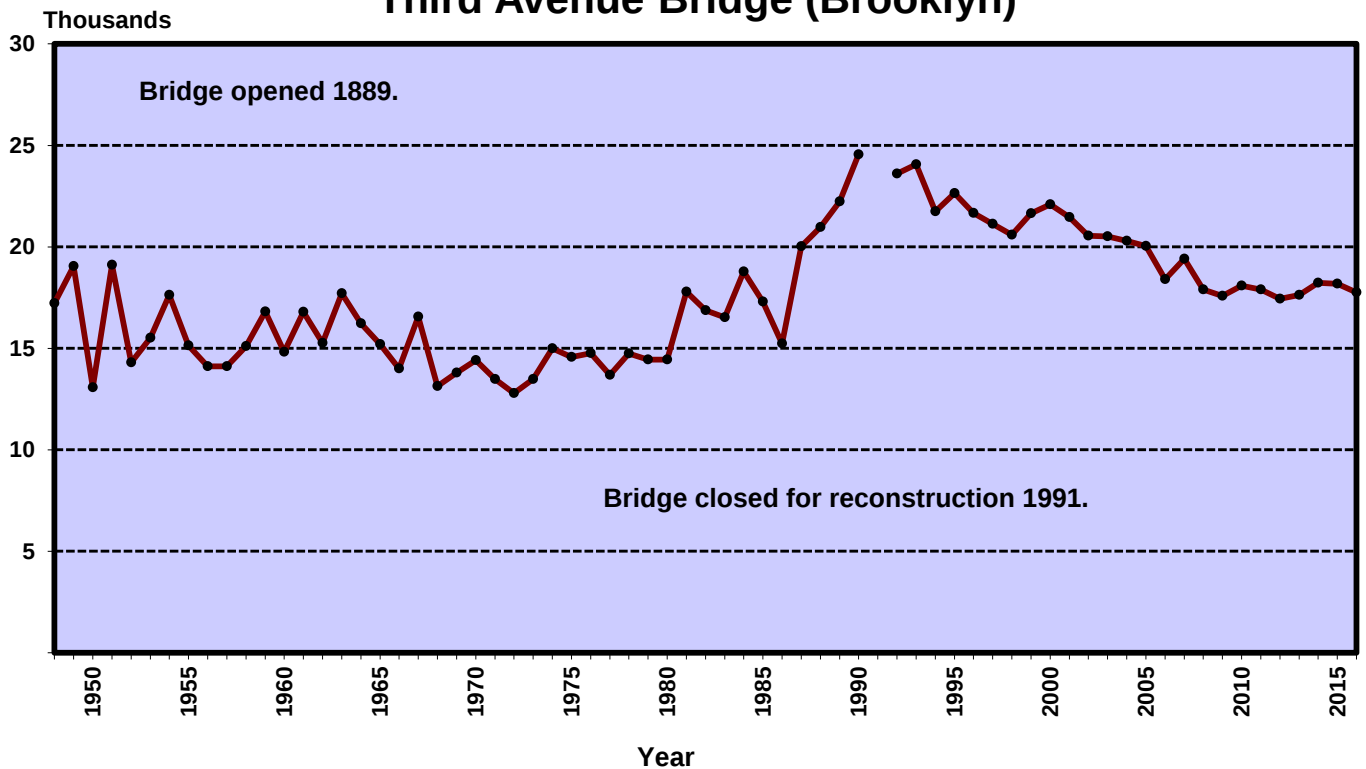
Based on September 1989 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Third Avenue Bridge (Brooklyn) ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Third Avenue Bridge (Brooklyn)



Hourly Vehicular Volumes

Third Street Bridge - 2016

Eastbound

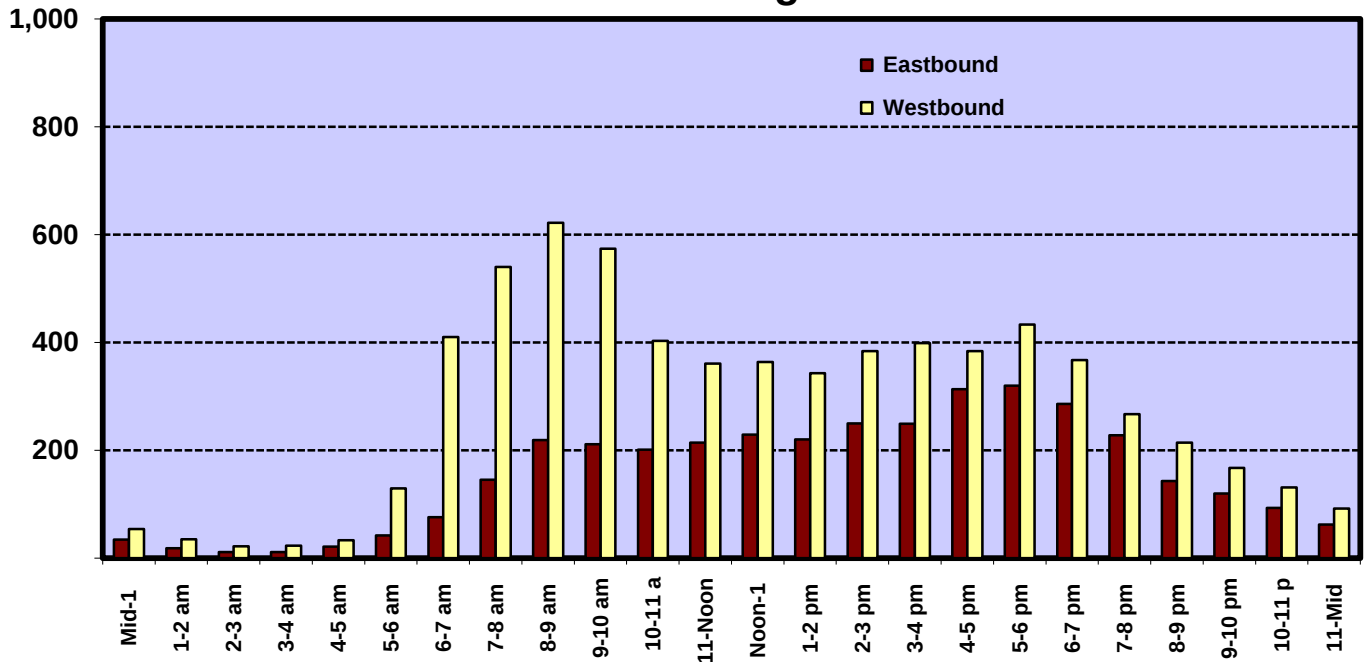
FHWA Classes ▲	Commercial Vans, Panel Trucks, Pickups,												Autos, Motorcycles SUVs, Family Vans												Taxis, Liveries, Limos												Commercial Vans, Panel Trucks, Pickups, Police, Fleet Vehicles												Single Unit Trucks												Multiple Unit Trucks												Total Vehicles																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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395				396 - 400				401 - 405				406 - 410				411 - 415				416 - 420				421 - 425				426 - 430				431 - 435				436 - 440				441 - 445				446 - 450				451 - 455				456 - 460				461 - 465				466 - 470				471 - 475				476 - 480				481 - 485				486 - 490				491 - 495				496 - 500				501 - 505				506 - 510				511 - 515				516 - 520				521 - 525				526 - 530				531 - 535				536 - 540				541 - 545				546 - 550				551 - 555				556 - 560				561 - 565				566 - 570				571 - 575				576 - 580				581 - 585				586 - 590				591 - 595				596 - 600				601 - 605				606 - 610				611 - 615				616 - 620				621 - 625				626 - 630				631 - 635				636 - 640				641 - 645				646 - 650				651 - 655				656 - 660				661 - 665				666 - 670				671 - 675				676 - 680				681 - 685				686 - 690				691 - 695				696 - 700				701 - 705				706 - 710				711 - 715				716 - 720				721 - 725				726 - 730				731 - 735				736 - 740				741 - 745				746 - 750				751 - 755				756 - 760				761 - 765				766 - 770				771 - 775				776 - 780				781 - 785				786 - 790				791 - 795				796 - 800				801 - 805				806 - 810				811 - 815				816 - 820				821 - 825				826 - 830				831 - 835				836 - 840				841 - 845				846 - 850				851 - 855				856 - 860				861 - 865				866 - 870				871 - 875				876 - 880				881 - 885				886 - 890				891 - 895				896 - 900				901 - 905				906 - 910				911 - 915				916 - 920				921 - 925				926 - 930				931 - 935				936 - 940				941 - 945				946 - 950				951 - 955				956 - 960				961 - 965				966 - 970				971 - 975				976 - 980				981 - 985				986 - 990				991 - 995				996 - 1000				1001 - 1005				1006 - 1010				1011 - 1015				1016 - 1020				1021 - 1025				1026 - 1030				1031 - 1035				1036 - 1040				1041 - 1045				1046 - 1050				1051 - 1055				1056 - 1060				1061 - 1065				1066 - 1070				1071 - 1075				1076 - 1080				1081 - 1085				1086 - 1090				1091 - 1095				1096 - 1100				1101 - 1105				1106 - 1110				1111 - 1115				1116 - 1120				1121 - 1125				1126 - 1130				1131 - 1135				1136 - 1140				1141 - 1145				1146 - 1150				1151 - 1155				1156 - 1160				1161 - 1165				1166 - 1170				1171 - 1175				1176 - 1180				1181 - 1185				1186 - 1190				1191 - 1195				1196 - 1200				1201 - 1205				1206 - 1210				1211 - 1215				1216 - 1220				1221 - 1225				1226 - 1230				1231 - 1235				1236 - 1240				1241 - 1245				1246 - 1250				1251 - 1255				1256 - 1260				1261 - 1265				1266 - 1270				1271 - 1275				1276 - 1280				1281 - 1285				1286 - 1290				1291 - 1295				1296 - 1300				1301 - 1305				1306 - 1310				1311 - 1315				1316 - 1320				1321 - 1325				1326 - 1330				1331 - 1335				1336 - 1340				1341 - 1345				1346 - 1350				1351 - 1355				1356 - 1360				1361 - 1365				1366 - 1370				1371 - 1375				1376 - 1380				1381 - 1385				1386 - 1390				1391 - 1395				1396 - 1400				1401 - 1405				1406 - 1410				1411 - 1415				1416 - 1420				1421 - 1425				1426 - 1430				1431 - 1435				1436 - 1440				1441 - 1445				1446 - 1450				1451 - 1455				1456 - 1460				1461 - 1465				1466 - 1470				1471 - 1475				1476 - 1480				1481 - 1485				1486 - 1490				1491 - 1495				1496 - 1500				1501 - 1505				1506 - 1510				1511 - 1515				1516 - 1520				1521 - 1525				1526 - 1530				1531 - 1535				1536 - 1540				1541 - 1545				1546 - 1550				1551 - 1555				1556 - 1560				1561 - 1565				1566 - 1570				1571 - 1575				1576 - 1580				1581 - 1585				1586 - 1590				1591 - 1595				1596 - 1600				1601 - 1605				1606 - 1610				1611 - 1615				1616 - 1620				1621 - 1625				1626 - 1630				1631 - 1635				1636 - 1640				1641 - 1645				1646 - 1650				1651 - 1655				1656 - 1660				1661 - 1665				1666 - 1670				1671 - 1675				1676 - 1680				1681 - 1685				1686 - 1690				1691 - 1695				1696 - 1700				1701 - 1705				1706 - 1710				1711 - 1715				1716 - 1720				1721 - 1725				1726 - 1730				1731 - 1735				1736 - 1740				1741 - 1745				1746 - 1750				1751 - 1755				1756 - 1760				1761 - 1765				1766 - 1770				1771 - 1775				1776 - 1780				1781 - 1785				1786 - 1790				1791 - 1795				1796 - 1800				1801 - 1805				1806 - 1810				1811 - 1815				1816 - 1820				1821 - 1825				1826 - 1830				1831 - 1835				1836 - 1840				1841 - 1845				1846 - 1850				1851 - 1855				1856 - 1860				1861 - 1865				1866 - 1870				1871 - 1875				1876 - 1880				1881 - 1885				1886 - 1890				1891 - 1895				1896 - 1900				1901 - 1905				1906 - 1910				1911 - 1915				1916 - 1920				1921 - 1925				1926 - 1930				1931 - 1935				1936 - 1940				1941 - 1945				1946 - 1950				1951 - 1955				1956 - 1960				1961 - 1965				1966 - 1970				1971 - 1975				1976 - 1980				1981 - 1985				1986 - 1990				1991 - 1995				1996 - 2000				2001 - 2005				2006 - 2010				2011 - 2015				2016 - 2020				2021 - 2025				2026 - 2030				2031 - 2035				2036 - 2040				2041 - 2045				2046 - 2050				2051 - 2055				2056 - 2060				2061 - 2065				2066 - 2070				2071 - 2075				2076 - 2080				2081 - 2085				2086 - 2090				2091 - 2095				2096 - 2100				2101 - 2105				2106 - 2110				2111 - 2115				2116 - 2120				2121 - 2125				2126 - 2130				2131 - 2135				2136 - 2140				2141 - 2145				2146 - 2150				2151 - 2155				2156 - 2160				2161 - 2165				2166 - 2170				2171 - 2175				2176 - 2180				2181 - 2185				2186 - 2190				2191 - 2195				2196 - 2200				2201 - 2205				2206 - 2210				2211 - 2215				2216 - 2220				2221 - 2225				2226 - 2230				2231 - 2235				2236 - 2240				2241 - 2245				2246 - 2250				2251 - 2255				2256 - 2260				2261 - 2265				2266 - 2270				2271 - 2275				2276 - 2280				2281 - 2285				2286 - 2290				2291 - 2295				2296 - 2300				2301 - 2305				2306 - 2310				2311 - 2315				2316 - 2320				2321 - 2325				2326 - 2330				2331 - 2335				2336 - 2340				2341 - 2345				2346 - 2350				2351 - 2355				2356 - 2360				2361 - 2365				2366 - 2370				2371 - 2375				2376 - 2380				2381 - 2385				2386 - 2390				2391 - 2395				2396 - 2400				2401 - 2405				2406 - 2410				2411 - 2415				2416 - 2420				2421 - 2425				2426 - 2430				2431 - 2435				2436 - 2440				2441 - 2445				2446 - 2450				2451 - 2455				2456 - 2460				2461 - 2465				2466 - 2470				2471 - 2475				2476 - 2480				2481 - 2485				2486 - 2490				2491 - 2495				2496 - 2500				2501 - 2505				2506 - 2510				2511 - 2515				2516 - 2520				2521 - 2525				2526 - 2530				2531 - 2535				2536 - 2540				2541 - 2545				2546 - 2550				2551 - 2555				2556 - 2560				2561 - 2565				2566 - 2570				2571 - 2575				2576 - 2580				2581 - 2585				2586 - 2590				2591 - 2595				2596 - 2600				2601 - 2605				2606 - 2610				2611 - 2615				2616 - 2620				2621 - 2625				2626 - 2630				2631 - 2635				2636 - 2640				2641 - 2645				2646 - 2650				2651 - 2655				2656 - 2660				2661 - 2665				2666 - 2670				2671 - 2675				2676 - 2680				2681 - 2685				2686 - 2690				2691 - 2695				2696 - 2700				2701 - 2705				2706 - 2710				2711 - 2715				2716 - 2720				2721 - 2725				2726 - 2730				2731 - 2735				2736 - 2740				2741 - 2745				2746 - 2750				2751 - 2755				2756 - 2760				2761 - 2765				2766 - 2770				2771 - 2775				2776 - 2780				2781 - 2785				2786 - 2790				2791 - 2795				2796 - 2800				2801 - 2805				2806 - 2810				2811 - 2815				2816 - 2820				2821 - 2825				2826 - 2830				2831 - 2835				2836 - 2840				2841 - 2845				2846 - 2850				2851 - 2855				2856 - 2860				2861 - 2865				2866 - 2870				2871 - 2875				2876 - 2880				2881 - 2885				2886 - 2890				2891 - 2895				2896 - 2900				2901 - 2905				2906 - 2910				2911 - 2915				2916 - 2920				2921 - 2925				2926 - 2930				2931 - 2935				2936 - 2940				2941 - 2945				2946 - 2950				2951 - 2955				2956 - 2960				2961 - 2965				2966 - 2970				2971 - 2975				2976 - 2980				2981 - 2985				2986 - 2990				2991 - 2995				2996 - 3000				3001 - 3005				3006 - 3010				3011 - 3015				3016 - 3020				3021 - 3025				3026 - 3030				3031 - 3035				3036 - 3040				3041 - 3045				3046 - 3050				3051 - 3055				3056 - 3060				3061 - 3065				3066 - 3070				3071 - 3075				3076 - 3080				3081 - 3085				3086 - 3090				3091 - 3095				3096 - 3100				3101 - 3105				3106 - 3110				3111 - 3115				3116 - 3120				3121 - 3125				3126 - 3130				3131 - 3135				3136 - 3140				3141 - 3145				3146 - 3150				3151 - 3155				3156 - 3160				3161 - 3165				3166 - 3170				3171 - 3175				3176 - 3180				3181 - 3185				3186 - 3190				3191 - 3195				3196 - 3200				3201 - 3205				3206 - 3210				3211 - 3215				3216 - 3220				3221 - 3225				3226 - 3230				3231 - 3235				3236 - 3240				3241 - 3245				3246 - 3250				3251 - 3255				3256 - 3260				3261 - 3265				3266 - 3270				3271 - 3275				3276 - 3280				3281 - 3285				3286 - 3290				3291 - 3295				3296 - 3300				3301 - 3305				3306 - 3310				3311 - 3315				3316 - 3320				3321 - 3325				3326 - 3330				3331 - 3335				3336 - 3340				3341 - 3345				3346 - 3350				3351 - 3355				3356 - 3360				3361 - 3365				3366 - 3370				3371 - 3375				3376 - 3380				3381 - 3385				3386 - 3390				3391 - 3395				3396 - 3400				3401 - 3405				3406 - 3410				3411 - 3415				3416 - 3420				3421 - 3425				3426 - 3430				3431 - 3435				3436 - 3440				3441 - 3445				3446 - 3450				3451 - 3455				3456 - 3460				3461 - 3465				3466 - 3470				3471 - 3475				3476 - 3480				3481 - 3485				3486 - 3490				3491 - 3495				3496 - 3500		

7-10am	438	11	52	16	38	20		1,265	280	107	29	39	16		107	29	39	16	39	16		16	16	107	29	39	16		16	16	575
10am-1pm	478	24	37	8	45	52		894	98	98	0	28	10		98	0	28	10	28	10		10	10	98	0	28	10		10	10	644
1-4pm	590	15	21	37	24	32		890	97	89	17	28	5		89	17	28	5	28	5		5	5	89	17	28	5		5	5	719
4-7pm	775	53	37	22	24	8		955	150	46	14	17	2		46	14	17	2	17	2		2	2	46	14	17	2		2	2	919
7am-7pm	2,281	103	147	83	131	112		4,004	625	340	60	112	33		340	60	112	33	112	33		33	33	340	60	112	33		33	33	2,857
6-10am	480	16	54	28	51	22		1,497	425	123	36	44	21		123	36	44	21	44	21		21	21	123	36	44	21		21	21	651
3-7pm	989	61	45	27	35	11		1,272	182	73	31	23	2		73	31	23	2	23	2		2	2	73	31	23	2		2	2	1,168
6am-7pm	2,323	108	149	95	144	114		4,236	770	356	67	117	38		356	67	117	38	117	38		38	38	356	67	117	38		38	38	2,933

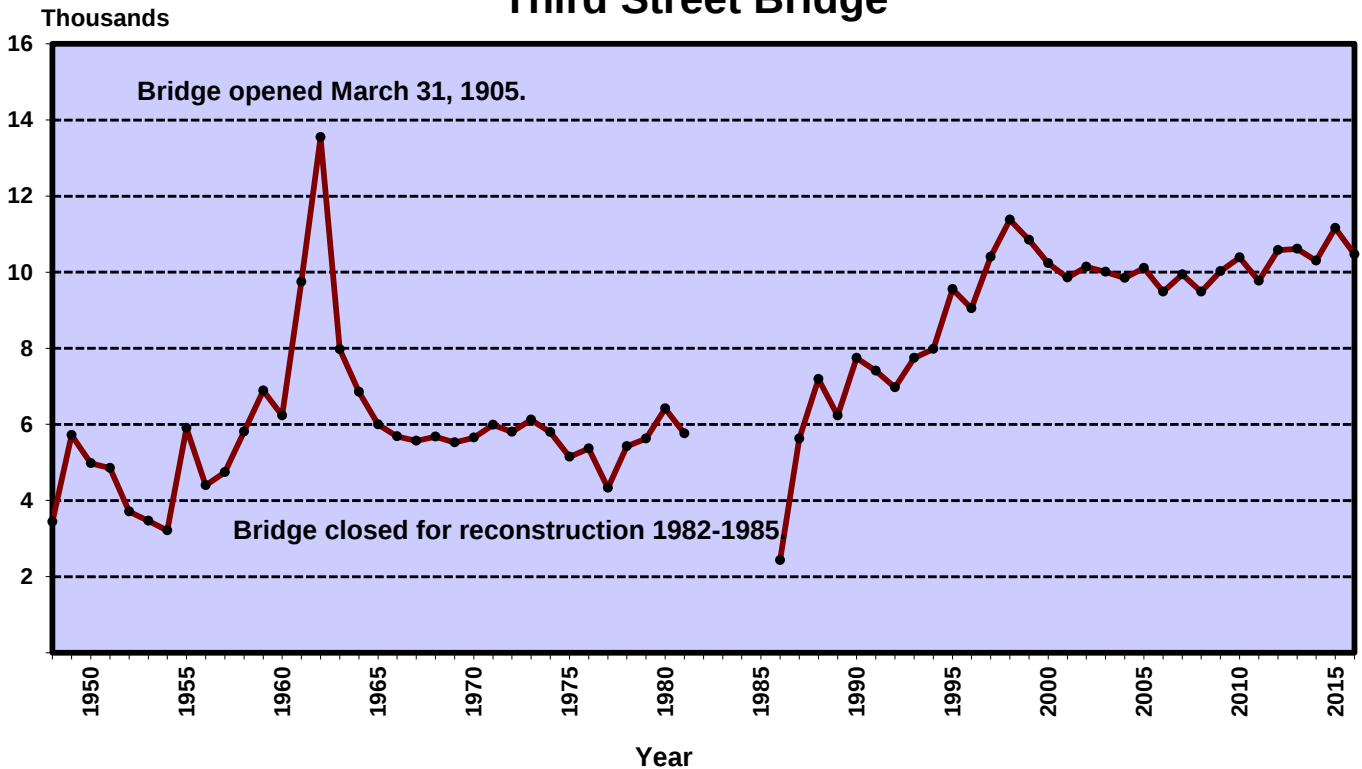
Based on October 2015 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Third Street Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Third Street Bridge



Hourly Vehicular Volumes

Union Street Bridge - 2016

Eastbound

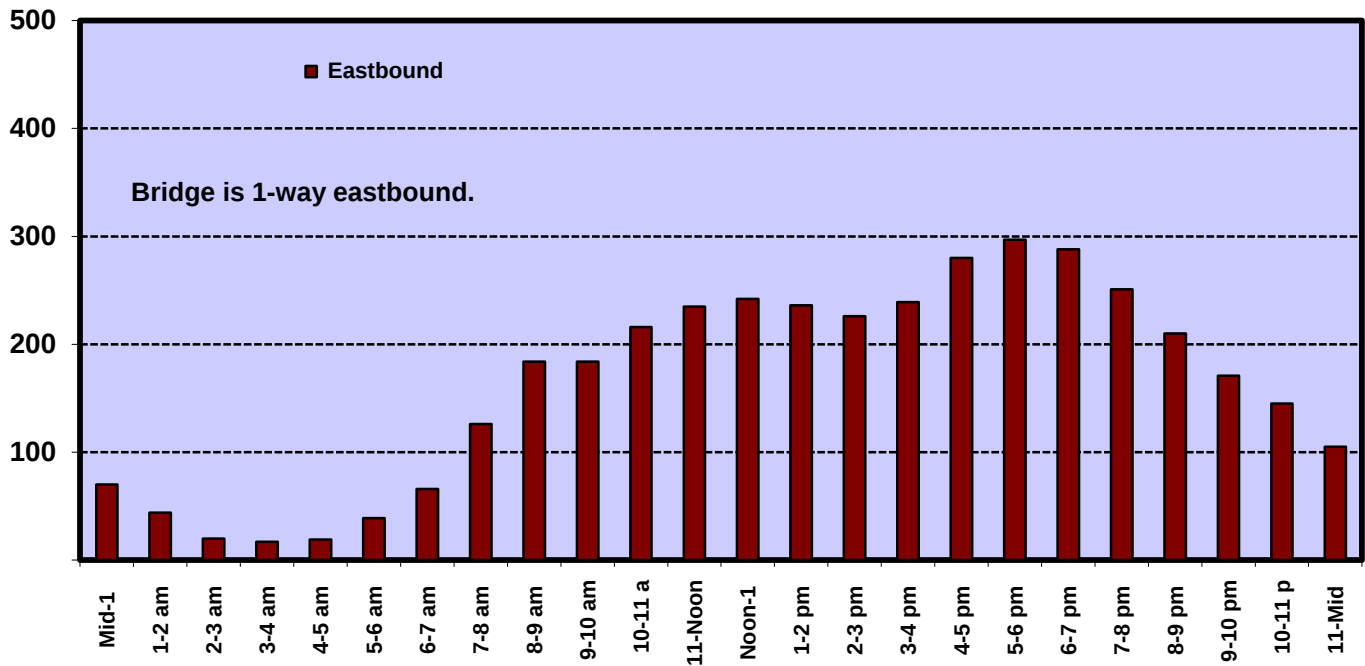
Westbound

FHWA Classes ▲	Eastbound							Westbound							Grand Totals
	Autos, Motorcycles SUVs, Family Vans	Taxis, Liveries, Limos	Panel Trucks, Pickups, Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles	Autos, Motorcycles SUVs, Family Vans	Taxis, Liveries, Limos	Panel Trucks, Pickups, Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles	
	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13		1, 2, 3	2	2 & 3	4	5 - 7	8 - 13		
Bridge is 1-way eastbound.															
Totals	2,557	740	362	61	187	3	3,910								3,910
7-10am	307	80	57	15	34	1	494								494
10am-1pm	416	126	100	9	42	0	693								693
1-4pm	441	110	87	16	46	1	701								701
4-7pm	623	150	59	8	25	0	865								865
7am-7pm	1,787	466	303	48	147	2	2,753								2,753
6-10am	350	86	59	24	40	1	560								560
3-7pm	784	183	86	16	35	0	1,104								1,104
6am-7pm	1,830	472	305	57	153	2	2,819								2,819

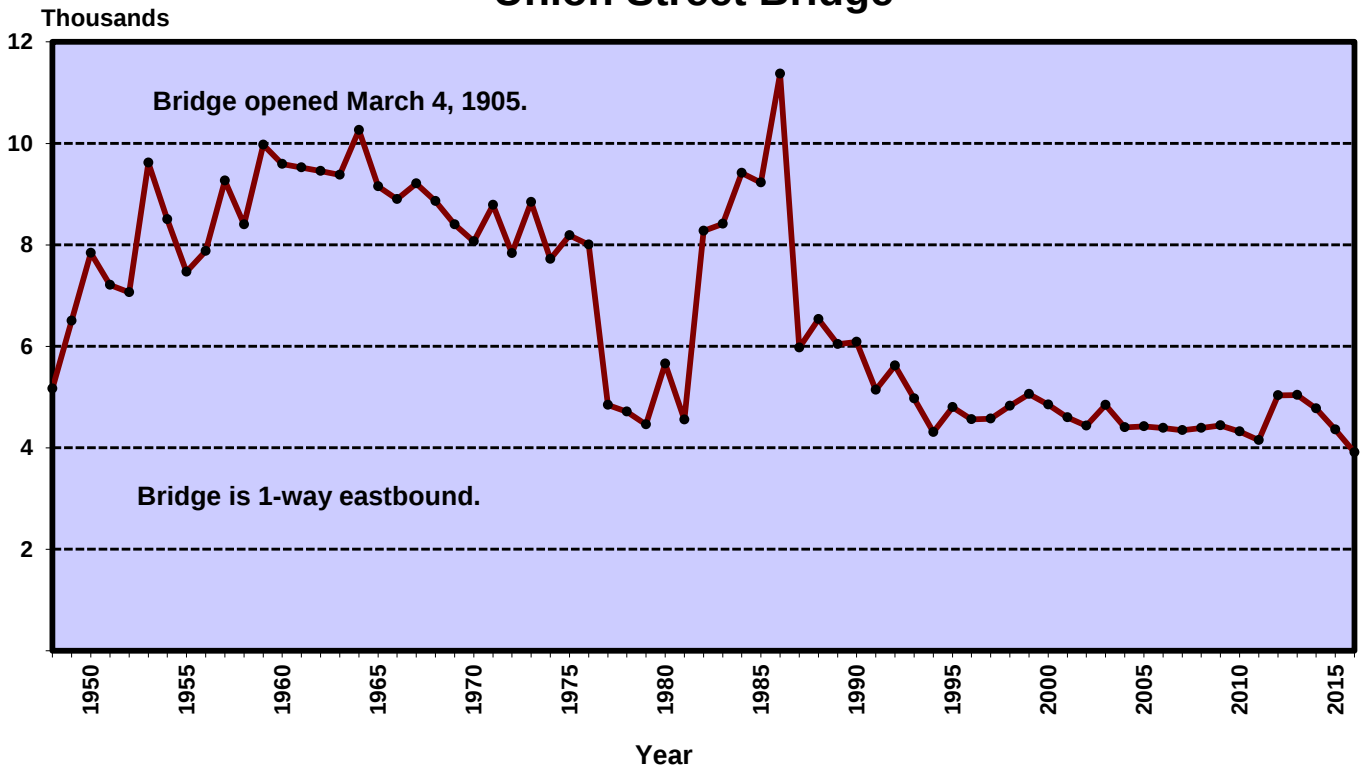
Based on October 2015 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Union Street Bridge ~ 2016



Average Daily Traffic Volumes Union Street Bridge



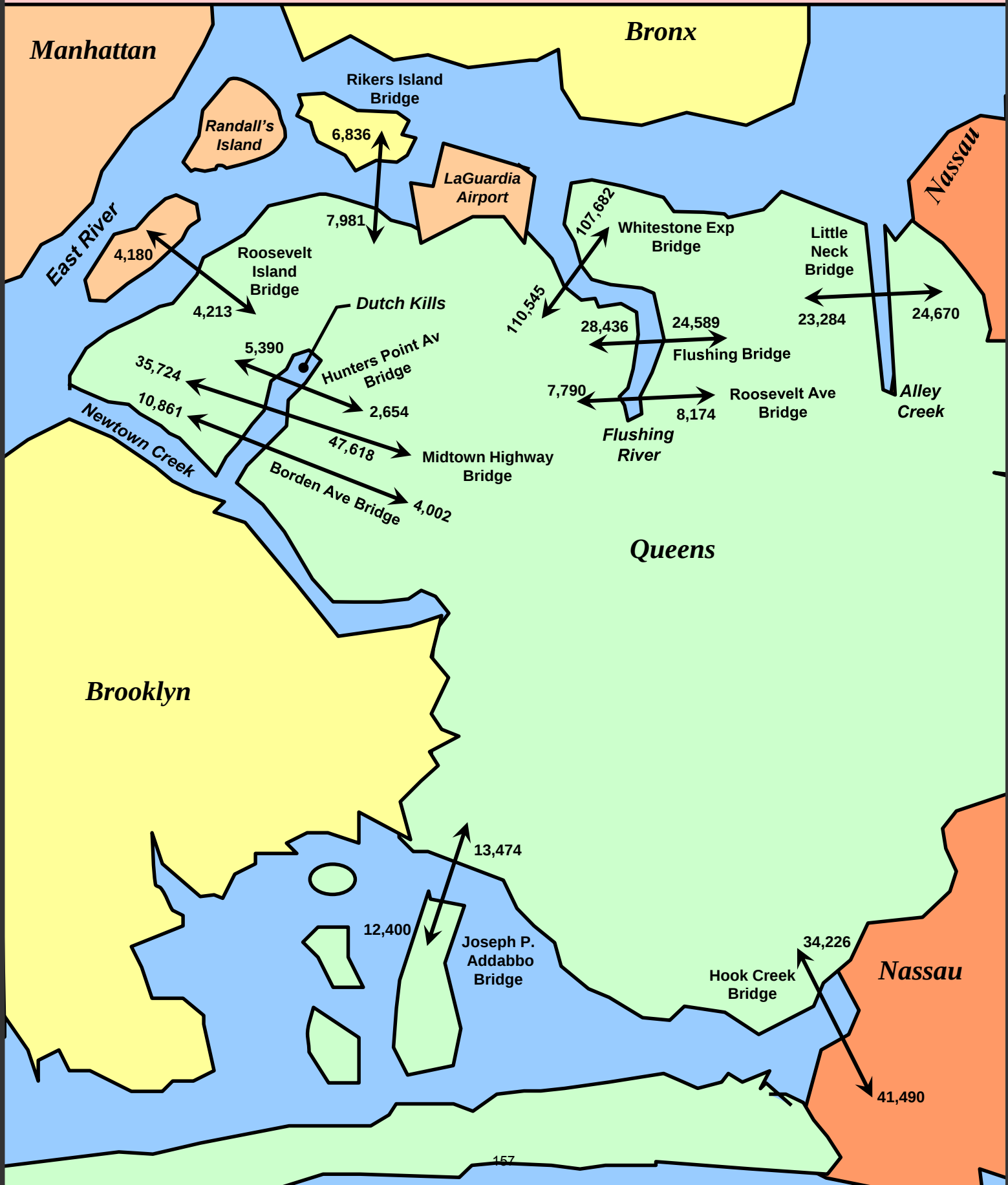
Queens Bridges



Joseph P. Addabbo Memorial Bridge

QUEENS BRIDGES

2016 Daily Volumes



**Queens Bridges ~ Average Daily Traffic Volumes
1948 - 2016**

Year	Borden Avenue Bridge	Flushing Bridge	Hook Creek Bridge	Hunters Point Bridge	Joseph P. Addabbo Bridge *	Little Neck Bridge
1948	4,846	26,276	9,620	5,500	8,521	22,255
1949	11,052	29,949	14,969	9,482	8,855	21,190
1950	6,222	30,836	18,240	6,751	7,361	19,549
1951	5,930	50,918	16,064	6,000	9,868	30,873
1952	6,155	40,589	16,856	5,688	8,952	31,544
1953	7,473	46,952	17,218	6,575	10,941	29,266
1954	5,997	39,837	23,389	7,611	10,661	35,614
1955	6,793	34,201	19,481	2,984	11,315	30,428
1956	7,612	47,985	20,796	6,267	10,216	43,761
1957	7,759	53,836	18,691	7,018	6,192	38,387
1958	7,833	43,075	28,031	5,735	12,763	30,029
1959	9,992	28,616	30,663	7,603	13,453	27,072
1960	9,739	37,833	33,549	7,753	14,923	23,718
1961	9,030	36,383	34,598	7,337	13,165	24,851
1962	8,860	35,370	36,590	7,150	15,900	26,670
1963	9,480	46,210	37,450	7,170	19,730	30,040
1964	16,530	40,220	38,620	5,110	18,020	27,980
1965	8,026	40,484	35,185	6,652	20,629	33,504
1966	9,461	42,613	38,742	6,882	18,890	33,383
1967	9,348	32,479	38,995	6,206	17,748	37,097
1968	8,761	38,664	44,000	6,601	18,258	36,281
1969	11,083	47,945	51,067	7,073	18,957	38,901
1970	10,318	47,311	44,588	6,544	20,937	42,606
1971	11,721	48,238	44,185	7,072	22,426	44,528
1972	11,201	50,499	45,365	6,825	20,342	38,604
1973	11,276	54,597	50,681	8,515	17,885	44,193
1974	12,272	48,909	53,120	5,899	19,541	39,506
1975	17,135	53,431	48,089	Closed	18,971	37,741
1976	17,883	47,569	55,722	Closed	15,231	39,382
1977	17,072	49,420	44,370	Closed	16,228	43,122
1978	16,769	48,491	47,286	Closed	18,456	42,052
1979	16,055	35,518	52,650	Closed	19,004	46,197
1980	15,068	48,856	45,169	Closed	19,156	38,735
1981	18,630	42,040	50,566	Closed	15,931	41,135
1982	21,793	54,661	52,193	Closed	15,931	41,470
1983	22,123	51,237	54,087	Closed	15,392	44,436
1984	18,724	54,323	50,681	4,044	16,323	47,623
1985	18,723	64,382	50,458	4,755	21,619	42,737
1986	14,714	64,371	56,735	5,870	18,480	44,125
1987	15,067	62,811	57,634	5,938	16,620	45,069
1988	14,907	62,956	61,083	6,549	17,032	43,826
1989	14,698	61,756	63,406	6,746	17,242	36,085
1990	18,430	61,248	57,660	10,849	18,115	28,746
1991	16,122	58,189	57,442	10,279	19,267	42,895
1992	13,146	61,306	64,502	10,997	19,666	48,388
1993	15,074	54,005	60,517	8,138	17,699	48,906
1994	14,412	58,837	64,545	6,804	16,516	48,314
1995	14,074	59,543	66,517	7,594	17,388	50,034
1996	16,661	61,211	66,151	7,781	17,519	49,640
1997	14,293	59,792	63,618	7,275	18,991	51,718
1998	15,182	60,864	66,123	7,024	19,114	52,876
1999	14,156	63,348	70,555	8,509	19,337	52,846
2000	15,063	66,243	74,130	8,475	20,673	49,504
2001	15,780	62,364	72,027	8,261	20,785	53,423
2002	15,788	64,301	69,963	7,822	22,779	58,529
2003	16,035	62,644	72,562	7,412	23,958	60,033
2004	15,765	61,685	73,932	6,885	21,855	54,165
2005	16,362	62,692	73,344	7,390	24,035	52,475
2006	16,157	61,143	73,767	7,262	23,254	48,345
2007	15,747	57,437	77,759	7,705	24,433	48,208
2008	15,002	56,179	75,460	7,165	22,346	45,405
2009	Closed	54,941	75,108	16,467	24,237	47,695
2010	Closed	54,690	74,064	15,792	23,882	49,731
2011	8,696	52,173	74,717	8,722	21,636	45,345
2012	13,396	54,518	76,023	8,116	23,612	47,735
2013	12,265	55,690	77,868	8,026	26,630	47,945
2014	13,274	52,437	73,993	7,960	24,854	47,825
2015	13,615	53,778	75,001	7,598	25,025	48,337
2016	14,863	53,025	75,716	8,044	25,874	47,954

* North Channel Bridge.

