New York City Bridge Traffic Volumes 2010







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NEW YORK CITY BRIDGE TRAFFIC VOLUMES 2010

2,697,000

vehicles per day used the 47 toll-free bridges monitored by the New York City Department of Transportation in 2010.

0.6% Increase

over the 2,680,000 daily vehicles recorded in 2009.

2.6% Increase

In the daily volume on eight bridges in The Bronx, to 461,100 in 2010 from 449,200 in 2009. Largest percentage increase of any sector.

Alexander Hamilton Bridge over Harlem River

192,200 vehicles per day, the most heavily utilized toll-free bridge in New York City.

4.3% Increase

Midtown Highway Bridge (L.I. Expressway over Dutch Kills in Queens)

Largest increase on bridges carrying more than 50,000 daily vehicles: 87,700 daily vehicles in 2010, up from 84,100 in 2009.

3.0% Decrease

Whitestone Expressway Bridge over the Flushing River in Queens

Largest decrease on bridges carrying more than 50,000 daily vehicles, to 192,100 daily vehicles in 2010 from 198,100 in 2009.

Kosciuszko Bridge over Newtown Creek

190,800 vehicles per day, the most heavily utilized bridge between Brooklyn and Queens.



Whitestone Expressway Bridge over Flushing River

192,100 vehicles per day, the most heavily utilized bridge in Queens.

Queensboro Bridge over East River

177,700 vehicles per day, the most heavily utilized East River crossing.

Eastern Boulevard Bridge over Bronx River

174,200 vehicles per day, the most heavily utilized bridge in The Bronx.

Mill Basin Bridge along Belt Parkway

140,800 vehicles per day, the most heavily utilized bridge in Brooklyn.



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Introduction



INTRODUCTION

The 2010 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), and the Safe, Accountable, Flexible, Efficient Transportation Equity Act –A Legacy For Users (SAFETEA –LU).

Since 1948, the New York City Department of Transportation (NYCDOT) has monitored traffic flow on 47 bridges operated by the City of New York. This 2010 New York City Bridge Traffic Volumes report summarizes vehicular volumes and classification data for the 47 bridges that cross over water. 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).

All 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 62 years are shown in graphical form.

Bridge 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 of the 47 New York City bridges and the MTABT and PANYNJ facilities has been 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. <u>Principal Arterial</u> 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. <u>Minor Arterial</u> 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. <u>Collector Street</u> 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. <u>Local Street</u> 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



SUMMARY

2010 Volumes

- In 2010, daily traffic on the 47 bridges operated by the New York City Department of Transportation increased 0.6%, to 2.697 million from 2.680 million in 2009.
- Daily traffic on the four East River bridges increased 0.4%, to 487,300 in fall 2010 from 485,300 in fall 2009.
- Daily volume using the nine Harlem River bridges increased 1.1%, to 549,600 in fall 2010 from 543,700 in fall 2009.
- Daily traffic using the four bridges over Newtown Creek between Queens and Brooklyn increased 1.3%, to 267,100 in 2010 from 263,600 in 2009.
- On the eight bridges in The Bronx, daily traffic increased 2.6%, to 461,100 from 449,200.
- On the ten bridges in Brooklyn, daily traffic decreased 0.8%, to 328,000 from 330,600.
- On the eleven bridges in Queens, daily traffic decreased 0.8%, to 538,200 from 542,700.
- Daily traffic on the Fresh Kills Bridge in Staten Island increased 1.7%, to 65,600 from 64,500.
- The most heavily used City—operated water crossings in 2010 were the Alexander Hamilton Bridge over the Harlem River between Manhattan and The Bronx (192,200 vehicles per day), the Whitestone Expressway Bridge over the Flushing River in Queens (192,100 vehicles per day), and the Kosciuszko Bridge over Newtown Creek between Queens and Brooklyn (190,800 vehicles per day).
- Other high volume bridges were the Queensboro Bridge over the East River between Manhattan and Queens (177,700), the Eastern Boulevard Bridge over the Bronx River in The Bronx (174,200), the Mill Basin Bridge on the Belt Parkway in Brooklyn (140,800), the Brooklyn Bridge over the East River between Brooklyn and Manhattan (123,600), and the Hutchinson River Parkway Bridge in The Bronx (122,400).

Major Increases

- On bridges carrying more than 50,000 daily vehicles, the largest percentage and numerical increase occurred on the Midtown Highway Bridge (Long Island Expressway) over Dutch Kills in Queens, where daily traffic increased 4.3%, to 87,700 daily vehicles in 2010 from 84,100 in 2009 (3,600 additional daily vehicles).
- On bridges carrying fewer than 50,000 daily vehicles, the Eastchester Bridge along Boston Road over the Hutchinson River in The Bronx had the highest percentage and numerical increase, with daily traffic increasing by 24.8%, to 25,400 vehicles in 2010 from 20,300 in 2009 (5,100 additional daily vehicles).

Major Decreases

- On bridges carrying more than 50,000 daily vehicles, the Whitestone Expressway Bridge over the Flushing River in Queens showed the largest percentage and numerical decline, as daily

- volume decreased by 3.0% to 192,100 daily vehicles in 2010 from 198,100 in 2009 (6,000 fewer daily vehicles).
- On bridges carrying fewer than 50,000 daily vehicles, the Rikers Island Bridge in Queens showed the largest percentage and numerical reduction: -14.6%, to 13,200 daily vehicles in 2010 from 15,400 in 2009 (2,200 fewer daily vehicles).

2009-2010 Traffic Volume Trends N.Y.C. Bridges and Tunnels Both Directions Page 1 of 3

| EAST RIVER BRIDGES | Highway Functional Classification | 2009 | 2010 | Percent Change |
|---|-----------------------------------|---------|---------|-------------------|
| Brooklyn Bridge | Principal Arterial | 125,021 | 123,640 | - 1.1 % |
| Manhattan Bridge | Principal Arterial | 71,936 | 74,777 | 3.9 % |
| Queensboro Bridge | Principal Arterial | 180,162 | 177,695 | - 1.4 % |
| Williamsburg Bridge | Principal Arterial | 108,194 | 111,189 | 2.8 % |
| Total, 4 East River Bridges | | 485,313 | 487,301 | 0.4 % |
| HARLEM RIVER BRIDGES | | | | |
| Alexander Hamilton Bridge | Interstate | 191,646 | 192,213 | 0.3 % |
| Broadway Bridge | Principal Arterial | 35,566 | 37,292 | 4.9 % |
| Macombs Dam Bridge | Principal Arterial | 39,508 | 39,627 | 0.3 % |
| Madison Avenue Bridge | Principal Arterial | 43,480 | 42,966 | - 1.2 % |
| Third Avenue Bridge | Principal Arterial | 59,039 | 60,549 | 2.6 % |
| University Heights Bridge | Principal Arterial | 39,165 | 39,230 | 0.2 % |
| Washington Bridge | Minor Arterial | 52,420 | 52,014 | - 0.8 % |
| Willis Avenue Bridge | Principal Arterial | 58,548 | 56,934 | - 2.8 % |
| 145th Street Bridge | Minor Arterial | 24,364 | 28,749 | 18.0 % |
| Total, 9 Harlem River Bridges | | 543,736 | 549,574 | 1.1 % |
| BROOKLYN-QUEENS BRIDGES | | | | |
| Grand Street Bridge | Principal Arterial | 12,576 | 12,662 | 0.7 % |
| J.J. Byrne Memorial Bridge * | Principal Arterial | 26,637 | 26,716 | 0.3 % |
| Kosciuszko Bridge | Interstate | 188,322 | 190,753 | 1.3 % |
| Pulaski Bridge | Principal Arterial | 36,103 | 36,981 | 2.4 % |
| Total, 4 Brooklyn-Queens Bridges (Over Newtow | vn Creek) | 263,638 | 267,112 | 1.3 % |
| BRONX BRIDGES | | | | |
| City Island Bridge | Minor Arterial | 14,313 | 15,380 | 7.5 % |
| East 174th Street Bridge | Minor Arterial | 14,130 | 16,499 | 16.8 % |
| Eastchester Bridge | Principal Arterial | 20,329 | 25,374 | 24.8 % |
| Eastern Boulevard Bridge | Interstate | 176,800 | 174,168 | - 1.5 % |
| Hutchinson River Bridge | Principal Arterial | 119,285 | 122,416 | 2.6 % |
| Pelham Bridge | Minor Arterial | 17,521 | 17,159 | - 2.1 % |
| Unionport Bridge | Principal Arterial | 61,700 | 64,098 | 3.9 % |
| Westchester Avenue Bridge | Principal Arterial | 25,131 | 25,978 | 3.4 % |
| Total, 8 Bronx Bridges | | 449,209 | 461,072 | 2.6 % |

^{*} Also known as Greenpoint Avenue Bridge.

2009-2010 Traffic Volume Trends N.Y.C. Bridges and Tunnels Both Directions Page 2 of 3

| BROOKLYN BRIDGES | Highway Functional Classification | 2009 | 2010 | Percent Change |
|----------------------------|-----------------------------------|-----------|-----------|-------------------|
| Carroll Street Bridge | Local | 956 | 994 | 4.0 % |
| Cropsey Avenue Bridge | Principal Arterial | 36,379 | 37,411 | 2.8 % |
| Hamilton Avenue Bridge | Principal Arterial | 55,577 | 55,252 | - 0.6 % |
| Metropolitan Avenue Bridge | Principal Arterial | 37,557 | 38,279 | 1.9 % |
| Mill Basin Bridge | Principal Arterial | 144,536 | 140,800 | - 2.6 % |
| Ninth Street Bridge | Minor Arterial | 13,251 | 12,567 | - 5.2 % |
| Stillwell Avenue Bridge | Principal Arterial | 10,302 | 9,884 | - 4.1 % |
| Third Avenue Bridge | Principal Arterial | 17,587 | 18,088 | 2.8 % |
| Third Street Bridge | Minor Arterial | 10,028 | 10,390 | 3.6 % |
| Union Street Bridge | Minor Arterial | 4,441 | 4,319 | - 2.7 % |
| Total, 10 Brooklyn Bridges | | 330,614 | 327,984 | - 0.8 % |
| QUEENS BRIDGES | | | | |
| Borden Avenue Bridge | Minor Arterial | Closed | Closed | |
| Flushing Bridge | Principal Arterial | 54,941 | 54,690 | - 0.5 % |
| Hook Creek Bridge | Principal Arterial | 75,108 | 74,064 | - 1.4 % |
| Hunters Point Bridge | Collector | 16,467 | 15,792 | - 4.1 % |
| Joseph P. Addabbo Bridge * | Principal Arterial | 24,237 | 23,882 | - 1.5 % |
| Little Neck Bridge | Principal Arterial | 47,695 | 49,731 | 4.3 % |
| Midtown Highway Bridge | Interstate | 84,048 | 87,692 | 4.3 % |
| Rikers Island Bridge | Collector | 15,436 | 13,186 | - 14.6 % |
| Roosevelt Avenue Bridge | Principal Arterial | 17,168 | 17,268 | 0.6 % |
| Roosevelt Island Bridge | Collector | 9,454 | 9,800 | 3.7 % |
| Whitestone Expwy Bridge | Interstate | 198,124 | 192,092 | - 3.0 % |
| Total, 11 Queens Bridges | | 542,678 | 538,197 | - 0.8 % |
| STATEN ISLAND | | | | |
| Fresh Kills Bridge | Principal Arterial | 64,490 | 65,612 | 1.7 % |
| | | | | |
| TOLL-FREE GRAND TOTALS | | 2,679,678 | 2,696,852 | 0.6 % |

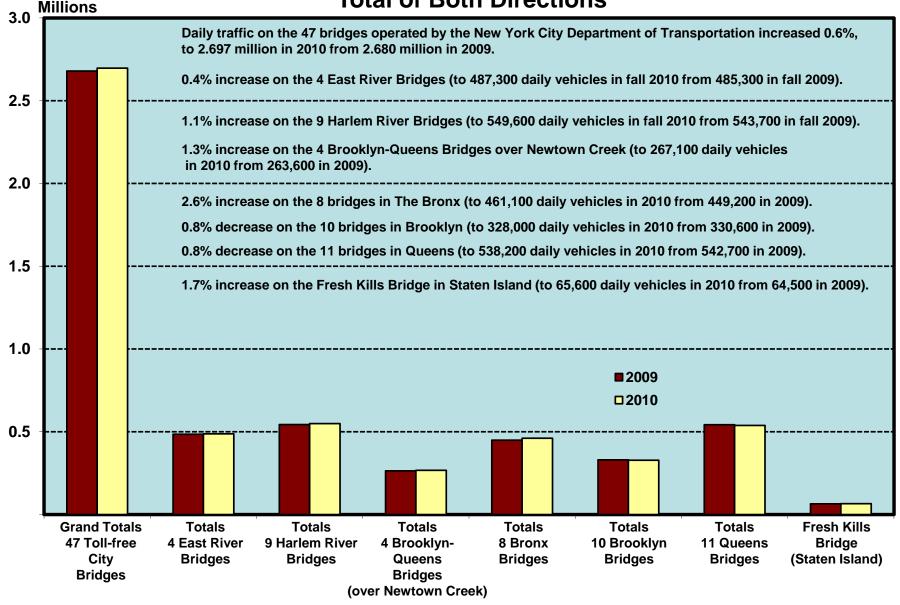
^{*} Also known as North Channel Bridge.

2009-2010 Traffic Volume Trends N.Y.C. Bridges and Tunnels Both Directions Page 3 of 3