**Queens Bridges (cont'd) ~ Average Daily Traffic Volumes
1948 - 2016**

<i>Year</i>	<i>Midtown Highway Bridge</i>	<i>Rikers Island Bridge</i>	<i>Roosevelt Avenue Bridge</i>	<i>Roosevelt Island Bridge</i>	<i>Whitestone Expressway Bridge</i>	<i>Totals</i>
1948	28,754	Bridge opened	14,044	Bridge opened	27,290	147,106
1949	27,963		18,907		31,558	173,925
1950	32,429	11/22/1966	20,451	05/18/1955	38,771	180,610
1951	31,812		9,330		39,368	200,163
1952	35,088		23,596		44,219	212,687
1953	34,513		20,473		47,455	220,866
1954	30,495		18,007		50,089	221,700
1955	39,650		20,123	2,144	51,577	218,696
1956	49,944		17,987	2,689	57,982	265,239
1957	47,481		20,984	2,157	58,606	261,111
1958	45,593		19,653	3,137	60,687	256,536
1959	55,665		29,616	2,760	58,761	264,201
1960	62,051		18,153	3,014	48,615	259,348
1961	62,520		21,475	2,947	53,542	265,848
1962	57,600		24,440	3,220	41,340	257,140
1963	57,770		29,500	3,220	47,620	288,190
1964	60,610		18,110	3,440	83,450	312,090
1965	60,973		20,143	3,791	81,201	310,588
1966	68,752		18,728	4,133	71,795	313,379
1967	72,962	1,973	21,493	5,973	110,363	354,637
1968	69,058	2,809	21,352	4,987	136,741	387,512
1969	62,712	2,983	19,588	4,675	122,162	387,146
1970	84,844	3,543	21,656	6,201	111,833	400,381
1971	75,706	3,594	21,587	6,182	117,614	402,853
1972	65,481	3,680	20,754	7,007	118,050	387,808
1973	73,292	4,850	20,910	7,944	113,395	407,538
1974	68,127	4,794	19,545	8,656	123,204	403,573
1975	67,933	4,784	19,256	6,417	116,750	390,507
1976	64,438	4,891	17,351	7,031	118,164	387,662
1977	60,501	4,423	18,776	7,809	125,682	387,403
1978	85,223	4,728	19,058	6,851	121,123	410,037
1979	70,893	5,491	19,980	6,838	121,123	393,749
1980	74,334	6,066	19,090	7,501	110,606	384,581
1981	100,182	6,085	17,911	8,383	132,023	432,886
1982	100,182	6,946	16,944	8,064	120,944	439,128
1983	88,132	7,807	15,051	8,940	139,721	446,926
1984	89,000	9,487	20,292	8,787	129,834	449,118
1985	73,315	6,019	25,548	8,190	134,650	450,396
1986	71,938	8,056	23,219	9,199	139,464	456,171
1987	70,079	12,386	19,567	8,754	153,040	466,965
1988	71,761	12,070	22,567	10,207	150,777	473,735
1989	65,160	11,493	24,440	9,501	151,292	461,819
1990	66,269	11,195	23,285	9,275	145,247	450,319
1991	74,328	12,491	23,466	10,236	141,824	466,539
1992	72,144	15,579	23,687	9,751	145,669	484,835
1993	64,368	14,206	28,012	9,830	146,440	467,195
1994	66,633	12,494	24,631	9,638	155,969	478,793
1995	67,810	12,213	22,758	9,382	147,029	474,342
1996	69,394	11,906	22,543	9,489	163,578	495,873
1997	69,273	12,461	24,566	9,302	172,034	503,323
1998	70,486	15,672	22,994	10,048	182,516	522,899
1999	72,749	14,240	23,784	9,491	192,099	541,114
2000	79,662	13,150	22,749	9,198	192,482	551,329
2001	82,431	14,503	22,856	9,655	189,031	551,116
2002	81,392	13,447	22,235	9,444	188,758	554,458
2003	84,243	16,966	20,281	9,203	188,770	562,107
2004	82,732	14,979	19,652	9,100	188,869	549,619
2005	89,559	13,811	19,360	9,929	191,563	560,520
2006	83,379	13,146	19,420	9,685	197,084	552,642
2007	85,997	13,496	18,975	9,895	202,410	562,062
2008	84,769	15,621	18,859	10,161	193,122	544,089
2009	84,048	15,436	17,168	9,454	198,124	542,678
2010	87,692	13,186	17,268	9,800	192,092	538,197
2011	84,148	12,580	16,084	9,103	199,803	533,007
2012	88,184	12,265	17,439	9,516	204,909	555,713
2013	87,827	14,065	17,994	9,550	205,790	563,650
2014	87,878	13,578	16,352	8,212	204,401	550,764
2015	84,989	13,780	17,834	8,583	208,962	557,502
2016	83,342	14,817	15,964	8,393	218,227	566,219

Borden Avenue Bridge - 2016

Eastbound

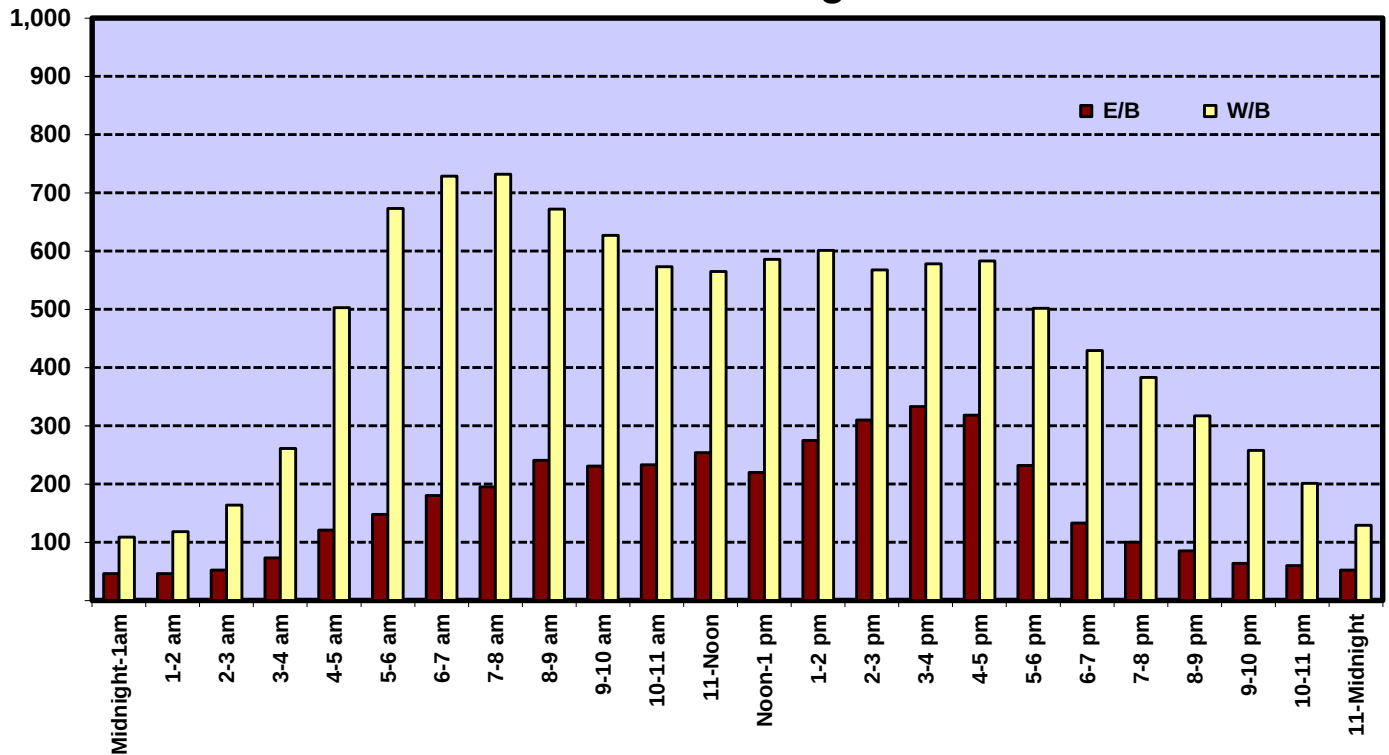
Westbound

	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	2-Way Totals
12-1am	---	---	---	---	---	46	---	---	---	---	---	109	155
1-2am	---	---	---	---	---	46	---	---	---	---	---	118	164
2-3am	---	---	---	---	---	52	---	---	---	---	---	164	216
3-4am	---	---	---	---	---	73	---	---	---	---	---	261	334
4-5am	---	---	---	---	---	121	---	---	---	---	---	503	624
5-6am	---	---	---	---	---	148	---	---	---	---	---	673	821
6-7am	---	---	---	---	---	180	---	---	---	---	---	729	909
7-8am	107	8	4	50	26	195	559	11	21	70	71	732	927
8-9am	117	7	6	75	36	241	578	6	8	56	24	672	913
9-10am	108	7	3	72	41	231	486	4	9	78	50	627	858
10-11am	159	4	8	43	19	233	502	9	4	44	14	573	806
11-12am	119	4	3	89	39	254	392	7	8	115	43	565	819
12-1pm	168	4	3	30	15	220	497	6	5	60	18	586	806
1-2pm	208	2	3	42	20	275	483	6	5	66	41	601	876
2-3pm	157	2	21	89	41	310	404	11	9	107	37	568	878
3-4pm	281	3	9	29	11	333	479	37	4	39	19	578	911
4-5pm	242	6	16	31	23	318	436	39	11	76	21	583	901
5-6pm	186	2	6	26	12	232	430	19	7	25	21	502	734
6-7pm	97	0	6	18	12	133	359	14	10	29	17	429	562
7-8pm	---	---	---	---	---	100	---	---	---	---	---	383	483
8-9pm	---	---	---	---	---	85	---	---	---	---	---	317	402
9-10pm	---	---	---	---	---	64	---	---	---	---	---	258	322
10-11pm	---	---	---	---	---	60	---	---	---	---	---	201	261
11-12pm	---	---	---	---	---	52	---	---	---	---	---	129	181
Totals	---	---	---	---	---	4,002	---	---	---	---	---	10,861	14,863
7-10am	332	22	13	197	103	667	1,623	21	38	204	145	2,031	2,698
10am-1pm	446	12	14	162	73	707	1,391	22	17	219	75	1,724	2,431
1-4pm	646	7	33	160	72	918	1,366	54	18	212	97	1,747	2,665
4-7pm	525	8	28	75	47	683	1,225	72	28	130	59	1,514	2,197
7am-7pm	1,949	49	88	594	295	2,975	5,605	169	101	765	376	7,016	9,991
6-10am	---	---	---	---	---	847	---	---	---	---	---	2,760	3,607
3-7pm	806	11	37	104	58	1,016	1,704	109	32	169	78	2,092	3,108
6am-7pm	---	---	---	---	---	3,155	---	---	---	---	---	7,745	10,900

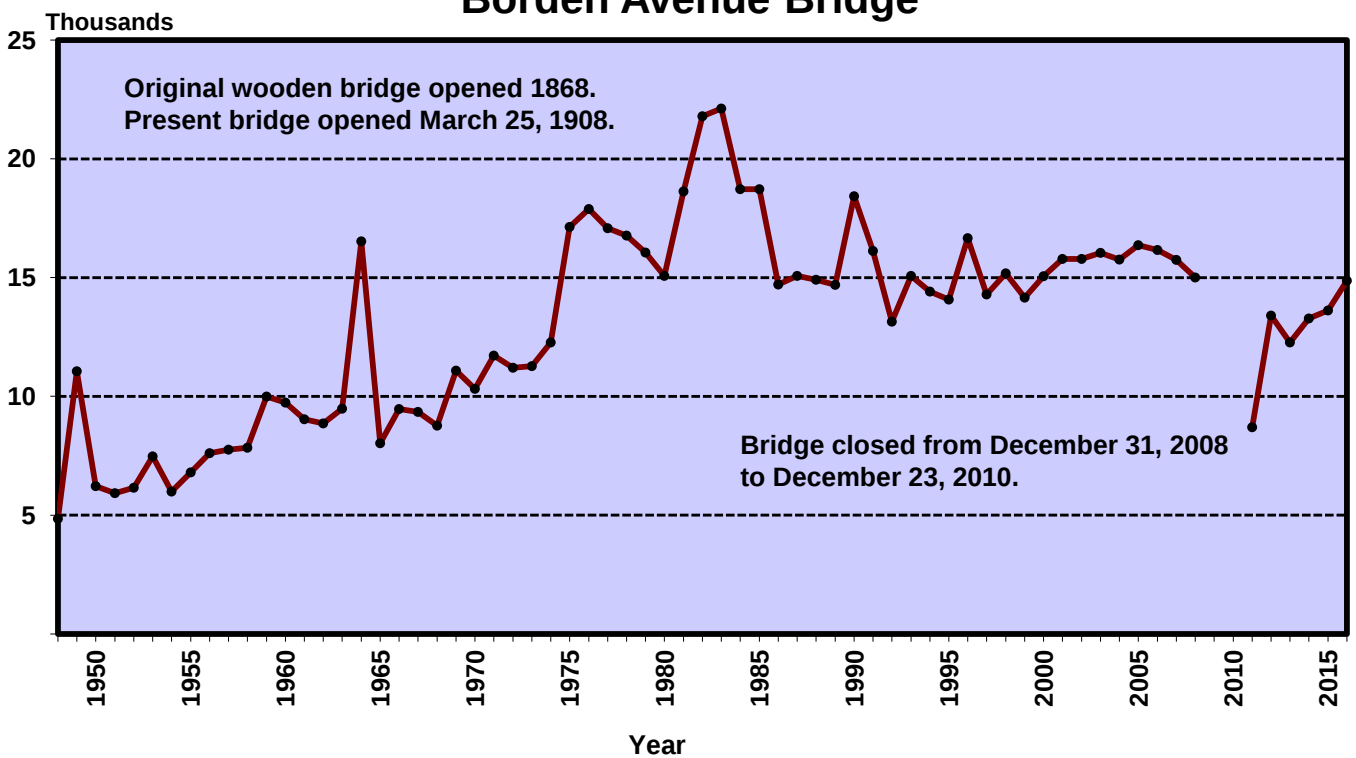
Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Borden Avenue Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Borden Avenue Bridge



Hourly Vehicular Volumes

Flushing Bridge - 2016

Eastbound

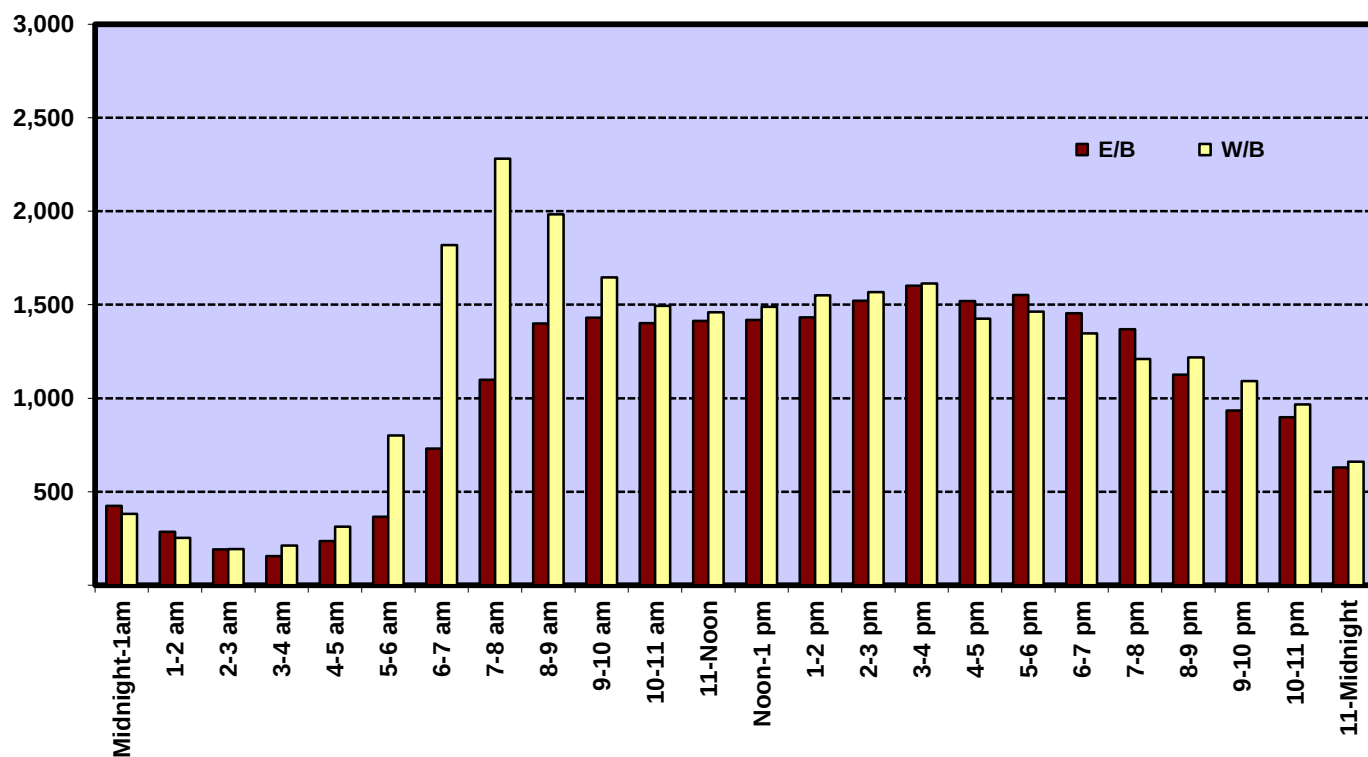
Westbound

FHWA Classes ▲	Eastbound							Westbound							2-way Grand Totals
	Autos, Motorcycles SUVs, Family Vans	Taxis, Liveryes, Limos	Commercial Vans, Panel Trucks, Pickups, Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles	Autos, Motorcycles SUVs, Family Vans	Taxis, Liveryes, Limos	Commercial Vans, Panel Trucks, Pickups, Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles	
	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13		1, 2, 3	2	2 & 3	4	5 - 7	8 - 13		
12-1am	368	33	11	3	9	0	424	339	21	12	5	2	2	381	805
1-2am	231	31	8	5	10	0	285	230	6	5	6	6	1	254	539
2-3am	141	30	10	3	4	4	192	157	22	6	4	4	1	194	386
3-4am	109	21	9	4	9	3	155	162	18	7	10	8	7	212	367
4-5am	180	30	8	12	2	5	237	255	35	11	6	1	6	314	551
5-6am	284	23	19	12	23	5	366	658	68	30	21	4	19	800	1,166
6-7am	632	23	13	32	23	8	731	1,444	114	86	102	33	40	1,819	2,550
7-8am	954	26	24	38	43	13	1,098	1,860	90	98	74	122	36	2,280	3,378
8-9am	1,162	66	60	40	46	25	1,399	1,611	69	113	38	129	23	1,983	3,382
9-10am	1,145	77	83	31	67	28	1,431	1,252	104	83	30	148	29	1,646	3,077
10-11am	1,095	84	91	39	71	22	1,402	1,135	66	119	33	122	18	1,493	2,895
11-12am	1,104	63	53	30	136	28	1,414	1,081	72	173	24	92	18	1,460	2,874
12-1pm	1,130	76	58	25	105	25	1,419	1,127	96	140	21	83	21	1,488	2,907
1-2pm	1,108	81	43	25	148	27	1,432	1,201	78	116	21	118	16	1,550	2,982
2-3pm	1,200	77	45	67	124	8	1,521	1,283	74	116	23	69	2	1,567	3,088
3-4pm	1,277	123	71	56	68	7	1,602	1,280	79	119	56	70	10	1,614	3,216
4-5pm	1,255	71	73	35	79	6	1,519	1,123	108	101	33	54	6	1,425	2,944
5-6pm	1,336	63	71	24	51	6	1,551	1,260	79	70	11	43	0	1,463	3,014
6-7pm	1,273	43	54	30	51	3	1,454	1,196	26	56	22	47	0	1,347	2,801
7-8pm	1,233	18	65	32	20	1	1,369	1,098	19	37	25	30	0	1,209	2,578
8-9pm	1,026	27	47	10	14	1	1,125	1,129	34	19	23	12	1	1,218	2,343
9-10pm	868	17	16	10	22	1	934	1,035	26	11	13	6	0	1,091	2,025
10-11pm	808	23	32	9	24	3	899	906	30	8	16	7	0	967	1,866
11-12pm	574	30	15	5	6	0	630	597	34	12	9	8	1	661	1,291
Totals	20,493	1,156	979	577	1,155	229	24,589	23,419	1,368	1,548	626	1,218	257	28,436	53,025
7-10am	3,261	169	167	109	156	66	3,928	4,723	263	294	142	399	88	5,909	9,837
10am-1pm	3,329	223	202	94	312	75	4,235	3,343	234	432	78	297	57	4,441	8,676
1-4pm	3,585	281	159	148	340	42	4,555	3,764	231	351	100	257	28	4,731	9,286
4-7pm	3,864	177	198	89	181	15	4,524	3,579	213	227	66	144	6	4,235	8,759
7am-7pm	14,039	850	726	440	989	198	17,242	15,409	941	1,304	386	1,097	179	19,316	36,558
6-10am	3,893	192	180	141	179	74	4,659	6,167	377	380	244	432	128	7,728	12,387
3-7pm	5,141	300	269	145	249	22	6,126	4,859	292	346	122	214	16	5,849	11,975
6am-7pm	14,671	873	739	472	1,012	206	17,973	16,853	1,055	1,390	488	1,130	219	21,135	39,108

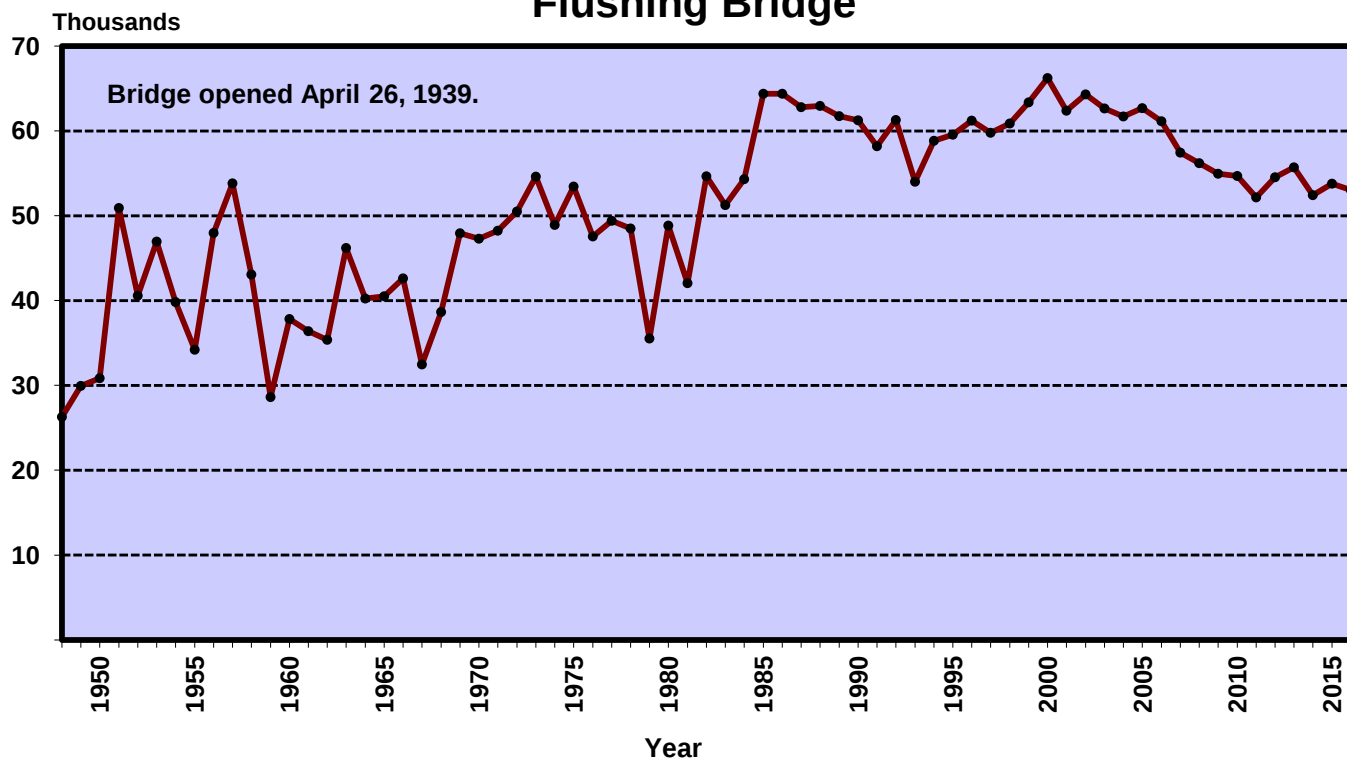
Based on November 2014 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Flushing Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Flushing Bridge



Hourly Vehicular Volumes

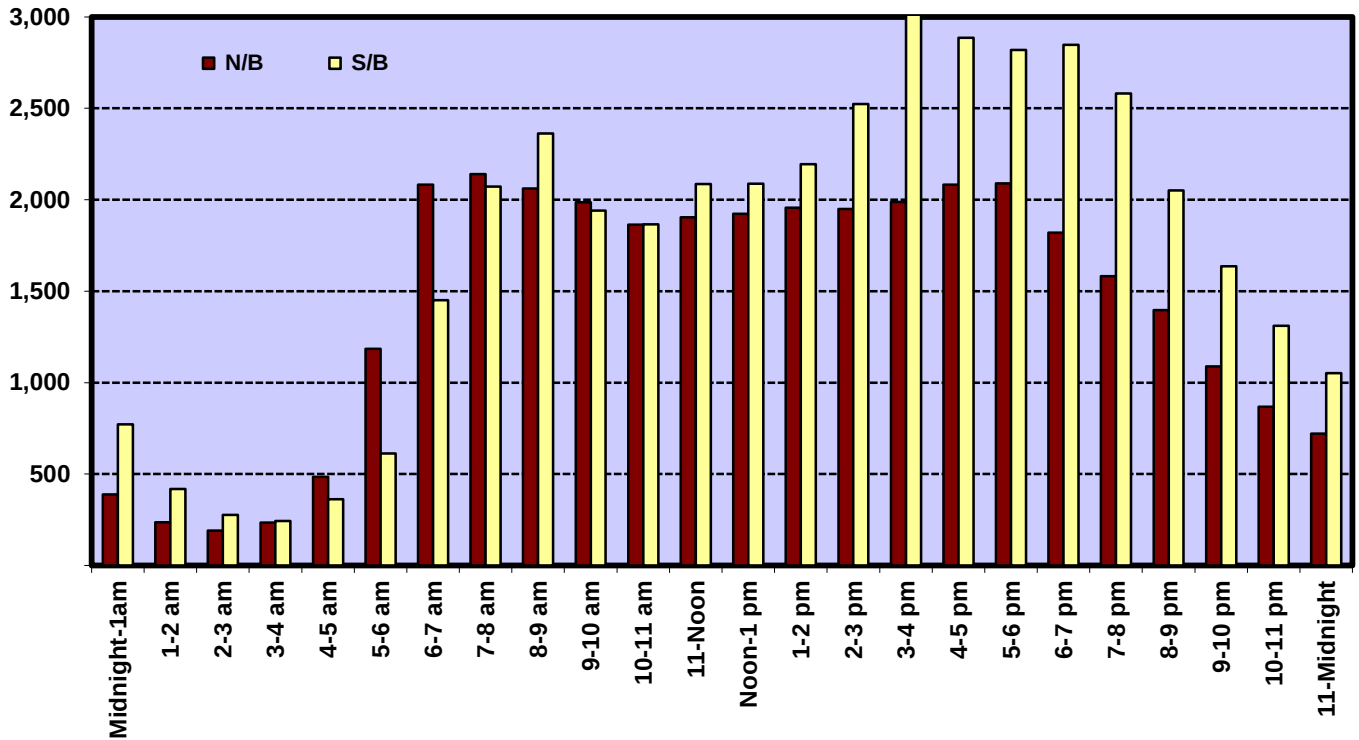
Hook Creek Bridge - 2016

	Northbound					Totals	Southbound					Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans		Autos	Buses	Commuter Vans	Trucks	Commercial Vans		
12-1am	---	---	---	---	---	388	---	---	---	---	---	771	
1-2am	---	---	---	---	---	237	---	---	---	---	---	419	
2-3am	---	---	---	---	---	191	---	---	---	---	---	277	
3-4am	---	---	---	---	---	235	---	---	---	---	---	243	
4-5am	---	---	---	---	---	485	---	---	---	---	---	362	
5-6am	---	---	---	---	---	1,185	---	---	---	---	---	613	
6-7am	---	---	---	---	---	2,082	---	---	---	---	---	1,451	
7-8am	1,982	14	48	61	35	2,140	**	1,648	15	150	150	109	2,072
8-9am	1,827	14	67	98	56	2,062		1,938	10	147	170	97	2,362
9-10am	1,725	6	60	132	64	1,987		1,638	7	81	130	84	1,940
10-11am	1,756	2	13	50	42	1,863		1,742	2	12	60	50	1,866
11-12am	1,589	9	43	180	83	1,904		1,853	3	15	119	96	2,086
12-1pm	1,813	9	25	57	20	1,924		2,001	0	13	46	28	2,088
1-2pm	1,785	13	40	69	50	1,957		1,934	6	68	132	55	2,195
2-3pm	1,746	15	43	77	69	1,950		2,285	4	37	107	90	2,523
3-4pm	1,909	31	10	24	14	1,988		2,912	4	24	46	54	3,040
4-5pm	1,974	10	24	42	32	2,082		2,701	3	46	63	73	2,886
5-6pm	1,928	11	36	37	78	2,090		2,626	7	63	43	80	2,819
6-7pm	1,730	11	39	22	18	1,820		2,719	4	55	40	29	2,847
7-8pm	---	---	---	---	---	1,582		---	---	---	---	---	2,581
8-9pm	---	---	---	---	---	1,396		---	---	---	---	---	2,051
9-10pm	---	---	---	---	---	1,089		---	---	---	---	---	1,637
10-11pm	---	---	---	---	---	868		---	---	---	---	---	1,310
11-12pm	---	---	---	---	---	721		---	---	---	---	---	1,051
Totals	---	---	---	---	---	34,226		---	---	---	---	---	41,490
7-10am	5,534	34	175	291	155	6,189		5,224	32	378	450	290	6,374
10am-1pm	5,158	20	81	287	145	5,691		5,596	5	40	225	174	6,040
1-4pm	5,440	59	93	170	133	5,895		7,131	14	129	285	199	7,758
4-7pm	5,632	32	99	101	128	5,992		8,046	14	164	146	182	8,552
7am-7pm	21,764	145	448	849	561	23,767		25,997	65	711	1,106	845	28,724
6-10am						8,271							7,825
3-7pm	7,541	63	109	125	142	7,980		10,958	18	188	192	236	11,592
6am-7pm						25,849							30,175

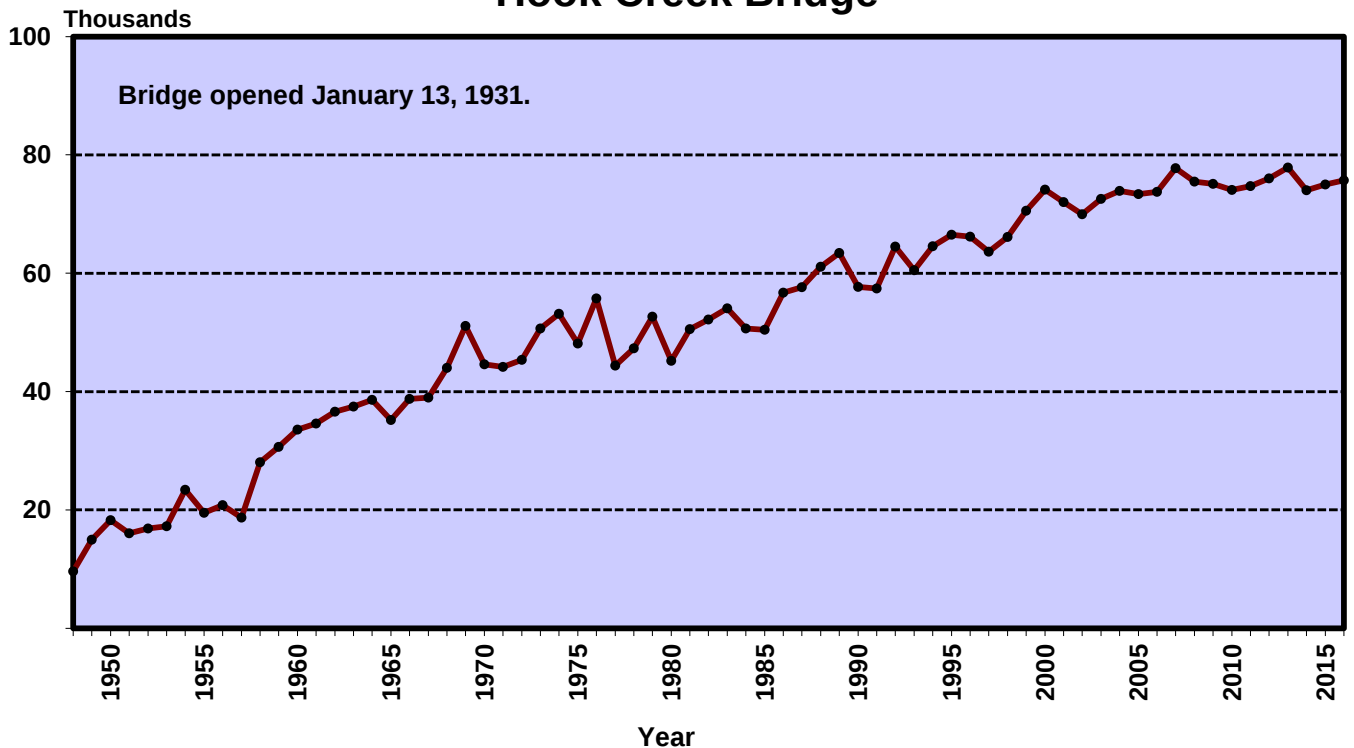
Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Hook Creek Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Hook Creek Bridge



Hourly Vehicular Volumes

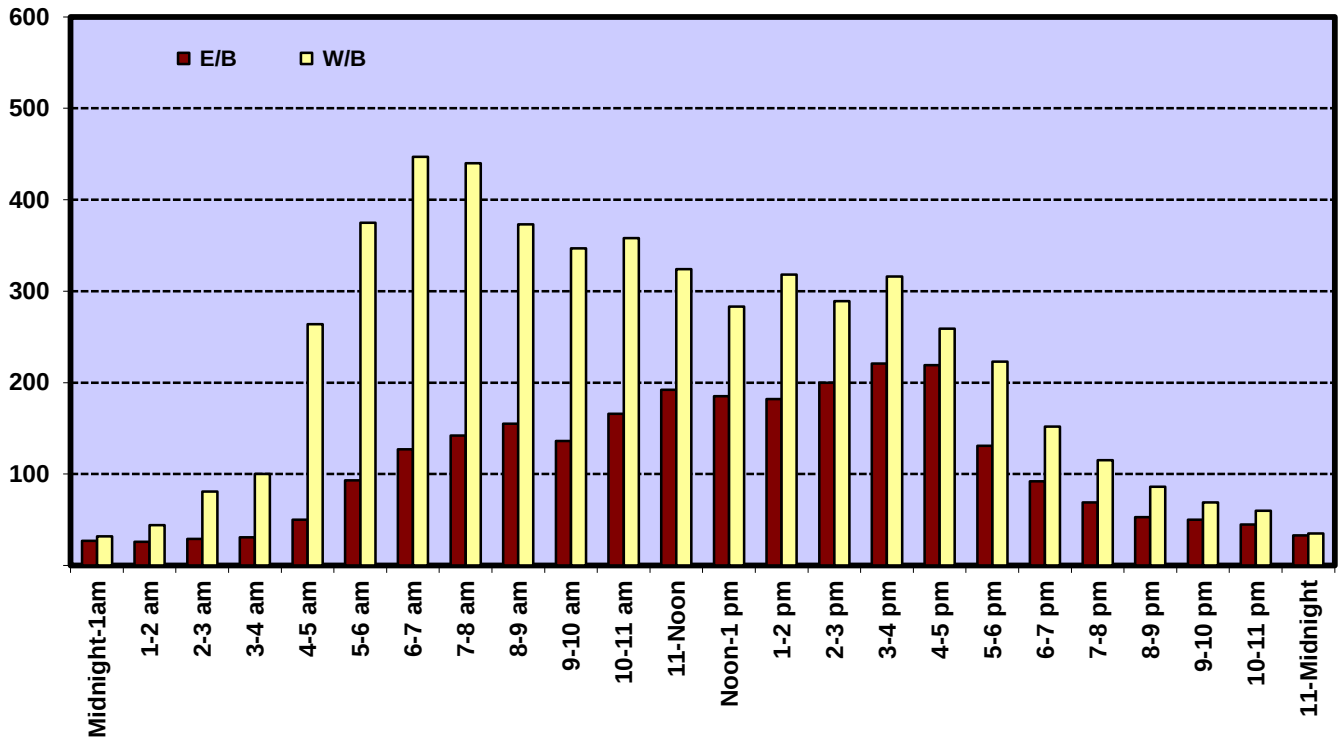
Hunters Point Bridge - 2016

	Eastbound					Totals	Westbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans		Autos	Buses	Commuter Vans	Trucks	Commercial Vans		Totals
12-1am	---	---	---	---	---	27	---	---	---	---	---	32	59
1-2am	---	---	---	---	---	26	---	---	---	---	---	44	70
2-3am	---	---	---	---	---	29	---	---	---	---	---	81	110
3-4am	---	---	---	---	---	31	---	---	---	---	---	100	131
4-5am	---	---	---	---	---	50	---	---	---	---	---	264	314
5-6am	---	---	---	---	---	93	---	---	---	---	---	375	468
6-7am	---	---	---	---	---	127	---	---	---	---	**	447	574
7-8am	101	0	14	15	12	142	328	1	18	29	64	440	582
8-9am	87	0	5	23	40	155	314	0	6	26	27	373	528
9-10am	84	0	2	23	27	136	247	0	3	46	51	347	483
10-11am	137	0	4	19	6	166	302	0	2	33	21	358	524
11-12am	122	1	9	34	26	192	232	0	2	56	34	324	516
12-1pm	136	0	7	21	21	185	225	0	2	34	22	283	468
1-2pm	132	0	10	19	21	182	253	4	4	28	29	318	500
2-3pm	119	0	17	32	32	200	207	10	2	36	34	289	489
3-4pm	186	0	8	20	7	221	297	4	1	10	4	316	537
4-5pm	159	0	12	17	31	219	181	39	2	9	28	259	478
5-6pm	112	0	6	1	12	131	183	10	1	14	15	223	354
6-7pm	77	1	1	4	9	92	129	3	2	5	13	152	244
7-8pm	---	---	---	---	---	69	---	---	---	---	---	115	184
8-9pm	---	---	---	---	---	53	---	---	---	---	---	86	139
9-10pm	---	---	---	---	---	50	---	---	---	---	---	69	119
10-11pm	---	---	---	---	---	45	---	---	---	---	---	60	105
11-12pm	---	---	---	---	---	33	---	---	---	---	---	35	68
Totals	---	---	---	---	---	2,654	---	---	---	---	---	5,390	8,044
7-10am	272	0	21	61	79	433	889	1	27	101	142	1,160	1,593
10am-1pm	395	1	20	74	53	543	759	0	6	123	77	965	1,508
1-4pm	437	0	35	71	60	603	757	18	7	74	67	923	1,526
4-7pm	348	1	19	22	52	442	493	52	5	28	56	634	1,076
7am-7pm	1,452	2	95	228	244	2,021	2,898	71	45	326	342	3,682	5,703
6-10am						560						1,607	2,167
3-7pm	534	1	27	42	59	663	790	56	6	38	60	950	1,613
6am-7pm						2,148						4,129	6,277

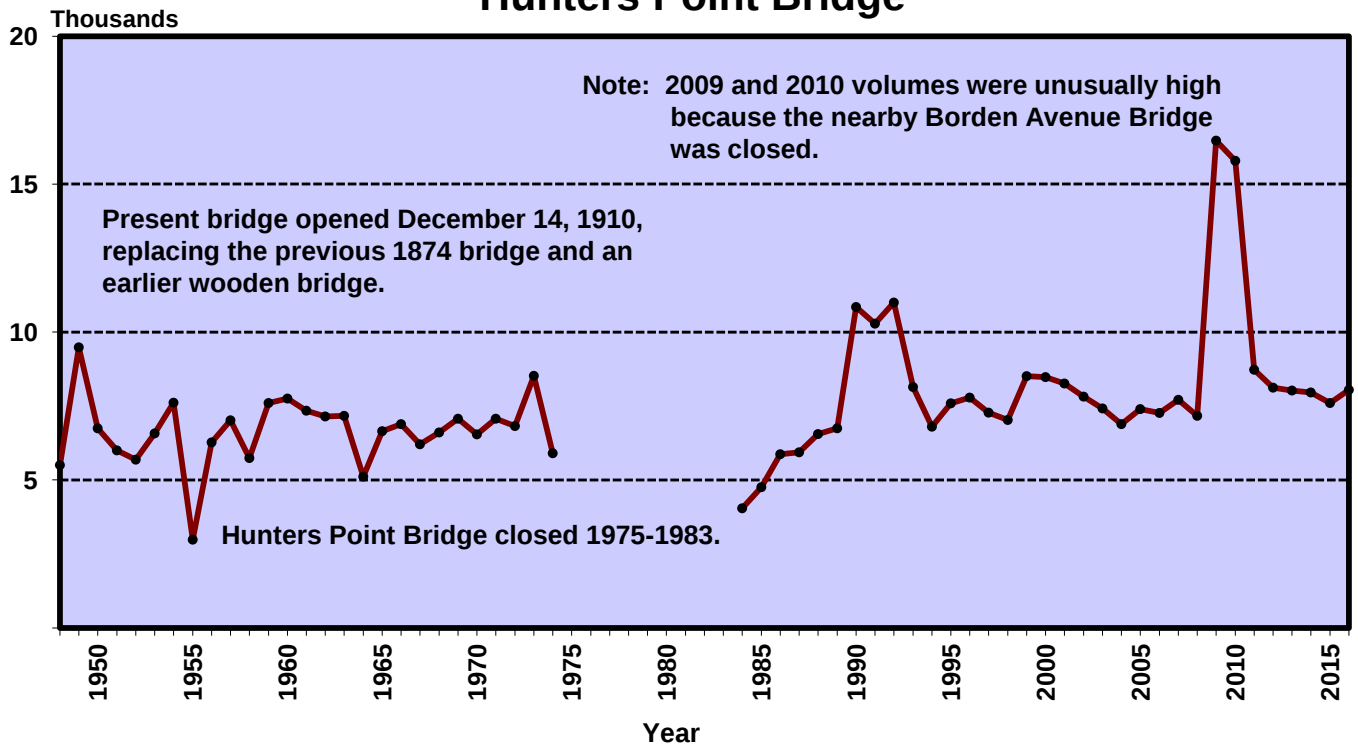
Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Hunters Point Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Hunters Point Bridge



Hourly Vehicular Volumes

Joseph P. Addabbo Memorial Bridge - 2016

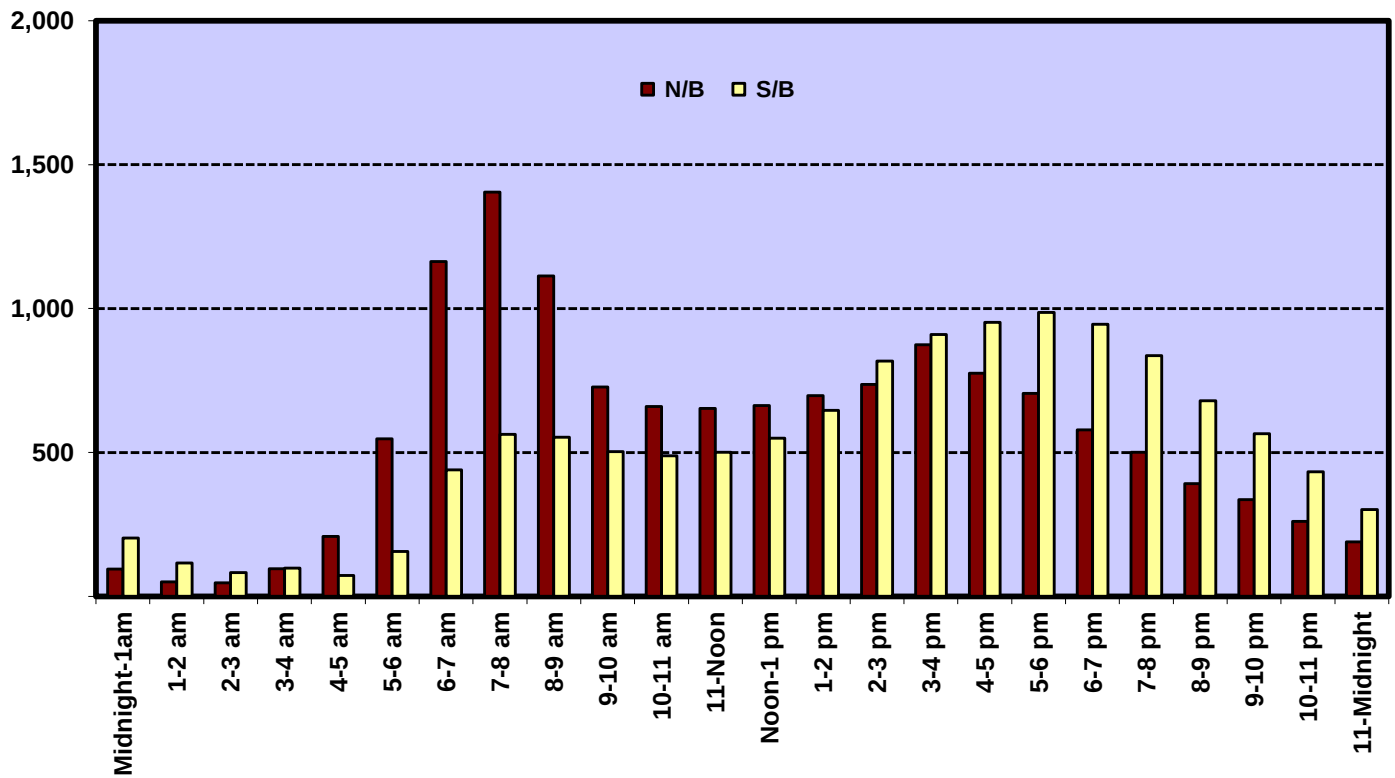
(North Channel Bridge)

	Northbound					Totals	Southbound					2-Way Totals
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans		Autos	Buses	Commuter Vans	Trucks	Commercial Vans	
12-1am	---	---	---	---	---	95	---	---	---	---	---	203
1-2am	---	---	---	---	---	50	---	---	---	---	---	116
2-3am	---	---	---	---	---	47	---	---	---	---	---	83
3-4am	---	---	---	---	---	96	---	---	---	---	---	98
4-5am	---	---	---	---	---	208	---	---	---	---	---	73
5-6am	---	---	---	---	---	547	---	---	---	---	---	156
6-7am	---	---	---	---	---	1,163	---	---	---	---	---	440
7-8am	1,283	36	22	25	39	1,405	411	28	7	44	73	563
8-9am	940	32	22	45	74	1,113	409	29	1	45	69	553
9-10am	603	9	8	68	40	728	346	20	4	62	71	503
10-11am	600	12	8	30	10	660	422	13	0	20	33	488
11-12am	520	9	9	63	52	653	365	9	0	53	74	501
12-1pm	574	18	0	37	34	663	492	12	0	18	28	550
1-2pm	647	5	5	22	19	698	591	7	0	16	32	646
2-3pm	606	22	11	53	44	736	654	33	5	33	93	818
3-4pm	785	27	13	24	25	874	795	26	0	26	63	910
4-5pm	644	35	14	47	35	775	808	10	3	33	98	952
5-6pm	619	10	18	31	27	705	898	7	0	20	61	986
6-7pm	486	9	20	25	39	579	851	7	4	11	72	945
7-8pm	---	---	---	---	---	501	---	---	---	---	---	836
8-9pm	---	---	---	---	---	392	---	---	---	---	---	680
9-10pm	---	---	---	---	---	336	---	---	---	---	---	565
10-11pm	---	---	---	---	---	261	---	---	---	---	---	433
11-12pm	---	---	---	---	---	189	---	---	---	---	---	302
Totals	---	---	---	---	---	13,474	---	---	---	---	---	12,400
7-10am	2,826	77	52	138	153	3,246	1,166	77	12	151	213	1,619
10am-1pm	1,694	39	17	130	96	1,976	1,279	34	0	91	135	1,539
1-4pm	2,038	54	29	99	88	2,308	2,040	66	5	75	188	2,374
4-7pm	1,749	54	52	103	101	2,059	2,557	24	7	64	231	2,883
7am-7pm	8,307	224	150	470	438	9,589	7,042	201	24	381	767	8,415
6-10am						4,409						2,059
3-7pm	2,534	81	65	127	126	2,933	3,352	50	7	90	294	3,793
6am-7pm						10,752						8,855

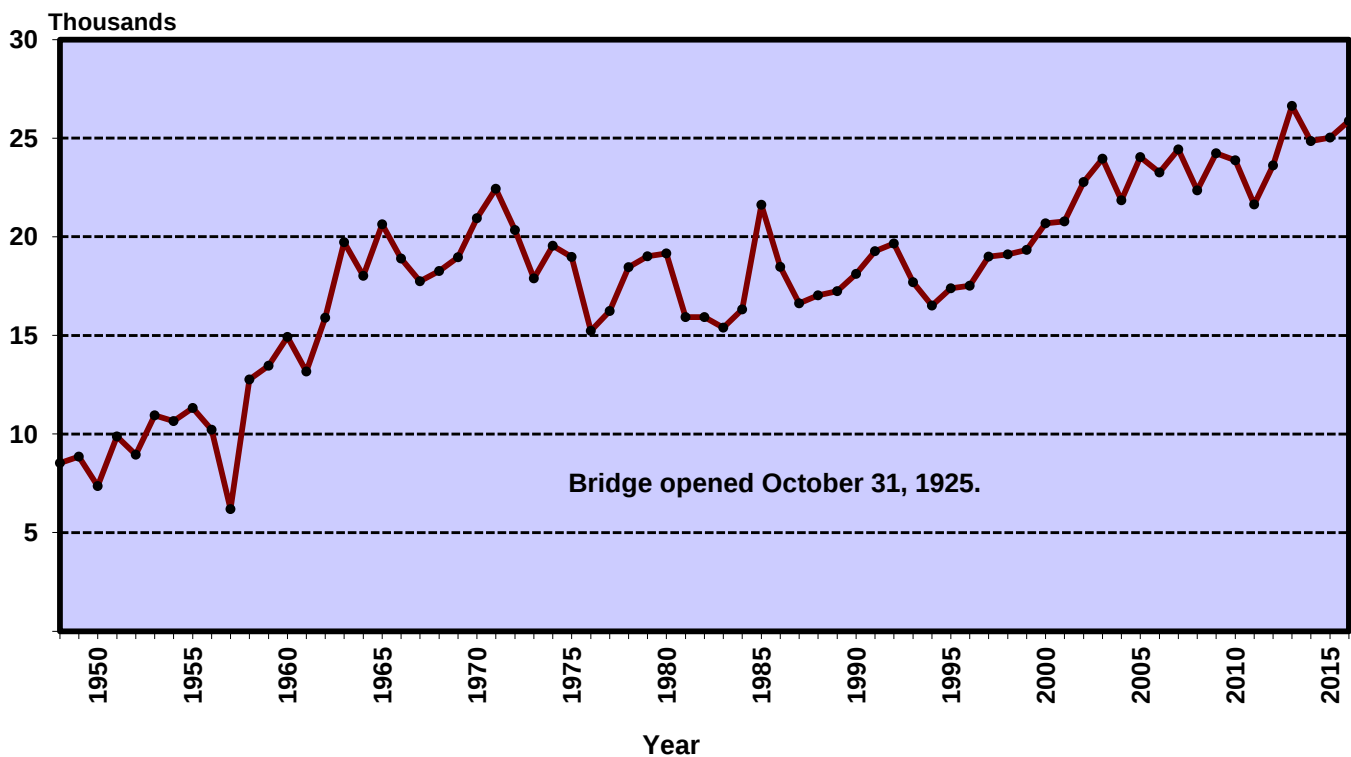
Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Joseph P. Addabbo Memorial Bridge ~ 2016



Average Daily Traffic Volumes Joseph P. Addabbo Memorial Bridge ~ Total of Both Directions



Hourly Vehicular Volumes

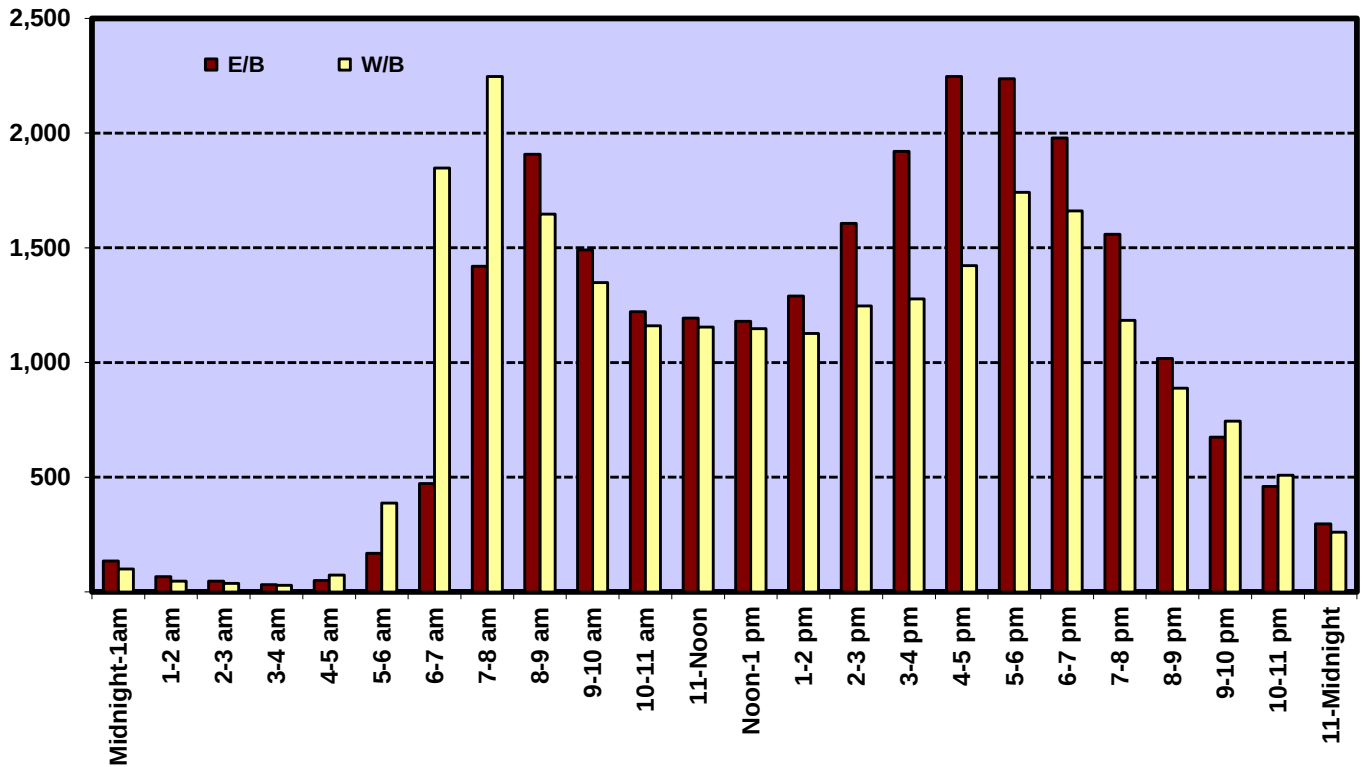
Little Neck Bridge - 2016

	Eastbound					Totals	Westbound					2-Way Totals
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans		Autos	Buses	Commuter Vans	Trucks	Commercial Vans	
12-1am	---	---	---	---	---	135	---	---	---	---	---	100
1-2am	---	---	---	---	---	67	---	---	---	---	---	47
2-3am	---	---	---	---	---	47	---	---	---	---	---	37
3-4am	---	---	---	---	---	32	---	---	---	---	---	29
4-5am	---	---	---	---	---	50	---	---	---	---	---	73
5-6am	---	---	---	---	---	169	---	---	---	---	---	388
6-7am	---	---	---	---	---	473	---	---	---	---	---	1,848
7-8am	1,155	37	65	100	62	1,419	2,011	83	7	41	104	2,246
8-9am	1,680	26	79	70	52	1,907	1,507	42	2	31	65	2,246
9-10am	1,313	19	59	72	27	1,490	1,237	7	0	36	68	1,647
10-11am	1,113	9	27	43	29	1,221	1,096	10	0	24	30	1,348
11-12am	1,048	12	26	60	48	1,194	1,030	7	0	64	54	1,160
12-1pm	1,108	12	9	39	11	1,179	1,072	10	0	25	41	1,155
1-2pm	1,194	9	21	32	33	1,289	1,075	2	0	20	30	1,148
2-3pm	1,367	17	66	90	66	1,606	1,118	9	0	40	79	1,127
3-4pm	1,814	22	20	41	23	1,920	1,211	9	0	14	43	1,246
4-5pm	1,891	16	86	153	101	2,247	1,277	15	0	38	92	1,277
5-6pm	2,003	22	61	50	101	2,237	1,656	12	0	10	63	1,422
6-7pm	1,823	19	56	44	37	1,979	1,586	9	0	7	58	1,741
7-8pm	---	---	---	---	---	1,559	---	---	---	---	---	1,660
8-9pm	---	---	---	---	---	1,018	---	---	---	---	---	1,183
9-10pm	---	---	---	---	---	675	---	---	---	---	---	888
10-11pm	---	---	---	---	---	460	---	---	---	---	---	744
11-12pm	---	---	---	---	---	297	---	---	---	---	---	509
Totals	---	---	---	---	---	24,670	---	---	---	---	---	261
												47,954
7-10am	4,148	82	203	242	141	4,816	4,755	132	9	108	237	5,241
10am-1pm	3,269	33	62	142	88	3,594	3,198	27	0	113	125	3,463
1-4pm	4,375	48	107	163	122	4,815	3,404	20	0	74	152	3,650
4-7pm	5,717	57	203	247	239	6,463	4,519	36	0	55	213	4,823
7am-7pm	17,509	220	575	794	590	19,688	15,876	215	9	350	727	17,177
6-10am						5,289						7,089
3-7pm	7,531	79	223	288	262	8,383	5,730	45	0	69	256	6,100
6am-7pm						20,161						19,025

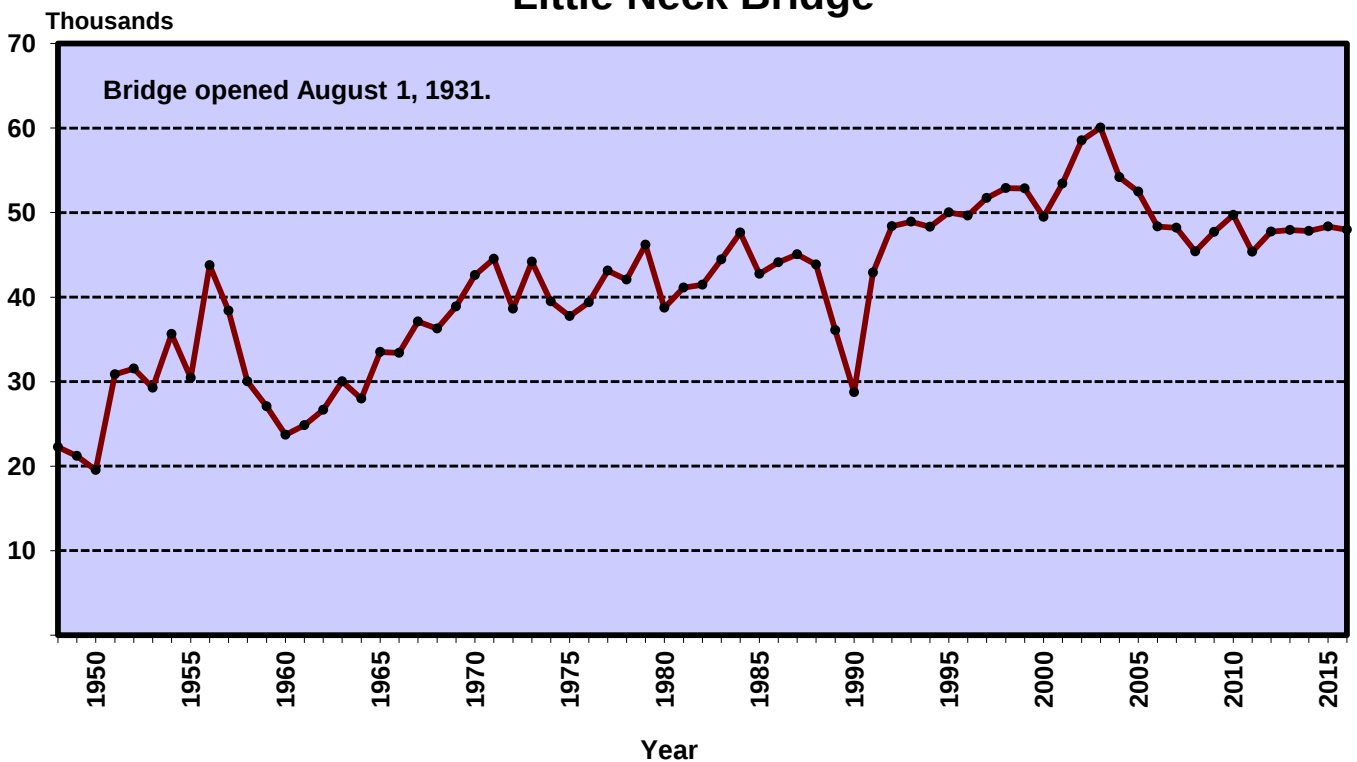
Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Little Neck Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Little Neck Bridge



Hourly Vehicular Volumes

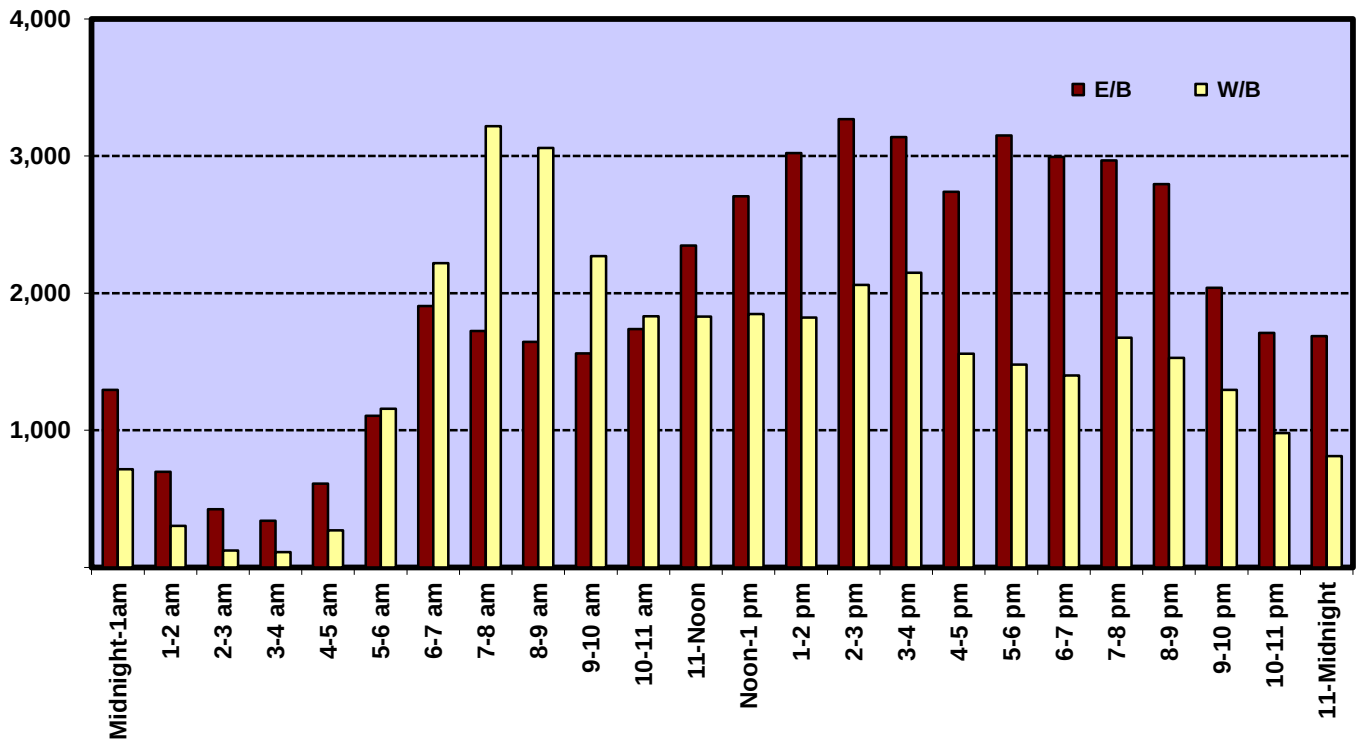
Midtown Highway Bridge - 2016

	Eastbound					Totals	Westbound					Totals
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans		Autos	Buses	Commuter Vans	Trucks	Commercial Vans	
12-1am	---	---	---	---	---	1,295	---	---	---	---	---	717
1-2am	---	---	---	---	---	698	---	---	---	---	---	303
2-3am	---	---	---	---	---	424	---	---	---	---	---	124
3-4am	---	---	---	---	---	340	---	---	---	---	---	113
4-5am	---	---	---	---	---	611	---	---	---	---	---	272
5-6am	---	---	---	---	---	1,107	---	---	---	---	---	1,157
6-7am	---	---	---	---	---	1,907	---	---	---	---	---	2,218
7-8am	1,408	72	15	139	91	1,725	2,632	144	66	117	259	3,218
8-9am	1,322	107	15	114	87	1,645	2,581	60	59	120	239	3,059
9-10am	1,189	128	11	139	94	1,561	1,827	54	79	128	182	2,270
10-11am	1,565	56	3	50	65	1,739	1,671	21	24	49	66	1,831
11-12am	2,031	55	7	133	121	2,347	1,530	14	85	95	106	1,830
12-1pm	2,446	33	24	98	105	2,706	1,666	7	56	64	56	1,849
1-2pm	2,390	40	88	189	314	3,021	1,451	18	114	123	116	1,822
2-3pm	2,792	17	71	168	220	3,268	1,636	79	98	138	110	2,061
3-4pm	2,899	29	33	55	123	3,139	1,861	73	75	58	83	2,150
4-5pm	2,305	20	66	83	266	2,740	1,190	124	100	34	111	1,559
5-6pm	2,799	24	22	54	251	3,150	1,217	62	70	64	67	1,480
6-7pm	2,730	10	29	64	161	2,994	1,270	19	37	34	39	1,399
7-8pm	---	---	---	---	---	2,968	---	---	---	---	---	1,676
8-9pm	---	---	---	---	---	2,796	---	---	---	---	---	1,529
9-10pm	---	---	---	---	---	2,039	---	---	---	---	---	1,295
10-11pm	---	---	---	---	---	1,711	---	---	---	---	---	981
11-12pm	---	---	---	---	---	1,687	---	---	---	---	---	811
Totals	---	---	---	---	---	47,618	---	---	---	---	---	35,724
7-10am	3,919	307	41	392	272	4,931	7,040	258	204	365	680	8,547
10am-1pm	6,042	144	34	281	291	6,792	4,867	42	165	208	228	5,510
1-4pm	8,081	86	192	412	657	9,428	4,948	170	287	319	309	6,033
4-7pm	7,834	54	117	201	678	8,884	3,677	205	207	132	217	4,438
7am-7pm	25,876	591	384	1,286	1,898	30,035	20,532	675	863	1,024	1,434	24,528
6-10am						6,838						10,765
3-7pm	10,733	83	150	256	801	12,023	5,538	278	282	190	300	6,588
6am-7pm						31,942						26,746

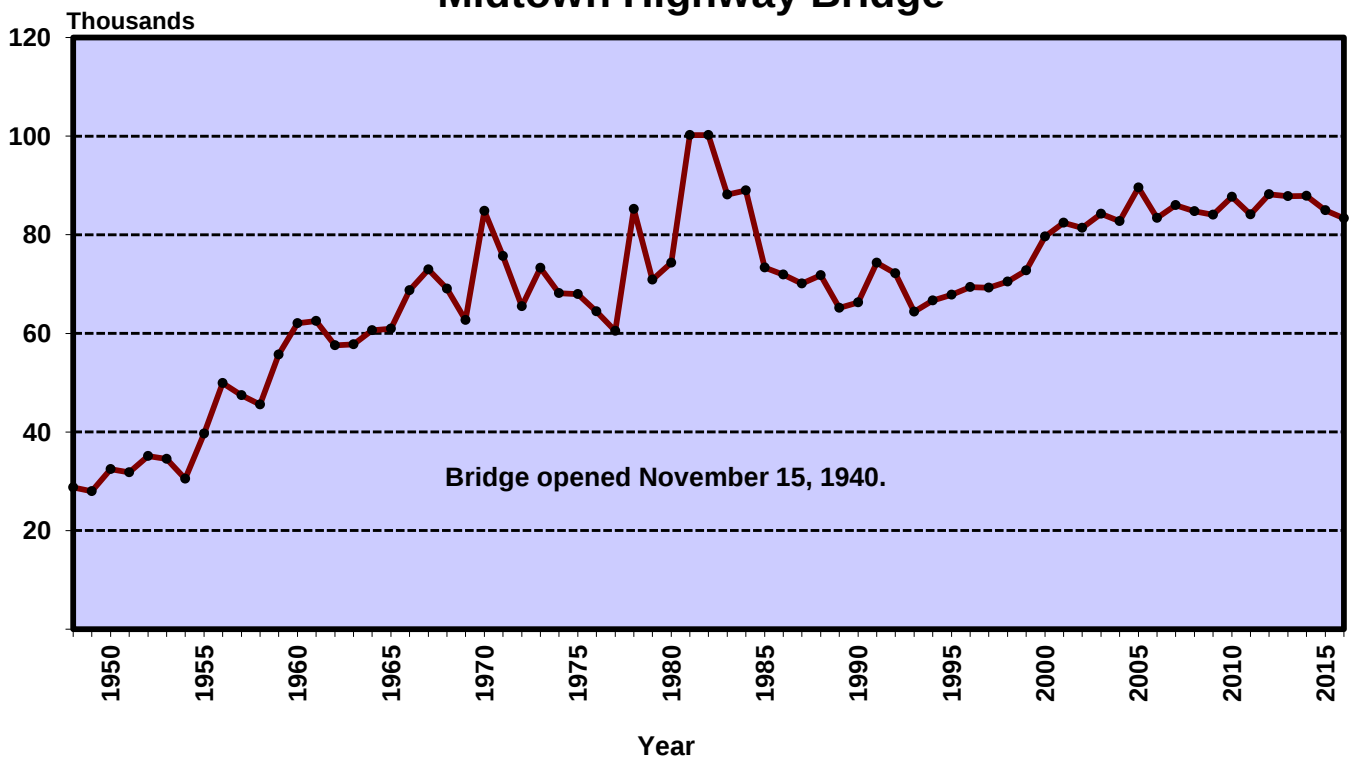
Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Midtown Highway Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Midtown Highway Bridge



Hourly Vehicular Volumes

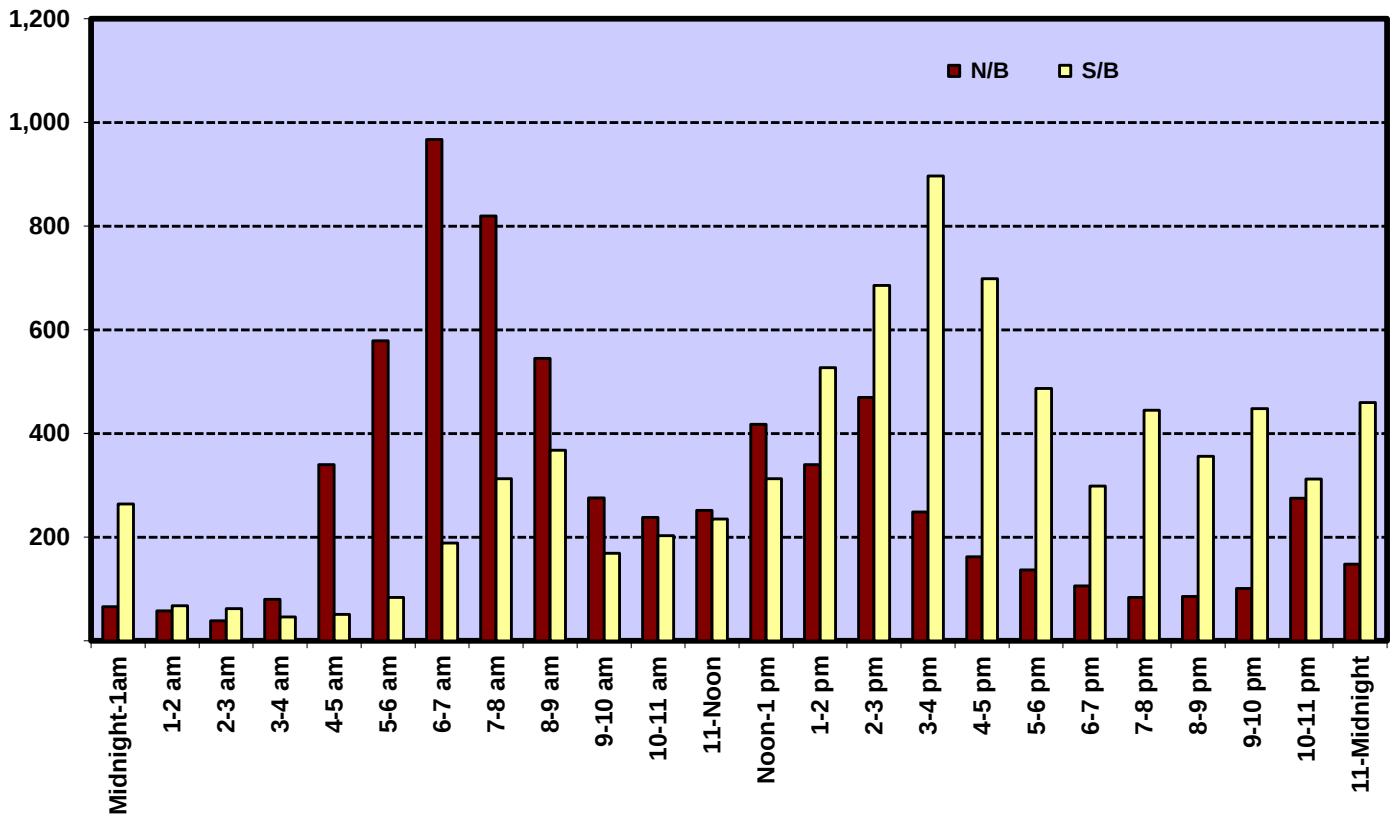
Rikers Island Bridge - 2016

	Northbound					Totals	Southbound					Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans		Autos	Buses	Commuter Vans	Trucks	Commercial Vans		
12-1am	---	---	---	---	---	66	---	---	---	---	---	264	
1-2am	---	---	---	---	---	58	---	---	---	---	---	68	
2-3am	---	---	---	---	---	39	---	---	---	---	---	62	
3-4am	---	---	---	---	---	80	---	---	---	---	---	46	
4-5am	---	---	---	---	---	340	---	---	---	---	---	51	
5-6am	---	---	---	---	---	579	---	---	---	---	---	84	
6-7am	---	---	---	---	---	967 **	---	---	---	---	---	189	
7-8am	680	10	3	44	83	820	270	19	10	10	4	313	
8-9am	467	10	2	28	38	545	299	16	19	24	10	368	
9-10am	192	27	1	25	31	276	122	13	3	24	7	169	
10-11am	183	14	0	19	22	238	166	17	4	14	2	203	
11-12am	176	15	3	26	32	252	154	25	16	28	12	235	
12-1pm	365	17	2	12	22	418	272	12	13	10	6	313	
1-2pm	292	26	1	8	13	340	460	19	25	16	7	527	
2-3pm	414	11	1	13	31	470	594	17	33	28	14	686	
3-4pm	222	9	1	6	11	249	837	16	27	16	1	897 **	
4-5pm	138	11	1	4	8	162	648	10	26	15	0	699	
5-6pm	111	11	1	0	14	137	439	14	24	4	6	487	
6-7pm	68	23	3	5	7	106	253	8	32	6	0	299	
7-8pm	---	---	---	---	---	84	---	---	---	---	---	445	
8-9pm	---	---	---	---	---	86	---	---	---	---	---	356	
9-10pm	---	---	---	---	---	101	---	---	---	---	---	448	
10-11pm	---	---	---	---	---	275	---	---	---	---	---	312	
11-12pm	---	---	---	---	---	148	---	---	---	---	---	460	
Totals	---	---	---	---	---	6,836	---	---	---	---	---	7,981	
7-10am	1,339	47	6	97	152	1,641	691	48	32	58	21	850	
10am-1pm	724	46	5	57	76	908	592	54	33	52	20	751	
1-4pm	928	46	3	27	55	1,059	1,891	52	85	60	22	2,110	
4-7pm	317	45	5	9	29	405	1,340	32	82	25	6	1,485	
7am-7pm	3,308	184	19	190	312	4,013	4,514	186	232	195	69	5,196	
6-10am						2,608						1,039	
3-7pm	539	54	6	15	40	654	2,177	48	109	41	7	2,382	
6am-7pm						4,980						5,385	
2-Way Totals							14,817						

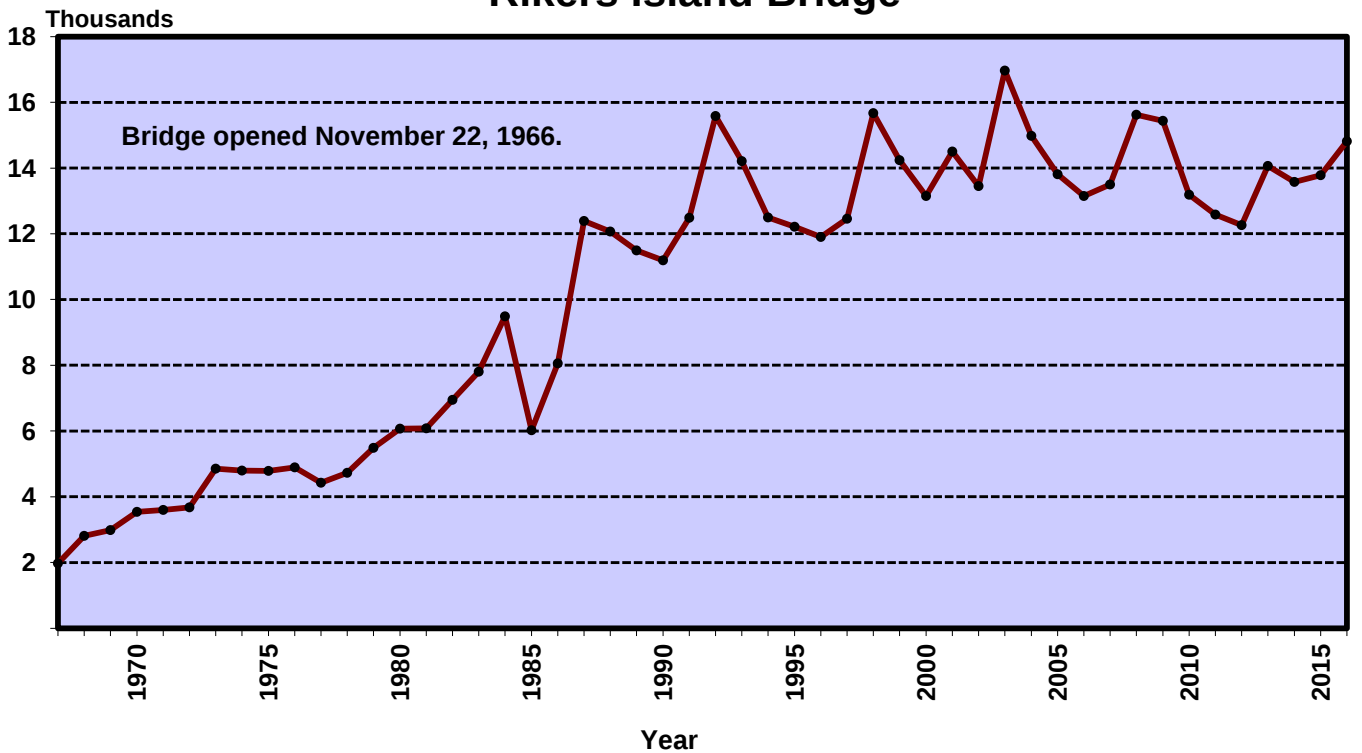
Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Rikers Island Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Rikers Island Bridge



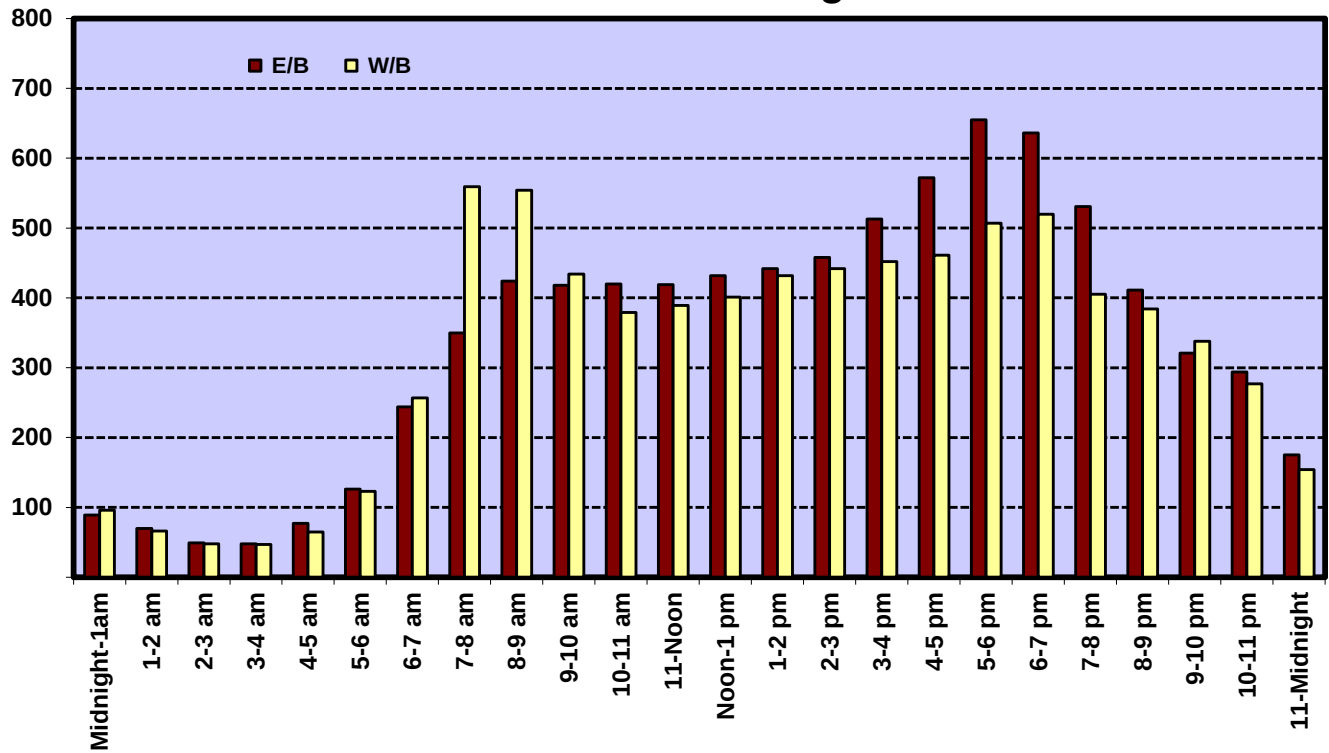
Roosevelt Avenue Bridge - 2016

	Eastbound					Westbound					2-Way Totals	
	Commuter				Commercial	Commuter				Commercial		
	Autos	Buses	Vans	Trucks	Vans	Totals	Autos	Buses	Vans	Trucks		Vans
12-1am	---	---	---	---	---	89	---	---	---	---	---	96
1-2am	---	---	---	---	---	70	---	---	---	---	---	66
2-3am	---	---	---	---	---	49	---	---	---	---	---	48
3-4am	---	---	---	---	---	48	---	---	---	---	---	47
4-5am	---	---	---	---	---	77	---	---	---	---	---	65
5-6am	---	---	---	---	---	126	---	---	---	---	---	123
6-7am	---	---	---	---	---	244	---	---	---	---	---	257
7-8am	275	23	10	26	16	350	474	4	14	35	32	559
8-9am	332	14	9	33	36	424	490	14	8	16	26	554
9-10am	330	6	9	34	39	418	348	37	8	19	22	434
10-11am	367	5	8	18	22	420	353	6	2	13	5	379
11-12am	332	9	9	32	37	419	353	12	2	15	7	389
12-1pm	396	5	7	13	11	432	387	8	1	2	3	401
1-2pm	392	24	2	7	17	442	417	10	0	1	4	432
2-3pm	348	23	11	40	36	458	412	7	2	11	10	442
3-4pm	452	10	7	20	24	513	383	53	1	7	8	452
4-5pm	432	8	23	42	67	572	431	11	3	8	8	461
5-6pm	539	4	19	24	69	655	484	6	2	9	6	507
6-7pm	540	4	14	23	55	636	474	24	5	9	8	520
7-8pm	---	---	---	---	---	531	---	---	---	---	---	405
8-9pm	---	---	---	---	---	411	---	---	---	---	---	384
9-10pm	---	---	---	---	---	321	---	---	---	---	---	338
10-11pm	---	---	---	---	---	294	---	---	---	---	---	277
11-12pm	---	---	---	---	---	175	---	---	---	---	---	154
Totals	---	---	---	---	---	8,174	---	---	---	---	---	7,790
7-10am	937	43	28	93	91	1,192	1,312	55	30	70	80	1,547
10am-1pm	1,095	19	24	63	70	1,271	1,093	26	5	30	15	1,169
1-4pm	1,192	57	20	67	77	1,413	1,212	70	3	19	22	1,326
4-7pm	1,511	16	56	89	191	1,863	1,389	41	10	26	22	1,488
7am-7pm	4,735	135	128	312	429	5,739	5,006	192	48	145	139	5,530
6-10am						1,436						1,804
3-7pm	1,963	26	63	109	215	2,376	1,772	94	11	33	30	1,940
6am-7pm						5,983						5,787

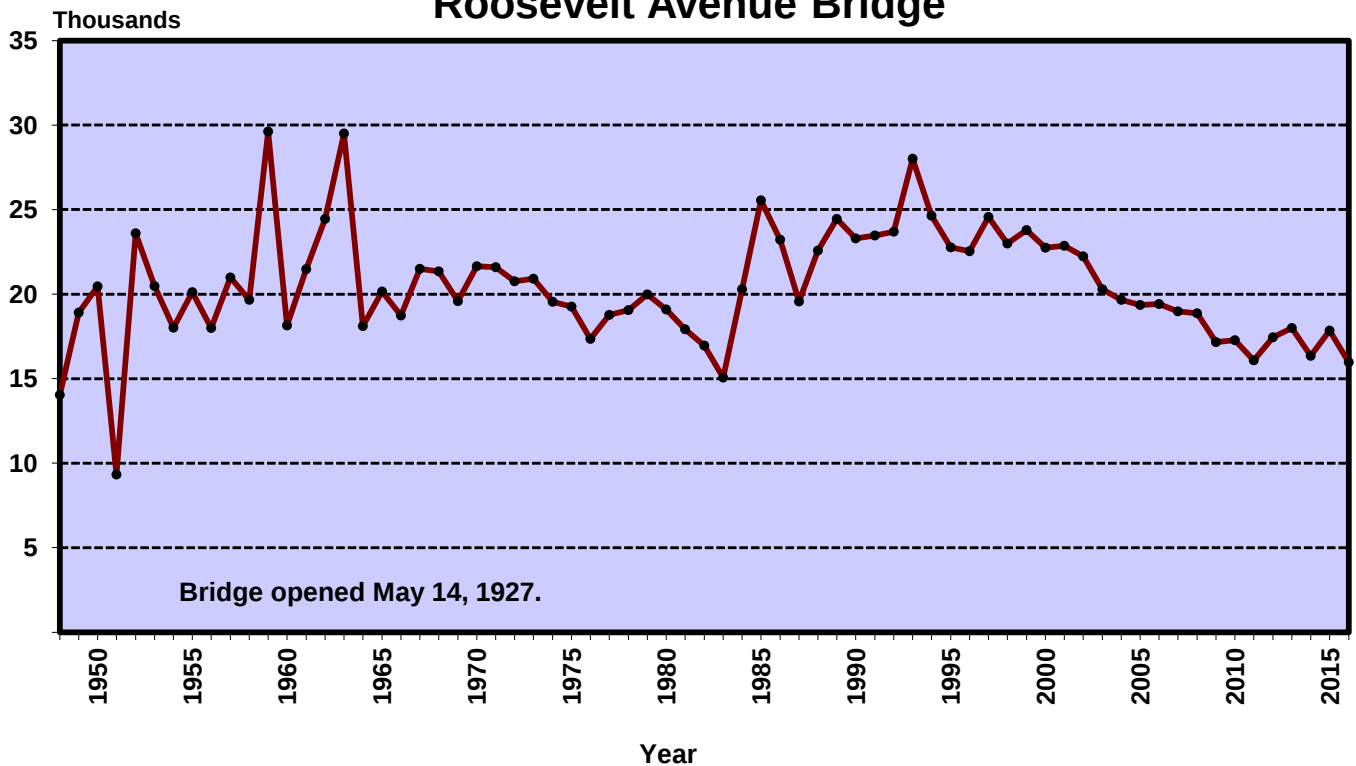
Based on 1989 Classification Survey Data

Peak Volumes

Hourly Vehicular Volumes Roosevelt Avenue Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Roosevelt Avenue Bridge



Hourly Vehicular Volumes

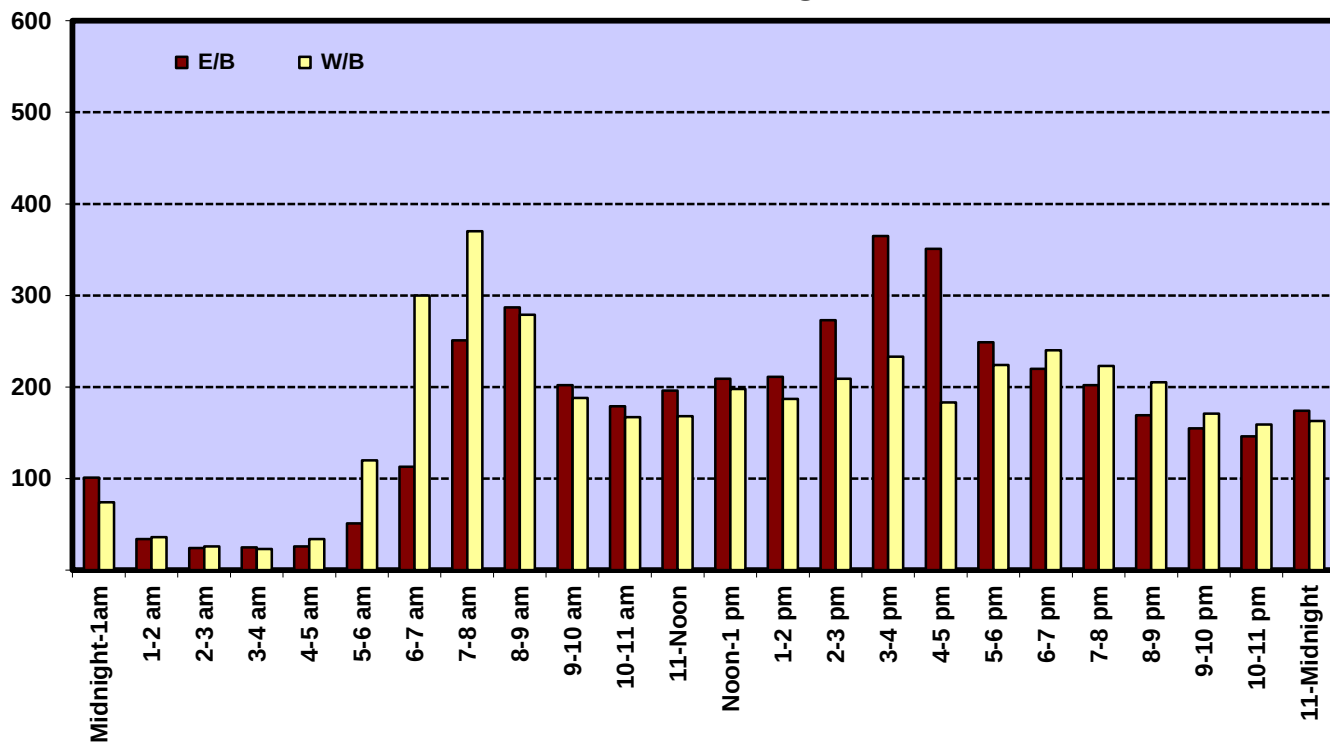
Roosevelt Island Bridge - 2016

	<i>Eastbound</i>					<i>Westbound</i>					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals
12-1am	---	---	---	---	---	101	---	---	---	---	---	74
1-2am	---	---	---	---	---	34	---	---	---	---	---	36
2-3am	---	---	---	---	---	24	---	---	---	---	---	26
3-4am	---	---	---	---	---	25	---	---	---	---	---	23
4-5am	---	---	---	---	---	26	---	---	---	---	---	34
5-6am	---	---	---	---	---	51	---	---	---	---	---	120
6-7am	---	---	---	---	---	113	---	---	---	---	---	300
7-8am	221	12	11	4	3	251	329	6	20	9	6	370
8-9am	230	15	19	15	8	287	260	4	2	10	3	279
9-10am	154	9	10	23	6	202	163	4	8	11	2	188
10-11am	159	2	4	9	5	179	143	5	1	10	8	167
11-12am	152	5	8	15	16	196	125	4	8	23	8	168
12-1pm	184	4	2	13	6	209	163	23	3	5	4	198
1-2pm	191	6	2	5	7	211	166	6	1	8	6	187
2-3pm	235	4	4	23	7	273	184	6	4	8	7	209
3-4pm	332	18	1	6	8	365	218	6	4	3	2	233
4-5pm	331	4	8	1	7	351	164	7	5	2	5	183
5-6pm	234	4	0	3	8	249	206	7	0	4	7	224
6-7pm	204	2	1	1	12	220	229	4	3	3	1	240
7-8pm	---	---	---	---	---	202	---	---	---	---	---	223
8-9pm	---	---	---	---	---	169	---	---	---	---	---	205
9-10pm	---	---	---	---	---	155	---	---	---	---	---	171
10-11pm	---	---	---	---	---	146	---	---	---	---	---	159
11-12pm	---	---	---	---	---	174	---	---	---	---	---	163
Totals	---	---	---	---	---	4,213	---	---	---	---	---	4,180
7-10am	605	36	40	42	17	740	752	14	30	30	11	837
10am-1pm	495	11	14	37	27	584	431	32	12	38	20	533
1-4pm	758	28	7	34	22	849	568	18	9	19	15	629
4-7pm	769	10	9	5	27	820	599	18	8	9	13	647
7am-7pm	2,627	85	70	118	93	2,993	2,350	82	59	96	59	2,646
6-10am	---	---	---	---	---	853	---	---	---	---	---	1,137
3-7pm	1,101	28	10	11	35	1,185	817	24	12	12	15	880
6am-7pm	---	---	---	---	---	3,106	---	---	---	---	---	2,946