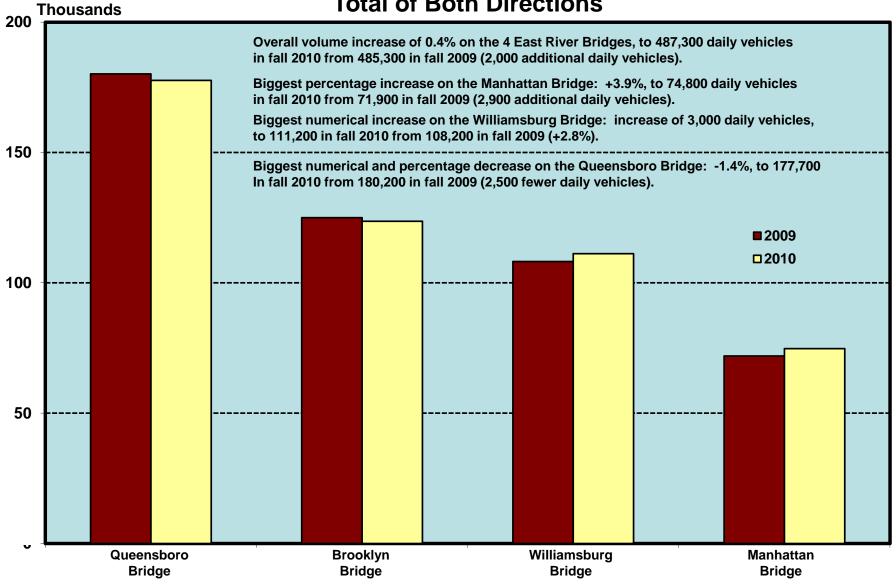
| MTABT Manhattan Facilities | Highway Functional Classification | 2009 | 2010 | Percent Change |
|---|-----------------------------------|-------------------|-------------------|-------------------|
| Brooklyn-Battery Tunnel | Interstate | 50.674 | 54,187 | 6.9 % |
| Henry Hudson Bridge | Principal Arterial | 66,607 | 69.641 | 4.6 % |
| Queens-Midtown Tunnel | Interstate | 85,144 | 88,014 | 3.4 % |
| R.F.K. Memorial Bridge Manhattan Plaza * | Principal Arterial | 91,731 | 93,455 | 1.9 % |
| Total, 4 MTABT Manhattan Crossings | | 294,156 | 305,297 | 3.8 % |
| PANYNJ Manhattan Facilities | | | | |
| George Washington Bridge | Interstate | 289,694 | 292,047 | 0.8 % |
| Holland Tunnel | Interstate | 96,184 | 94,667 | - 1.6 % |
| Lincoln Tunnel | Principal Arterial | 118,982 | 119,832 | 0.7 % |
| Total, 3 PANYNJ Manhattan - New Jersey Crossing | js | 504,860 | 506,546 | 0.3 % |
| MTABT Outer Borough Bridges | | 440.070 | 400.000 | 0.5.07 |
| Bronx-Whitestone Bridge | Interstate | 112,978 | 103,366 | - 8.5 % |
| Cross Bay Bridge | Minor Arterial | 21,762 | 21,135 | - 2.9 % |
| Marine Parkway Gil Hodges Memorial Bridge | Minor Arterial | 22,067 | 22,215 | 0.7 % 4.8 % |
| R.F.K. Memorial Bridge Bronx Plaza * Throgs Neck Bridge | Interstate Interstate | 78,459 107,324 | 82,189 112,712 | 4.6 % 5.0 % |
| Verrazano-Narrows Bridge | Interstate | 202,052 | 204,181 | 1.1 % |
| Total, 6 MTABT Outer Borough Bridges | | 544,642 | 545,798 | 0.2 % |
| PANYNJ Staten Island Bridges | | | | |
| Bayonne Bridge | Principal Arterial | 19,422 | 19,981 | 2.9 % |
| Goethals Bridge | Interstate | 71,230 | 73,486 | 3.2 % |
| Outerbridge Crossing | Principal Arterial | 74,852 | 74,665 | - 0.2 % |
| Total, 3 Staten Island - New Jersey Bridges | - | 165,504 | 168,132 | 1.6 % |

^{*} Formerly Triborough Bridge.

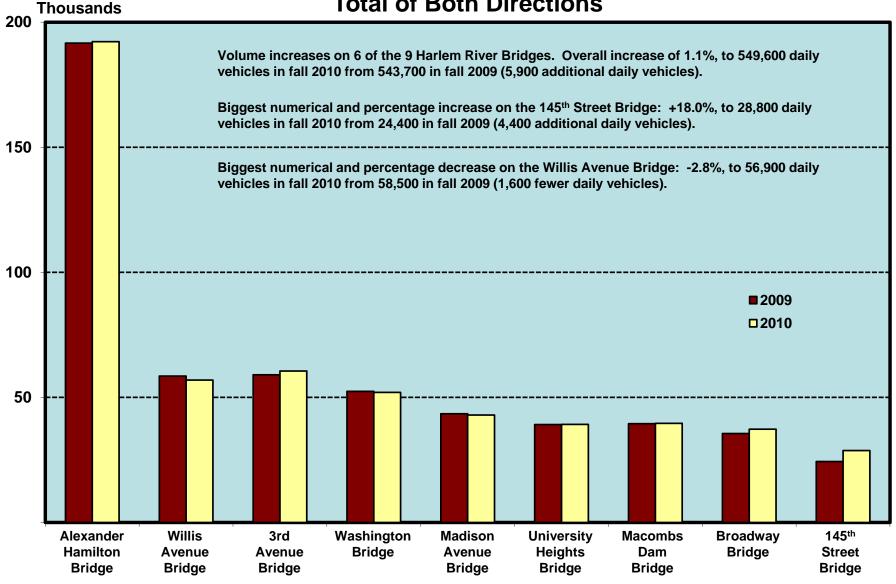
New York City Toll-free Bridges Daily Volumes 2010 vs. 2009



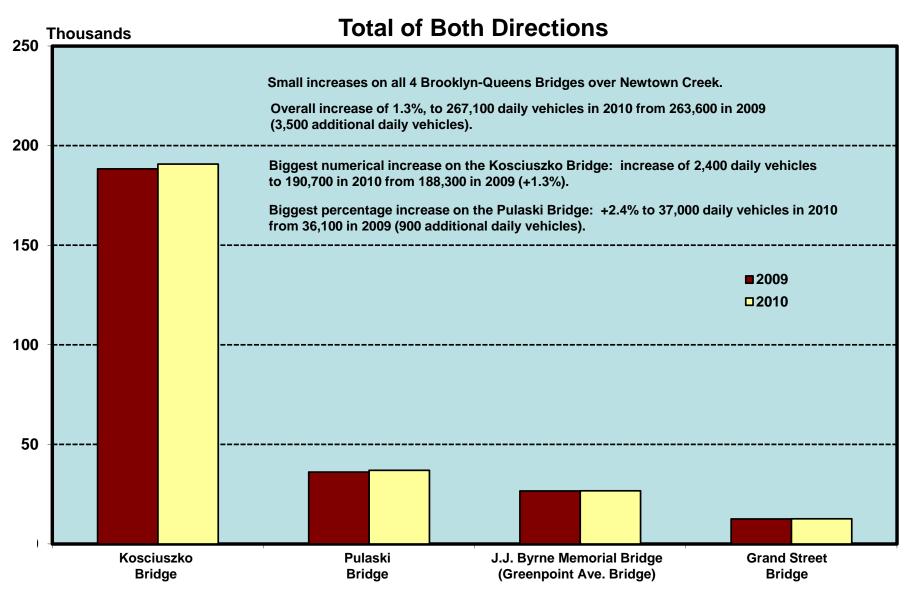
East River Bridges Daily Volumes 2010 vs. 2009



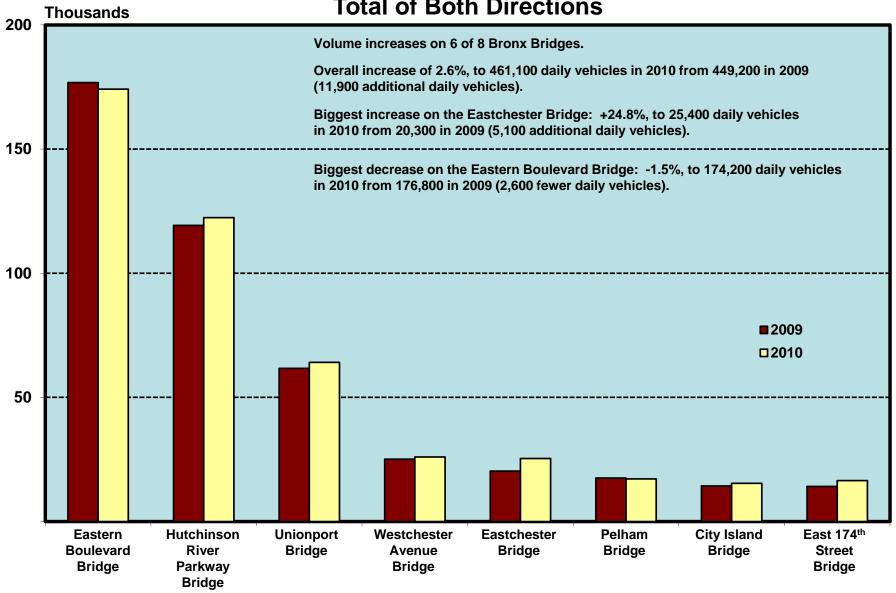
Harlem River Bridges Daily Volumes 2010 vs. 2009