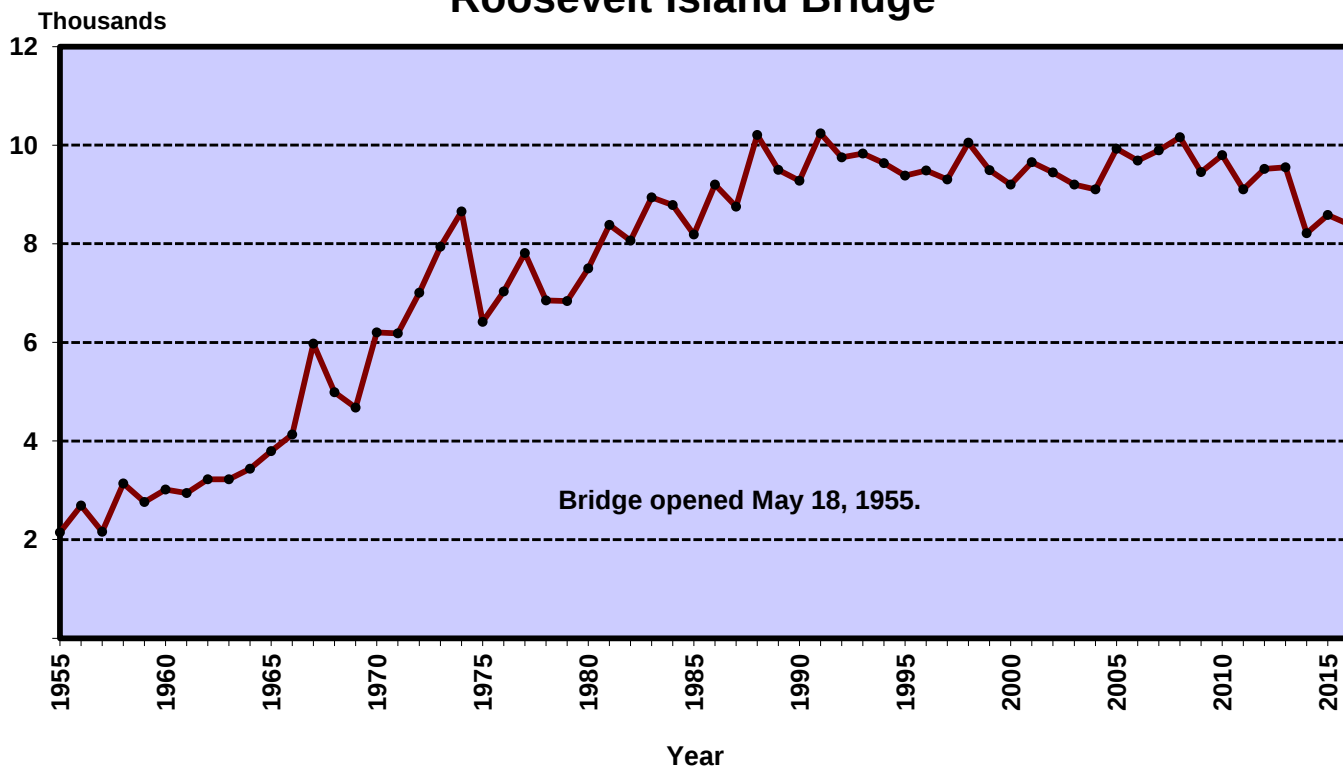
Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Roosevelt Island Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Roosevelt Island Bridge



Hourly Vehicular Volumes

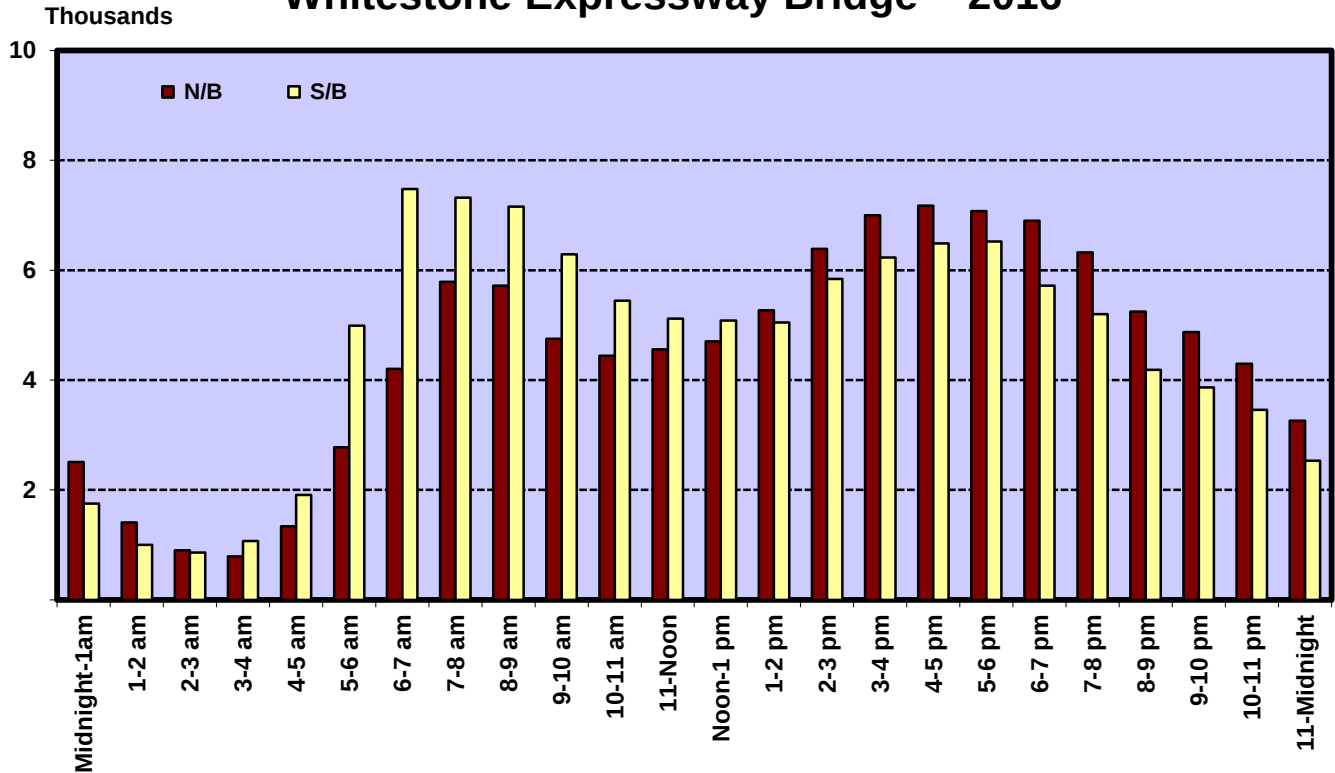
Whitestone Expressway Bridge - 2016

	Northbound					Southbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	2,508	---	---	---	---	---	1,752
1-2am	---	---	---	---	---	1,410	---	---	---	---	---	998
2-3am	---	---	---	---	---	901	---	---	---	---	---	859
3-4am	---	---	---	---	---	788	---	---	---	---	---	1,067
4-5am	---	---	---	---	---	1,338	---	---	---	---	---	1,906
5-6am	---	---	---	---	---	2,774	---	---	---	---	---	4,988
6-7am	---	---	---	---	---	4,202	---	---	---	---	---	7,476 **
7-8am	4,875	92	176	300	347	5,790	5,845	61	238	521	655	7,320
8-9am	4,750	74	283	378	233	5,718	5,941	77	202	505	431	7,156
9-10am	3,822	75	179	451	225	4,752	4,927	85	222	580	474	6,288
10-11am	3,883	40	92	265	162	4,442	4,936	23	123	231	132	5,445
11-12am	3,473	30	171	590	297	4,561	4,100	26	221	504	268	5,119
12-1pm	4,158	73	67	271	135	4,704	4,512	33	109	253	175	5,082
1-2pm	4,777	65	46	249	134	5,271	4,422	64	100	284	178	5,048
2-3pm	5,181	73	157	532	444	6,387	4,687	83	188	547	335	5,840
3-4pm	6,371	30	88	252	256	6,997	5,588	102	126	242	173	6,231
4-5pm	6,199	26	172	352	422	7,171 **	5,444	65	237	425	318	6,489
5-6pm	6,194	35	168	269	407	7,073	5,902	29	172	244	177	6,524
6-7pm	6,167	53	171	175	332	6,898	5,272	10	179	109	150	5,720
7-8pm	---	---	---	---	---	6,323	---	---	---	---	---	5,197
8-9pm	---	---	---	---	---	5,244	---	---	---	---	---	4,187
9-10pm	---	---	---	---	---	4,872	---	---	---	---	---	3,863
10-11pm	---	---	---	---	---	4,298	---	---	---	---	---	3,460
11-12pm	---	---	---	---	---	3,260	---	---	---	---	---	2,530
Totals	---	---	---	---	---	107,682	---	---	---	---	---	110,545
7-10am	13,447	241	638	1,129	805	16,260	16,713	223	662	1,606	1,560	20,764
10am-1pm	11,514	143	330	1,126	594	13,707	13,548	82	453	988	575	15,646
1-4pm	16,329	168	291	1,033	834	18,655	14,697	249	414	1,073	686	17,119
4-7pm	18,560	114	511	796	1,161	21,142	16,618	104	588	778	645	18,733
7am-7pm	59,850	666	1,770	4,084	3,394	69,764	61,576	658	2,117	4,445	3,466	72,262
6-10am						20,462						28,240
3-7pm	24,931	144	599	1,048	1,417	28,139	22,206	206	714	1,020	818	24,964
6am-7pm						73,966						79,738

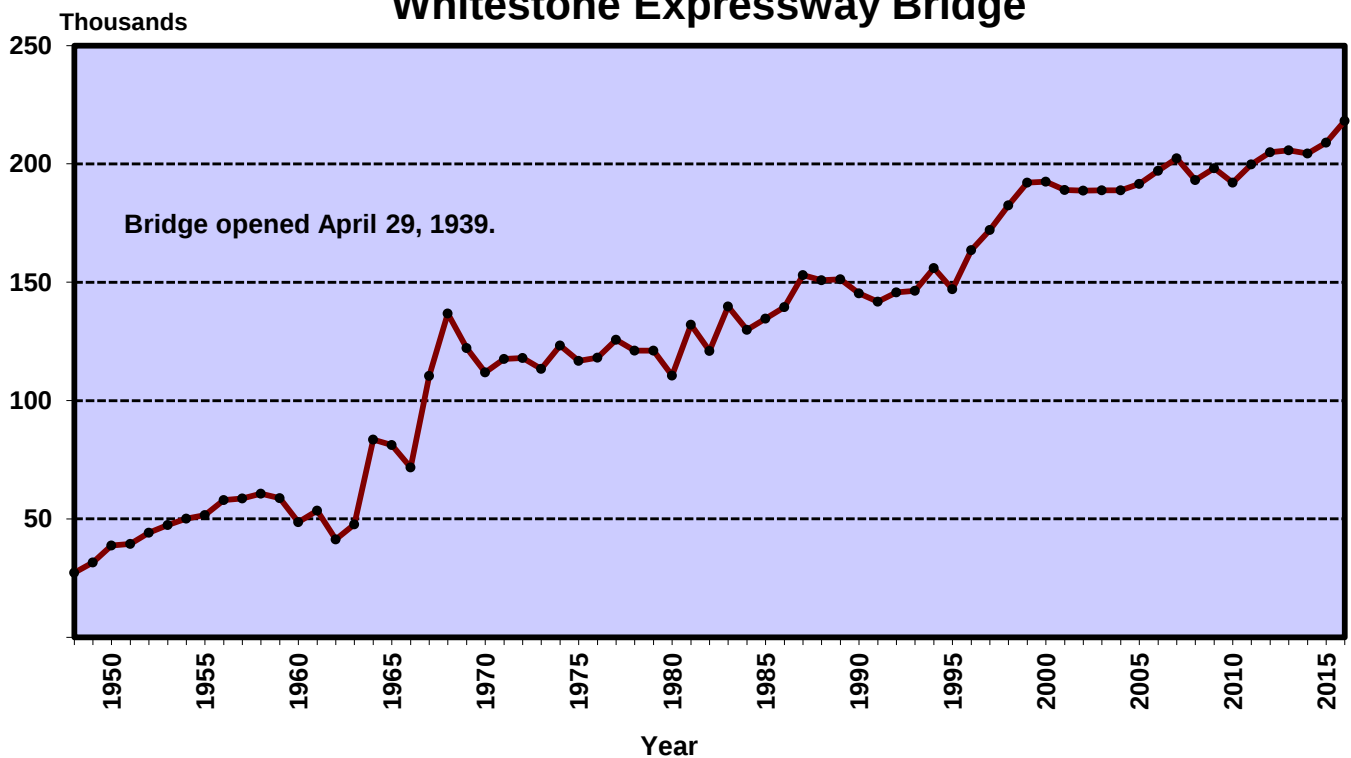
Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Whitestone Expressway Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Whitestone Expressway Bridge

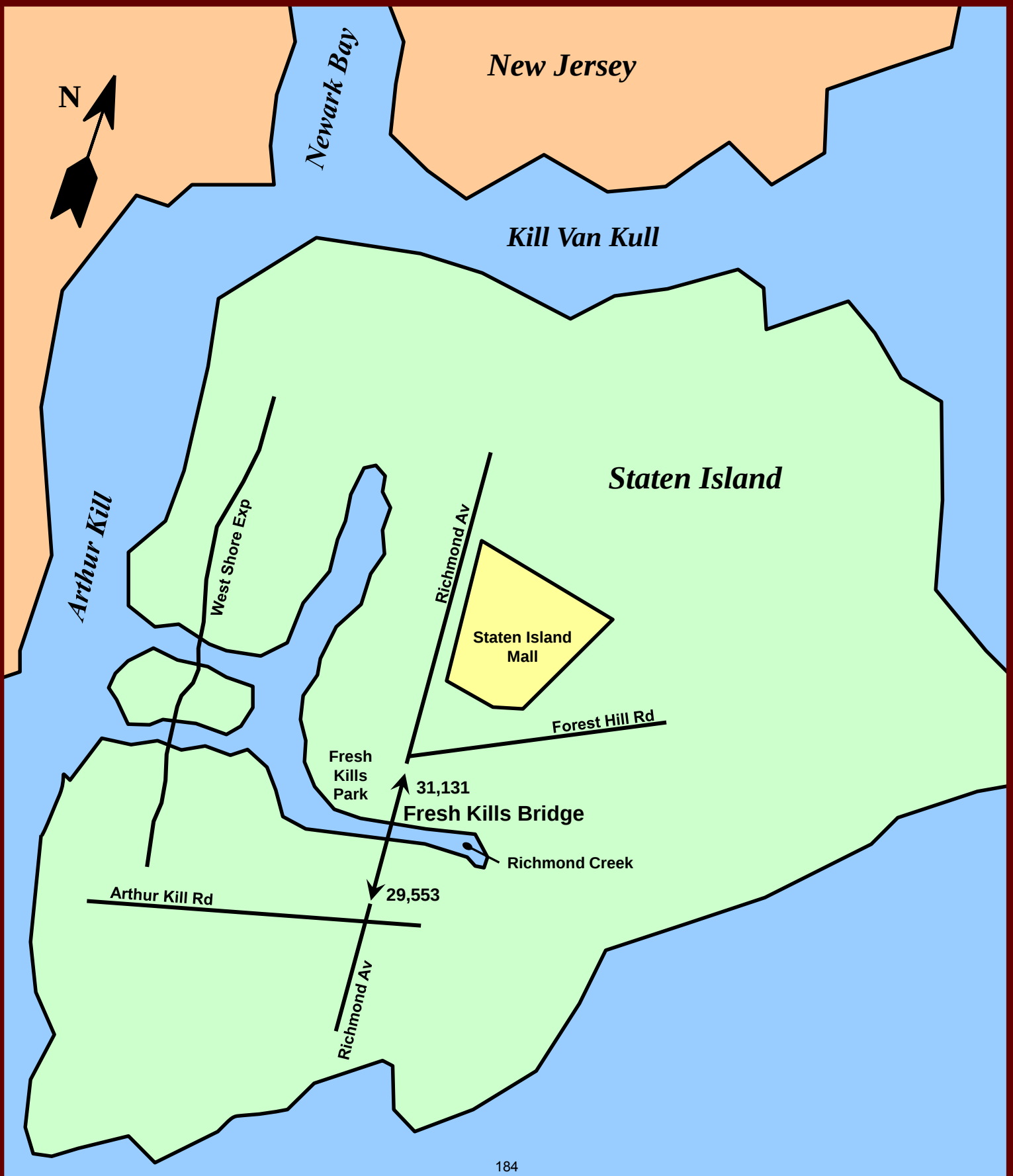


Staten Island ~ Fresh Kills Bridge



Staten Island ~ Fresh Kills Bridge

2016 Daily Volumes



Staten Island Bridges
Average Daily Traffic Volumes
1948 - 2016

Year	<i>Fresh Kills</i> <i>Bridge</i>
1948	5,597
1949	5,759
1950	6,250
1951	8,023
1952	7,891
1953	7,858
1954	9,098
1955	9,841
1956	9,415
1957	9,897
1958	10,121
1959	8,573
1960	8,147
1961	10,270
1962	9,400
1963	12,450
1964	15,010
1965	15,539
1966	17,175
1967	17,309
1968	19,789
1969	22,379
1970	21,631
1971	26,744
1972	28,455
1973	37,213
1974	36,207
1975	38,684
1976	34,675
1977	30,295
1978	34,467
1979	36,806
1980	41,604
1981	46,947
1982	68,481
1983	46,450
1984	50,341
1985	53,590
1986	44,230
1987	50,372
1988	50,385
1989	36,550
1990	53,442
1991	49,197
1992	48,507
1993	49,969
1994	48,562
1995	47,132
1996	49,740
1997	51,738
1998	53,770
1999	65,577
2000	66,980
2001	67,465
2002	64,563
2003	66,155
2004	64,705
2005	66,816
2006	65,274
2007	68,997
2008	64,724
2009	64,490
2010	65,612
2011	60,678
2012	58,026
2013	60,240
2014	59,602
2015	57,538
2016	60,684

Hourly Vehicular Volumes

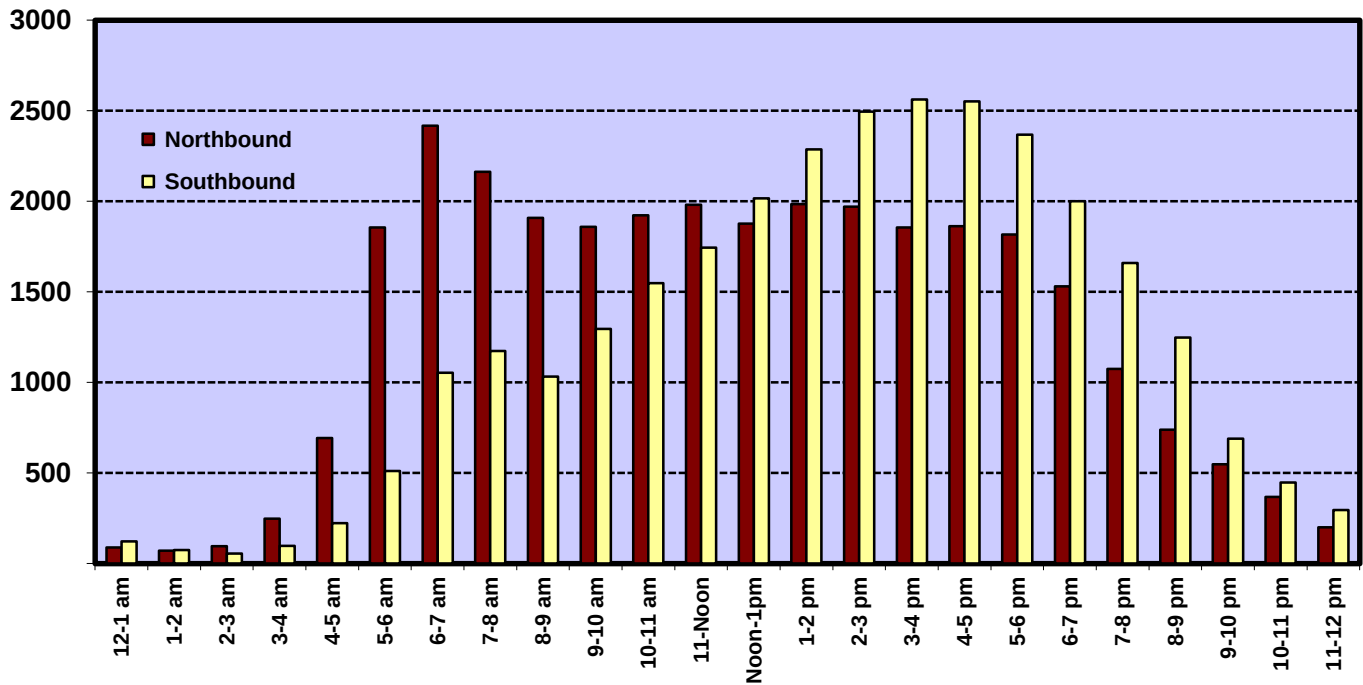
Fresh Kills Bridge - 2016

Northbound														Southbound														2-way Grand Totals		
FHWA Classes ▶	Commercial Vans, Panel Trucks, Pickups,							Autos, Motorcycles SUVs, Family Vans							Commercial Vans, Panel Trucks, Pickups,							Autos, Motorcycles SUVs, Family Vans							Total Vehicles	
	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13	Total Vehicles	Taxis, Liveries, Limos	Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles									
12-1am	86	0	1	2	0	0	89	0	0	0	0	0	99	12	0	7	0	4	0	0	122	211								
1-2am	66	0	1	3	2	0	72	0	0	0	0	0	55	6	0	10	2	1	0	1	74	146								
2-3am	89	1	2	2	1	1	96	38	7	7	1	1	38	7	2	7	1	1	1	1	56	152								
3-4am	203	0	0	11	17	17	248	81	6	5	0	0	81	6	5	0	0	5	0	5	97	345								
4-5am	553	0	7	118	15	0	693	190	20	2	4	1	190	20	2	4	1	6	1	6	223	916								
5-6am	1,316	0	18	402	82	37	1,855	483	5	9	11	1	483	5	9	11	1	3	1	3	512	2,367								
6-7am	1,695	0	29	606	59	29	2,418	977	8	26	36	3	977	6	20	31	2	3	3	1,053	3,471									
7-8am	1,823	4	64	182	64	26	2,163	1,111	6	20	31	2	1,111	6	20	31	2	3	3	1,173	3,336									
8-9am	1,613	2	95	122	62	14	1,908	944	10	30	37	3	944	6	30	37	3	8	1,032	2,940										
9-10am	1,655	0	87	45	50	22	1,859	1,231	6	12	34	8	1,231	24	33	39	12	5	5	1,296	3,155									
10-11am	1,764	1	55	41	26	35	1,922	1,435	24	33	39	12	1,435	23	53	25	10	5	5	1,548	3,470									
11-12am	1,853	3	68	28	18	11	1,981	1,619	23	53	25	10	1,619	23	53	25	10	14	14	1,744	3,725									
12-1pm	1,768	0	49	25	20	15	1,877	1,919	18	36	26	5	1,919	18	36	26	5	13	13	2,017	3,894									
1-2pm	1,850	8	42	56	17	11	1,984	2,088	34	69	55	22	2,088	34	69	55	22	19	19	2,287	4,271									
2-3pm	1,852	2	38	51	17	11	1,971	2,333	26	59	59	8	2,333	26	59	59	8	10	10	2,495	4,466									
3-4pm	1,741	0	52	39	11	12	1,855	2,407	16	45	74	13	2,407	16	45	74	13	8	8	2,563	4,418									
4-5pm	1,770	2	39	33	13	5	1,862	2,442	8	20	68	12	2,442	8	20	68	12	1	1	2,551	4,413									
5-6pm	1,745	3	32	31	5	0	1,816	2,257	11	34	58	6	2,257	11	34	58	6	2	2	2,368	4,184									
6-7pm	1,466	2	26	26	6	4	1,530	1,896	19	28	54	2	1,896	19	28	54	2	2	2	2,001	3,531									
7-8pm	1,034	3	14	18	5	0	1,074	1,544	15	28	61	6	1,544	15	28	61	6	5	5	1,659	2,733									
8-9pm	719	1	8	9	1	2	740	1,174	8	14	47	1	1,174	8	14	47	1	4	4	1,248	1,988									
9-10pm	538	1	4	4	2	0	549	654	2	8	24	0	654	2	8	24	0	2	2	690	1,239									
10-11pm	359	2	3	4	1	0	369	423	4	8	10	0	423	4	8	10	0	3	3	448	817									
11-12pm	197	0	0	3	0	0	200	282	1	4	7	1	282	1	4	7	1	1	1	296	496									
Totals	27,755	35	734	1,861	494	252	31,131	27,682	295	545	784	119	29,553	295	545	784	119	128	128	29,553	60,684									
7-10am	5,091	6	246	349	176	62	5,930	3,286	22	62	102	13	9,431	22	62	102	13	16	16	3,501	9,431									
10am-1pm	5,385	4	172	94	64	61	5,780	4,973	65	122	90	27	11,089	65	122	90	27	32	32	5,309	11,089									
1-4pm	5,443	10	132	146	45	34	5,810	6,828	76	173	188	43	13,155	76	173	188	43	37	37	7,345	13,155									
4-7pm	4,981	7	97	90	24	9	5,208	6,595	38	82	180	20	12,128	38	82	180	20	5	5	6,920	12,128									
7am-7pm	20,900	27	647	679	309	166	22,728	21,682	201	439	560	103	45,803	201	439	560	103	90	90	23,075	45,803									
6-10am	6,786	6	275	955	235	91	8,348	4,263	30	88	138	16	12,902	30	88	138	16	19	19	4,554	12,902									
3-7pm	6,722	7	149	129	35	21	7,063	9,002	54	127	254	33	16,546	54	127	254	33	13	13	9,483	16,546									
6am-7pm	22,595	27	676	1,285	368	195	25,146	22,659	209	465	596	106	49,274	209	465	596	106	93	93	24,128	49,274									

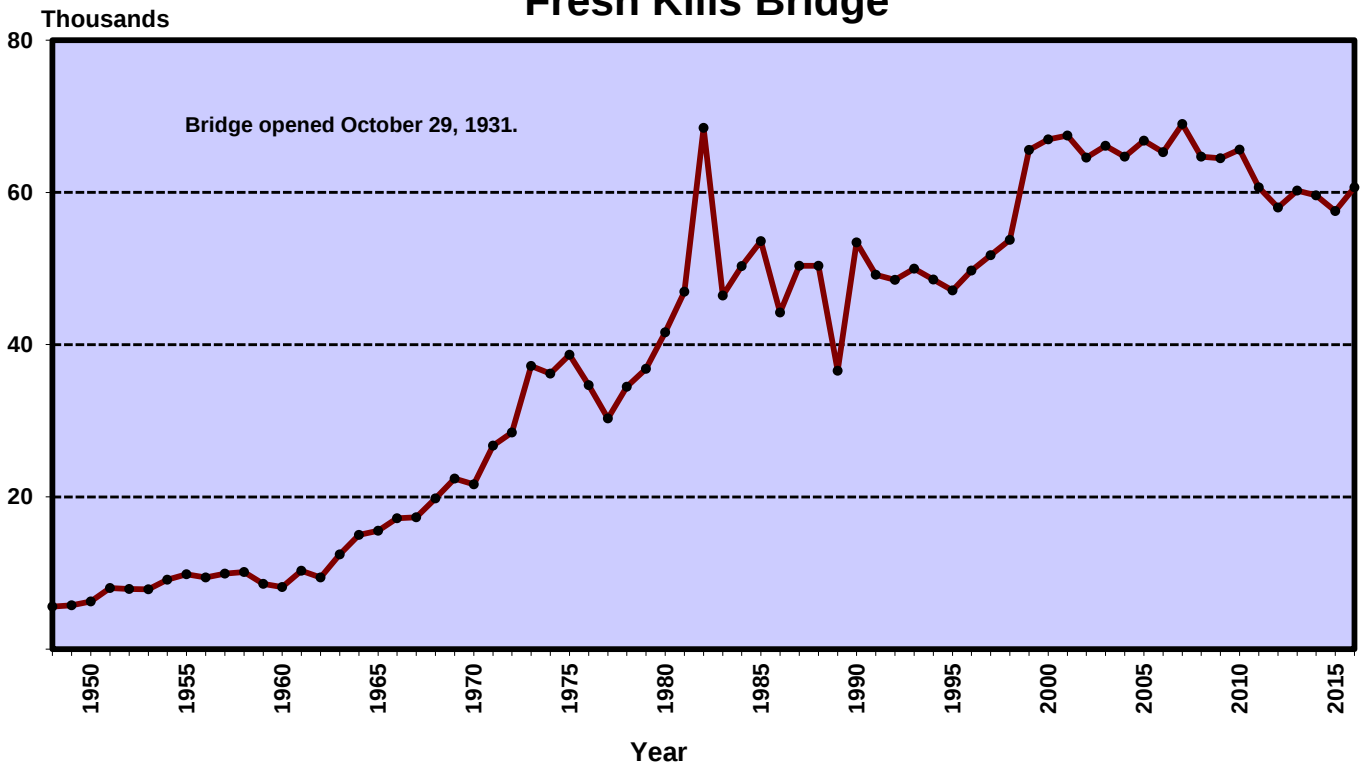
Based on September 2015 Classification Survey Data.

** Peak Volumes

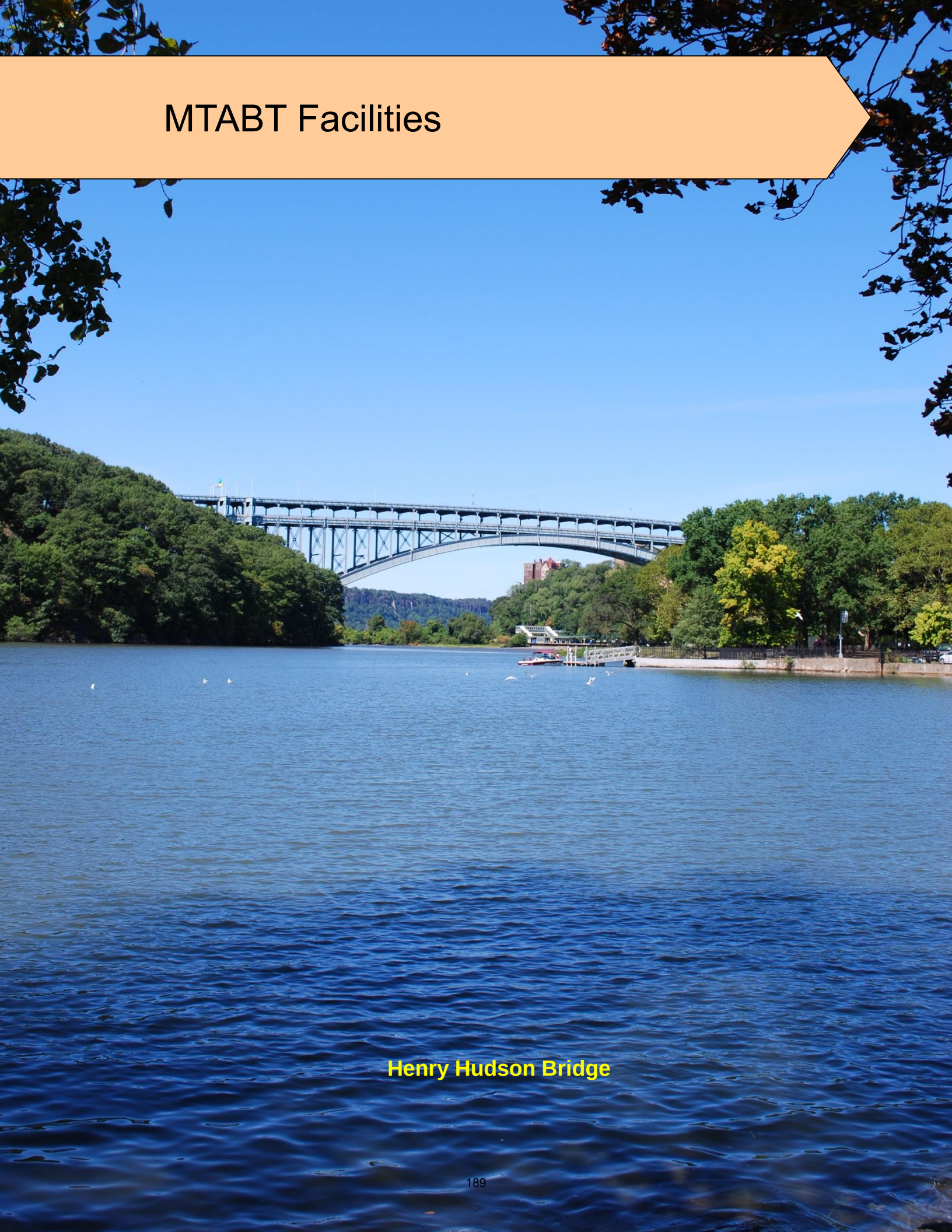
Hourly Vehicular Volumes Fresh Kills Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Fresh Kills Bridge



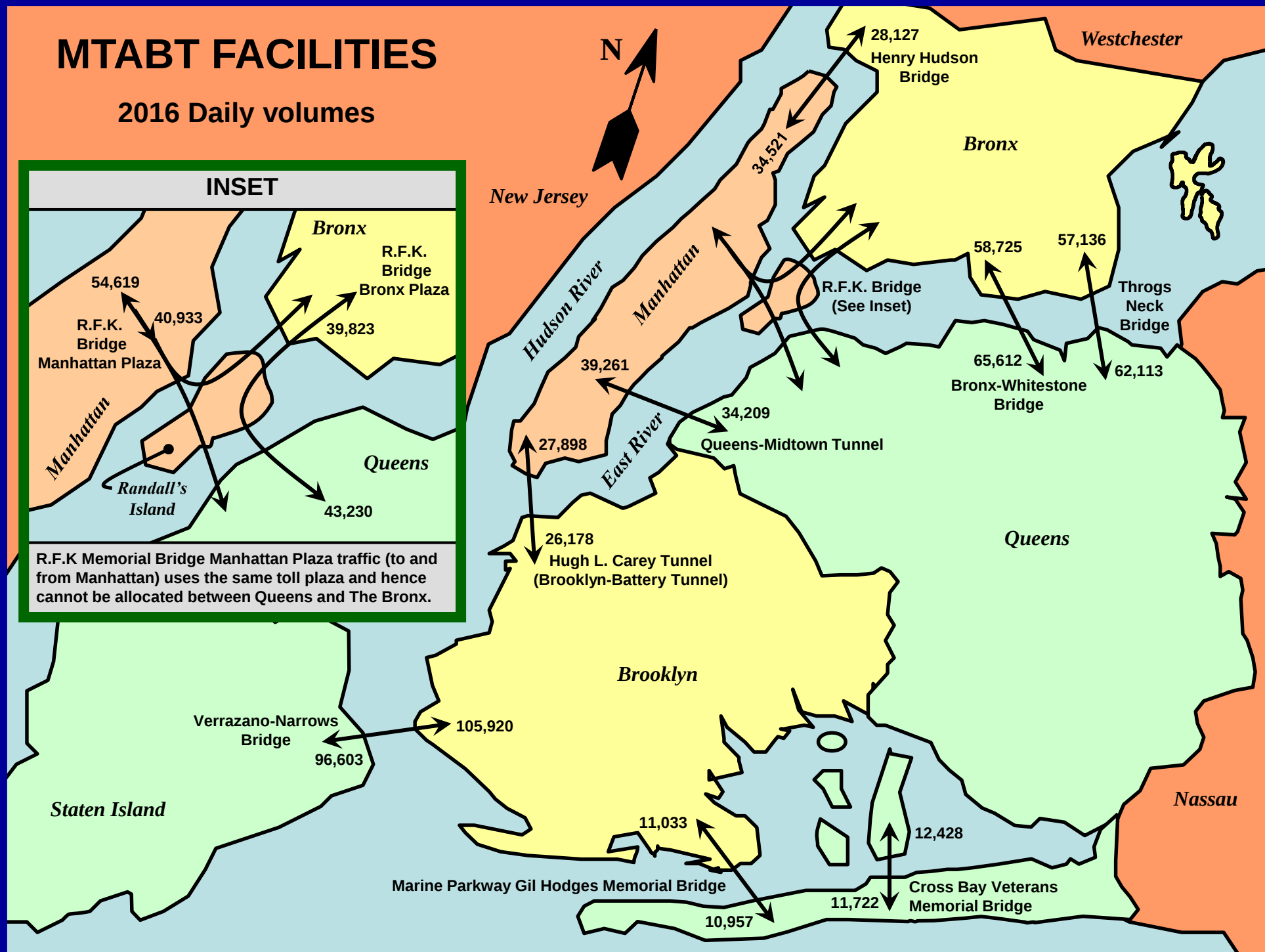
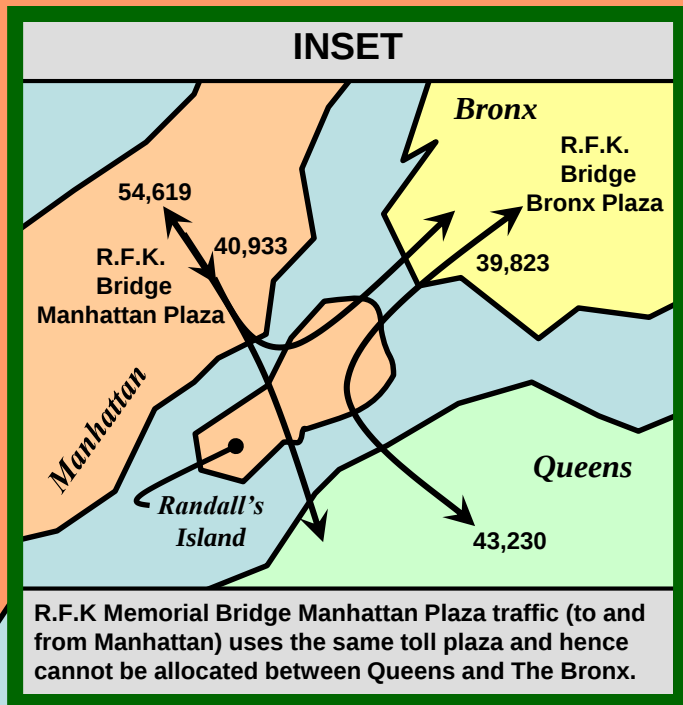
MTABT Facilities



Henry Hudson Bridge

MTABT FACILITIES

2016 Daily volumes



**MTABT Manhattan Facilities ~ Average Daily Traffic Volumes
1948 - 2016**

Year	Henry Hudson Bridge	Hugh L. Carey Tunnel (Brooklyn- Battery Tunnel)	Queens- Midtown Tunnel	Robert F. Kennedy Memorial Bridge	
				Manh. Plz. (Triborough Bridge)	Manhattan Totals
1948	40,050	<i>Opened</i>	26,462	26,465	92,977
1949	47,472	<i>05/25/1950</i>	30,045	32,554	110,071
1950	53,559	37,258	34,044	36,995	161,856
1951	57,700	41,253	36,680	44,639	180,272
1952	61,592	45,366	38,866	48,503	194,327
1953	65,432	47,999	38,509	48,595	200,535
1954	69,025	45,120	38,185	52,286	204,616
1955	71,240	45,843	39,839	59,913	216,835
1956	69,477	48,054	49,544	64,460	231,535
1957	62,865	54,490	54,311	64,677	236,343
1958	57,321	53,789	58,321	62,982	232,413
1959	56,529	49,468	61,115	64,389	231,501
1960	56,675	48,970	62,008	63,115	230,768
1961	57,140	48,197	62,301	59,603	227,241
1962	59,548	48,173	65,038	60,251	233,010
1963	52,803	48,271	63,038	60,988	225,100
1964	50,768	51,893	67,713	66,139	236,513
1965	45,353	56,455	69,386	69,755	240,949
1966	44,043	57,674	69,850	71,540	243,107
1967	43,409	57,611	69,416	73,602	244,038
1968	44,908	60,652	66,432	75,932	247,924
1969	45,382	62,116	68,884	78,481	254,863
1970	46,720	62,042	77,180	85,121	271,063
1971	50,541	64,032	81,747	90,372	286,692
1972	45,818	52,065	74,936	80,052	252,871
1973	41,871	49,916	74,214	85,592	251,593
1974	38,331	46,620	75,219	82,676	242,846
1975	30,603	45,636	65,315	72,566	214,120
1976	30,557	52,444	65,881	68,325	217,207
1977	31,840	53,500	71,150	73,276	229,766
1978	33,605	58,252	72,696	76,572	241,125
1979	33,387	60,445	69,827	87,885	251,544
1980	31,817	62,386	73,216	88,439	255,858
1981	36,625	58,657	81,211	93,361	269,854
1982	30,923	56,189	78,229	88,158	253,499
1983	31,279	61,130	78,134	92,967	263,510
1984	34,898	58,032	74,808	95,247	262,985
1985	41,680	63,469	76,065	94,644	275,858
1986	49,005	60,778	71,478	93,432	274,693
1987	52,778	63,256	77,813	95,795	289,642
1988	54,910	62,959	76,243	99,438	293,550
1989	50,556	59,254	72,828	92,720	275,358
1990	57,528	60,512	71,186	99,840	289,066
1991	56,279	63,883	80,616	94,487	295,265
1992	58,660	62,510	81,835	97,198	300,203
1993	54,650	57,561	77,288	92,660	282,159
1994	58,291	57,013	68,511	79,536	263,351
1995	62,899	61,097	73,882	95,696	293,574
1996	58,759	57,091	72,285	92,981	281,116
1997	59,660	54,690	78,023	91,313	283,686
1998	59,339	61,091	79,697	93,863	293,990
1999	61,165	63,307	80,941	98,553	303,966
2000	66,304	63,242	80,879	103,079	313,504
2001	69,087	13,762	72,864	102,224	257,937
2002	70,731	56,976	82,834	94,759	305,300
2003	72,209	56,271	85,377	93,177	307,034
2004	73,114	54,488	86,599	97,958	312,159
2005	70,407	49,043	86,063	91,898	297,411
2006	71,761	57,436	89,972	98,582	317,751
2007	70,094	56,539	88,379	97,241	312,253
2008	69,101	55,037	86,709	95,146	305,993
2009	66,607	50,674	85,144	91,731	294,156
2010	69,641	54,187	88,014	93,455	305,297
2011	63,433	54,481	87,662	88,717	294,293
2012	63,434	54,299	87,937	90,956	296,626
2013	59,087	55,145	86,737	91,386	292,355
2014	58,809	54,007	86,081	91,509	290,406
2015	62,554	57,299	86,217	91,724	297,794
2016	62,648	54,076	73,470	95,552	285,746

MTABT Toll Increases January 1972, September 1975, May 1980, April 1982, January 1984, January 1986, February 1987, July 1989, January 1993, March 1996, May 2003, March 2005, March 2008, July 2009, December 2010, March 2013, & March 2015.