Brooklyn-Queens (Newtown Creek) Bridges Daily Volumes 2010 vs. 2009

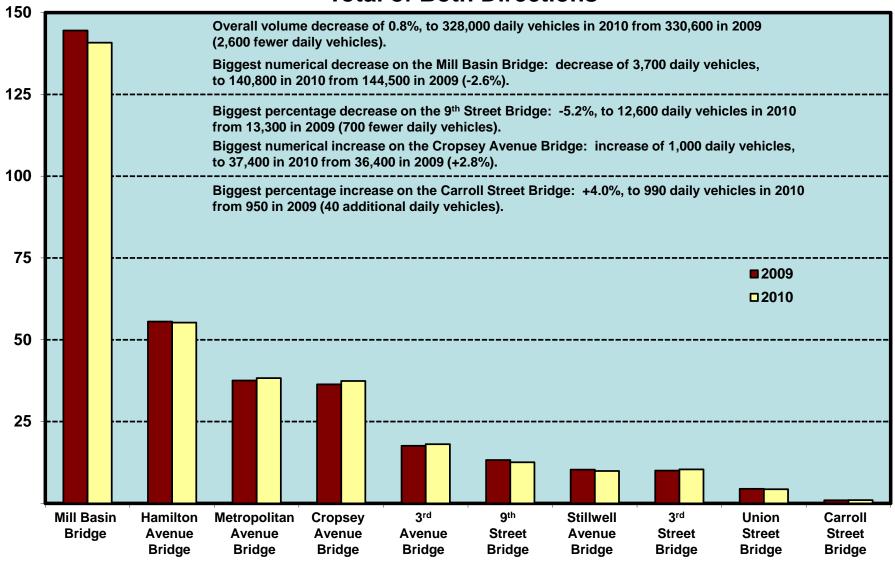


Bronx Bridges Daily Volumes 2010 vs. 2009

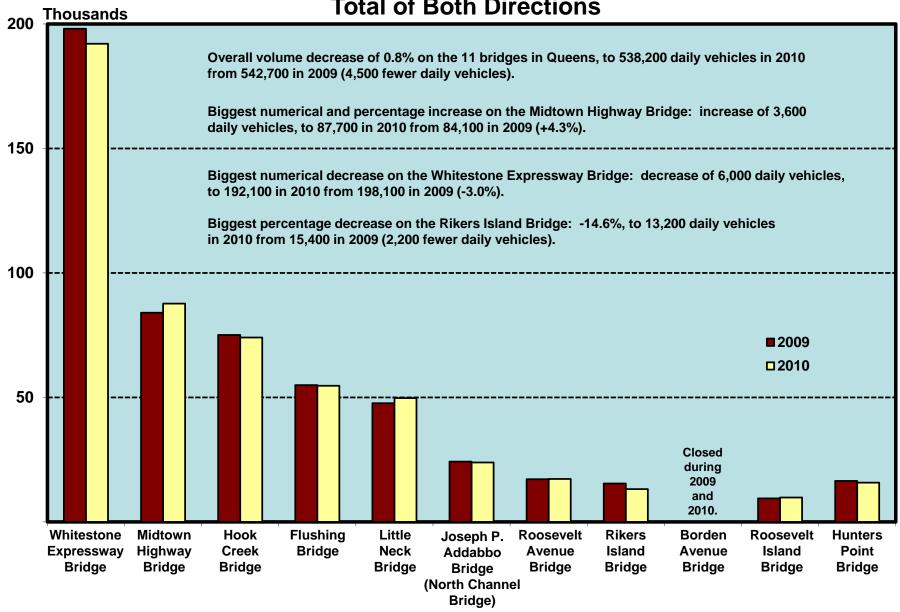


Brooklyn Bridges Daily Volumes 2010 vs. 2009

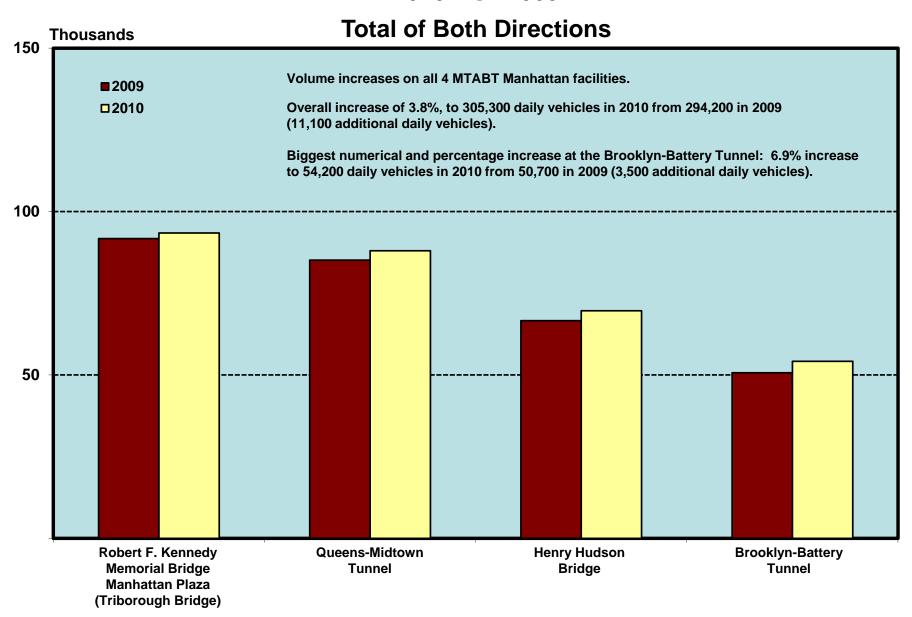
Thousands



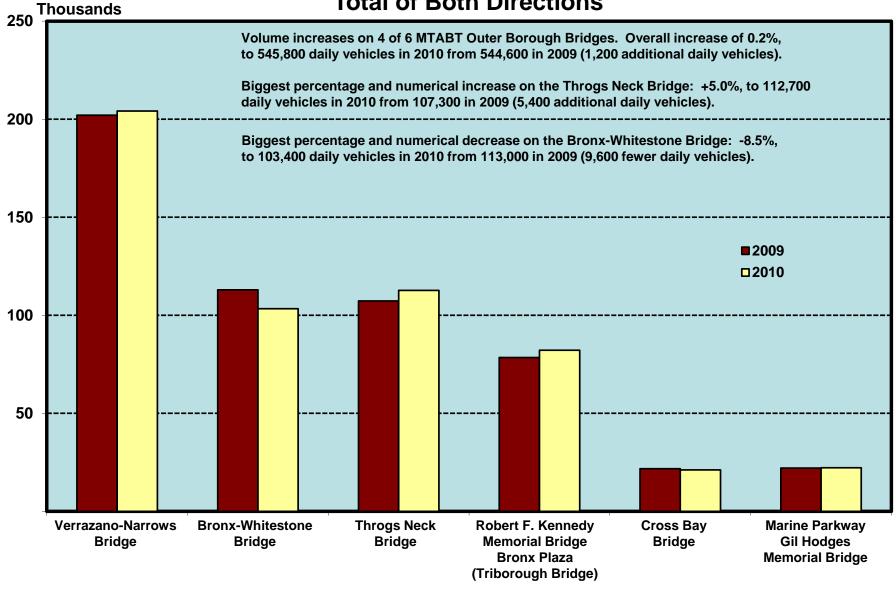
Queens Bridges Daily Volumes 2010 vs. 2009