**MTABT Outer Borough Bridges ~ Average Daily Traffic Volumes
1948 - 2016**

Year	Bronx-Whitestone Bridge	Cross Bay Bridge	Robert F. Kennedy Memorial Bridge		Throgs Neck Bridge	Verrazano-Narrows Bridge	Outer Boroughs Totals
			Marine Parkway Gil Hodges Memorial Bridge	Bronx Plz. (Triborough Bridge)			
1948	33,343	11,421	10,216	25,997	<i>Opened</i>	<i>Opened</i>	80,977
1949	41,485	12,579	11,743	31,310	<i>01/11/1961</i>	<i>11/21/1964</i>	97,117
1950	47,900	13,002	12,971	35,581			109,454
1951	54,565	13,443	13,449	42,934			124,391
1952	59,269	13,706	13,995	46,777			133,747
1953	66,055	15,460	15,620	46,738			143,873
1954	72,061	15,348	16,113	50,289			153,811
1955	77,352	15,630	16,571	57,623			167,176
1956	82,643	15,557	16,277	62,167			176,644
1957	82,199	15,465	16,172	62,206			176,042
1958	83,022	14,895	15,694	60,576			174,187
1959	88,731	15,589	16,975	61,929			183,224
1960	91,956	15,175	16,605	60,870			184,606
1961	55,100	15,518	16,657	57,325			144,600
1962	47,532	15,939	17,301	57,949	60,697		199,418
1963	45,352	16,421	17,978	58,657	75,532		213,940
1964	64,573	16,594	18,145	61,152	76,245		236,709
1965	72,053	16,864	18,855	67,090	77,755	48,842	301,459
1966	71,382	17,684	19,745	68,806	80,647	58,720	316,984
1967	73,931	17,448	19,904	70,791	81,237	66,607	329,918
1968	78,773	18,367	21,424	73,232	83,634	77,393	352,823
1969	79,416	17,608	21,406	75,482	85,708	86,114	365,734
1970	81,582	17,908	22,076	81,868	83,734	96,953	384,121
1971	86,573	18,399	22,426	83,804	84,279	106,014	401,495
1972	80,704	16,813	20,956	74,777	89,595	105,898	388,743
1973	81,548	16,783	21,502	75,552	95,326	111,385	402,096
1974	82,699	16,769	19,734	76,673	89,622	109,671	395,168
1975	81,081	15,019	18,715	70,338	87,725	108,572	381,450
1976	82,060	14,281	17,804	67,887	89,520	110,761	382,313
1977	81,992	14,489	16,724	67,590	90,635	113,040	384,470
1978	86,537	13,955	17,750	64,746	89,847	125,799	398,634
1979	90,394	13,690	17,404	63,046	86,315	124,667	395,516
1980	88,346	13,903	16,472	63,219	87,011	130,904	399,855
1981	84,475	11,583	16,510	76,200	91,511	137,695	417,974
1982	90,312	13,072	17,119	74,092	93,867	143,811	432,273
1983	97,945	13,412	18,003	78,885	97,706	140,645	446,596
1984	97,636	14,835	19,749	79,300	90,153	155,892	457,565
1985	109,012	15,279	20,595	83,747	84,517	162,632	475,782
1986	102,567	15,162	19,965	80,703	94,395	162,426	475,218
1987	102,115	14,289	20,512	81,424	93,770	170,319	482,429
1988	98,235	14,989	21,098	83,002	102,333	174,416	494,073
1989	95,762	14,466	19,666	78,877	94,147	172,529	475,447
1990	104,377	14,645	21,489	80,346	91,237	175,948	488,042
1991	99,054	14,925	20,893	81,364	94,377	178,340	488,953
1992	96,830	14,821	21,042	77,125	98,135	183,218	491,171
1993	93,712	14,578	20,137	70,458	101,402	178,416	478,703
1994	104,819	14,442	20,623	71,777	97,471	181,156	490,288
1995	108,185	15,423	20,568	72,012	97,282	184,634	498,104
1996	101,048	14,845	21,212	74,522	97,629	184,557	493,813
1997	93,018	14,221	19,782	76,937	102,094	182,871	488,923
1998	104,125	16,286	19,583	81,913	99,471	194,592	515,970
1999	120,170	16,975	19,904	80,019	90,986	194,623	522,677
2000	117,583	17,962	21,609	79,243	98,357	202,580	537,334
2001	111,764	19,626	19,527	77,631	104,429	218,971	551,948
2002	123,258	20,010	21,684	72,259	104,535	212,491	554,237
2003	113,441	20,233	21,745	74,113	111,092	206,444	547,068
2004	117,591	20,460	21,556	82,810	112,001	205,544	559,962
2005	105,059	19,852	19,456	77,257	114,973	193,687	530,284
2006	110,708	22,036	22,363	81,840	116,427	207,353	560,727
2007	111,739	22,337	21,356	79,019	112,985	201,116	548,552
2008	117,015	21,876	21,357	77,606	114,319	203,507	555,680
2009	112,978	21,762	22,067	78,459	107,324	202,052	544,642
2010	103,366	21,135	22,215	82,189	112,712	204,181	545,798
2011	100,666	20,566	21,812	77,242	111,384	194,758	526,428
2012	105,718	21,595	21,290	78,437	108,858	193,100	528,998
2013	104,511	22,016	22,010	79,006	110,753	192,033	530,329
2014	104,509	21,953	21,217	82,084	112,548	187,438	529,749
2015	109,862	23,393	22,626	84,220	116,658	198,123	554,882
2016	124,337	24,150	21,990	83,053	119,249	202,523	575,302

MTABT Toll Increases January 1972, September 1975, May 1980, April 1982, January 1984, January 1986, February 1987, July 1989, January 1993, March 1996, May 2003, March 2005, March 2008, July 2009, December 2010, March 2013, & March 2015.

Hourly Vehicular Volumes

	Henry Hudson Bridge				Hugh L. Carey Tunnel (Brooklyn-BatteryTunnel)				Queens-Midtown Tunnel				(Triborough Bridge)				Totals	
	S/B	N/B	S/B	N/B	N/B	S/B	W/B	E/B	W/B	E/B	W/B	E/B	W/B	E/B	Entering Manhattan	Leaving Manhattan		
12-1am	112	329		221	607		454	713	483	519					1,270	2,168		
1-2am	57	147		85	288		197	364	213	277					552	1,076		
2-3am	33	64		51	181		111	231	110	182					305	658		
3-4am	63	46		78	135		139	194	146	194					426	569		
4-5am	133	52		249	159		315	429	337	513					1,034	1,153		
5-6am	744	125		832	185		1,174	800	1,450	1,075					4,200	2,185		
6-7am	2,870	434		2,383	388		2,738	1,173	3,756	1,484					11,747	3,479		
7-8am	3,030 **	1,196		2,972 **	633		3,479 **	1,218	4,095 **	1,894					13,576 **	4,941		
8-9am	2,644	1,629		2,711	800		3,120	1,109	3,283	2,202					11,758	5,740		
9-10am	2,148	1,130		2,226	821		2,835	1,107	2,959	2,022					10,168	5,080		
10-11am	1,955	995		1,808	884		2,389	1,229	2,957	1,860					9,109	4,968		
11-12am	1,761	1,017		1,675	972		1,952	1,684	2,770	1,947					8,158	5,620		
12-1pm	1,723	1,080		1,547	1,094		1,814	1,949	2,826	2,058					7,910	6,181		
1-2pm	1,695	1,257		1,480	1,206		1,802	2,174	2,925	2,341					7,902	6,978		
2-3pm	1,998	1,643		1,394	1,401		1,969	2,394	3,311	2,591					8,672	8,029		
3-4pm	2,424	2,235		1,417	1,974		2,055	2,487 **	3,528	2,709					9,424	9,405		
4-5pm	2,448	2,618		1,311	2,275		2,010	2,401	3,334	2,888					9,103	10,182		
5-6pm	2,428	2,809 **		1,193	2,698 **		2,070	2,449	3,266	2,963 **					8,957	10,919 **		
6-7pm	2,264	2,558		1,102	2,535		2,174	2,240	3,166	2,459					8,706	9,792		
7-8pm	1,537	1,976		957	2,056		1,926	2,111	2,755	2,243					7,175	8,386		
8-9pm	1,001	1,513		690	1,438		1,780	2,157	2,271	2,076					5,742	7,184		
9-10pm	761	1,381		603	1,364		1,194	1,301	1,982	1,840					4,540	5,886		
10-11pm	462	1,068		473	1,129		870	1,238	1,740	1,635					3,545	5,070		
11-12pm	230	825		440	955		694	1,057	956	961					2,320	3,798		
Totals	34,521	28,127		27,898	26,178		39,261	34,209	54,619	40,933					156,299	129,447		
7-10am	7,822	3,955		7,909	2,254		9,434	3,434	10,337	6,118					35,502	15,761		
10am-1pm	5,439	3,092		5,030	2,950		6,155	4,862	8,553	5,865					25,177	16,769		
1-4pm	6,117	5,135		4,291	4,581		5,826	7,055	9,764	7,641					25,998	24,412		
4-7pm	7,140	7,985		3,606	7,508		6,254	7,090	9,766	8,310					26,766	30,893		
7am-7pm	26,518	20,167		20,836	17,293		27,669	22,441	38,420	27,934					113,443	87,835		
6-10am	10,692	4,389		10,292	2,642		12,172	4,607	14,093	7,602					47,249	19,240		
3-7pm	9,564	10,220		5,023	9,482		8,309	9,577	13,294	11,019					36,190	40,298		
6am-7pm	29,388	20,601		23,219	17,681		30,407	23,614	42,176	29,418					125,190	91,314		

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Hourly Vehicular Volumes
Metropolitan Transportation Authority Bridges & Tunnels
2016

	Cross Bay				Marine Parkway				Robert F. Kennedy				Verrazano-Narrows			
	Bronx-Whitestone Bridge		Veterans Memorial Bridge		Gil Hodges Memorial Bridge		Bronx Plaza		Throgs Neck Bridge		Throgs Neck Bridge		E/B		W/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	E/B		E/B	W/B
12-1am	922	838	97	265	41	115	799	474	572	776	2,709	1,444	2,739		1,740	
1-2am	580	510	60	140	32	53	423	311	376	505	4,588	2,806	1,420		983	
2-3am	394	429	61	83	25	47	287	267	322	397	4,737 **	3,535	772		662	
3-4am	418	515	86	73	24	24	331	397	438	441	853	672	624		562	
4-5am	708	1,080	228	68	76	43	597	748	637	711	2,709	1,444	637		711	
5-6am	1,834	2,436	593	135	366	129	1,066	1,853	1,026		2,709	1,444	1,026		1,521	
6-7am	3,194	4,032	1,051	355	940	340	2,064	3,005 **	3,526		4,588	2,806	3,526		2,919	
7-8am	4,077	3,387	1,281 **	548	1,495 **	426	2,796 **	2,482	8,662		4,737 **	3,535	8,662		3,796	
8-9am	4,388 **	3,461	906	537	997	444	2,613	2,387	10,078 **		3,907	3,314	10,078 **		4,608	
9-10am	2,920	3,437	659	453	690	394	2,338	2,139	8,209		3,888	2,771	8,209		4,171	
10-11am	2,776	3,192	597	416	553	406	2,351	2,314	6,295		3,157	2,646	6,295		3,863	
11-12am	2,629	3,044	593	471	524	435	2,197	2,122	5,020		2,859	2,654	5,020		3,746	
12-1pm	2,493	3,105	612	500	537	500	1,932	2,136	4,213		2,705	2,731	4,213		4,213	
1-2pm	2,596	3,305	645	570	547	574	1,975	2,193	4,809		2,566	3,019	4,215		4,809	
2-3pm	3,164	4,061	702	775	581	743	2,187	2,471	6,116		2,808	3,831	4,441		6,116	
3-4pm	3,727	4,155	847	924	694	989	2,334	2,749	7,984		2,896	4,784	4,933		7,984	
4-5pm	3,807	4,389 **	701	952 **	676	1,065	2,312	2,874	8,175 **		3,088	4,745	5,901		8,175 **	
5-6pm	3,696	4,124	721	942	610	1,078 **	2,234	2,705	7,801		2,824	4,785 **	6,294		7,801	
6-7pm	3,381	3,930	558	874	519	1,007	1,966	2,617	7,468		2,737	4,460	6,292		7,468	
7-8pm	2,929	3,640	411	759	355	747	1,845	2,303	6,152		2,769	3,926	5,555		6,152	
8-9pm	2,561	2,789	316	620	264	569	1,485	1,666	5,067		2,318	2,810	4,515		5,067	
9-10pm	2,254	2,356	253	480	212	404	1,402	1,419	3,962		1,841	2,138	3,663		3,962	
10-11pm	1,999	2,008	260	431	158	261	1,244	898	3,081		1,349	1,647	3,369		3,081	
11	1,278	1,389	190	351	117	164	1,045	700	2,493		829	1,276	3,300		2,493	
Totals	58,725	65,612	12,428	11,722	11,033	10,957	39,823	43,230	57,136	62,113	57,136	62,113	105,920		96,603	

7-10am	11,385	10,285	2,846	1,538	3,182	1,264	7,747	7,008	12,532	9,620	26,949	12,575
10am-1pm	7,898	9,341	1,802	1,387	1,614	1,341	6,480	6,572	8,721	8,031	15,749	11,822
1-4pm	9,487	11,521	2,194	2,269	1,822	2,306	6,496	7,413	8,270	11,634	13,589	18,909
4-7pm	10,884	12,443	1,980	2,768	1,805	3,150	6,512	8,196	8,649	13,990	18,487	23,444
7am-7pm	39,654	43,590	8,822	7,962	8,423	8,061	27,235	29,189	38,172	43,275	74,774	66,750
6-10am	14,579	14,317	3,897	1,893	4,122	1,604	9,811	10,013	17,120	12,426	30,475	15,494
3-7pm	14,611	16,598	2,827	3,692	2,499	4,139	8,846	10,945	11,545	18,774	23,420	31,428
6am-7pm	42,848	47,622	9,873	8,317	9,363	8,401	29,299	32,194	42,760	46,081	78,300	69,669

** Peak Volumes

Hugh L. Carey Tunnel - 2016

Northbound to Manhattan

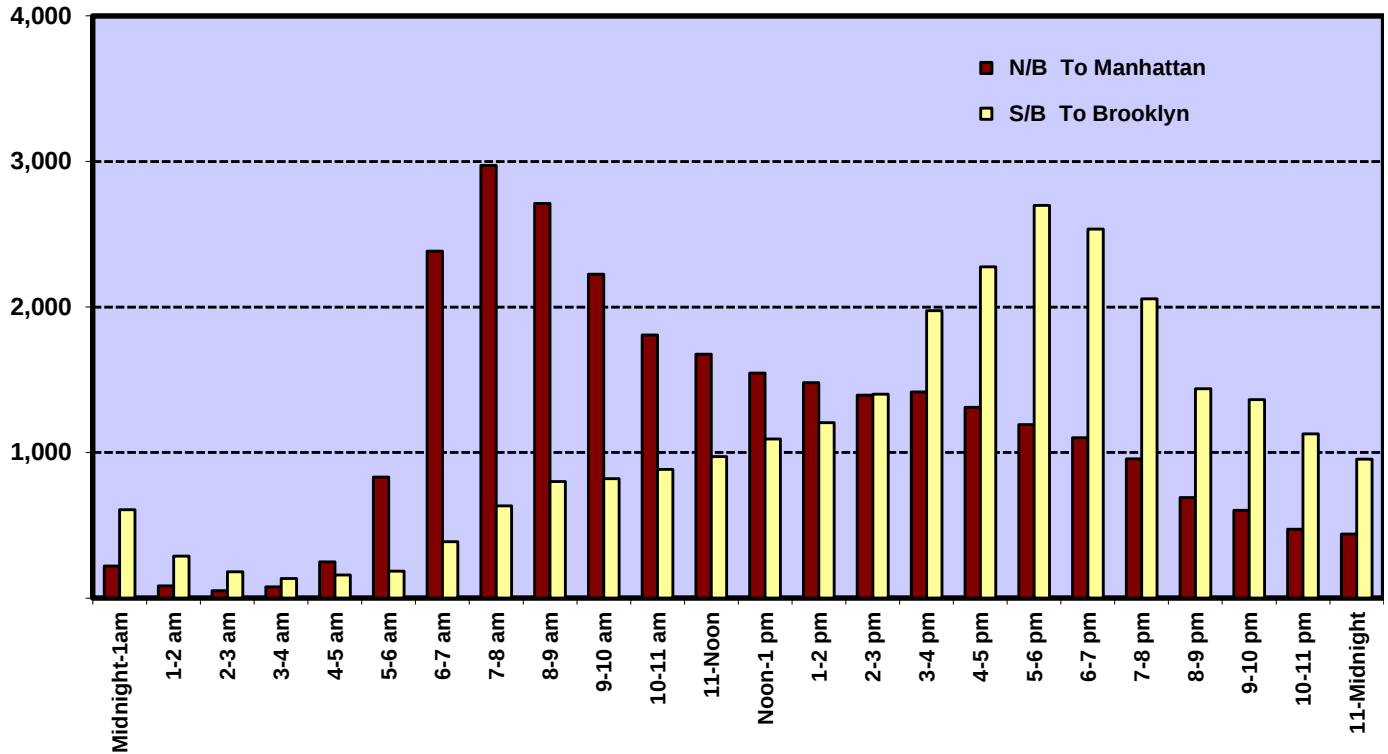
Southbound to Brooklyn

FHWA Classes ▶	Commuter Vans										Tractor Trailers				2-Way Grand Totals
	Autos & Motorcycles					Commercial Vans					Single Unit Trucks		Total Vehicles		
	1 & 2	3	4	5 - 7	8 - 13	Tractor Trailers	Total Vehicles	Autos & Motorcycles	Commercial Vans	Large SUVs	Pickups	Buses	4	5 - 7	
12-1am	190	7	12	12	0	0	221	553	12	36	6	0	607	828	
1-2am	74	4	6	1	0	0	85	275	0	12	1	0	288	373	
2-3am	46	0	3	2	0	0	51	173	2	4	2	0	181	232	
3-4am	66	1	8	3	0	0	78	132	0	0	3	0	135	213	
4-5am	161	9	61	18	0	0	249	147	0	9	3	0	159	408	
5-6am	749	8	67	8	0	0	832	164	2	13	6	0	185	1,017	
6-7am	2,127	15	214	27	0	0	2,383	289	6	81	12	0	388	2,771	
7-8am	2,608	16	308	40	0	0	2,972	456	7	153	17	0	633	3,605	
8-9am	2,370	14	295	32	0	0	2,711	585	6	190	19	0	800	3,511	
9-10am	2,032	16	145	33	0	0	2,226	629	8	161	23	0	821	3,047	
10-11am	1,645	22	92	48	1	1	1,808	772	10	83	18	1	884	2,692	
11-12am	1,552	15	69	38	1	1	1,675	877	9	66	20	0	972	2,647	
12-1pm	1,422	16	75	33	1	1	1,547	1,007	12	55	20	0	1,094	2,641	
1-2pm	1,338	13	91	38	0	0	1,480	1,088	13	78	27	0	1,206	2,686	
2-3pm	1,253	10	106	25	0	0	1,394	1,282	14	80	25	0	1,401	2,795	
3-4pm	1,266	5	134	12	0	0	1,417	1,800	13	137	24	0	1,974	3,391	
4-5pm	1,143	4	154	9	1	1	1,311	2,063	7	186	19	0	2,275	3,586	
5-6pm	1,063	2	120	6	2	2	1,193	2,399	7	276	15	1	2,698	3,891	**
6-7pm	1,023	3	69	6	1	1	1,102	2,329	6	188	11	1	2,535	3,637	
7-8pm	909	1	44	3	0	0	957	1,938	5	105	8	0	2,056	3,013	
8-9pm	655	4	26	5	0	0	690	1,343	7	80	8	0	1,438	2,128	
9-10pm	573	1	27	2	0	0	603	1,289	4	57	14	0	1,364	1,967	
10-11pm	448	1	21	3	0	0	473	1,084	5	31	9	0	1,129	1,602	
11-12pm	389	0	37	14	0	0	440	902	7	37	9	0	955	1,395	
Totals	25,102	187	2,184	418	7	7	27,898	23,576	162	2,118	319	3	26,178	54,076	
7-10am	7,010	46	748	105	0	0	7,909	1,670	21	504	59	0	2,254	10,163	
10am-1pm	4,619	53	236	119	3	3	5,030	2,656	31	204	58	1	2,950	7,980	
1-4pm	3,857	28	331	75	0	0	4,291	4,170	40	295	76	0	4,581	8,872	
4-7pm	3,229	9	343	21	4	4	3,606	6,791	20	650	45	2	7,508	11,114	
7am-7pm	18,715	136	1,658	320	7	7	20,836	15,287	112	1,653	238	3	17,293	38,129	
6-10am	9,137	61	962	132	0	0	10,292	1,959	27	585	71	0	2,642	12,934	
3-7pm	4,495	14	477	33	4	4	5,023	8,591	33	787	69	2	9,482	14,505	
7am-7pm	20,842	151	1,872	347	7	7	23,219	15,576	118	1,734	250	3	17,681	40,900	

Based on May 2006 Classification Survey Data.

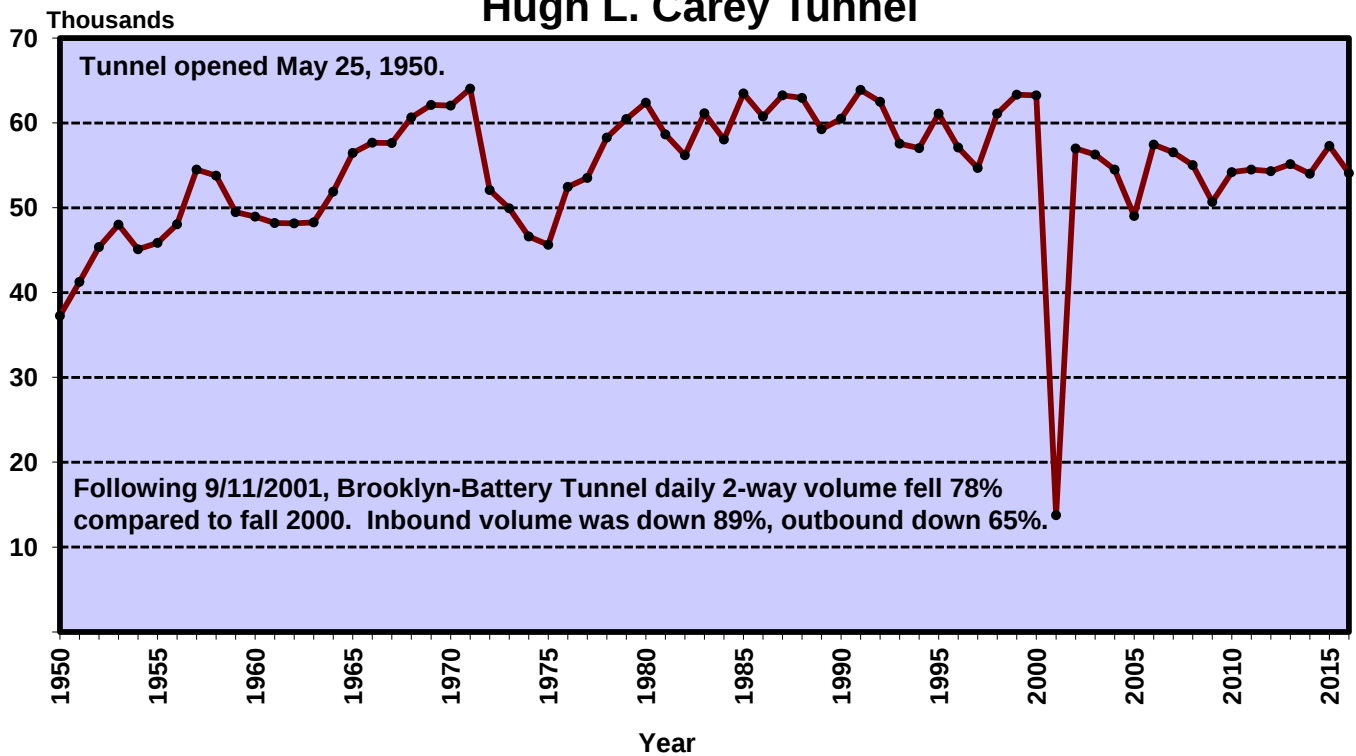
** Peak Volumes

Hourly Vehicular Volumes Hugh L. Carey Tunnel ~ 2016



Formerly Brooklyn-Battery Tunnel; officially renamed Hugh L. Carey Tunnel October 22, 2012.

Average Daily Traffic Volumes ~ Total of Both Directions Hugh L. Carey Tunnel



Hourly Vehicular Volumes

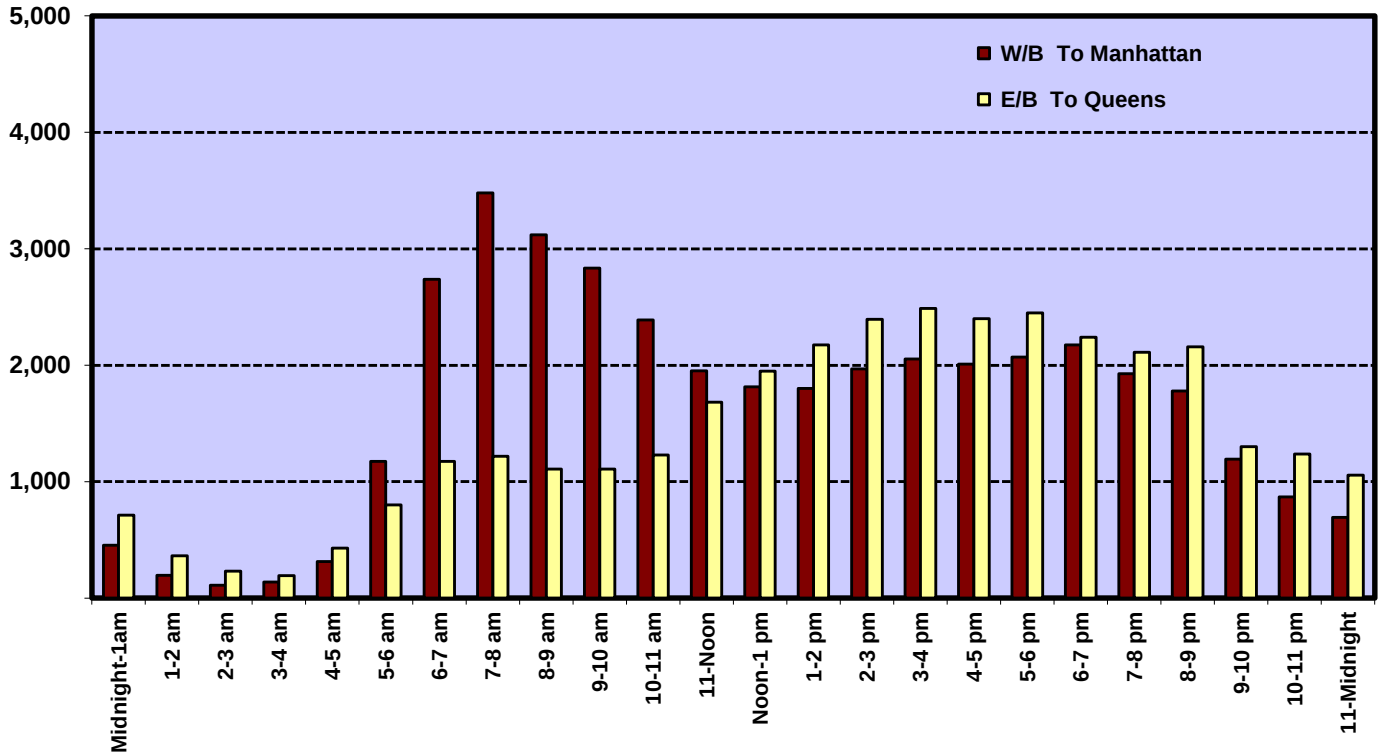
Queens-Midtown Tunnel - 2016

Westbound to Manhattan										Eastbound to Queens										2-Way Grand Totals
FHWA Classes ▶	Commuter Vans					Single Unit Trucks	Tractor Trailers	Total Vehicles	Commuter Vans					Single Unit Trucks	Tractor Trailers	Total Vehicles				
	Autos & Motorcycles		Commercial Vans Pickups		Buses				Autos & Motorcycles		Commercial Vans Pickups		Buses							
	1 & 2	3	4	5 - 7					8 - 13	1 & 2	3	4					5 - 7	8 - 13		
12-1am	439	2	3	10	0	454			687	7	1	18	0	713		1,167				
1-2am	188	2	0	7	0	197			346	4	0	14	0	364		561				
2-3am	103	1	1	6	0	111			216	5	0	10	0	231		342				
3-4am	125	1	3	10	0	139			173	9	0	12	0	194		333				
4-5am	253	6	17	39	0	315			352	30	4	41	2	429		744				
5-6am	1,023	12	58	81	0	1,174			714	20	12	54	0	800		1,974				
6-7am	2,339	96	173	130	0	2,738			1,062	32	46	33	0	1,173		3,911				
7-8am	2,999	123	220	136	1	3,479	**		1,083	46	58	31	0	1,218		4,697				
8-9am	2,805	88	110	117	0	3,120			968	36	67	38	0	1,109		4,229				
9-10am	2,555	72	128	77	3	2,835			971	42	56	38	0	1,107		3,942				
10-11am	2,169	66	80	72	2	2,389			1,066	50	59	54	0	1,229		3,618				
11-12am	1,810	48	46	48	0	1,952			1,496	57	72	59	0	1,684		3,636				
12-1pm	1,683	28	41	62	0	1,814			1,746	62	54	87	0	1,949		3,763				
1-2pm	1,643	51	54	54	0	1,802			1,931	99	55	89	0	2,174		3,976				
2-3pm	1,788	47	90	44	0	1,969			2,220	68	41	65	0	2,394	**	4,363				
3-4pm	1,827	42	134	52	0	2,055			2,300	56	57	74	0	2,487		4,542				
4-5pm	1,836	25	123	26	0	2,010			2,214	66	56	65	0	2,401		4,411				
5-6pm	1,945	13	95	17	0	2,070			2,310	39	63	37	0	2,449		4,519				
6-7pm	2,078	15	61	20	0	2,174			2,129	27	51	33	0	2,240		4,414				
7-8pm	1,856	12	44	14	0	1,926			2,013	21	57	20	0	2,111		4,037				
8-9pm	1,692	23	32	33	0	1,780			2,050	25	40	42	0	2,157		3,937				
9-10pm	1,148	11	14	21	0	1,194			1,248	13	14	26	0	1,301		2,495				
10-11pm	833	6	9	22	0	870			1,193	13	7	25	0	1,238		2,108				
11-12pm	673	6	3	12	0	694			1,029	3	3	22	0	1,057		1,751				
Totals	35,810	796	1,539	1,110	6	39,261			31,517	830	873	987	2	34,209		73,470				
7-10am	8,359	283	458	330	4	9,434			3,022	124	181	107	0	3,434		12,868				
10am-1pm	5,662	142	167	182	2	6,155			4,308	169	185	200	0	4,862		11,017				
1-4pm	5,258	140	278	150	0	5,826			6,451	223	153	228	0	7,055		12,881				
4-7pm	5,859	53	279	63	0	6,254			6,653	132	170	135	0	7,090		13,344				
7am-7pm	25,138	618	1,182	725	6	27,669			20,434	648	689	670	0	22,441		50,110				
6-10am	10,698	379	631	460	4	12,172			4,084	156	227	140	0	4,607		16,779				
3-7pm	7,686	95	413	115	0	8,309			8,953	188	227	209	0	9,577		17,886				
7am-7pm	27,477	714	1,355	855	6	30,407			21,496	680	735	703	0	23,614		54,021				

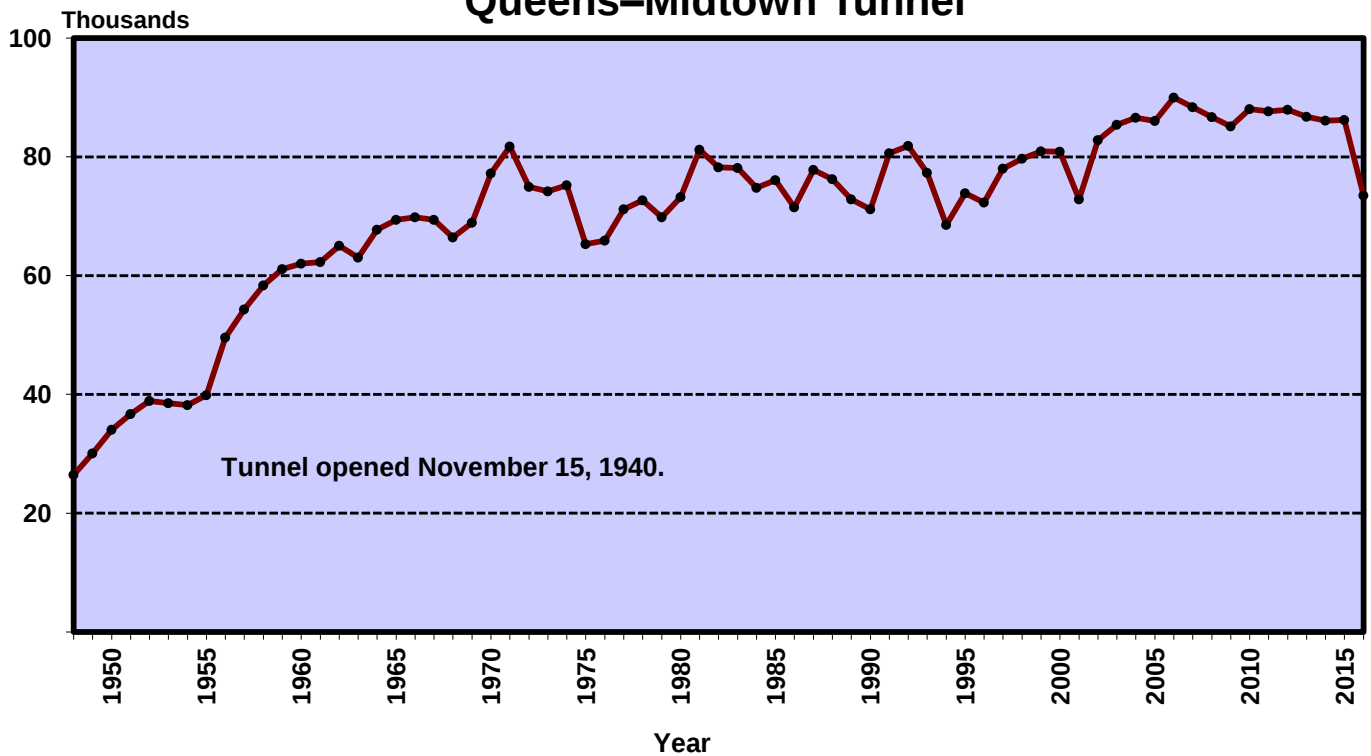
Based on May 2006 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Queens-Midtown Tunnel ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Queens-Midtown Tunnel

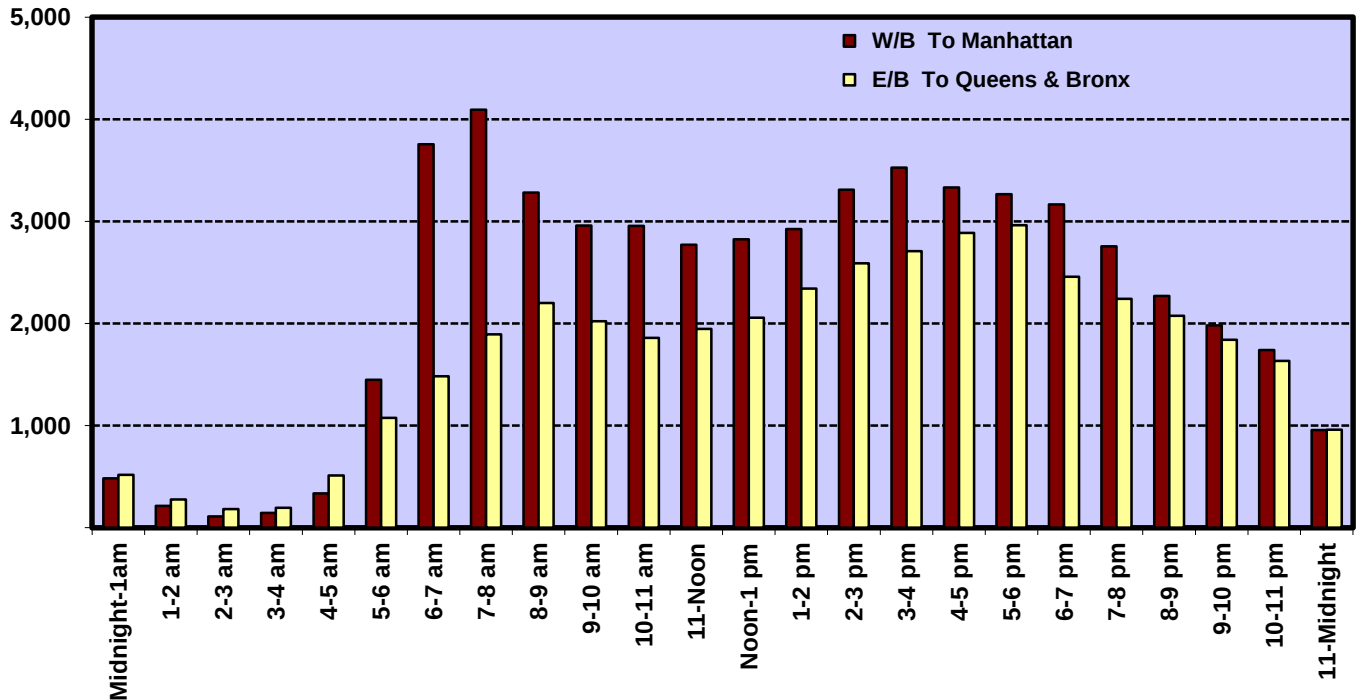


Hourly Vehicular Volumes

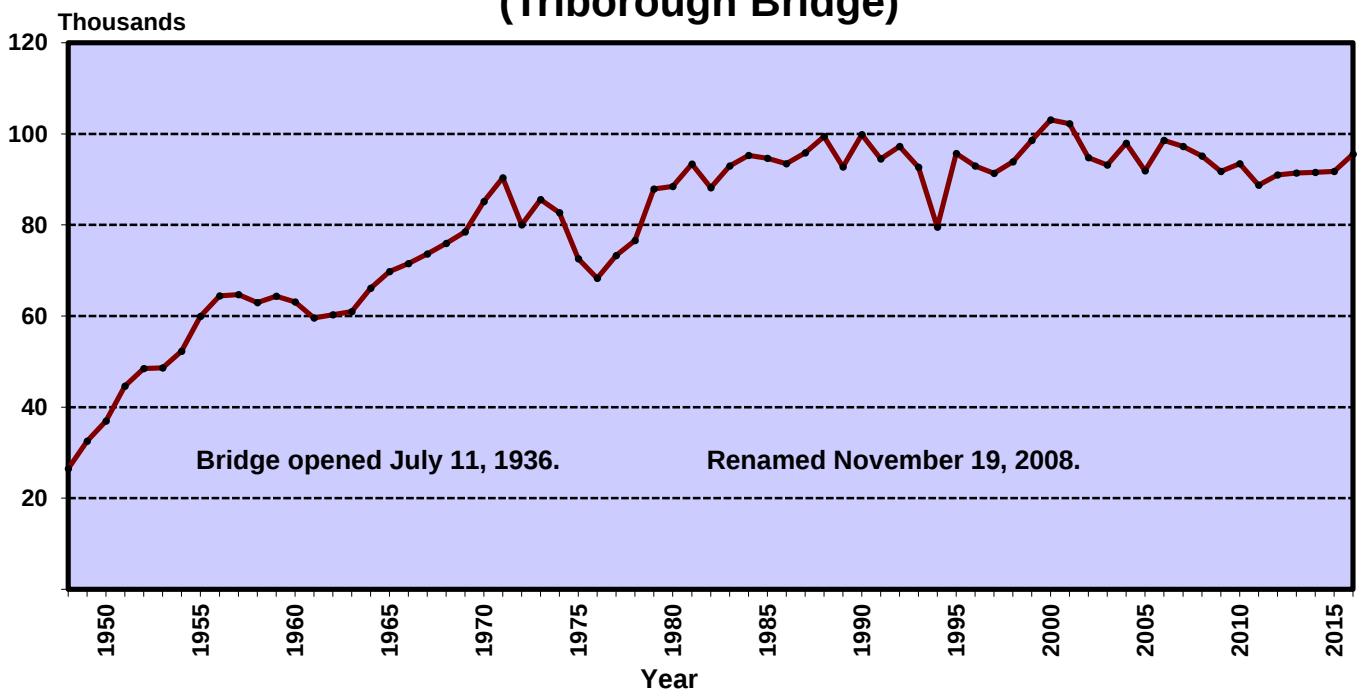
Westbound to Manhattan

Peak Volumes

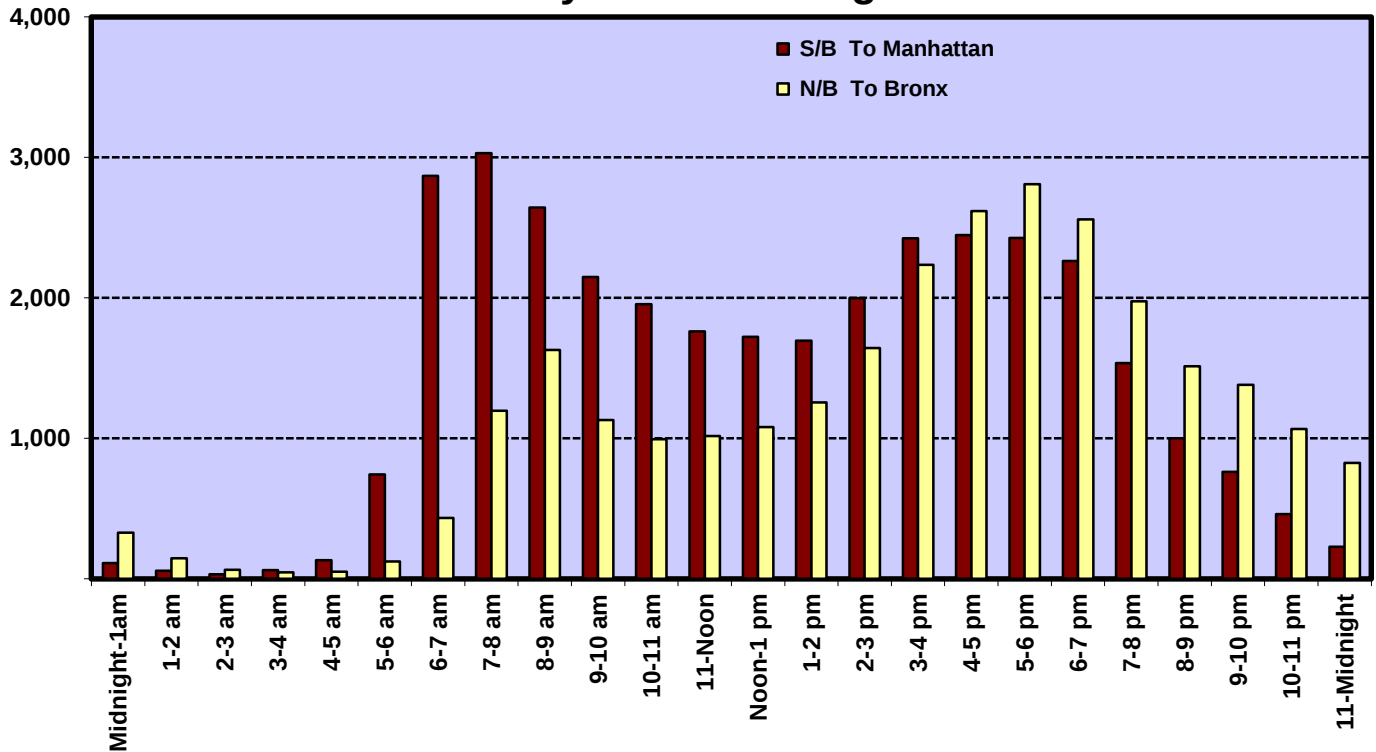
Hourly Vehicular Volumes Robert F. Kennedy Memorial Bridge, Manhattan Plaza ~ 2016 (Triborough Bridge)