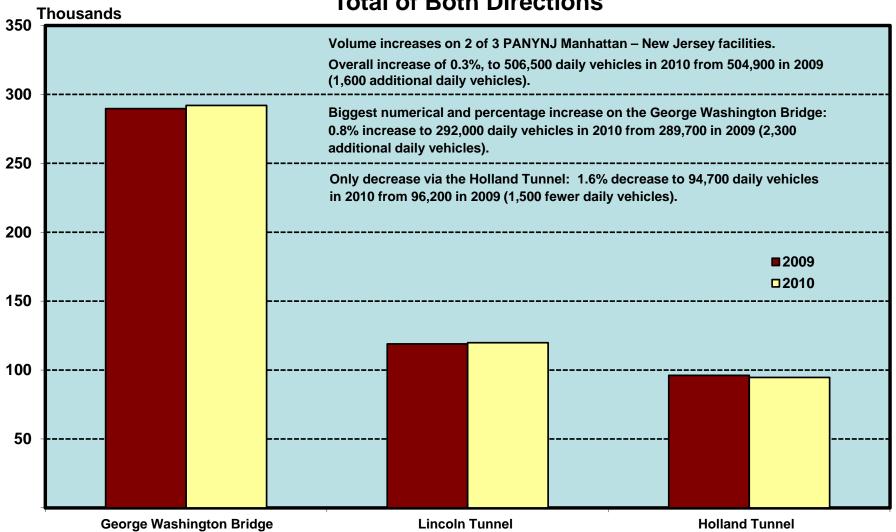
Metropolitan Transportation Authority Bridges & Tunnels (MTABT) Manhattan Facilities Daily Volumes 2010 vs. 2009



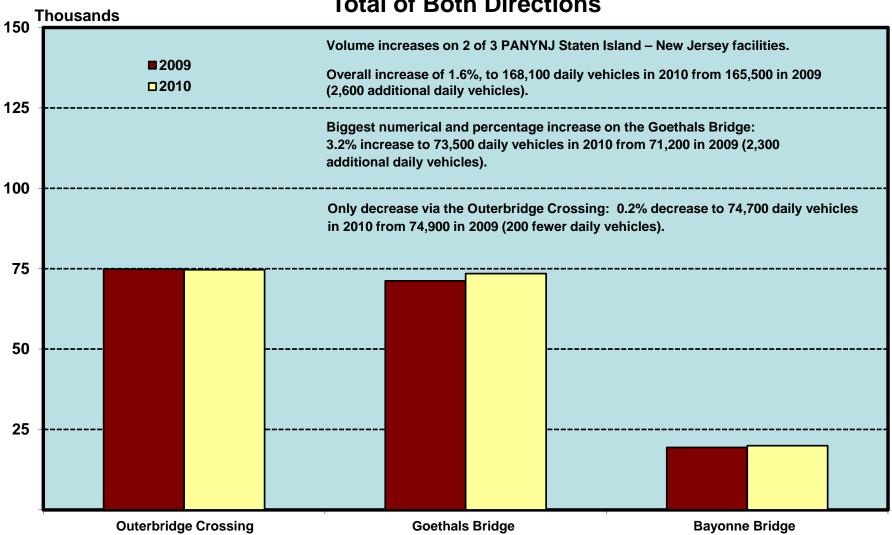
Metropolitan Transportation Authority Bridges & Tunnels (MTABT) Outer Borough Bridges Daily Volumes 2010 vs. 2009



Port Authority of New York & New Jersey (PANYNJ) Manhattan – N.J. Facilities Daily Volumes 2010 vs. 2009



Port Authority of New York & New Jersey (PANYNJ) **Staten Island – N.J. Facilities Daily Volumes** 2010 vs. 2009



Ten-Year Trends 2000 - 2010

Ten-Year Trends: 2000 - 2010

- Total traffic on the 47 City-operated bridges decreased 1.9% during this ten-year period, to 2,696,900 daily vehicles in 2010 from 2,747,800 in 2000.
- Traffic on the four toll-free East River bridges decreased 5.3%, to 487,300 daily vehicles in 2010 from 514,800 in 2000. The greatest numerical and percentage decrease occurred on the Brooklyn Bridge, where daily volume decreased by 16.3%, to 123,600 vehicles in 2010 from 147,800 in 2000. The only increase was on the Williamsburg Bridge (+2.6%, to 111,200 daily vehicles from 108,400).
- Traffic on the nine toll-free Harlem River bridges decreased 5.0%, to 549,600 in 2010 from 578,800 in 2000. The greatest percentage decrease occurred on the Washington Bridge, where daily volume decreased by 23.6%, to 52,000 in 2010 from 68,100 in 2000. The greatest numerical decrease occurred on the Willis Avenue Bridge, where daily volume decreased to 56,900 in 2010 from 73,200 in 2000. The biggest numerical and percentage increase was on the Macombs Dam Bridge (+88.6%, to 39,600 daily vehicles in 2010 from 21,000 in 2000). Capacity was reduced on the Macombs Dam Bridge during 2000 due to reconstruction activities. Volume returned to normal levels in 2001 (39,600 vehicles per day). In 2002, additional reconstruction reduced capacity again, and volume decreased to 18,900 daily vehicles. Volume rebounded fully in 2003, to 42,300 daily vehicles, and has remained above 38,900 daily vehicles ever since.
- On the four bridges over Newtown Creek between Brooklyn and Queens, daily traffic decreased 4.6%, to 267,100 daily vehicles in 2010 from 279,900 in 2000. The greatest percentage decrease was recorded on the Grand Street Bridge (-18.4%, to 12,700 daily vehicles in 2010 from 15,500 in 2000). The greatest numerical decrease occurred on the Kosciuszko Bridge, where daily volume decreased to 190,800 in 2010 from 200,900 in 2000 (-5.0%). The only increase occurred on the J.J. Byrne Memorial Bridge (Greenpoint Avenue Bridge), where daily volume increased by 2.2%, to 26,700 in 2010 from 26,100 in 2000.
- Daily volume on the eight bridges in the Bronx increased 8.5%, to 461,100 daily vehicles in 2010 from 424,900 in 2000. The greatest numerical increase occurred on the Hutchinson River Parkway Bridge, where volume increased by 16,600 daily vehicles, to 122,400 in 2010 from 105,800 in 2000 (+15.7%). The greatest percentage increase occurred on the East 174th Street Bridge (+39.4%, to 16,500 daily vehicles from 11,800). The greatest numerical and percentage decrease occurred on the Pelham Bridge, where daily volume decreased by 25.4%, to 17,200 in 2010 from 23,000 in 2000.
- Average daily traffic on the ten bridges in Brooklyn decreased 0.9%, to 328,000 daily vehicles in 2010 from 331,100 in 2000. The greatest percentage decrease was recorded on the Carroll Street Bridge (-21.4%, to 1,000 daily vehicles in 2010 from 1,300 in 2000). The greatest numerical decrease occurred on the Hamilton Avenue Bridge, where daily volume decreased to 55,300 in 2010 from 59,600 in 2000 (-7.2%). The greatest numerical increase was on the Cropsey Avenue Bridge, an increase of 7,100 daily vehicles, to 37,400 in 2010 from 30,300 in 2000 (+23.3%). The greatest percentage increase occurred on the Ninth Street Bridge, where daily volume increased by 70.9%, to 12,600 in 2010 from 7,400 in 2000 (5,200 additional daily vehicles).
- Traffic on the eleven bridges in Queens decreased 2.4%, to 538,200 daily vehicles in 2010 from 551,300 in 2000. The greatest numerical increase occurred on the Midtown Highway Bridge, where volume increased by 8,000 daily vehicles, to 87,700 in 2010 from 79,700 in 2000 (+10.1%). The greatest percentage increase occurred on the Hunters Point Avenue Bridge (+86.3%, to 15,800 daily vehicles from 8,500). Much of this increase was traffic diverted from the nearby Borden Avenue Bridge which was closed for reconstruction during

2010. The greatest percentage decrease was recorded on the Roosevelt Avenue Bridge (-24.1%, to 17,300 daily vehicles in 2010 from 22,700 in 2000). The greatest numerical decrease occurred on the Flushing Bridge, where daily volume decreased by 11,500, to 54,700 in 2010 from 66,200 in 2000 (-17.4%).

10-Year Traffic Volume Trends ~ 2000-2010 N.Y.C. Bridges and Tunnels Both Directions Page 1 of 3

| EAST RIVER BRIDGES | Highway Functional Classification | 2000 | 2010 | Percent Change |
|---|-----------------------------------|---------|---------|---------------------|
| Brooklyn Bridge | Principal Arterial | 147,767 | 123,640 | - 16.3 % |
| Manhattan Bridge | Principal Arterial | 75,684 | 74,777 | - 10.3 % - 1.2 % |
| Queensboro Bridge | Principal Arterial | 182,940 | 177,695 | - 2.9 % |
| Williamsburg Bridge | Principal Arterial | 108,376 | 111,189 | 2.6 % |
| | T Incipal Alteria | | 111,109 | |
| Total, 4 East River Bridges | | 514,767 | 487,301 | - 5.3 % |
| HARLEM RIVER BRIDGES | | | | |
| Alexander Hamilton Bridge | Interstate | 177,899 | 192,213 | 8.0 % |
| Broadway Bridge | Principal Arterial | 37,990 | 37,292 | - 1.8 % |
| Macombs Dam Bridge | Principal Arterial | 21,008 | 39,627 | 88.6 % |
| Madison Avenue Bridge | Principal Arterial | 47,583 | 42,966 | - 9.7 % |
| Third Avenue Bridge | Principal Arterial | 73,121 | 60,549 | - 17.2 % |
| University Heights Bridge | Principal Arterial | 45,557 | 39,230 | - 13.9 % |
| Washington Bridge | Minor Arterial | 68,075 | 52,014 | - 23.6 % |
| Willis Avenue Bridge | Principal Arterial | 73,175 | 56,934 | - 22.2 % |
| 145th Street Bridge | Minor Arterial | 34,362 | 28,749 | - 16.3 % |
| Total, 9 Harlem River Bridges | | 578,770 | 549,574 | - 5.0 % |
| BROOKLYN-QUEENS BRIDGES | | | | |
| Grand Street Bridge | Principal Arterial | 15,508 | 12,662 | - 18.4 % |
| J.J. Byrne Memorial Bridge * | Principal Arterial | 26,143 | 26,716 | 2.2 % |
| Kosciuszko Bridge | Interstate | 200,872 | 190,753 | - 5.0 % |
| Pulaski Bridge | Principal Arterial | 37,421 | 36,981 | - 1.2 % |
| Total, 4 Brooklyn-Queens Bridges (Over Newt | own Creek) | 279,944 | 267,112 | - 4.6 % |
| BRONX BRIDGES | | | | |
| City Island Bridge | Minor Arterial | 18,844 | 15,380 | - 18.4 % |
| East 174th Street Bridge | Minor Arterial | 11,838 | 16,499 | 39.4 % |
| Eastchester Bridge | Principal Arterial | 22,583 | 25,374 | 12.4 % |
| Eastern Boulevard Bridge | Interstate | 163,954 | 174,168 | 6.2 % |
| Hutchinson River Bridge | Principal Arterial | 105,792 | 122,416 | 15.7 % |
| Pelham Bridge | Minor Arterial | 23,007 | 17,159 | - 25.4 % |
| Unionport Bridge | Principal Arterial | 49,006 | 64,098 | 30.8 % |
| Westchester Avenue Bridge | Principal Arterial | 29,922 | 25,978 | - 13.2 % |
| Total, 8 Bronx Bridges | | 424,946 | 461,072 | 8.5 % |

^{*} Also known as Greenpoint Avenue Bridge.

10-Year Traffic Volume Trends ~ 2000-2010 N.Y.C. Bridges and Tunnels Both Directions Page 2 of 3

| BROOKLYN BRIDGES | Highway Functional Classification | 2000 | 2010 | Percent Change |
|----------------------------|--------------------------------------|-----------|-----------|-------------------|
| Carroll Street Bridge | Local | 1,265 | 994 | - 21.4 % |
| Cropsey Avenue Bridge | Principal Arterial | 30,334 | 37,411 | 23.3 % |
| Hamilton Avenue Bridge | Principal Arterial | 59,557 | 55,252 | - 7.2 % |
| Metropolitan Avenue Bridge | Principal Arterial | 41,238 | 38,279 | - 7.2 % |
| Mill Basin Bridge | Principal Arterial | 145,070 | 140,800 | - 2.9 % |
| Ninth Street Bridge | Minor Arterial | 7,355 | 12,567 | 70.9 % |
| Stillwell Avenue Bridge | Principal Arterial | 9,103 | 9,884 | 8.6 % |
| Third Avenue Bridge | Principal Arterial | 22,084 | 18,088 | - 18.1 % |
| Third Street Bridge | Minor Arterial | 10,231 | 10,390 | 1.6 % |
| Union Street Bridge | Minor Arterial | 4,853 | 4,319 | - 11.0 % |
| Total, 10 Brooklyn Bridges | | 331,090 | 327,984 | - 0.9 % |
| QUEENS BRIDGES | | | | |
| Borden Avenue Bridge | Minor Arterial | 15,063 | Closed | |
| Flushing Bridge | Principal Arterial | 66,243 | 54,690 | - 17.4 % |
| Hook Creek Bridge | Principal Arterial | 74,130 | 74,064 | - 0.1 % |
| Hunters Point Bridge | Collector | 8,475 | 15,792 | 86.3 % |
| Joseph P. Addabbo Bridge * | Principal Arterial | 20,673 | 23,882 | 15.5 % |
| Little Neck Bridge | Principal Arterial | 49,504 | 49,731 | 0.5 % |
| Midtown Highway Bridge | Interstate | 79,662 | 87,692 | 10.1 % |
| Rikers Island Bridge | Collector | 13,150 | 13,186 | 0.3 % |
| Roosevelt Avenue Bridge | Principal Arterial | 22,749 | 17,268 | - 24.1 % |
| Roosevelt Island Bridge | Collector | 9,198 | 9,800 | 6.5 % |
| Whitestone Expwy Bridge | Interstate | 192,482 | 192,092 | - 0.2 % |
| Total, 11 Queens Bridges | | 551,329 | 538,197 | - 2.4 % |
| STATEN ISLAND | | | | |
| Fresh Kills Bridge | Principal Arterial | 66,980 | 65,612 | - 2.0 % |
| | | | | |
| TOLL-FREE GRAND TOTALS | | 2,747,826 | 2,696,852 | - 1.9 % |

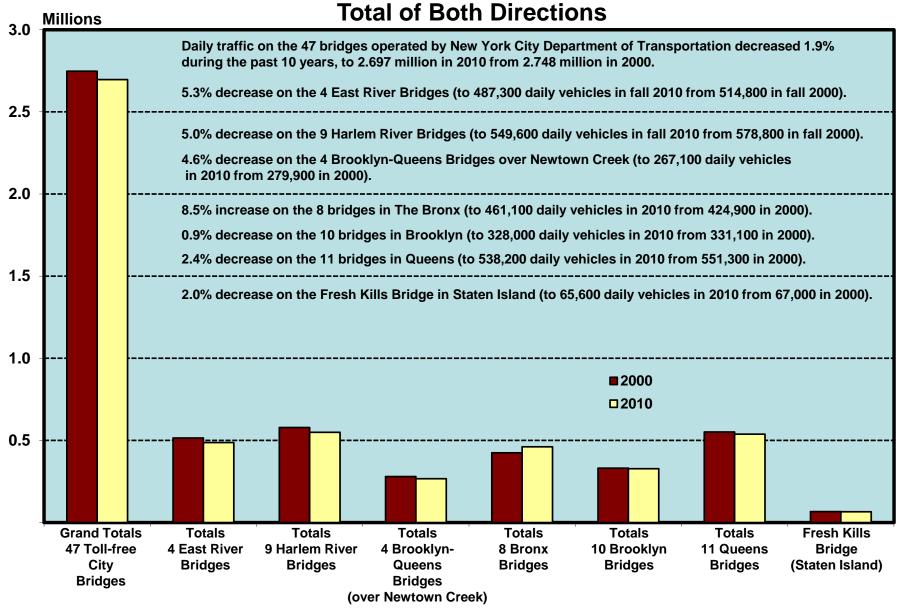
^{*} Also known as North Channel Bridge.