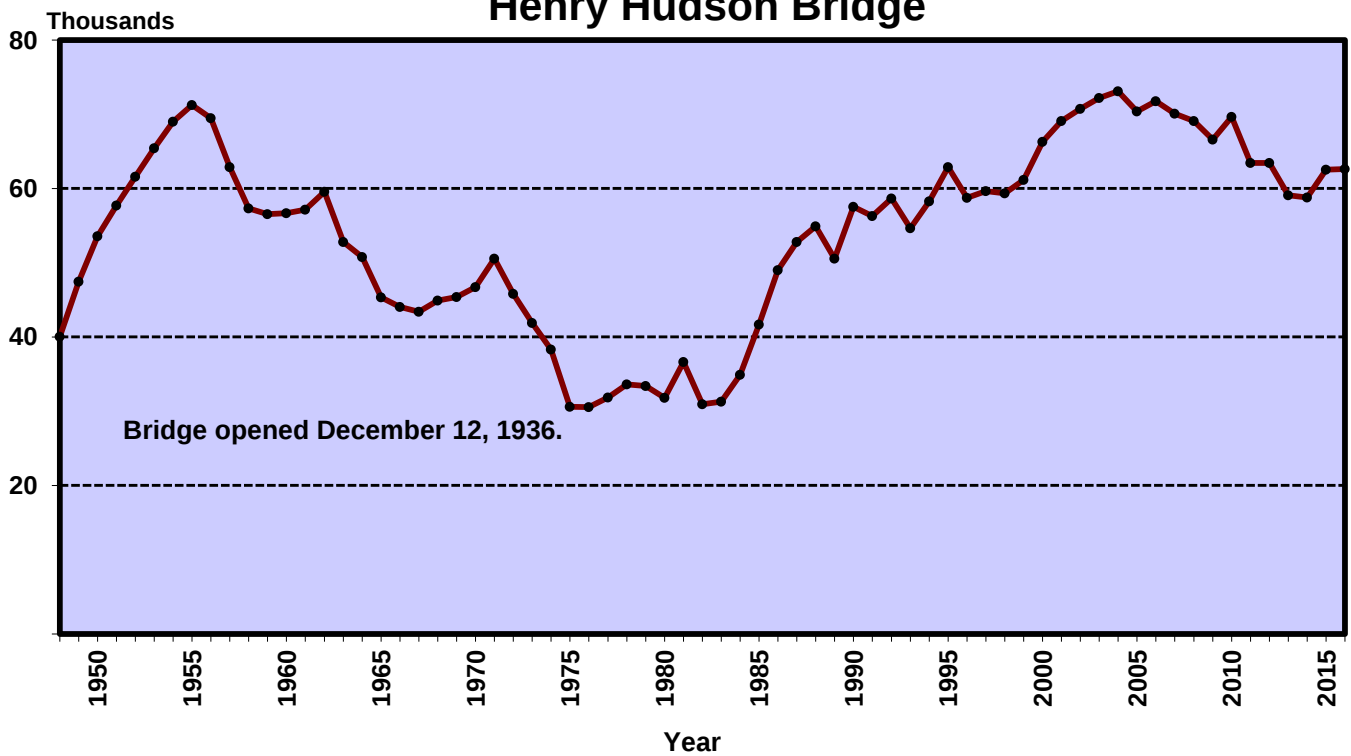
Average Daily Traffic Volumes ~ Total of Both Directions Robert F. Kennedy Memorial Bridge, Manhattan Plaza (Triborough Bridge)



Hourly Vehicular Volumes Henry Hudson Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Henry Hudson Bridge



Hourly Vehicular Volumes

Bronx-Whitestone Bridge - 2016

Northbound to Bronx

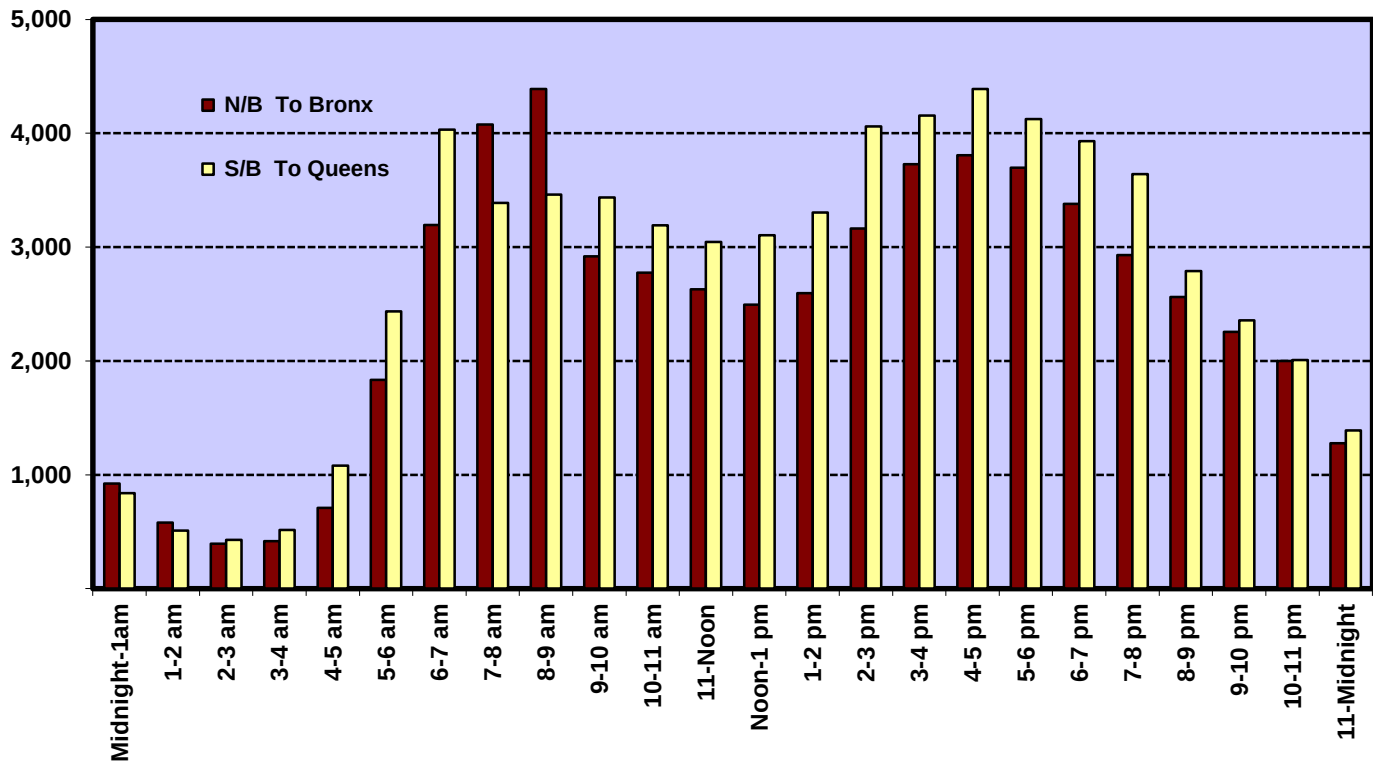
FHWA Classes ▲	Commercial Vans, Panel Trucks, Pickups,							Commercial Vans, Panel Trucks, Pickups,							Total Vehicles
	Autos, Motorcycles			Autos, Motorcycles				Autos, Motorcycles			Autos, Motorcycles				
	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13	Total Vehicles	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13		
12-1am	697	80	26	7	50	62	922	688	44	29	12	12	53	838	
1-2am	394	51	30	4	36	65	580	404	24	15	6	14	47	510	
2-3am	201	46	24	5	54	64	394	279	17	16	2	34	81	429	
3-4am	218	35	22	4	73	66	418	338	26	26	6	36	83	515	
4-5am	423	69	36	7	104	69	708	806	48	69	7	56	94	1,080	
5-6am	1,315	166	85	37	134	97	1,834	1,924	85	151	33	81	162	2,436	
6-7am	2,470	160	252	67	173	72	3,194	3,065	188	345	71	193	170	4,032	
7-8am	3,252	192	300	82	164	87	4,077	2,710	142	254	47	115	119	3,387	
8-9am	3,576	116	392	39	156	109	4,388	2,838	144	227	24	159	69	3,461	
9-10am	2,285	99	265	30	160	81	2,920	2,716	150	230	39	181	121	3,437	
10-11am	2,088	81	335	29	120	123	2,776	2,482	130	218	33	194	135	3,192	
11-12am	1,972	75	244	24	164	150	2,629	2,307	129	267	15	202	124	3,044	
12-1pm	1,849	95	232	36	136	145	2,493	2,446	121	263	14	158	103	3,105	
1-2pm	1,994	84	216	28	150	124	2,596	2,560	130	294	28	197	96	3,305	
2-3pm	2,422	137	334	42	133	96	3,164	3,206	204	291	55	228	77	4,061	
3-4pm	2,929	165	333	67	136	97	3,727	3,266	211	350	91	164	73	4,155	
4-5pm	3,021	193	297	81	111	104	3,807	3,648	171	309	53	137	71	4,389	
5-6pm	2,935	204	342	40	97	78	3,696	3,390	204	338	27	103	62	4,124	
6-7pm	2,864	197	185	28	47	60	3,381	3,323	213	274	20	59	41	3,930	
7-8pm	2,568	157	104	26	22	52	2,929	3,061	196	253	26	51	53	3,640	
8-9pm	2,217	143	73	22	50	56	2,561	2,391	147	144	18	24	65	2,789	
9-10pm	1,950	142	60	20	32	50	2,254	2,036	110	94	21	41	54	2,356	
10-11pm	1,680	133	70	13	36	67	1,999	1,726	121	74	20	18	49	2,008	
11-12pm	1,022	121	35	12	35	53	1,278	1,173	76	56	17	11	56	1,389	
Totals	46,342	2,941	4,292	750	2,373	2,027	58,725	52,783	3,031	4,587	685	2,468	2,058	65,612	

7-10am	9,113	407	957	151	480	277	11,385	8,264	436	711	110	455	309	10,285	21,670
10am-1pm	5,909	251	811	89	420	418	7,898	7,235	380	748	62	554	362	9,341	17,239
1-4pm	7,345	386	883	137	419	317	9,487	9,032	545	935	174	589	246	11,521	21,008
4-7pm	8,820	594	824	149	255	242	10,884	10,361	588	921	100	299	174	12,443	23,327
7am-7pm	31,187	1,638	3,475	526	1,574	1,254	39,654	34,892	1,949	3,315	446	1,897	1,091	43,590	83,244
6-10am	11,583	567	1,209	218	653	349	14,579	11,329	624	1,056	181	648	479	14,317	28,896
3-7pm	11,749	759	1,157	216	391	339	14,611	13,627	799	1,271	191	463	247	16,598	31,209
6am-7pm	33,657	1,798	3,727	593	1,747	1,326	42,848	37,957	2,137	3,660	517	2,090	1,261	47,622	90,470

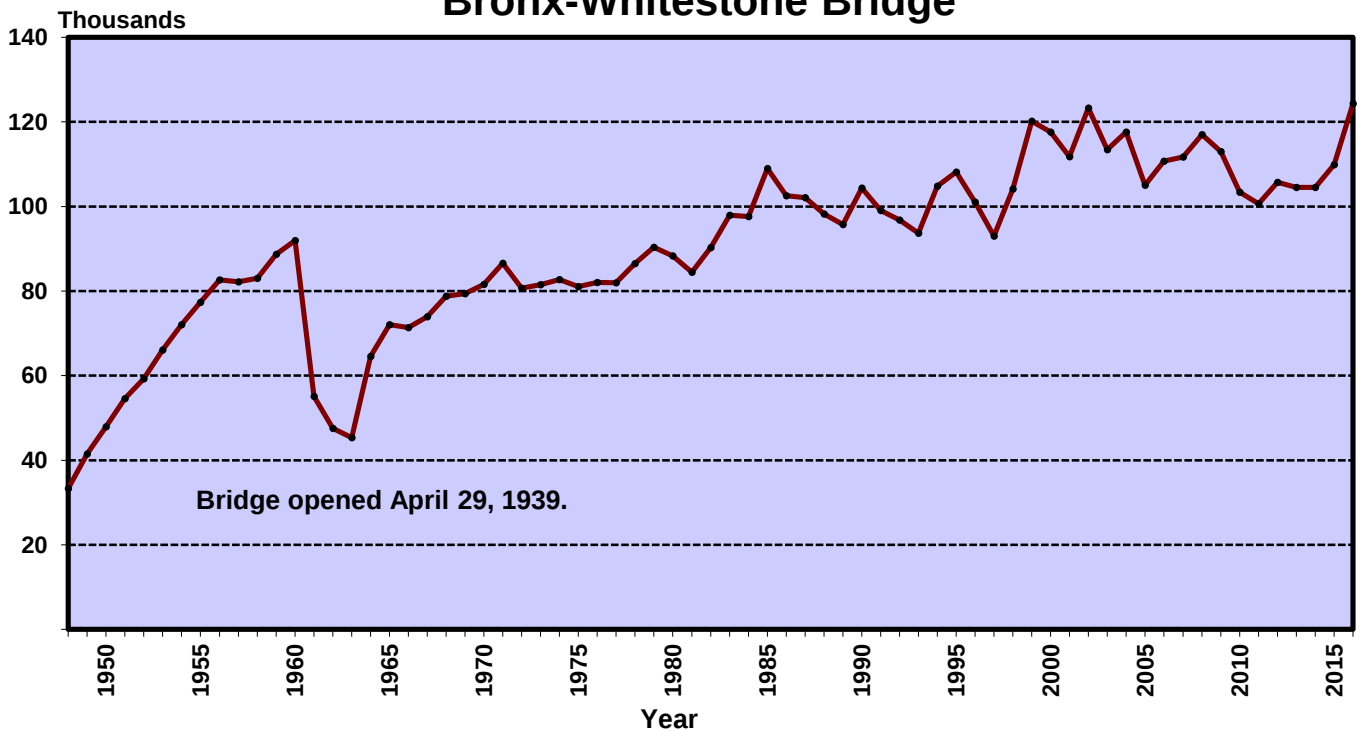
Based on November 2013 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Bronx-Whitestone Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Bronx-Whitestone Bridge



Hourly Vehicular Volumes

Robert F. Kennedy Memorial Bridge Bronx Plaza - 2016

Northbound to Bronx

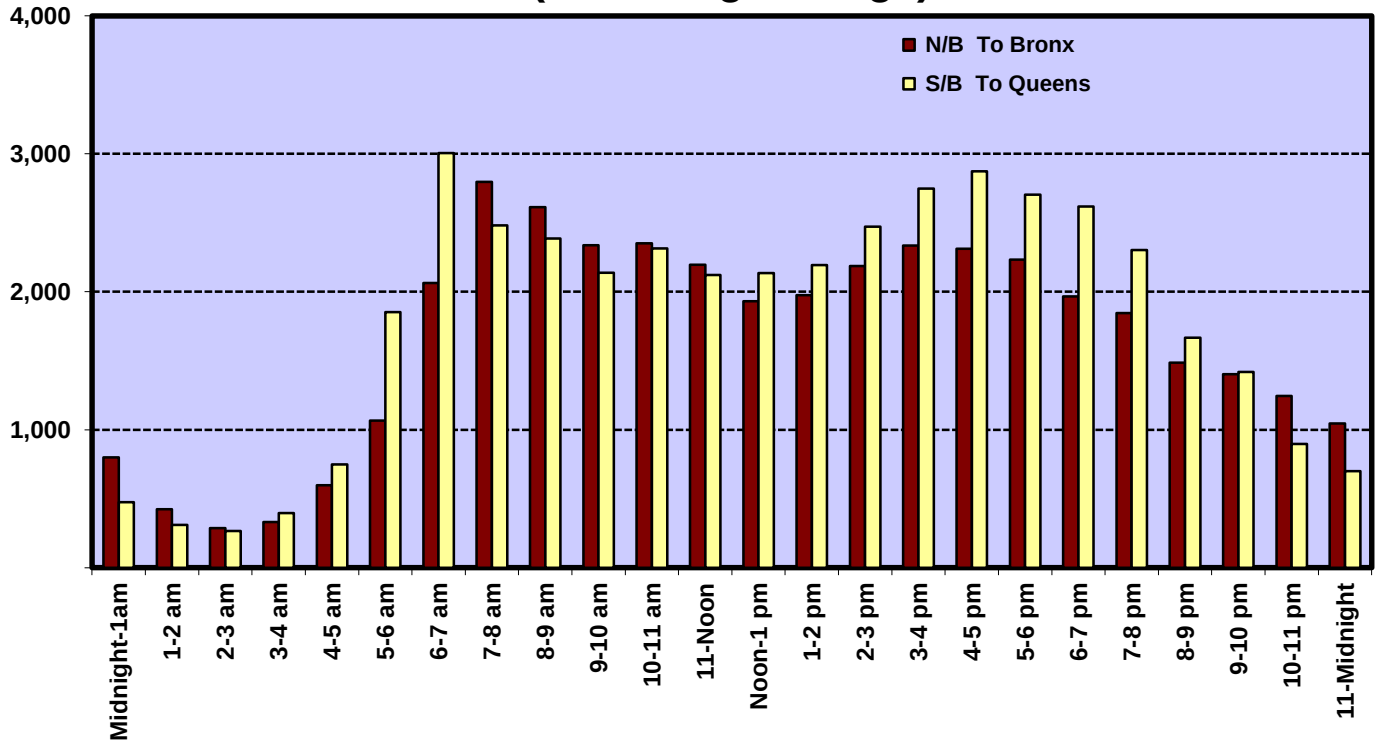
FHWA Classes ▲	Commercial Vans, Panel Trucks, Pickups, Police, Fleet							Autos, Motorcycles SUVs, Family Vans							Commercial Vans, Panel Trucks, Pickups, Police, Fleet							Total Vehicles
	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13	Total Vehicles	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13	Multiple Unit Trucks		
12-1am	528	212	16	7	25	11	799	402	18	11	4	30	9									
1-2am	304	75	6	4	20	14	423	223	16	6	3	55	8									
2-3am	197	23	21	2	25	19	287	195	14	6	2	36	14									
3-4am	239	18	16	1	30	27	331	283	20	23	2	47	22									
4-5am	460	47	22	6	30	32	597	526	116	14	6	58	28									
5-6am	855	69	36	10	61	35	1,066	1,327	211	55	15	144	101									
6-7am	1,651	118	108	36	90	61	2,064	2,103	353	97	53	304	95									
7-8am	2,134	211	186	68	123	74	2,796	1,767	239	155	57	192	72									
8-9am	1,889	225	207	47	164	81	2,613	1,767	239	161	37	158	27									
9-10am	1,641	282	165	30	137	83	2,338	1,602	176	138	20	151	52									
10-11am	1,535	401	153	30	136	96	2,351	1,648	195	152	27	226	66									
11-12am	1,494	366	113	26	111	87	2,197	1,444	226	152	13	221	66									
12-1pm	1,283	305	103	30	126	85	1,932	1,517	228	142	14	194	41									
1-2pm	1,338	256	146	29	122	84	1,975	1,513	266	153	16	201	44									
2-3pm	1,538	337	121	33	95	63	2,187	1,741	308	154	32	200	36									
3-4pm	1,690	365	118	35	80	46	2,334	1,981	297	203	41	203	24									
4-5pm	1,679	346	139	37	77	34	2,312	2,125	281	219	52	176	21									
5-6pm	1,692	337	90	30	58	27	2,234	2,218	192	148	19	111	17									
6-7pm	1,569	284	51	15	33	14	1,966	2,158	179	130	25	102	23									
7-8pm	1,466	284	30	22	26	17	1,845	1,931	114	116	33	81	28									
8-9pm	1,202	207	29	12	22	13	1,485	1,405	102	64	21	34	40									
9-10pm	1,101	248	14	15	13	11	1,402	1,209	107	40	16	30	17									
10-11pm	861	332	13	8	15	15	1,244	769	62	17	6	37	7									
11-12pm	643	345	15	8	16	18	1,045	604	37	21	6	24	8									
Totals	28,989	5,693	1,918	541	1,635	1,047	39,823	32,493	3,959	2,377	520	3,015	866									

7-10am	5,664	718	558	145	424	238	7,747	5,171	617	454	114	501	151	7,008												
10am-1pm	4,312	1,072	369	86	373	268	6,440	4,609	649	446	54	641	173	6,572												
1-4pm	4,566	958	385	97	297	193	6,496	5,235	871	510	89	604	104	7,413												
4-7pm	4,940	967	280	82	168	75	6,512	6,501	652	497	96	389	61	8,196												
7am-7pm	19,482	3,715	1,592	410	1,262	774	27,235	21,516	2,789	1,907	353	2,135	489	29,189												
6-10am	7,315	836	666	181	514	299	9,811	7,274	970	551	167	805	246	10,013												
3-7pm	6,630	1,332	398	117	248	121	8,846	8,482	949	700	137	592	85	10,945												
6am-7pm	21,133	3,833	1,700	446	1,352	835	29,299	23,619	3,142	2,004	406	2,439	584	32,194												
Totals	14,755							14,755																		
10am-1pm	13,052							13,052																		
1-4pm	13,909							13,909																		
4-7pm	14,708							14,708																		
7am-7pm	56,424							56,424																		
6-10am	19,824							19,824																		
3-7pm	19,791							19,791																		
6am-7pm	61,493							61,493																		

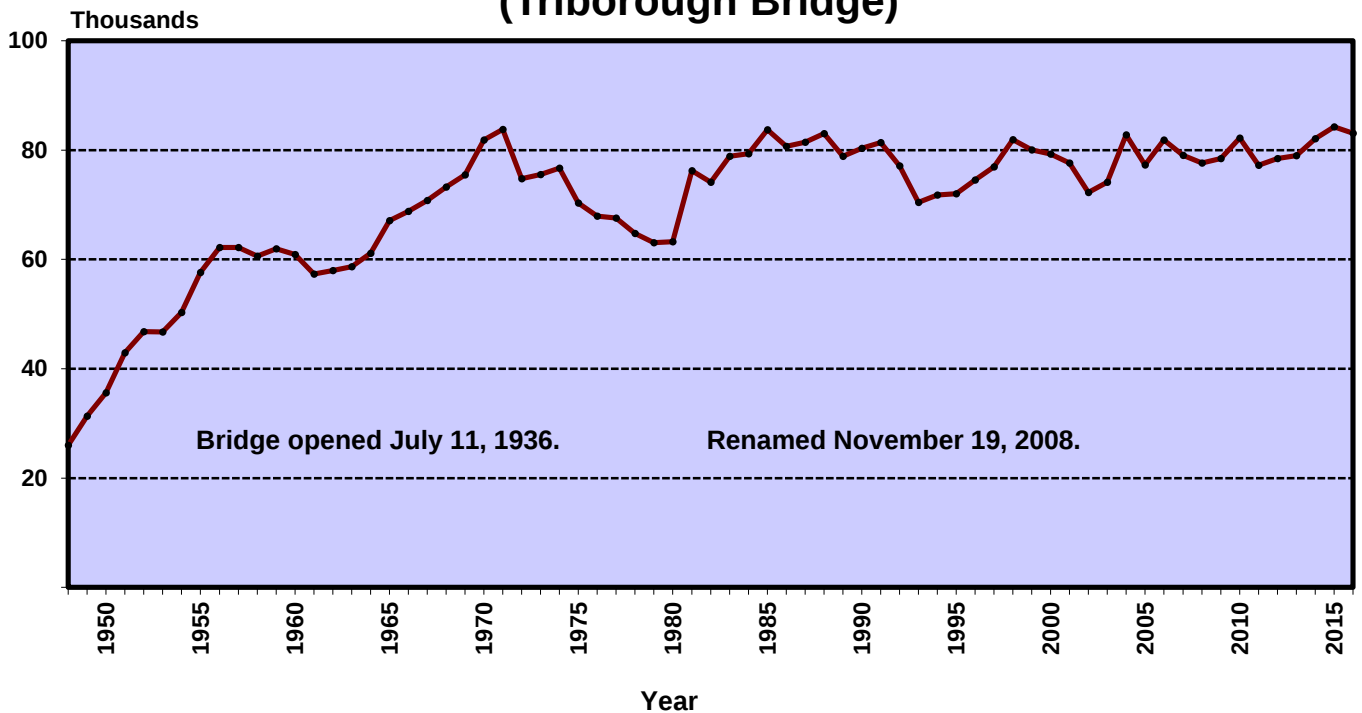
Based on October 2013 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Robert F. Kennedy Memorial Bridge, Bronx Plaza ~ 2016 (Triborough Bridge)



Average Daily Traffic Volumes ~ Total of Both Directions Robert F. Kennedy Memorial Bridge, Bronx Plaza (Triborough Bridge)



Hourly Vehicular Volumes Throgs Neck Bridge - 2016

Northbound to Bronx

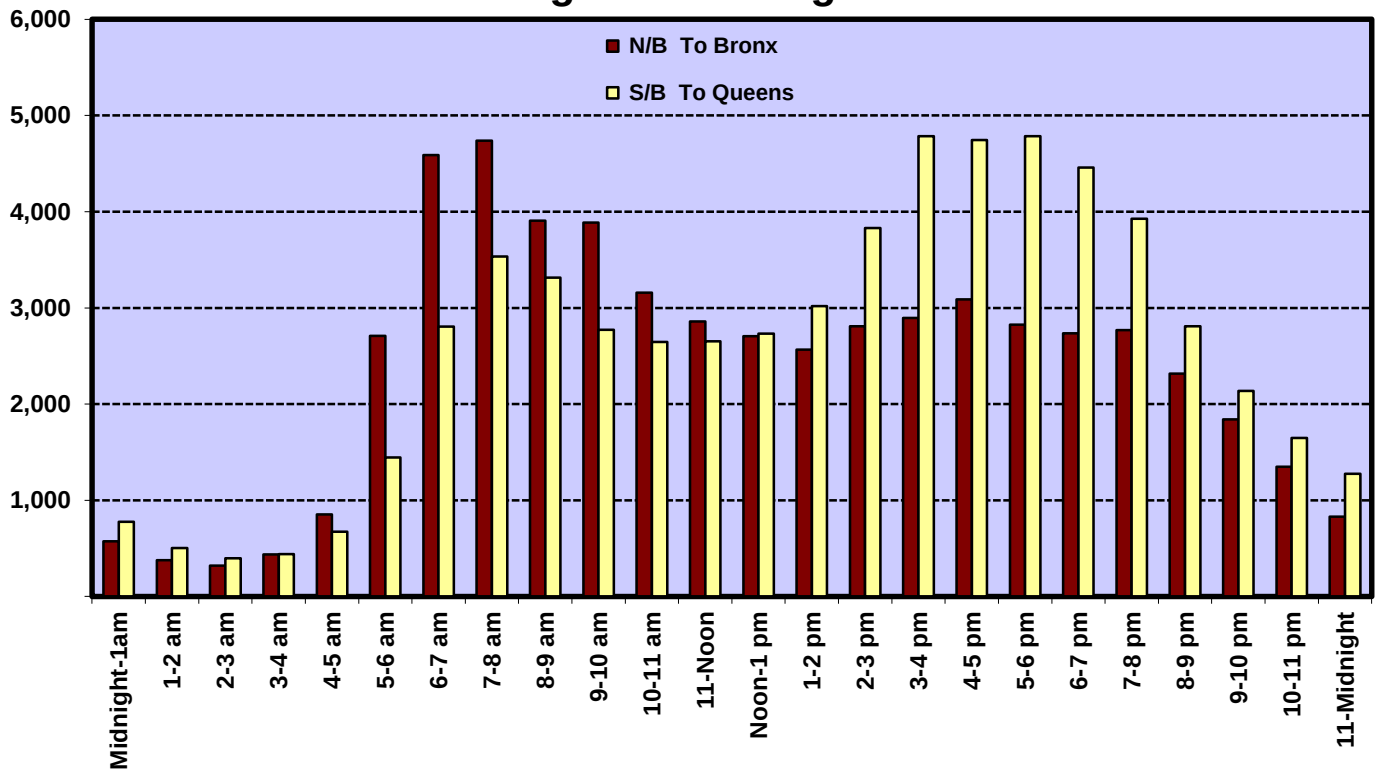
Southbound to Queens

FHWA Classes ▶	Commercial Vans, Panel Trucks, Pickups,							Commercial Vans, Panel Trucks, Pickups,							2-way Grand Totals					
	Autos, Motorcycles SUVs, Family Vans			Taxis, Liveries, Limos			Autos, Motorcycles SUVs, Family Vans			Taxis, Liveries, Limos			Single Unit Trucks			Multiple Unit Trucks				
	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13	Total Vehicles	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13	Total Vehicles
12-1am	355	57	32	0	33	95	572	588	45	6	1	13	123	588	45	6	1	13	123	776
1-2am	198	25	30	0	25	98	376	313	29	11	1	34	117	313	29	11	1	34	117	505
2-3am	136	26	23	0	23	114	322	202	18	14	0	40	123	202	18	14	0	40	123	397
3-4am	189	29	33	0	60	127	438	204	25	15	1	43	153	204	25	15	1	43	153	441
4-5am	461	50	72	1	76	193	853	287	25	16	0	93	251	287	25	16	0	93	251	672
5-6am	2,013	104	178	2	165	247	2,709	758	39	50	6	194	397	758	39	50	6	194	397	1,444
6-7am	3,684	106	360	16	220	202	4,588	1,965	47	168	14	229	383	1,965	47	168	14	229	383	2,806
7-8am	4,037	38	316	42	158	146	4,737	2,891	28	182	29	199	206	2,891	28	182	29	199	206	3,535
8-9am	3,229	48	247	30	153	200	3,907	2,720	50	161	27	174	182	2,720	50	161	27	174	182	3,314
9-10am	3,158	40	230	44	156	260	3,888	2,148	30	170	17	186	220	2,148	30	170	17	186	220	2,771
10-11am	2,287	37	220	18	190	405	3,157	1,951	18	186	27	180	284	1,951	18	186	27	180	284	2,646
11-12am	2,136	32	148	9	176	358	2,859	1,978	14	172	8	194	288	1,978	14	172	8	194	288	2,654
12-1pm	2,005	33	159	21	171	316	2,705	2,028	25	252	15	207	204	2,028	25	252	15	207	204	2,731
1-2pm	1,866	46	166	23	174	291	2,566	2,260	18	306	46	201	188	2,260	18	306	46	201	188	3,019
2-3pm	2,154	53	156	13	177	255	2,808	3,079	28	313	27	205	179	3,079	28	313	27	205	179	3,831
3-4pm	2,319	50	159	26	163	179	2,896	4,115	32	312	44	166	115	4,115	32	312	44	166	115	4,784
4-5pm	2,574	85	147	18	123	141	3,088	4,156	29	298	18	146	98	4,156	29	298	18	146	98	4,745
5-6pm	2,432	75	122	11	83	101	2,824	4,317	48	211	12	113	84	4,317	48	211	12	113	84	4,785
6-7pm	2,374	61	117	7	64	114	2,737	4,033	53	172	11	101	90	4,033	53	172	11	101	90	4,460
7-8pm	2,356	79	131	5	62	136	2,769	3,515	54	144	8	80	125	3,515	54	144	8	80	125	3,926
8-9pm	1,950	72	109	4	45	138	2,318	2,523	39	87	6	41	114	2,523	39	87	6	41	114	2,810
9-10pm	1,568	57	53	0	26	137	1,841	1,854	43	80	1	29	131	1,854	43	80	1	29	131	2,138
10-11pm	1,077	44	46	4	19	159	1,349	1,481	46	60	3	20	37	1,481	46	60	3	20	37	1,647
11-12pm	664	36	31	0	14	84	829	1,067	30	30	3	15	131	1,067	30	30	3	15	131	1,276
Totals	45,222	1,283	3,285	294	2,556	4,496	57,136	50,433	813	3,416	325	2,903	4,223	50,433	813	3,416	325	2,903	4,223	62,113
7-10am	10,424	126	793	116	467	606	12,532	7,759	108	513	73	559	608	7,759	108	513	73	559	608	9,620
10am-1pm	6,428	102	527	48	537	1,079	8,721	5,957	57	610	50	581	776	5,957	57	610	50	581	776	8,031
1-4pm	6,339	149	481	62	514	725	8,270	9,454	78	931	117	572	482	9,454	78	931	117	572	482	11,634
4-7pm	7,380	221	386	36	270	356	8,649	12,506	130	681	41	360	272	12,506	130	681	41	360	272	13,990
7am-7pm	30,571	598	2,187	262	1,788	2,766	38,172	35,676	373	2,735	281	2,072	2,138	35,676	373	2,735	281	2,072	2,138	43,275
6-10am	14,108	232	1,153	132	687	808	17,120	9,724	155	681	87	788	991	9,724	155	681	87	788	991	12,426
3-7pm	9,699	271	545	62	433	535	11,545	16,621	162	993	85	526	387	16,621	162	993	85	526	387	18,774
6am-7pm	34,255	704	2,547	278	2,008	2,968	42,760	37,641	420	2,903	295	2,301	2,521	37,641	420	2,903	295	2,301	2,521	46,081

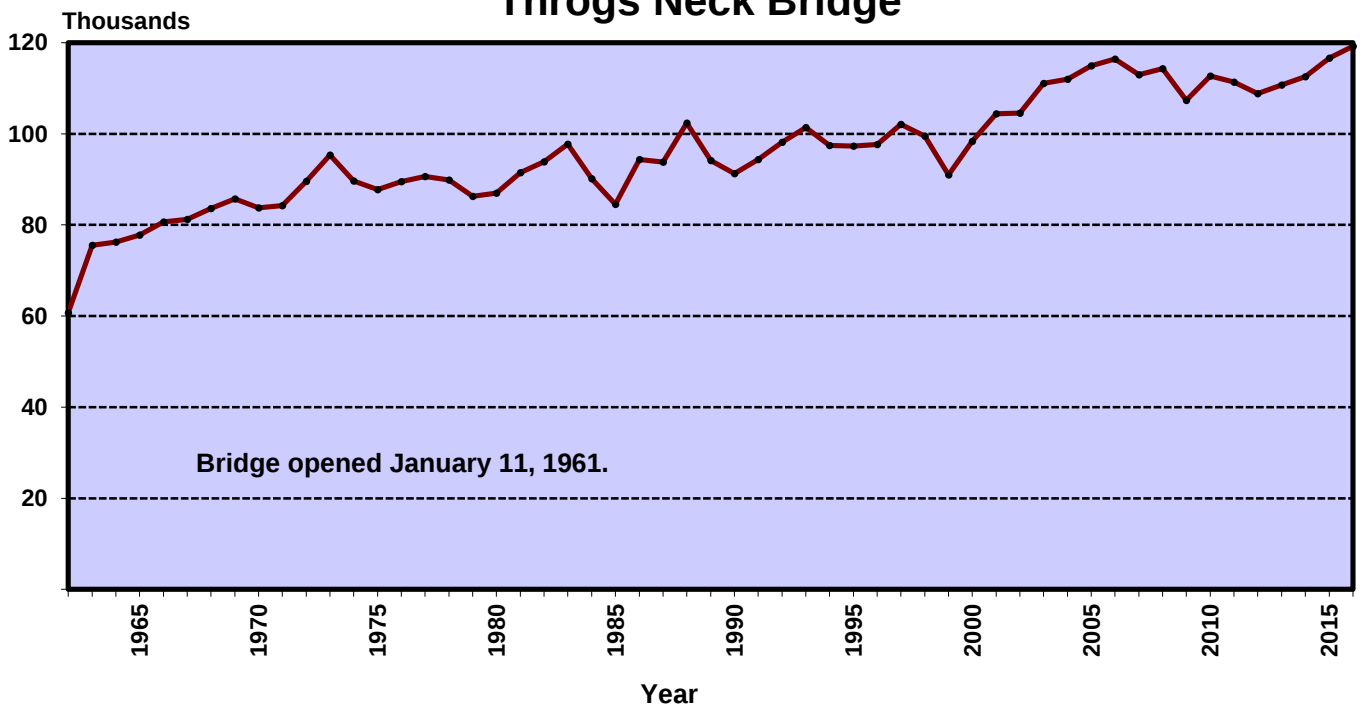
Based on November 2013 Classification Survey Data.

** Peak Volumes

Hourly Vehicular Volumes Throgs Neck Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Throgs Neck Bridge



Hourly Vehicular Volumes

Verrazano-Narrows Bridge - 2016

Eastbound to Brooklyn

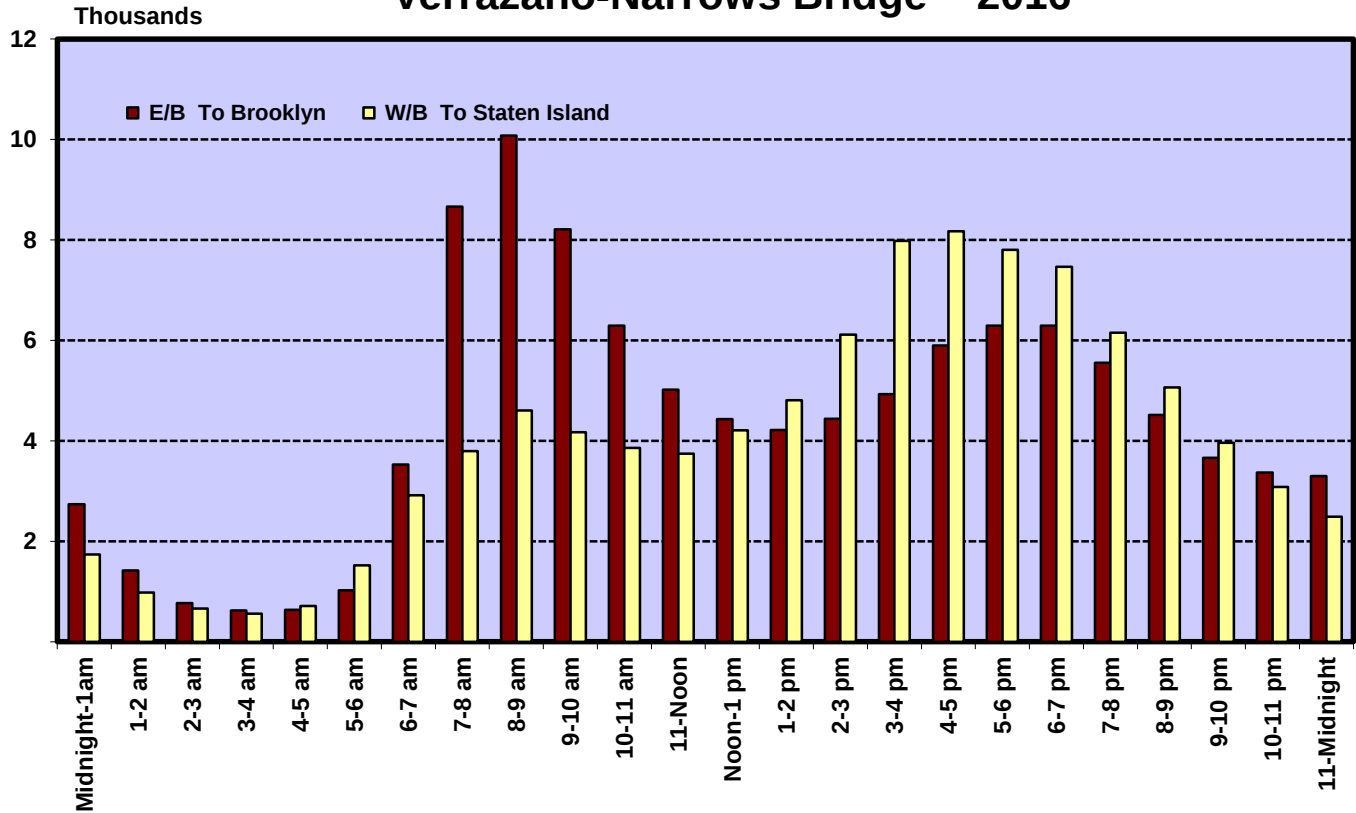
Westbound to Staten Island

FHWA Classes ▶	Commercial Vans, Panel Trucks, Pickups, Police, Fleet Vehicles							Commercial Vans, Panel Trucks, Pickups, Police, Fleet Vehicles							2-way Grand Totals		
	Autos, Motorcycles SUVs, Family Vans	Taxis, Liveries, Limos	Autos, Motorcycles SUVs, Family Vans	Taxis, Liveries, Limos	Panel Trucks, Pickups, Police, Fleet Vehicles	Buses	Single Unit Trucks	Multiple Unit Trucks	Total Vehicles	Autos, Motorcycles SUVs, Family Vans	Taxis, Liveries, Limos	Panel Trucks, Pickups, Police, Fleet Vehicles	Buses	Single Unit Trucks		Multiple Unit Trucks	Total Vehicles
	1, 2, 3	2	2 & 3	4	5 - 7	8 - 13				1, 2, 3	2	2 & 3	4	5 - 7	8 - 13		
12-1am	2,369	52	27	33	58	200		2,739	1,601	33	27	12		30	37		1,740
1-2am	1,096	34	10	27	55	198		1,420	872	32	13	14		17	35		983
2-3am	489	16	14	10	58	185		772	547	20	12	9		39	35		662
3-4am	449	11	6	4	43	111		624	439	14	13	21		51	24		562
4-5am	491	9	5	6	37	89		637	562	9	16	15		53	56		711
5-6am	877	51	6	11	26	55		1,026	1,245	20	28	40		128	60		1,521
6-7am	3,114	91	93	59	72	97		3,526	2,440	18	80	110		152	119		2,919
7-8am	7,694	89	340	222	140	177		8,662	3,262	19	147	127		153	88		3,796
8-9am	8,754	139	427	204	285	269	**	10,078	4,001	17	162	148		171	109		4,608
9-10am	7,090	65	252	135	337	330		8,209	3,502	27	169	160		194	119		4,171
10-11am	5,482	81	260	89	214	169		6,295	3,177	15	150	88		231	202		3,863
11-12am	4,241	30	176	61	231	281		5,020	3,123	21	149	50		217	186		3,746
12-1pm	3,795	36	181	48	162	212		4,434	3,549	31	148	68		253	164		4,213
1-2pm	3,659	43	129	69	175	140		4,215	4,234	33	130	63		207	142		4,809
2-3pm	3,880	56	125	59	212	109		4,441	5,554	27	122	70		218	125		6,116
3-4pm	4,305	50	137	124	195	122		4,933	7,335	23	187	79		229	131		7,984
4-5pm	5,057	81	216	216	196	135		5,901	7,491	36	217	151		171	109	**	8,175
5-6pm	5,636	82	100	156	181	139		6,294	7,334	35	94	168		102	68		7,801
6-7pm	5,741	62	89	118	133	149		6,292	7,006	45	111	173		81	52		7,468
7-8pm	5,064	45	84	66	89	207		5,555	5,779	31	89	125		63	65		6,152
8-9pm	4,107	39	55	55	82	177		4,515	4,749	35	48	69		60	106		5,067
9-10pm	3,307	30	28	53	65	180		3,663	3,699	28	43	65		52	75		3,962
10-11pm	3,006	23	34	35	68	203		3,369	2,868	30	19	32		42	90		3,081
11-12pm	2,855	26	44	51	62	262		3,300	2,247	21	22	34		53	116		2,493
Totals	92,558	1,241	2,838	1,911	3,176	4,196		105,920	86,616	620	2,196	1,891		2,967	2,313		96,603
7-10am	23,538	293	1,019	561	762	776		26,949	10,765	63	478	435		518	316		12,575
10am-1pm	13,518	147	617	198	607	662		15,749	9,849	67	447	206		701	552		11,822
1-4pm	11,844	149	391	252	582	371		13,589	17,123	83	439	212		654	398		18,909
4-7pm	16,434	225	405	490	510	423		18,487	21,831	116	422	492		354	229		23,444
7am-7pm	65,334	814	2,432	1,501	2,461	2,232		74,774	59,568	329	1,786	1,345		2,227	1,495		66,750
6-10am	26,652	384	1,112	620	834	873		30,475	13,205	81	558	545		670	435		15,494
3-7pm	20,739	275	542	614	705	545		23,420	29,166	139	609	571		583	360		31,428
6am-7pm	68,448	905	2,525	1,560	2,533	2,329		78,300	62,008	347	1,866	1,455		2,379	1,614		69,669

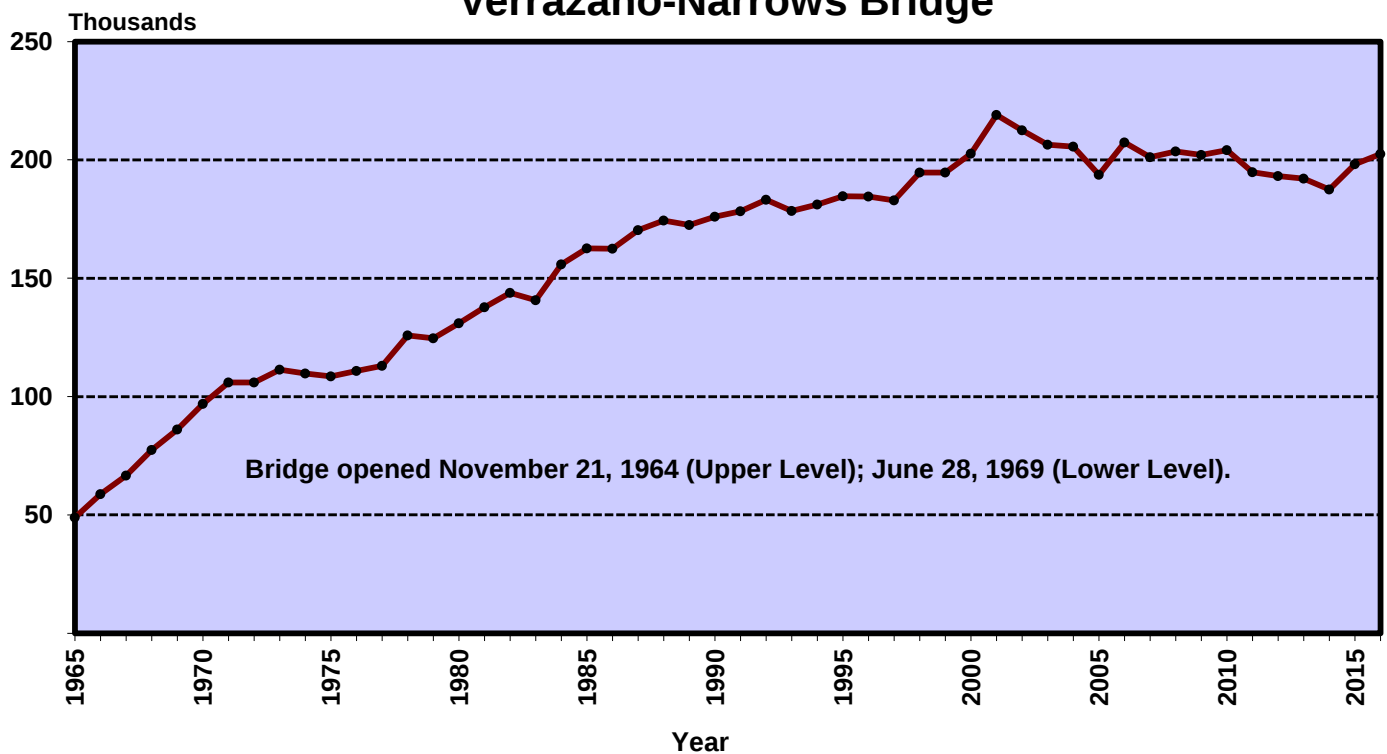
Based on November 2013 Classification Survey Data.