10-Year Traffic Volume Trends ~ 2000-2010 N.Y.C. Bridges and Tunnels Both Directions Page 3 of 3

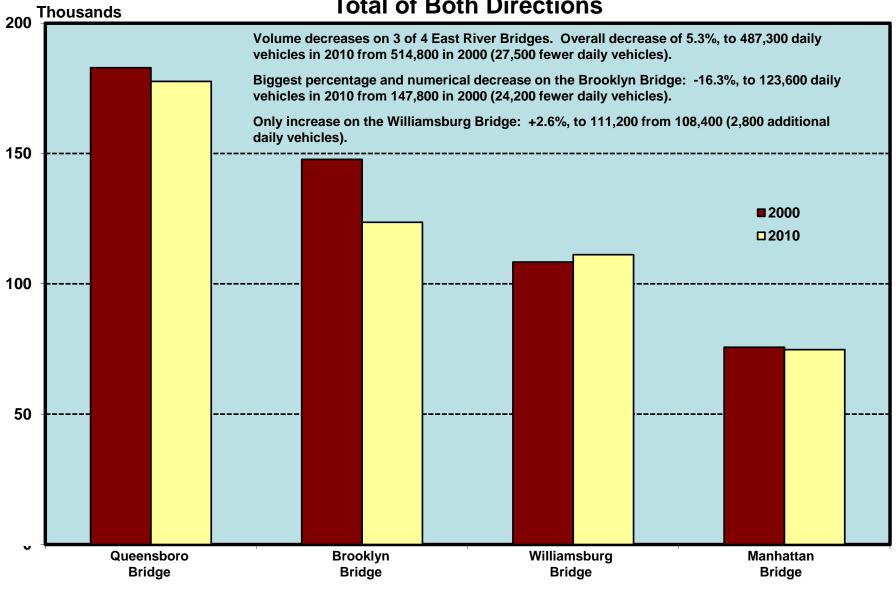
| MTABT Manhattan Facilities | Highway Functional Classification | 2000 | 2010 | Percent Change |
|---|-----------------------------------|---------|---------|-------------------|
| Brooklyn-Battery Tunnel | Interstate | 63,242 | 54,187 | - 14.3 % |
| Henry Hudson Bridge | Principal Arterial | 66,304 | 69,641 | 5.0 % |
| Queens-Midtown Tunnel | Interstate | 80,879 | 88,014 | 8.8 % |
| R.F.K. Memorial Bridge Manhattan Plaza * | Principal Arterial | 103,079 | 93,455 | - 9.3 % |
| Total, 4 MTABT Manhattan Crossings | | 313,504 | 305,297 | - 2.6 % |
| PANYNJ Manhattan Facilities | | | | |
| George Washington Bridge | Interstate | 317,618 | 292,047 | - 8.1 % |
| Holland Tunnel | Interstate | 101,137 | 94,667 | - 6.4 % |
| Lincoln Tunnel | Principal Arterial | 129,710 | 119,832 | - 7.6 % |
| Total, 3 PANYNJ Manhattan - New Jersey Crossing | S | 548,465 | 506,546 | - 7.6 % |
| MTABT Outer Borough Bridges | Interstate | 117,583 | 103,366 | - 12.1 % |
| Bronx-Whitestone Bridge Cross Bay Bridge | Minor Arterial | 17,962 | 21,135 | 17.7 % |
| Marine Parkway Gil Hodges Memorial Bridge | Minor Arterial | 21,609 | 22,215 | 2.8 % |
| R.F.K. Memorial Bridge Bronx Plaza * | Interstate | 79.243 | 82,189 | 3.7 % |
| Throgs Neck Bridge | Interstate | 98,357 | 112,712 | 14.6 % |
| Verrazano-Narrows Bridge | Interstate | 202,580 | 204,181 | 0.8 % |
| Total, 6 MTABT Outer Borough Bridges | | 537,334 | 545,798 | 1.6 % |
| PANYNJ Staten Island Bridges | | | | |
| Bayonne Bridge | Principal Arterial | 18,493 | 19,981 | 8.0 % |
| Goethals Bridge | Interstate | 72,791 | 73,486 | 1.0 % |
| Outerbridge Crossing | Principal Arterial | 73,384 | 74,665 | 1.7 % |
| Total, 3 Staten Island - New Jersey Bridges | - | 164,668 | 168,132 | 2.1 % |

^{*} Formerly Triborough Bridge.

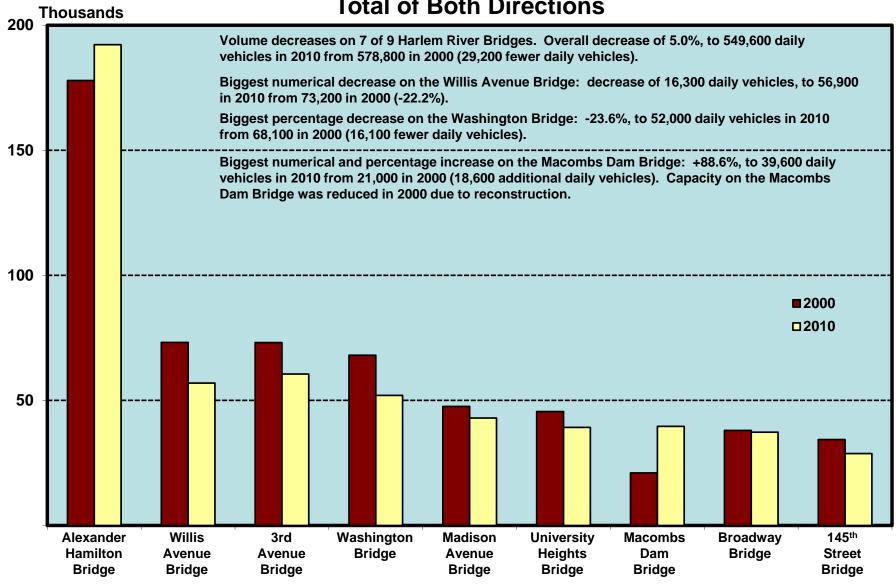
10-Year Volume Changes ~ 2000 – 2010 New York City Toll-free Bridges Daily Volumes Total of Both Directions



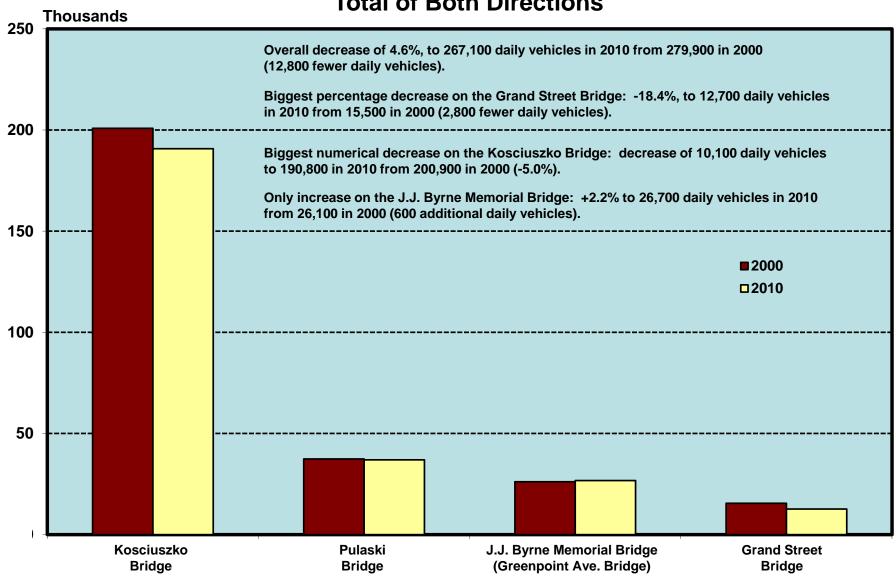
East River Bridges Daily Volumes Total of Both Directions