** Peak Volumes

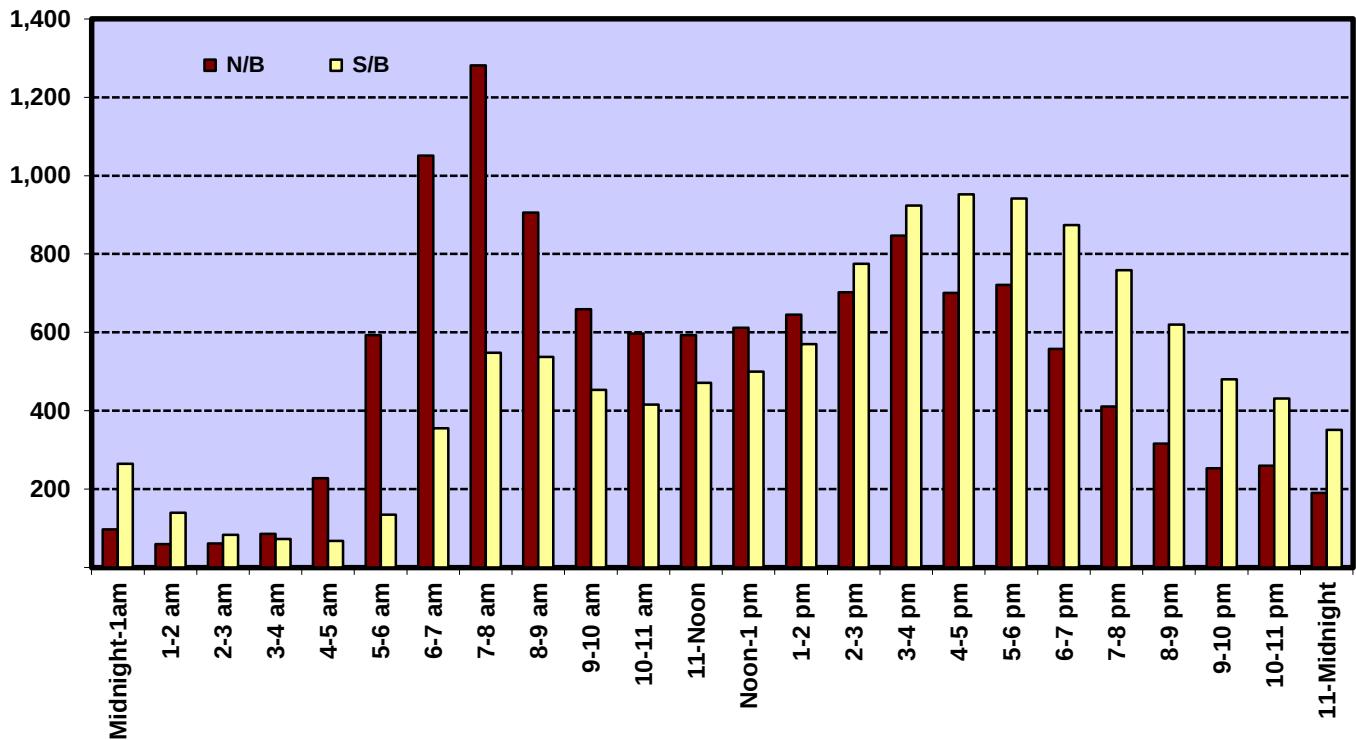
Hourly Vehicular Volumes Verrazano-Narrows Bridge ~ 2016



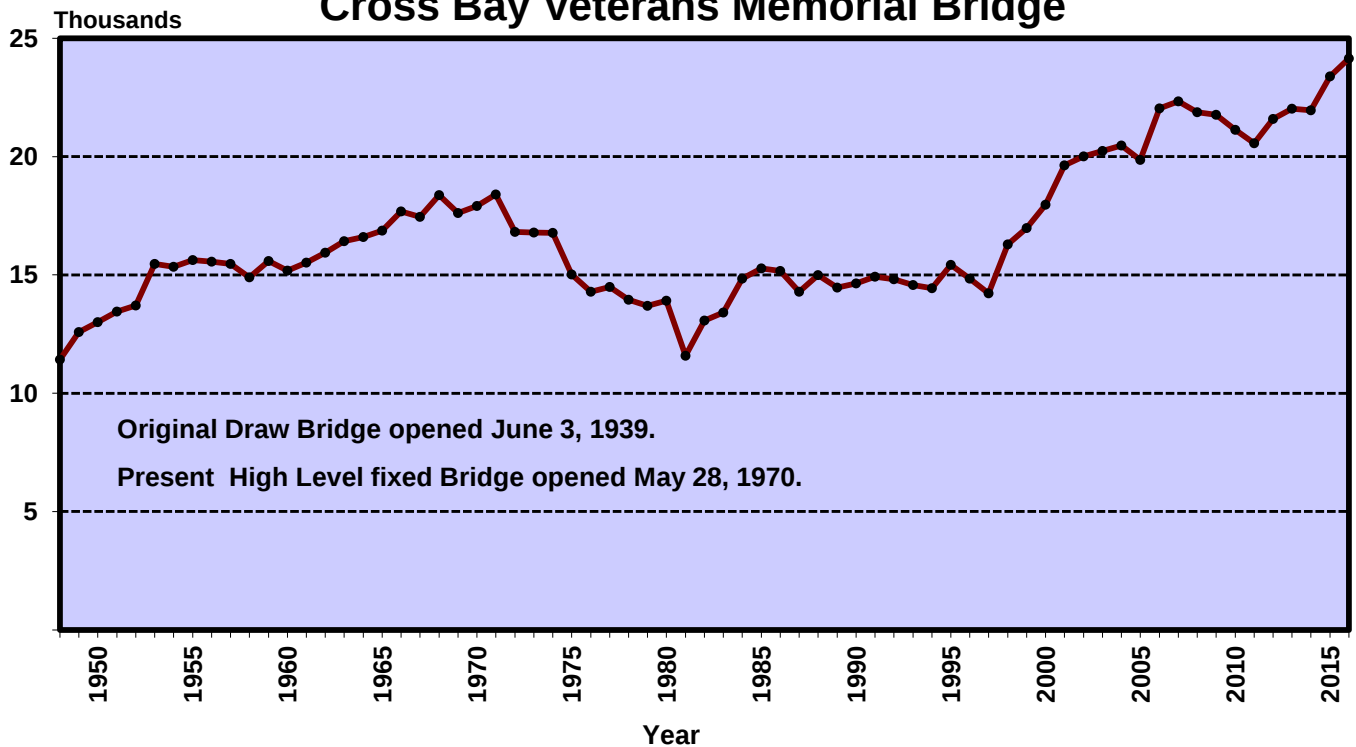
Average Daily Traffic Volumes ~ Total of Both Directions Verrazano-Narrows Bridge



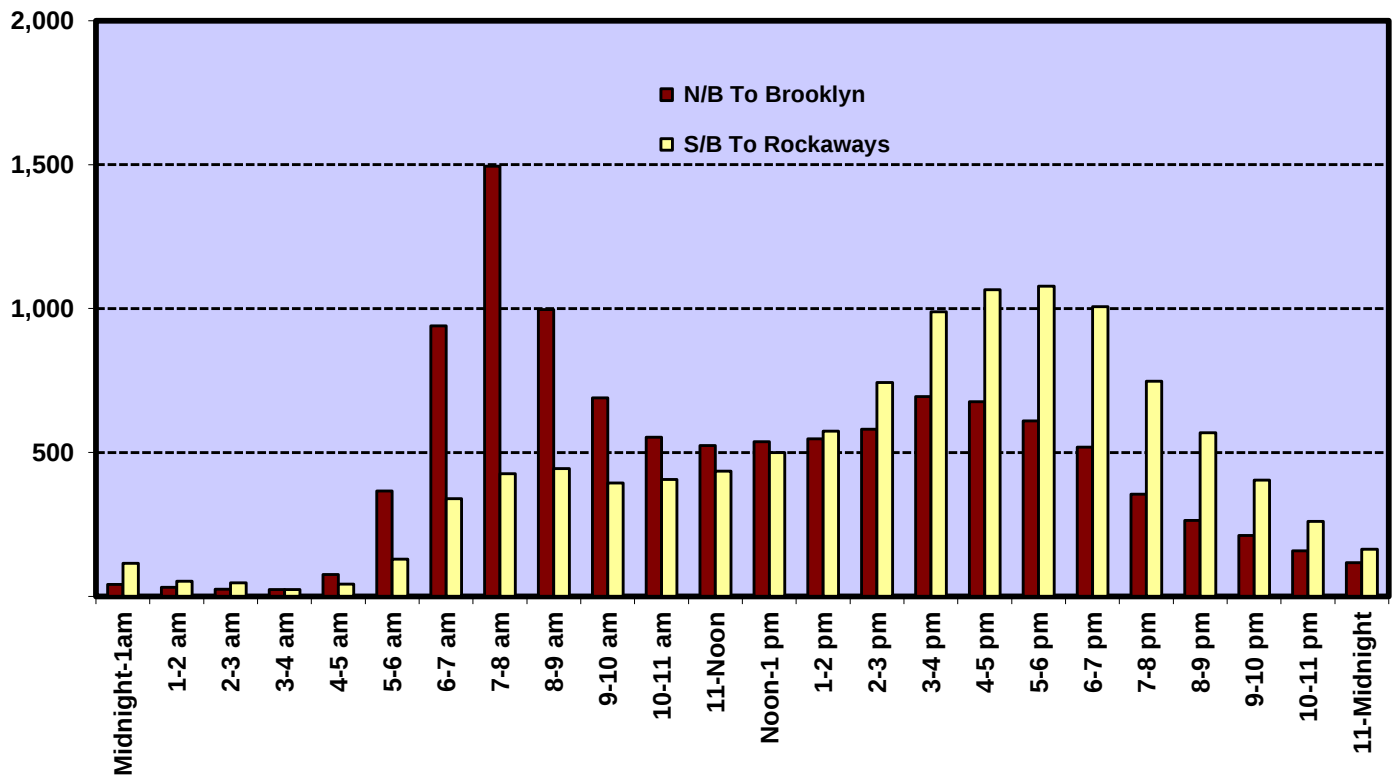
Hourly Vehicular Volumes Cross Bay Veterans Memorial Bridge ~ 2016



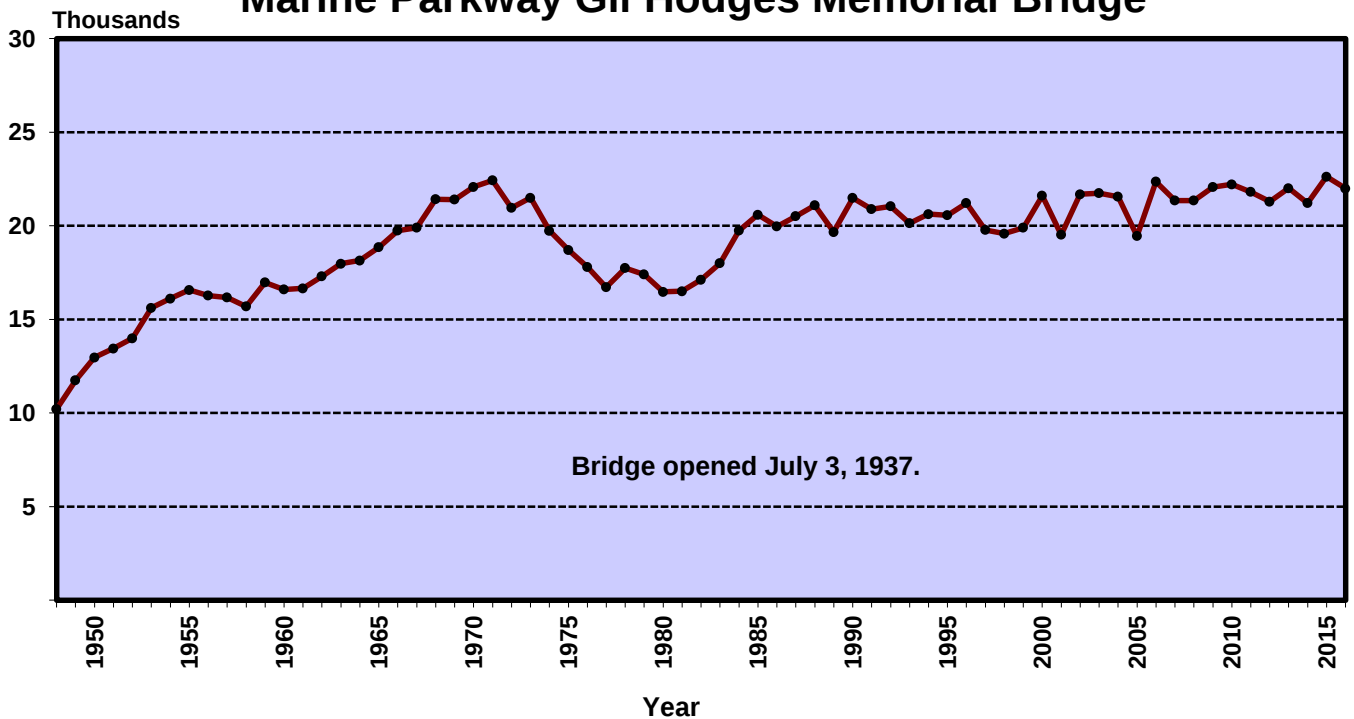
Average Daily Traffic Volumes ~ Total of Both Directions Cross Bay Veterans Memorial Bridge



Hourly Vehicular Volumes Marine Parkway Gil Hodges Memorial Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Marine Parkway Gil Hodges Memorial Bridge



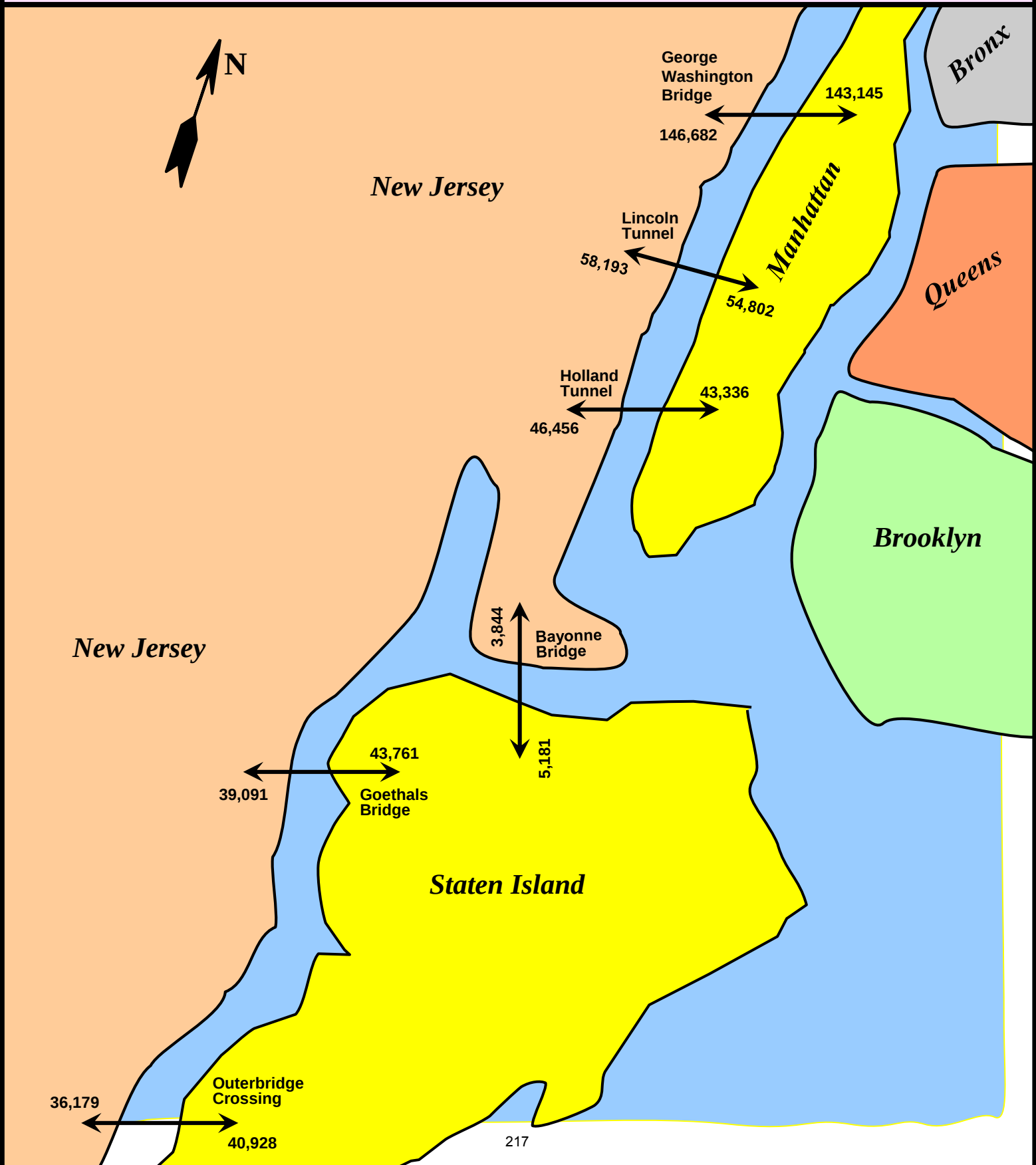
PANYNJ Facilities



Outerbridge Crossing

PANYNJ Facilities

2016 Daily Volumes



PANYNJ Manhattan - New Jersey Facilities
Average Daily Traffic Volumes
1948 - 2016

<i>Year</i>	<i>George Washington Bridge</i>	<i>Holland Tunnel</i>	<i>Lincoln Tunnel</i>	<i>Totals</i>
1948	42,306	42,623	30,856	115,785
1949	49,261	45,167	35,515	129,943
1950	54,437	49,660	42,556	146,653
1951	64,516	53,792	47,842	166,150
1952	76,446	51,317	53,490	181,253
1953	84,398	53,270	56,909	194,577
1954	90,306	54,560	57,528	202,394
1955	98,013	55,445	58,468	211,926
1956	97,059	56,961	59,068	213,088
1957	98,110	56,801	63,712	218,623
1958	97,435	55,881	68,178	221,494
1959	105,334	57,926	73,761	237,021
1960	106,245	57,678	75,697	239,620
1961	104,107	56,277	76,449	236,833
1962	111,090	58,518	81,038	250,646
1963	127,452	58,814	79,337	265,603
1964	143,193	59,702	82,929	285,824
1965	155,967	55,060	82,312	293,339
1966	167,304	55,559	81,118	303,981
1967	173,093	54,181	80,879	308,153
1968	182,934	53,962	83,396	320,292
1969	189,817	54,438	84,868	329,123
1970	194,910	58,574	94,354	347,838
1971	210,749	57,968	93,346	362,063
1972	221,172	61,485	95,963	378,620
1973	232,686	64,731	99,786	397,203
1974	211,955	64,765	99,827	376,547
1975	215,927	62,381	96,399	374,707
1976	215,136	64,663	101,451	381,250
1977	222,897	63,015	99,101	385,013
1978	229,666	66,405	103,441	399,512
1979	232,739	61,403	99,582	393,724
1980	235,615	64,417	104,702	404,734
1981	250,804	68,750	107,827	427,381
1982	249,294	73,997	110,453	433,744
1983	254,728	76,226	110,210	441,164
1984	258,723	71,819	123,233	453,775
1985	275,934	76,121	116,397	468,452
1986	286,398	77,300	122,053	485,751
1987	288,642	73,655	124,342	486,639
1988	284,984	84,626	120,569	490,179
1989	281,812	84,429	121,452	487,693
1990	272,556	87,976	121,711	482,243
1991	262,491	87,502	117,508	467,501
1992	268,007	90,206	118,659	476,872
1993	260,732	92,685	119,652	473,069
1994	259,863	94,637	119,299	473,799
1995	266,029	96,310	119,759	482,098
1996	275,469	96,798	120,927	493,194
1997	282,293	100,986	121,509	504,788
1998	297,188	100,872	124,452	522,512
1999	317,640	103,020	128,692	549,352
2000	317,618	101,137	129,710	548,465
2001	309,310	43,377	106,257	458,944
2002	310,771	92,557	129,511	532,839
2003	319,029	101,097	127,323	547,449
2004	315,066	96,171	125,159	536,396
2005	304,302	96,960	126,455	527,717
2006	312,078	98,425	127,245	537,748
2007	291,391	100,491	122,092	513,974
2008	293,059	97,057	118,153	508,269
2009	289,694	96,184	118,982	504,860
2010	292,047	94,667	119,832	506,546
2011	279,896	93,560	117,653	491,109
2012	276,648	92,743	113,166	482,557
2013	277,645	90,012	112,162	479,819
2014	280,784	87,232	109,796	477,812
2015	295,120	89,367	113,783	498,270
2016	289,827	89,792	112,995	492,614

PANYNJ one-way tolls initiated 8/12/1970.

PANYNJ toll increases May 1975, January 1984, April 1987, April 1991, March 2001, March 2008, September 2011, December 2012, December 2013, December 2014, & December 2015.

PANYNJ Staten Island - New Jersey Bridges
Average Daily Traffic Volumes
1948 - 2016

<i>Year</i>	<i>Bayonne Bridge</i>	<i>Goethals Bridge</i>	<i>Outerbridge Crossing</i>	<i>Totals</i>
1948	5,241	4,283	3,690	13,214
1949	5,754	4,641	4,233	14,628
1950	6,360	5,215	4,856	16,431
1951	6,314	6,028	5,993	18,335
1952	7,035	6,865	5,243	19,143
1953	7,385	7,938	5,275	20,598
1954	7,452	8,323	5,779	21,554
1955	7,546	9,043	6,096	22,685
1956	7,136	9,335	5,731	22,202
1957	6,899	9,553	6,162	22,614
1958	6,711	9,703	5,539	21,953
1959	6,780	10,441	5,757	22,978
1960	6,519	10,331	6,006	22,856
1961	6,986	12,028	6,360	25,374
1962	7,532	11,973	6,833	26,338
1963	7,806	12,478	7,114	27,398
1964	8,012	14,182	7,786	29,980
1965	8,333	27,239	9,256	44,828
1966	9,349	32,007	9,622	50,978
1967	9,897	34,870	9,284	54,051
1968	10,349	38,564	9,741	58,654
1969	10,807	41,838	10,408	63,053
1970	11,034	47,949	9,937	68,920
1971	11,304	52,862	10,592	74,758
1972	11,704	54,574	10,740	77,018
1973	12,458	56,850	11,726	81,034
1974	12,418	53,964	14,162	80,544
1975	11,860	53,206	15,994	81,060
1976	11,418	51,554	17,892	80,864
1977	11,704	45,816	28,016	85,536
1978	11,508	44,748	32,742	88,998
1979	11,926	44,910	35,328	92,164
1980	12,984	46,352	38,438	97,774
1981	13,166	46,962	41,516	101,644
1982	13,622	48,310	44,740	106,672
1983	13,924	51,350	48,512	113,786
1984	14,058	53,962	50,908	118,928
1985	14,490	57,708	54,268	126,466
1986	15,906	64,634	57,896	138,436
1987	14,890	65,452	59,392	139,734
1988	14,676	66,136	62,250	143,062
1989	13,838	63,367	62,846	140,051
1990	12,246	63,549	62,545	138,340
1991	12,408	63,547	65,499	141,454
1992	13,342	64,469	67,569	145,380
1993	13,979	60,424	66,372	140,775
1994	14,212	62,464	67,199	143,875
1995	14,536	63,040	66,081	143,657
1996	14,389	63,601	68,575	146,565
1997	15,903	65,207	70,468	151,578
1998	16,846	67,076	72,864	156,786
1999	17,603	70,863	78,424	166,890
2000	18,493	72,791	73,384	164,668
2001	23,631	78,196	75,424	177,251
2002	21,327	81,384	76,429	179,140
2003	20,208	75,724	78,650	174,582
2004	22,510	71,532	80,226	174,268
2005	21,755	68,790	81,108	171,653
2006	24,230	65,378	86,306	175,914
2007	21,451	72,999	75,778	170,228
2008	20,058	72,834	72,884	165,776
2009	19,422	71,230	74,852	165,504
2010	19,981	73,486	74,665	168,132
2011	18,665	75,580	75,291	169,536
2012	18,755	73,135	71,816	163,706
2013	18,541	72,986	66,740	158,267
2014	15,166	70,419	70,033	155,618
2015	10,840	78,605	73,773	163,218
2016	9,025	82,852	77,107	168,984

PANYNJ one-way tolls initiated 8/12/1970.

PANYNJ toll increases May 1975, January 1984, April 1987, April 1991, March 2001, March 2008, September 2011, December 2012, December 2013, December 2014, & December 2015.

Hourly Vehicular Volumes

Port Authority of New York & New Jersey

2016

	George Washington Bridge		Holland Tunnel		Lincoln Tunnel		Totals	
	E/B	W/B	E/B	W/B	E/B	W/B	Entering Manhattan	Leaving Manhattan
12-1am	1,926	2,840	682	876	900	1,694	3,508	5,410
1-2am	1,359	1,792	483	925	608	971	2,450	3,688
2-3am	1,144	1,293	347	732	477	612	1,968	2,637
3-4am	1,358	1,236	394	573	533	398	2,285	2,207
4-5am	2,386	1,622	750	811	982	552	4,118	2,985
5-6am	6,988	3,377	2,308	1,578	3,272	808	12,568	5,763
6-7am	11,474 **	5,382	2,739 **	2,113	4,860 **	1,427	19,073 **	8,922
7-8am	9,833	6,578	2,706	2,477	4,145	1,928	16,684	10,983
8-9am	8,156	7,287	2,641	2,369	3,994	1,876	14,791	11,532
9-10am	8,242	6,523	2,569	2,063	3,778	1,797	14,589	10,383
10-11am	8,055	6,177	2,386	2,154	3,369	1,855	13,810	10,186
11-12am	7,294	6,330	2,072	2,131	2,897	2,241	12,263	10,702
12-1pm	6,888	6,803	1,908	2,057	2,540	2,400	11,336	11,260
1-2pm	6,867	7,197	1,853	2,397	2,445	2,877	11,165	12,471
2-3pm	7,103	8,387	1,962	2,475	2,559	3,348	11,624	14,210
3-4pm	7,509	10,266	2,122	2,297	2,364	3,923	11,995	16,486
4-5pm	7,522	9,247	2,465	2,297	2,058	4,795 **	12,045	16,339
5-6pm	7,756	10,864 **	2,587	1,995	1,738	4,676	12,081	17,535 **
6-7pm	7,773	10,224	2,536	2,171	2,040	4,720	12,349	17,115
7-8pm	6,523	8,553	2,091	2,351	2,108	4,243	10,722	15,147
8-9pm	5,308	7,341	1,658	2,521 **	1,898	3,160	8,864	13,022
9-10pm	4,680	6,630	1,556	2,510	1,964	2,925	8,200	12,065
10-11pm	4,041	6,075	1,453	2,398	1,853	2,813	7,347	11,286
11-12pm	2,960	4,658	1,068	2,185	1,420	2,154	5,448	8,997
Totals	143,145	146,682	43,336	46,456	54,802	58,193	241,283	251,331
7-10am	26,231	20,388	7,916	6,909	11,917	5,601	46,064	32,898
10am-1pm	22,237	19,310	6,366	6,342	8,806	6,496	37,409	32,148
1-4pm	21,479	25,850	5,937	7,169	7,368	10,148	34,784	43,167
4-7pm	23,051	30,335	7,588	6,463	5,836	14,191	36,475	50,989
7am-7pm	92,998	95,883	27,807	26,883	33,927	36,436	154,732	159,202
6-10am	37,705	25,770	10,655	9,022	16,777	7,028	65,137	41,820
3-7pm	30,560	40,601	9,710	8,760	8,200	18,114	48,470	67,475
6am-7pm	104,472	101,265	30,546	28,996	38,787	37,863	173,805	168,124

** Peak Volumes

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.

Hourly Vehicular Volumes

Port Authority of New York & New Jersey

2016

	Bayonne Bridge		Goethals Bridge		Outerbridge Crossing		Totals	
	S/B	N/B	E/B	W/B	E/B	W/B	To Staten Island	To New Jersey
12-1am	10	0	736	440	516	439	1,262	879
1-2am	6	2	490	275	310	235	806	512
2-3am	7	2	396	221	263	202	666	425
3-4am	7	0	432	231	360	158	799	389
4-5am	47	55	618	474	827	279	1,492	808
5-6am	176	242	1,523	1,128	2,100	713	3,799	2,083
6-7am	339	562	2,440	1,825	2,831	1,395	5,610	3,782
7-8am	416	841	2,003	2,559	2,649	2,249	5,068	5,649
8-9am	425	689	1,980	2,875	2,308	2,442	4,713	6,006
9-10am	33	34	2,143	2,504	2,221	2,083	4,397	4,621
10-11am	16	5	2,148	2,326	1,950	1,839	4,114	4,170
11-12am	19	6	1,995	2,137	1,804	1,895	3,818	4,038
12-1pm	13	7	2,015	1,946	1,789	1,717	3,817	3,670
1-2pm	19	1	2,215	2,130	1,890	1,766	4,124	3,897
2-3pm	107	54	2,408	2,339	1,987	2,166	4,502	4,559
3-4pm	643	341	2,511	2,343	2,160	2,575	5,314	5,259
4-5pm	743	344	2,806	2,693	2,399	2,583	5,948	5,620
5-6pm	1,031	321	3,012	2,851	2,770	2,661	6,813	5,833
6-7pm	1,017	292	3,055	2,176	2,610	2,340	6,682	4,808
7-8pm	88	37	2,630	1,616	2,022	1,962	4,740	3,615
8-9pm	18	3	1,988	1,421	1,720	1,523	3,726	2,947
9-10pm	1	1	1,713	1,008	1,497	1,213	3,211	2,222
10-11pm	0	0	1,432	920	1,139	984	2,571	1,904
11-12pm	0	5	1,072	653	806	760	1,878	1,418
Totals	5,181	3,844	43,761	39,091	40,928	36,179	89,870	79,114
7-10am	874	1,564	6,126	7,938	7,178	6,774	14,178	16,276
10am-1pm	48	18	6,158	6,409	5,543	5,451	11,749	11,878
1-4pm	769	396	7,134	6,812	6,037	6,507	13,940	13,715
4-7pm	2,791	957	8,873	7,720	7,779	7,584	19,443	16,261
7am-7pm	4,482	2,935	28,291	28,879	26,537	26,316	59,310	58,130
6-10am	1,213	2,126	8,566	9,763	10,009	8,169	19,788	20,058
3-7pm	3,434	1,298	11,384	10,063	9,939	10,159	24,757	21,520
6am-7pm	4,821	3,497	30,731	30,704	29,368	27,711	64,920	61,912

** Peak Volumes

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.

Hourly Vehicular Volumes

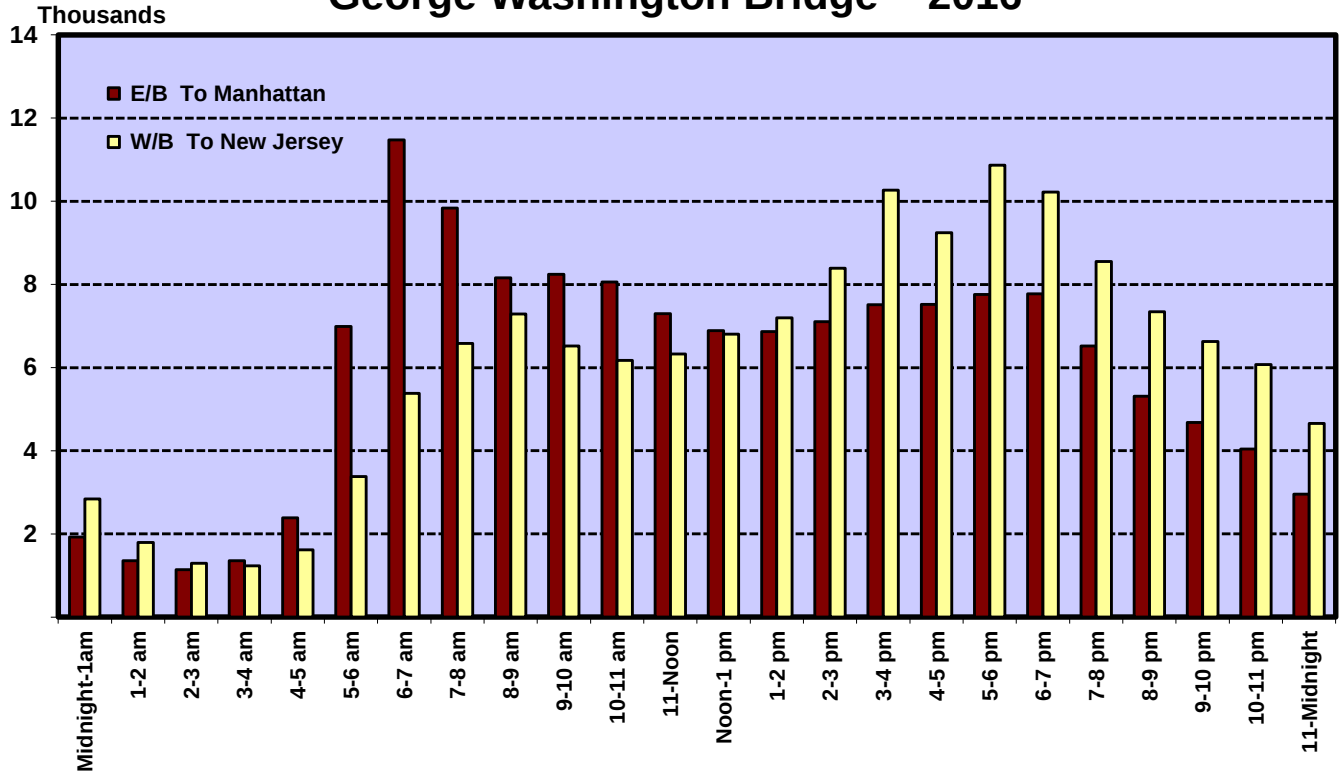
George Washington Bridge - 2016

	Eastbound to Manhattan					Westbound to New Jersey					2-Way Grand Totals
	Autos	Buses	Small Trucks	Large Trucks	Total Vehicles	Autos	Buses	Small Trucks	Large Trucks	Total Vehicles	
12-1am	1,580	8	64	274	1,926	2,377	12	77	374	2,840	4,766
1-2am	990	5	69	295	1,359	1,352	4	89	347	1,792	3,151
2-3am	720	5	72	347	1,144	920	1	78	294	1,293	2,437
3-4am	793	4	120	441	1,358	742	3	95	396	1,236	2,594
4-5am	1,586	12	187	601	2,386	1,025	5	136	456	1,622	4,008
5-6am	5,746	35	437	770	6,988	2,490	17	252	618	3,377	10,365
6-7am	10,377	88	509	500	11,474	4,578	44	347	413	5,382	16,856
7-8am	9,071	92	343	327	9,833	5,786	87	324	381	6,578	16,411
8-9am	7,397	87	347	325	8,156	6,437	115	378	357	7,287	15,443
9-10am	7,388	92	368	394	8,242	5,545	89	378	511	6,523	14,765
10-11am	7,221	65	356	413	8,055	5,068	61	384	664	6,177	14,232
11-12am	6,522	60	312	400	7,294	5,128	50	394	758	6,330	13,624
12-1pm	6,201	58	288	341	6,888	5,338	61	455	949	6,803	13,691
1-2pm	6,216	72	273	306	6,867	6,015	53	500	629	7,197	14,064
2-3pm	6,520	77	248	258	7,103	7,203	71	492	621	8,387	15,490
3-4pm	6,952	107	225	225	7,509	9,229	55	450	532	10,266	17,775
4-5pm	7,072	91	179	180	7,522	8,574	63	280	330	9,247	16,769
5-6pm	7,355	101	141	159	7,756	10,079	86	335	364	10,864	18,620
6-7pm	7,370	88	127	188	7,773	9,558	66	294	306	10,224	17,997
7-8pm	6,109	73	108	233	6,523	8,002	60	199	292	8,553	15,076
8-9pm	4,951	52	78	227	5,308	6,851	48	114	328	7,341	12,649
9-10pm	4,338	42	70	230	4,680	6,242	31	84	273	6,630	11,310
10-11pm	3,681	27	56	277	4,041	5,682	36	69	288	6,075	10,116
11-12pm	2,607	18	56	279	2,960	4,154	20	72	412	4,658	7,618
Totals	128,763	1,359	5,033	7,990	143,145	128,375	1,138	6,276	10,893	146,682	289,827
7-10am	23,856	271	1,058	1,046	26,231	17,768	291	1,080	1,249	20,388	46,619
10am-1pm	19,944	183	956	1,154	22,237	15,534	172	1,233	2,371	19,310	41,547
1-4pm	19,688	256	746	789	21,479	22,447	179	1,442	1,782	25,850	47,329
4-7pm	21,797	280	447	527	23,051	28,211	215	909	1,000	30,335	53,386
7am-7pm	85,285	990	3,207	3,516	92,998	83,960	857	4,664	6,402	95,883	188,881
6-10am	34,233	359	1,567	1,546	37,705	22,346	335	1,427	1,662	25,770	63,475
3-7pm	28,749	387	672	752	30,560	37,440	270	1,359	1,532	40,601	71,161
6am-7pm	95,662	1,078	3,716	4,016	104,472	88,538	901	5,011	6,815	101,265	205,737

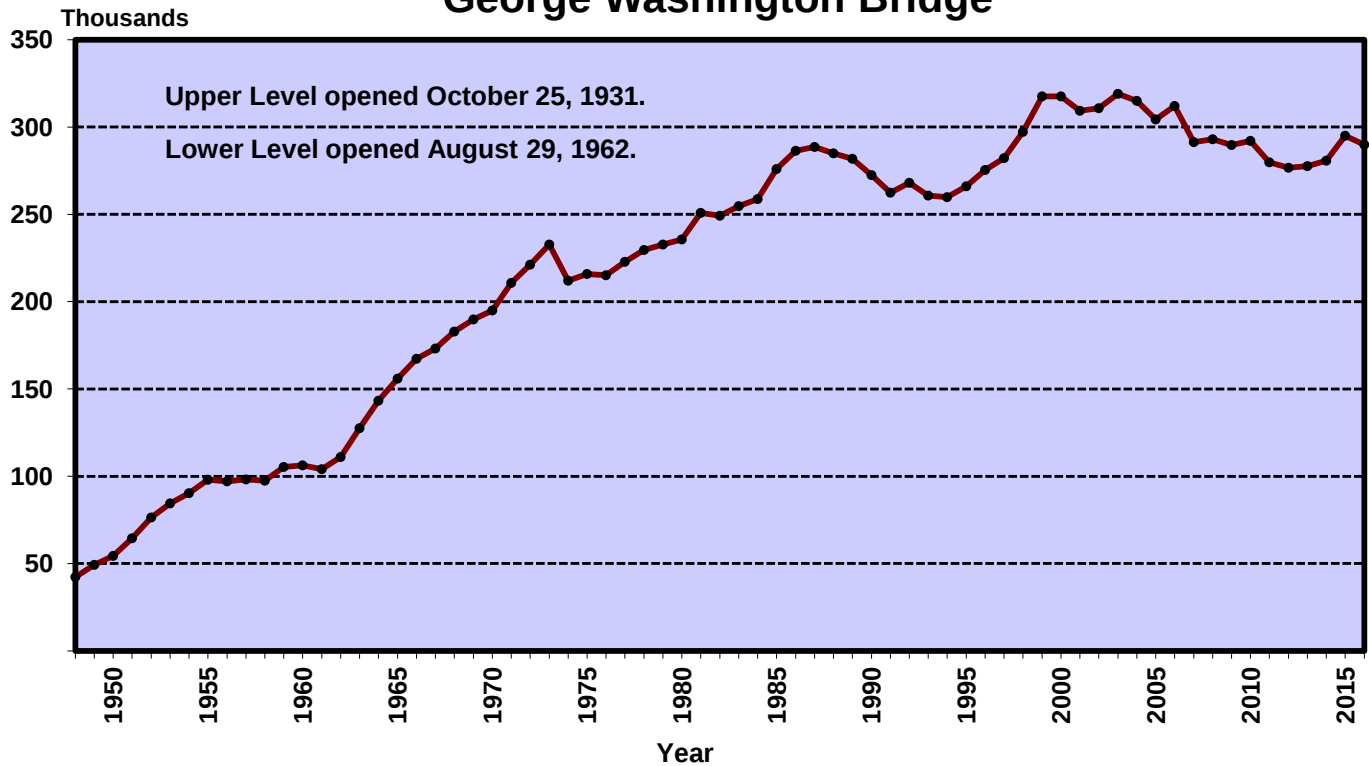
Classification based on 2016 classification data.

** Peak Volumes

Hourly Vehicular Volumes George Washington Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions George Washington Bridge



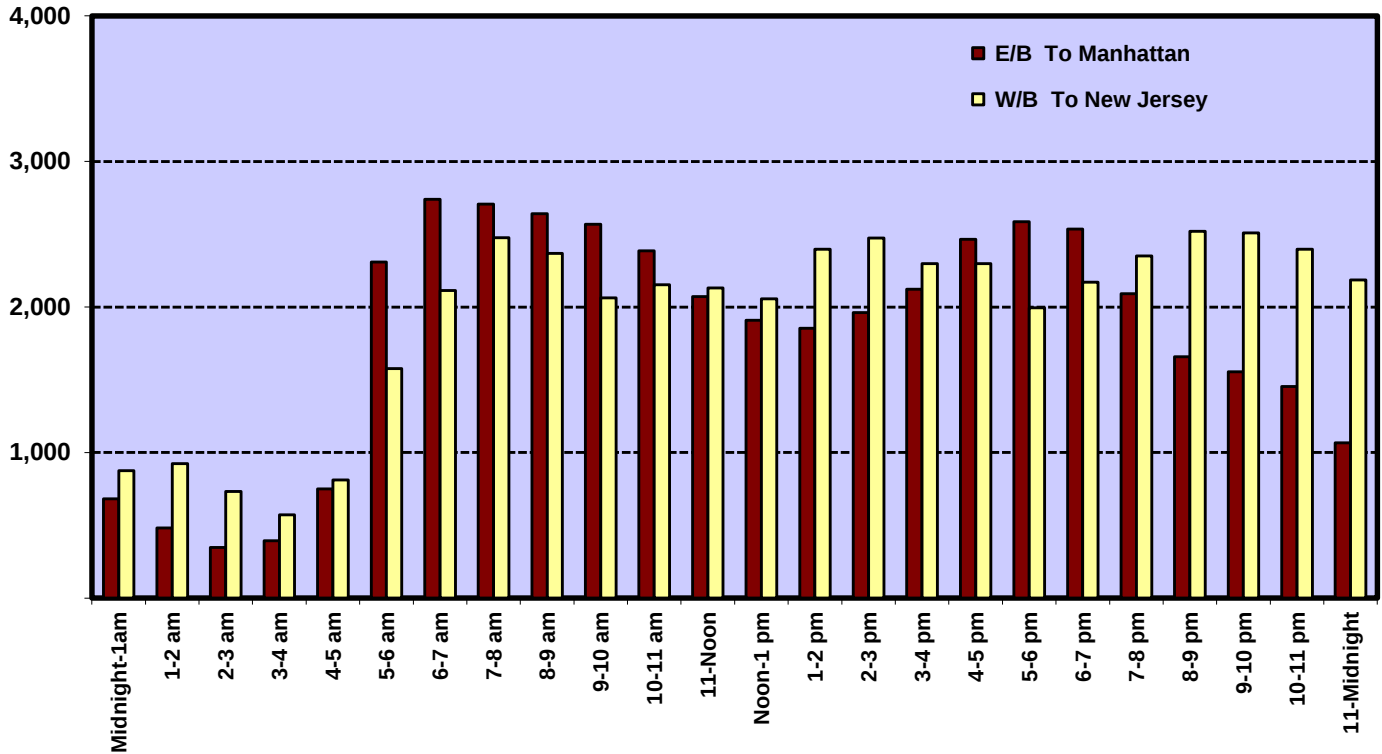
Hourly Vehicular Volumes Holland Tunnel - 2016

<i>Eastbound to Manhattan</i>										<i>Westbound to New Jersey</i>									
	Autos	Buses	Small Trucks	Large Trucks	Total Vehicles		Autos	Buses	Small Trucks	Large Trucks	Total Vehicles		Autos	Buses	Small Trucks	Large Trucks	Total Vehicles		2-Way Grand Totals
12-1am	660	4	18	0	682		865	2	9	0	876		865	2	9	0	876		1,558
1-2am	456	3	24	0	483		908	3	14	0	925		908	3	14	0	925		1,408
2-3am	314	3	30	0	347		707	0	25	0	732		707	0	25	0	732		1,079
3-4am	347	5	42	0	394		524	0	49	0	573		524	0	49	0	573		967
4-5am	668	8	73	1	750		739	1	71	0	811		739	1	71	0	811		1,561
5-6am	2,130	22	154	2	2,308		1,478	10	90	0	1,578		1,478	10	90	0	1,578		3,886
6-7am	2,561	47	129	2	2,739	**	1,990	24	99	0	2,113		1,990	24	99	0	2,113		4,852
7-8am	2,505	55	145	1	2,706		2,356	32	89	0	2,477		2,356	32	89	0	2,477		5,183
8-9am	2,413	66	159	3	2,641		2,170	71	127	1	2,369		2,170	71	127	1	2,369		5,010
9-10am	2,396	62	109	2	2,569		1,864	65	134	0	2,063		1,864	65	134	0	2,063		4,632
10-11am	2,239	29	117	1	2,386		1,948	30	176	0	2,154		1,948	30	176	0	2,154		4,540
11-12am	1,977	18	76	1	2,072		1,957	9	165	0	2,131		1,957	9	165	0	2,131		4,203
12-1pm	1,831	14	62	1	1,908		1,877	15	165	0	2,057		1,877	15	165	0	2,057		3,965
1-2pm	1,769	19	64	1	1,853		2,191	18	188	0	2,397		2,191	18	188	0	2,397		4,250
2-3pm	1,873	22	66	1	1,962		2,309	16	150	0	2,475		2,309	16	150	0	2,475		4,437
3-4pm	2,018	45	58	1	2,122		2,123	26	148	0	2,297		2,123	26	148	0	2,297		4,419
4-5pm	2,353	66	46	0	2,465		2,159	32	106	0	2,297		2,159	32	106	0	2,297		4,762
5-6pm	2,500	55	32	0	2,587		1,869	54	72	0	1,995		1,869	54	72	0	1,995		4,582
6-7pm	2,474	37	25	0	2,536		2,037	54	79	1	2,171		2,037	54	79	1	2,171		4,707
7-8pm	2,042	25	24	0	2,091		2,255	30	66	0	2,351		2,255	30	66	0	2,351	**	4,442
8-9pm	1,623	14	21	0	1,658		2,454	31	36	0	2,521		2,454	31	36	0	2,521		4,179
9-10pm	1,523	10	22	1	1,556		2,462	18	30	0	2,510		2,462	18	30	0	2,510		4,066
10-11pm	1,424	10	18	1	1,453		2,357	15	26	0	2,398		2,357	15	26	0	2,398		3,851
11-12pm	1,042	5	21	0	1,068		2,144	16	25	0	2,185		2,144	16	25	0	2,185		3,253
Totals	41,138	644	1,535	19	43,336		43,743	572	2,139	2	46,456		43,743	572	2,139	2	46,456		89,792
7-10am	7,314	183	413	6	7,916		6,390	168	350	1	6,909		6,390	168	350	1	6,909		14,825
10am-1pm	6,047	61	255	3	6,366		5,782	54	506	0	6,342		5,782	54	506	0	6,342		12,708
1-4pm	5,660	86	188	3	5,937		6,623	60	486	0	7,169		6,623	60	486	0	7,169		13,106
4-7pm	7,327	158	103	0	7,588		6,065	140	257	1	6,463		6,065	140	257	1	6,463		14,051
7am-7pm	26,348	488	959	12	27,807		24,860	422	1,599	2	26,883		24,860	422	1,599	2	26,883		54,690
6-10am	9,875	230	542	8	10,655		8,380	192	449	1	9,022		8,380	192	449	1	9,022		19,677
3-7pm	9,345	203	161	1	9,710		8,188	166	405	1	8,760		8,188	166	405	1	8,760		18,470
6am-7pm	28,909	535	1,088	14	30,546		26,850	446	1,698	2	28,996		26,850	446	1,698	2	28,996		59,542

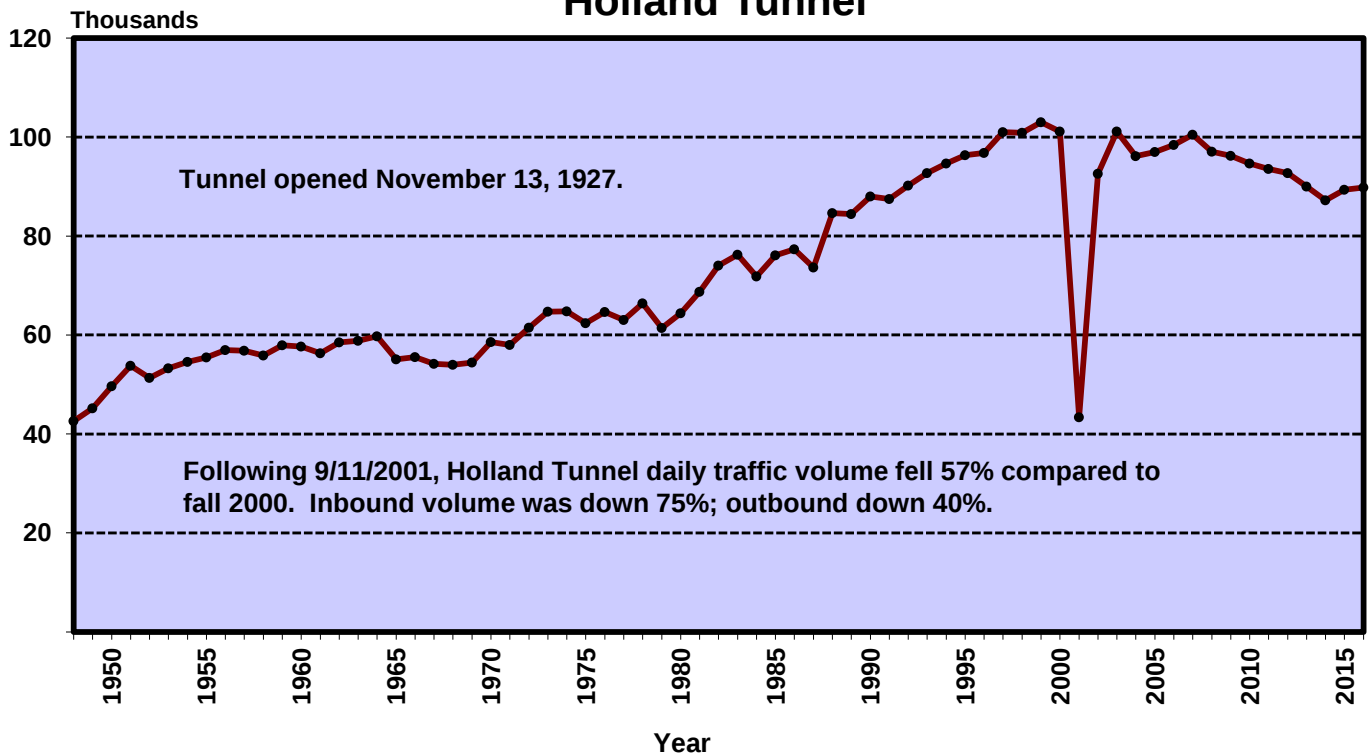
Classification based on 2016 classification data.

** Peak Volumes

Hourly Vehicular Volumes Holland Tunnel ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Holland Tunnel



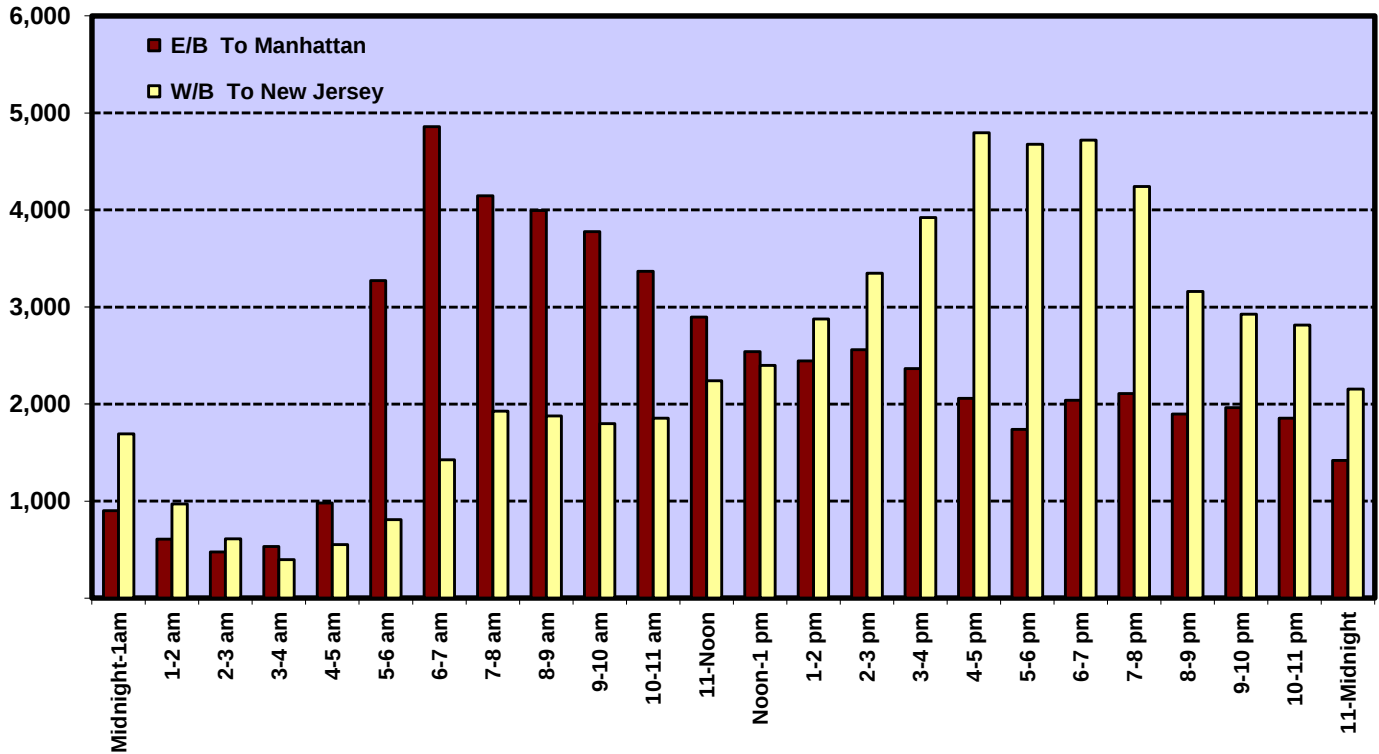
Hourly Vehicular Volumes Lincoln Tunnel - 2016

	Eastbound to Manhattan					Westbound to New Jersey					2-Way Grand Totals
	Autos	Buses	Small Trucks	Large Trucks	Total Vehicles	Autos	Buses	Small Trucks	Large Trucks	Total Vehicles	
12-1am	790	51	40	19	900	1,496	93	67	38	1,694	2,594
1-2am	510	27	43	28	608	836	39	60	36	971	1,579
2-3am	383	9	55	30	477	505	19	55	33	612	1,089
3-4am	364	13	101	55	533	274	12	60	52	398	931
4-5am	690	25	175	92	982	406	18	66	62	552	1,534
5-6am	2,594	189	372	117	3,272	571	74	95	68	808	4,080
6-7am	3,878	519	408	55	4,860	982	304	97	44	1,427	6,287
7-8am	3,011	821	282	31	4,145	1,152	573	155	48	1,928	6,073
8-9am	2,775	935	266	18	3,994	903	707	218	48	1,876	5,870
9-10am	2,859	655	247	17	3,778	933	649	176	39	1,797	5,575
10-11am	2,860	288	203	18	3,369	1,269	328	213	45	1,855	5,224
11-12am	2,517	216	149	15	2,897	1,713	219	258	51	2,241	5,138
12-1pm	2,218	185	123	14	2,540	1,897	171	278	54	2,400	4,940
1-2pm	2,118	213	100	14	2,445	2,316	206	313	42	2,877	5,322
2-3pm	2,191	272	89	7	2,559	2,817	195	297	39	3,348	5,907
3-4pm	1,950	337	72	5	2,364	3,318	276	294	35	3,923	6,287
4-5pm	1,490	504	61	3	2,058	4,021	461	292	21	4,795	6,853
5-6pm	1,223	476	35	4	1,738	3,755	679	223	19	4,676	6,414
6-7pm	1,552	442	38	8	2,040	3,773	763	172	12	4,720	6,760
7-8pm	1,720	318	52	18	2,108	3,624	470	138	11	4,243	6,351
8-9pm	1,588	226	60	24	1,898	2,740	321	78	21	3,160	5,058
9-10pm	1,697	176	62	29	1,964	2,602	236	63	24	2,925	4,889
10-11pm	1,615	149	62	27	1,853	2,493	218	66	36	2,813	4,666
11-12pm	1,243	105	47	25	1,420	1,919	139	62	34	2,154	3,574
Totals	43,836	7,151	3,142	673	54,802	46,315	7,170	3,796	912	58,193	112,995
7-10am	8,645	2,411	795	66	11,917	2,988	1,929	549	135	5,601	17,518
10am-1pm	7,595	689	475	47	8,806	4,879	718	749	150	6,496	15,302
1-4pm	6,259	822	261	26	7,368	8,451	677	904	116	10,148	17,516
4-7pm	4,265	1,422	134	15	5,836	11,549	1,903	687	52	14,191	20,027
7am-7pm	26,764	5,344	1,665	154	33,927	27,867	5,227	2,889	453	36,436	70,363
6-10am	12,523	2,930	1,203	121	16,777	3,970	2,233	646	179	7,028	23,805
3-7pm	6,215	1,759	206	20	8,200	14,867	2,179	981	87	18,114	26,314
6am-7pm	30,642	5,863	2,073	209	38,787	28,849	5,531	2,986	497	37,863	76,650

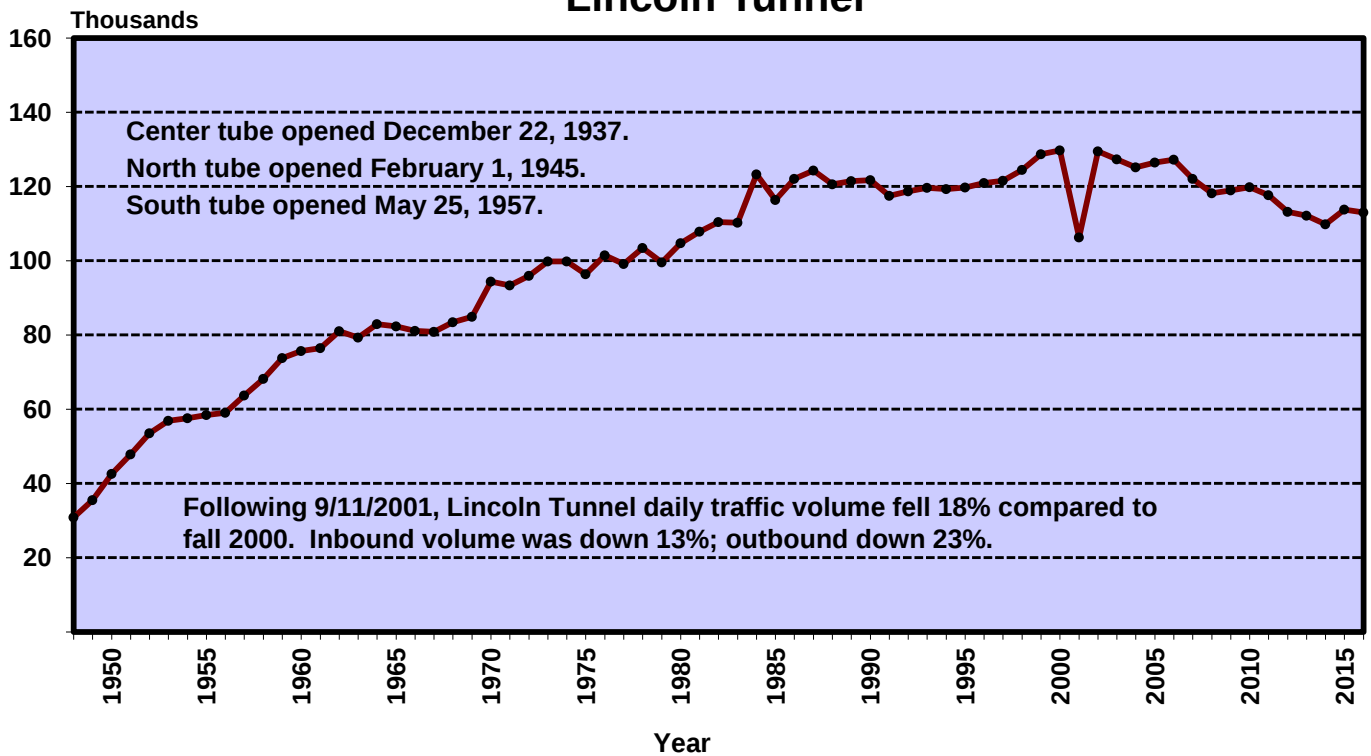
Classification based on 2016 classification data.

** Peak Volumes

Hourly Vehicular Volumes Lincoln Tunnel ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Lincoln Tunnel



Hourly Vehicular Volumes

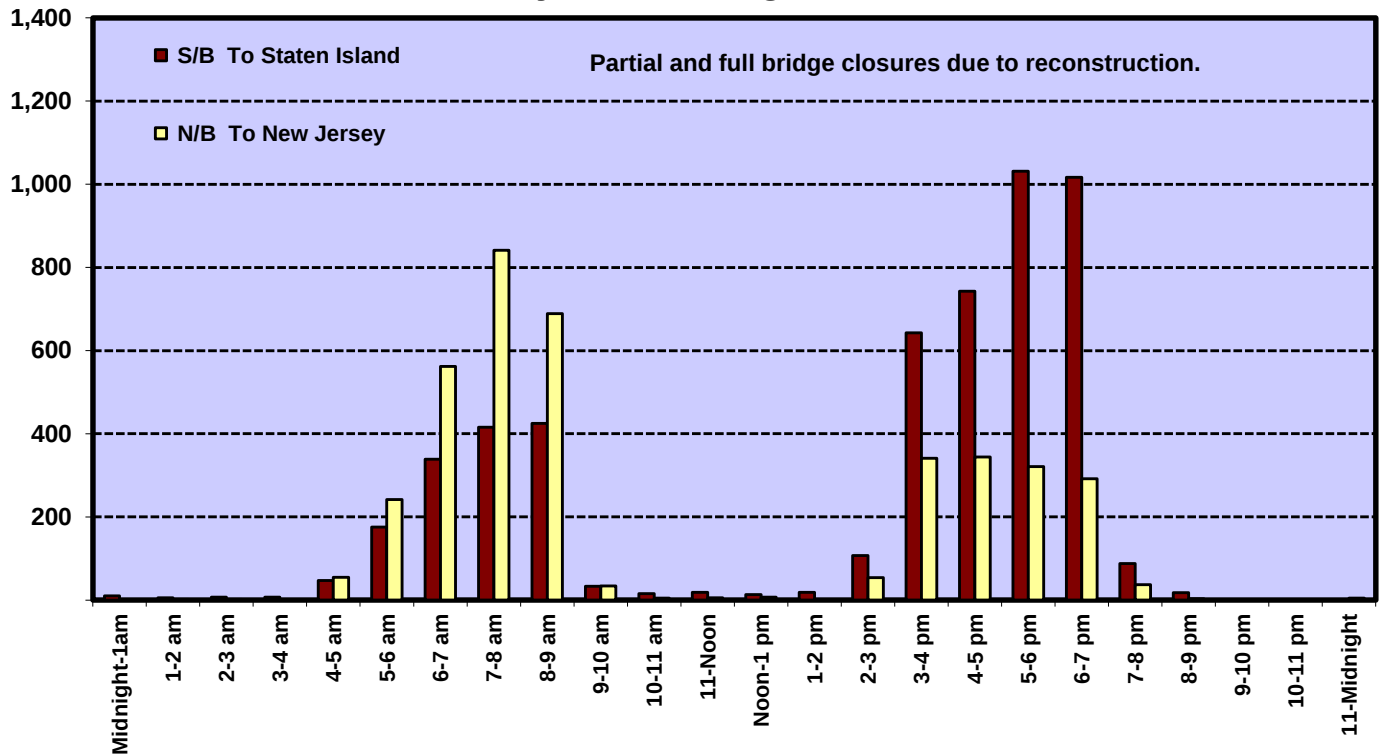
Bayonne Bridge - 2016

	Southbound to Staten Island					Northbound to New Jersey					2-Way Grand Totals
	Autos	Buses	Small Trucks	Large Trucks	Total Vehicles	Autos	Buses	Small Trucks	Large Trucks	Total Vehicles	
12-1am	9	0	1	0	10	0	0	0	0	0	10
1-2am	6	0	0	0	6	2	0	0	0	2	8
2-3am	5	0	2	0	7	0	0	0	2	2	9
3-4am	5	0	1	1	7	0	0	0	0	0	7
4-5am	37	0	3	7	47	50	0	1	4	55	102
5-6am	135	1	16	24	176	226	1	8	7	242	418
6-7am	297	4	17	21	339	546	6	6	4	562	901
7-8am	369	4	23	20	416	811	5	15	10	841	1,257
8-9am	381	7	20	17	425	659	5	15	10	689	1,114
9-10am	28	1	2	2	33	32	1	1	0	34	67
10-11am	14	0	2	0	16	3	0	1	1	5	21
11-12am	16	0	2	1	19	6	0	0	0	6	25
12-1pm	12	0	1	0	13	5	0	2	0	7	20
1-2pm	16	0	2	1	19	1	0	0	0	1	20
2-3pm	103	0	2	2	107	46	0	5	3	54	161
3-4pm	615	1	14	13	643	308	2	23	8	341	984
4-5pm	714	2	17	10	743	309	3	24	8	344	1,087
5-6pm	999	4	20	8	1,031	285	12	22	2	321	1,352
6-7pm	987	5	19	6	1,017	272	4	15	1	292	1,309
7-8pm	85	1	2	0	88	34	2	1	0	37	125
8-9pm	18	0	0	0	18	3	0	0	0	3	21
9-10pm	1	0	0	0	1	0	0	0	1	1	2
10-11pm	0	0	0	0	0	0	0	0	0	0	0
11-12pm	0	0	0	0	0	4	0	0	1	5	5
Totals	4,852	30	166	133	5,181	3,602	41	139	62	3,844	9,025
7-10am	778	12	45	39	874	1,502	11	31	20	1,564	2,438
10am-1pm	42	0	5	1	48	14	0	3	1	18	66
1-4pm	734	1	18	16	769	355	2	28	11	396	1,165
4-7pm	2,700	11	56	24	2,791	866	19	61	11	957	3,748
7am-7pm	4,254	24	124	80	4,482	2,737	32	123	43	2,935	7,417
6-10am	1,075	16	62	60	1,213	2,048	17	37	24	2,126	3,339
3-7pm	3,315	12	70	37	3,434	1,174	21	84	19	1,298	4,732
6am-7pm	4,551	28	141	101	4,821	3,283	38	129	47	3,497	8,318

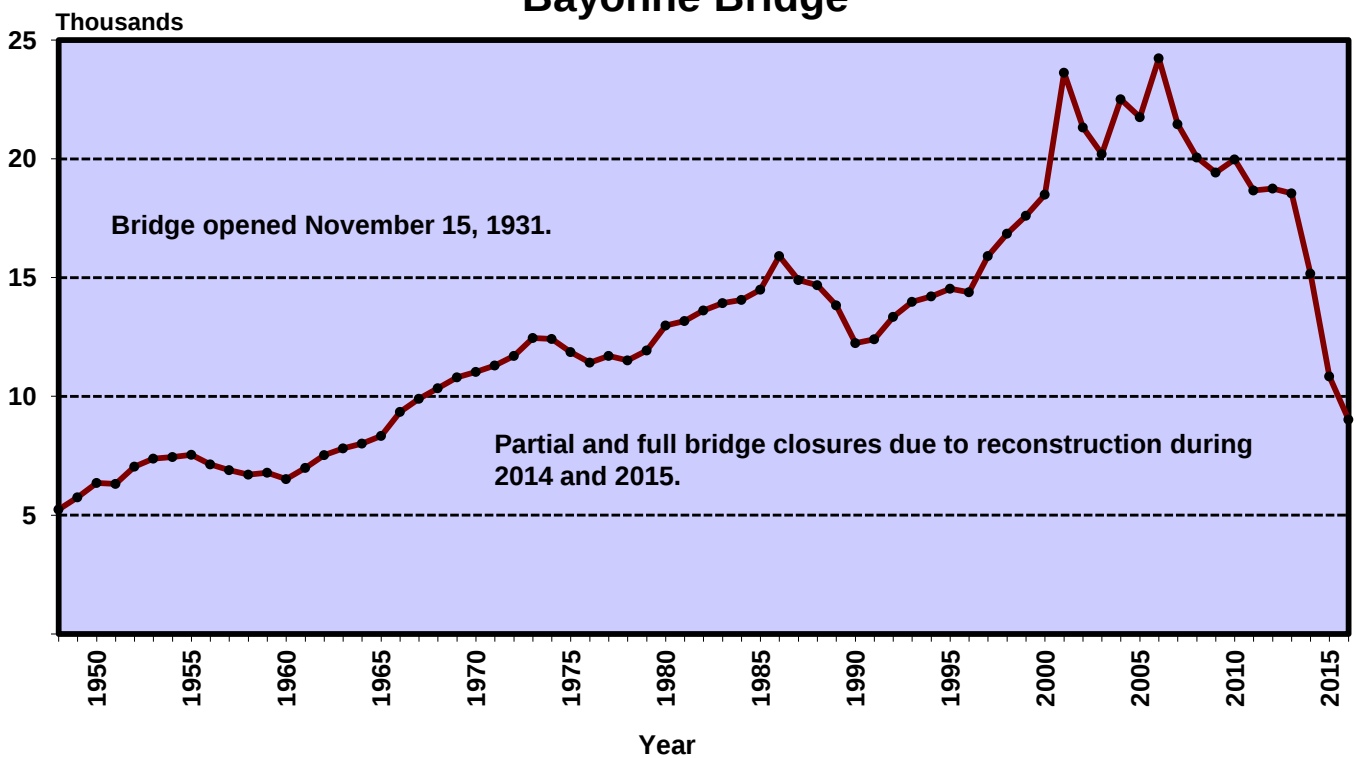
Classification based on Spring 2016 data.

** Peak Volumes

Hourly Vehicular Volumes Bayonne Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Bayonne Bridge



Hourly Vehicular Volumes

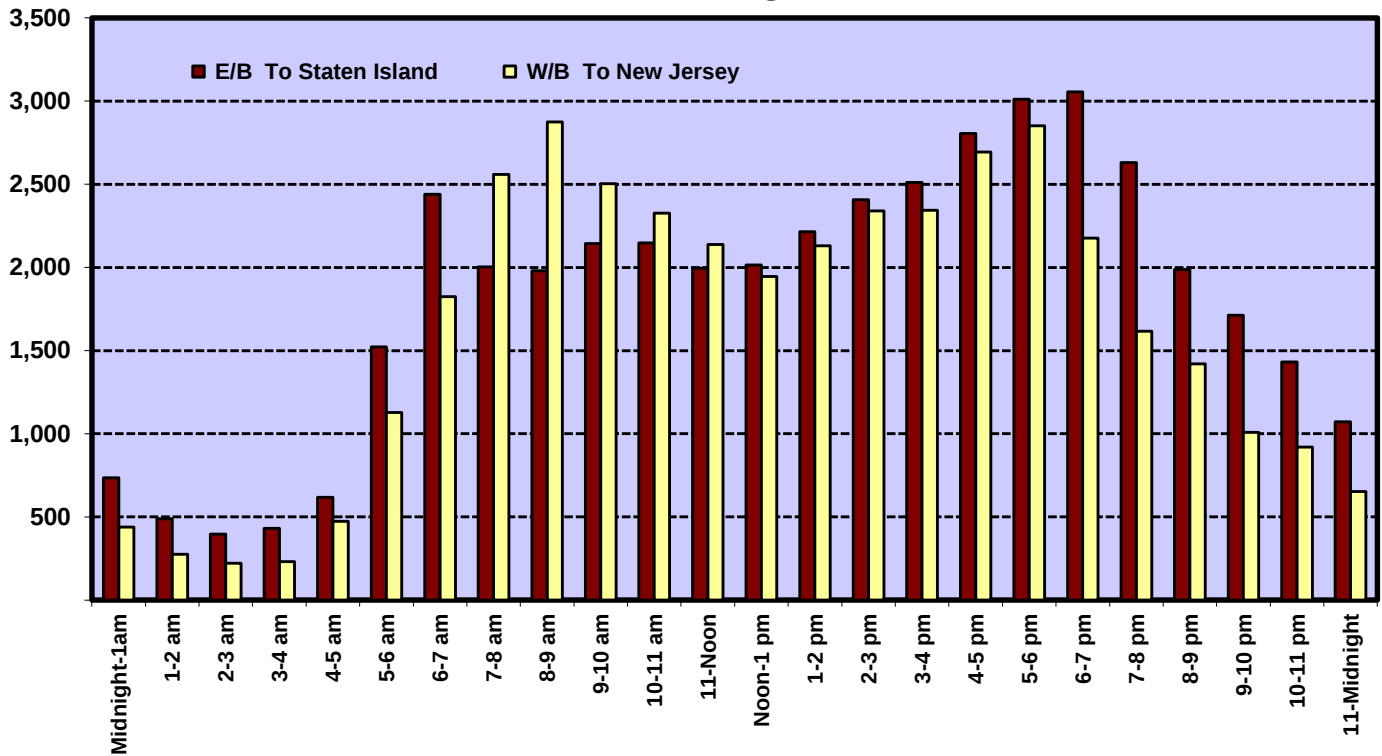
Goethals Bridge - 2016

	Eastbound to Staten Island					Westbound to New Jersey					2-Way Grand Totals
	Autos	Buses	Small Trucks	Large Trucks	Total Vehicles	Autos	Buses	Small Trucks	Large Trucks	Total Vehicles	
12-1am	669	5	16	46	736	395	2	30	13	440	1,176
1-2am	417	3	18	52	490	234	0	20	21	275	765
2-3am	301	5	29	61	396	162	0	30	29	221	617
3-4am	298	3	54	77	432	191	0	14	26	231	663
4-5am	438	4	59	117	618	407	1	35	31	474	1,092
5-6am	1,203	8	132	180	1,523	1,029	13	52	34	1,128	2,651
6-7am	2,103	13	174	150	2,440	1,640	32	85	68	1,825	4,265
7-8am	1,686	18	139	160	2,003	2,328	73	89	69	2,559	4,562
8-9am	1,653	17	147	163	1,980	2,624	48	120	83	2,875	4,855
9-10am	1,772	32	158	181	2,143	2,132	38	171	163	2,504	4,647
10-11am	1,759	32	158	199	2,148	1,947	7	180	192	2,326	4,474
11-12am	1,701	23	120	151	1,995	1,755	4	196	182	2,137	4,132
12-1pm	1,765	8	108	134	2,015	1,672	3	155	116	1,946	3,961
1-2pm	1,949	16	106	144	2,215	1,745	29	219	137	2,130	4,345
2-3pm	2,173	12	103	120	2,408	1,908	23	225	183	2,339	4,747
3-4pm	2,303	26	88	94	2,511	2,001	7	197	138	2,343	4,854
4-5pm	2,639	28	76	63	2,806	2,434	12	154	93	2,693	5,499
5-6pm	2,864	43	52	53	3,012	2,653	7	138	53	2,851	5,863
6-7pm	2,912	50	47	46	3,055	2,038	11	85	42	2,176	5,231
7-8pm	2,514	41	37	38	2,630	1,518	6	65	27	1,616	4,246
8-9pm	1,903	20	31	34	1,988	1,360	1	34	26	1,421	3,409
9-10pm	1,643	9	23	38	1,713	953	3	26	26	1,008	2,721
10-11pm	1,369	7	18	38	1,432	866	1	33	20	920	2,352
11-12pm	1,011	5	14	42	1,072	608	1	22	22	653	1,725
Totals	39,045	428	1,907	2,381	43,761	34,600	322	2,375	1,794	39,091	82,852
7-10am	5,111	67	444	504	6,126	7,084	159	380	315	7,938	14,064
10am-1pm	5,225	63	386	484	6,158	5,374	14	531	490	6,409	12,567
1-4pm	6,425	54	297	358	7,134	5,654	59	641	458	6,812	13,946
4-7pm	8,415	121	175	162	8,873	7,125	30	377	188	7,720	16,593
7am-7pm	25,176	305	1,302	1,508	28,291	25,237	262	1,929	1,451	28,879	57,170
6-10am	7,214	80	618	654	8,566	8,724	191	465	383	9,763	18,329
3-7pm	10,718	147	263	256	11,384	9,126	37	574	326	10,063	21,447
6am-7pm	27,279	318	1,476	1,658	30,731	26,877	294	2,014	1,519	30,704	61,435

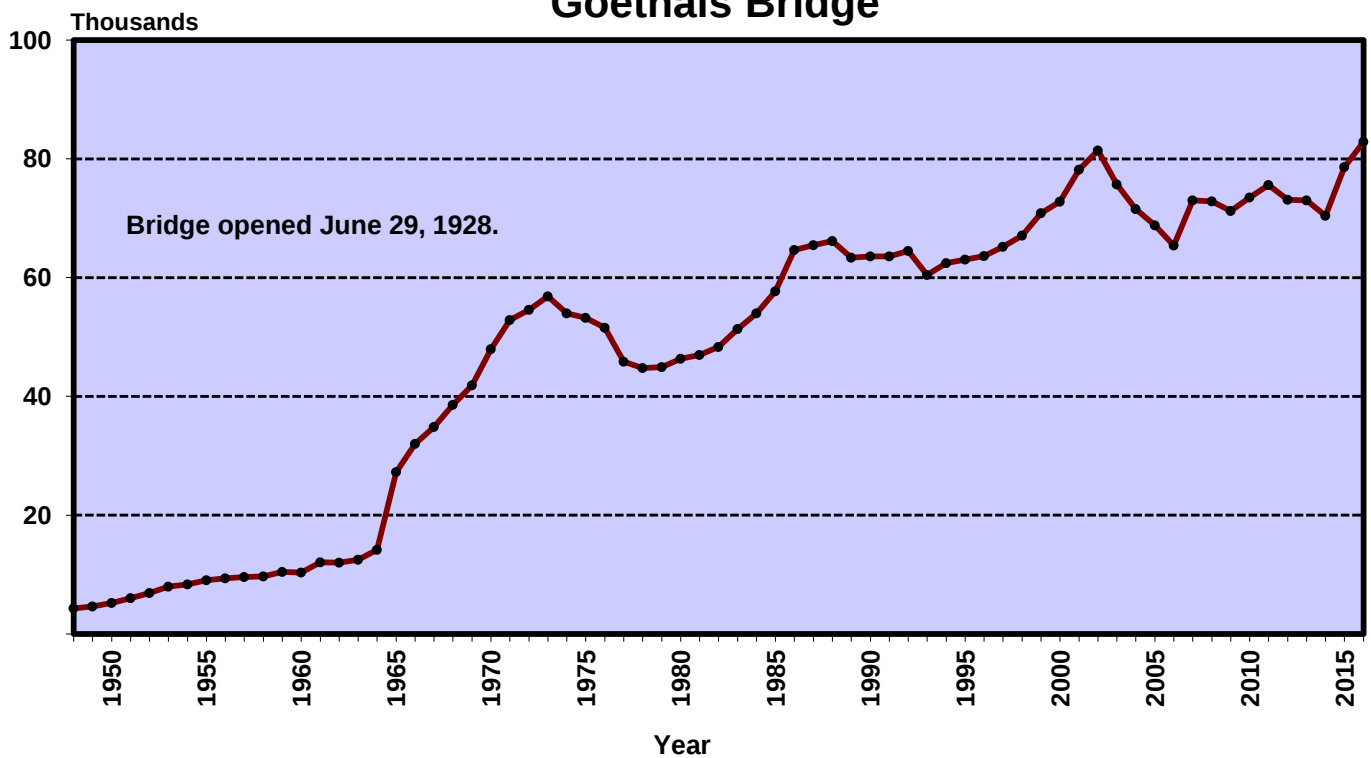
Classification based on Spring 2016 Data.

** Peak Volumes

Hourly Vehicular Volumes Goethals Bridge ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Goethals Bridge



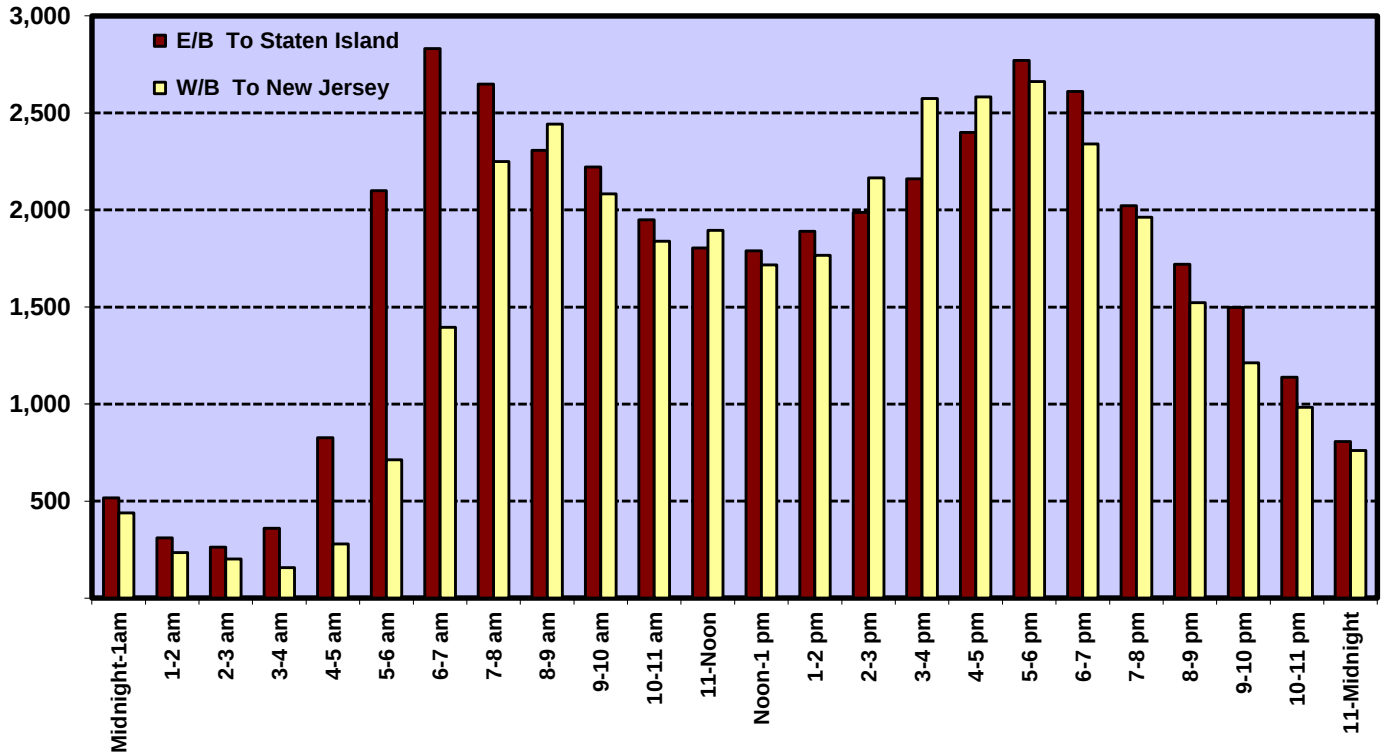
Hourly Vehicular Volumes Outerbridge Crossing - 2016

Eastbound to Staten Island						Westbound to New Jersey						2-Way Grand Totals
Autos	Buses	Small Trucks	Large Trucks	Total Vehicles		Autos	Buses	Small Trucks	Large Trucks	Total Vehicles		
12-1am	441	3	11	61	516		401	3	6	29	439	955
1-2am	229	5	11	65	310		179	2	17	37	235	545
2-3am	173	4	15	71	263		147	1	23	31	202	465
3-4am	220	3	35	102	360		113	0	15	30	158	518
4-5am	607	7	57	156	827		222	2	18	37	279	1,106
5-6am	1,845	15	97	143	2,100		611	1	49	52	713	2,813
6-7am	2,639	17	90	85	2,831	**	1,294	3	48	50	1,395	4,226
7-8am	2,487	5	87	70	2,649		2,118	12	79	40	2,249	4,898
8-9am	2,140	3	95	70	2,308		2,305	10	78	49	2,442	4,750
9-10am	2,031	8	92	90	2,221		1,924	14	81	64	2,083	4,304
10-11am	1,764	6	87	93	1,950		1,687	11	95	46	1,839	3,789
11-12am	1,648	4	71	81	1,804		1,713	6	92	84	1,895	3,699
12-1pm	1,649	4	61	75	1,789		1,564	2	90	61	1,717	3,506
1-2pm	1,769	5	61	55	1,890		1,613	5	89	59	1,766	3,656
2-3pm	1,873	3	64	47	1,987		2,011	1	83	71	2,166	4,153
3-4pm	2,061	7	56	36	2,160		2,454	2	87	32	2,575	4,735
4-5pm	2,318	9	48	24	2,399		2,504	2	52	25	2,583	4,982
5-6pm	2,699	9	37	25	2,770		2,594	5	38	24	2,661	5,431
6-7pm	2,539	7	34	30	2,610		2,267	7	48	18	2,340	4,950
7-8pm	1,945	11	22	44	2,022		1,882	17	38	25	1,962	3,984
8-9pm	1,638	10	18	54	1,720		1,462	11	30	20	1,523	3,243
9-10pm	1,421	4	16	56	1,497		1,152	5	20	36	1,213	2,710
10-11pm	1,054	4	17	64	1,139		924	3	19	38	984	2,123
11-12pm	729	2	13	62	806		701	1	18	40	760	1,566
Totals	37,919	155	1,195	1,659	40,928		33,842	126	1,213	998	36,179	77,107
7-10am	6,658	16	274	230	7,178		6,347	36	238	153	6,774	13,952
10am-1pm	5,061	14	219	249	5,543		4,964	19	277	191	5,451	10,994
1-4pm	5,703	15	181	138	6,037		6,078	8	259	162	6,507	12,544
4-7pm	7,556	25	119	79	7,779		7,365	14	138	67	7,584	15,363
7am-7pm	24,978	70	793	696	26,537		24,754	77	912	573	26,316	52,853
6-10am	9,297	33	364	315	10,009		7,641	39	286	203	8,169	18,178
3-7pm	9,617	32	175	115	9,939		9,819	16	225	99	10,159	20,098
6am-7pm	27,617	87	883	781	29,368		26,048	80	960	623	27,711	57,079

Classification based on Spring 2016 Data.

** Peak Volumes

Hourly Vehicular Volumes Outerbridge Crossing ~ 2016



Average Daily Traffic Volumes ~ Total of Both Directions Outerbridge Crossing