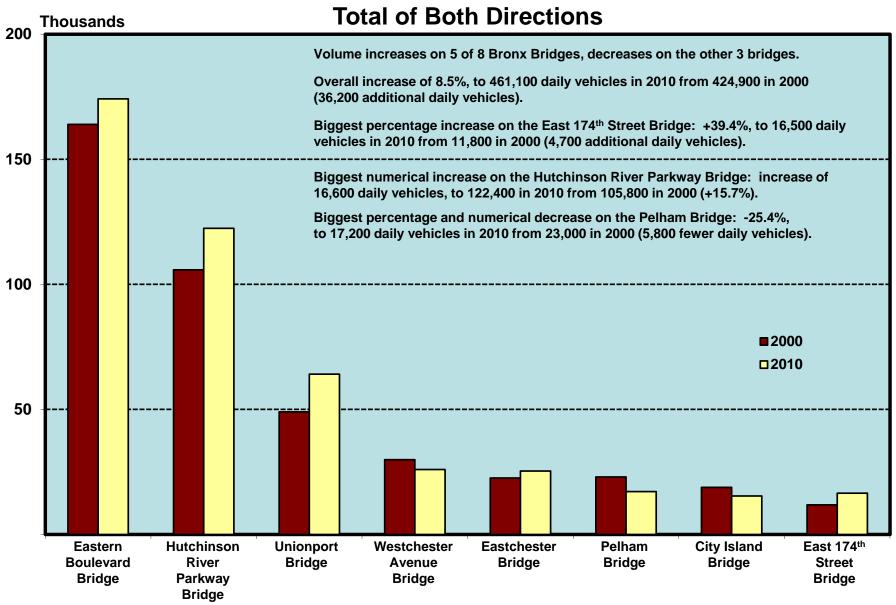
10-Year Volume Changes ~ 2000 – 2010 Harlem River Bridges Daily Volumes Total of Both Directions



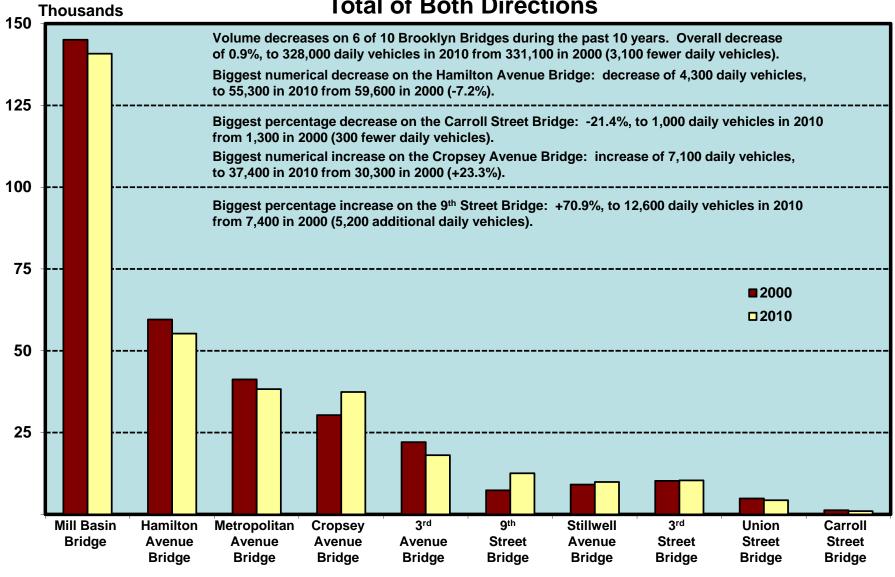
10-Year Volume Changes ~ 2000 – 2010 Brooklyn-Queens (Newtown Creek) Bridges Daily Volumes Total of Both Directions



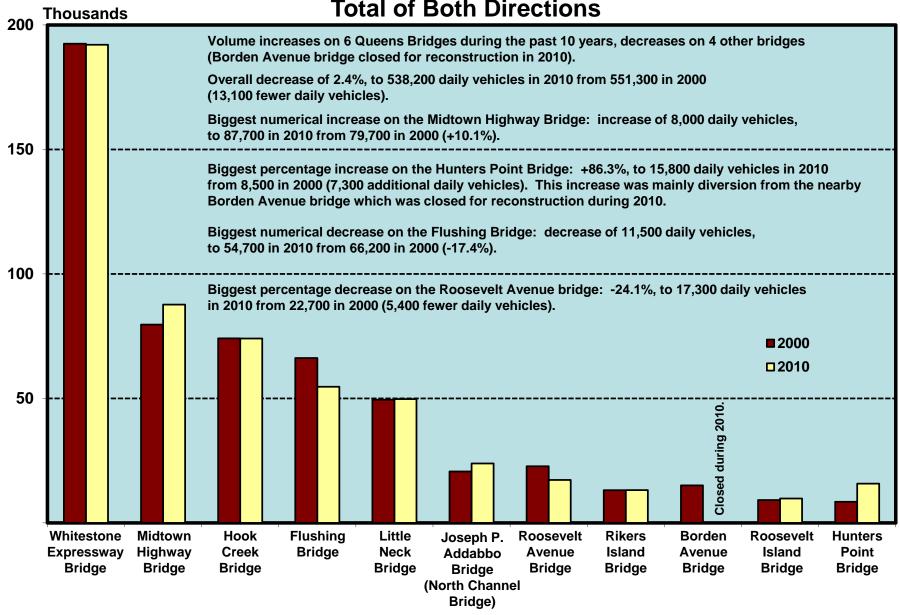
10-Year Volume Changes ~ 2000 – 2010 Bronx Bridges Daily Volumes



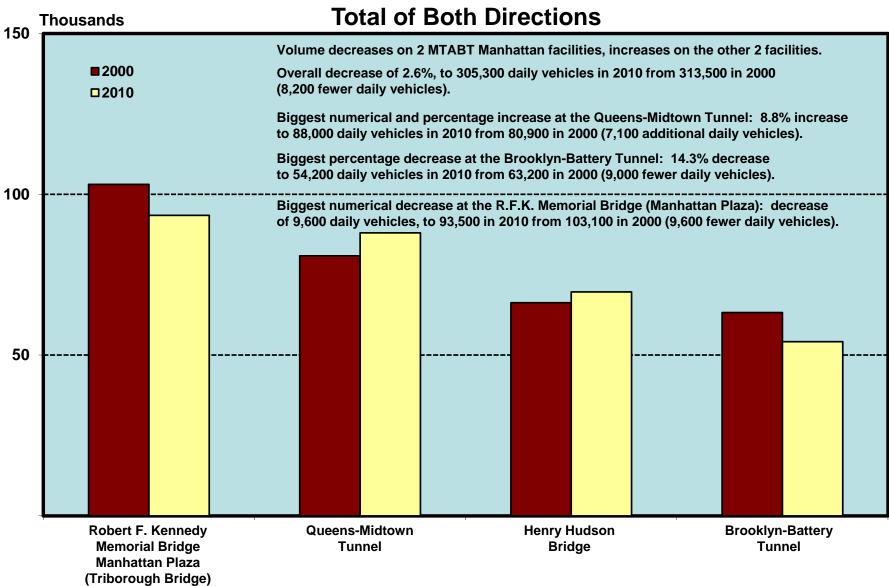
10-Year Volume Changes ~ 2000 – 2010 Brooklyn Bridges Daily Volumes Total of Both Directions



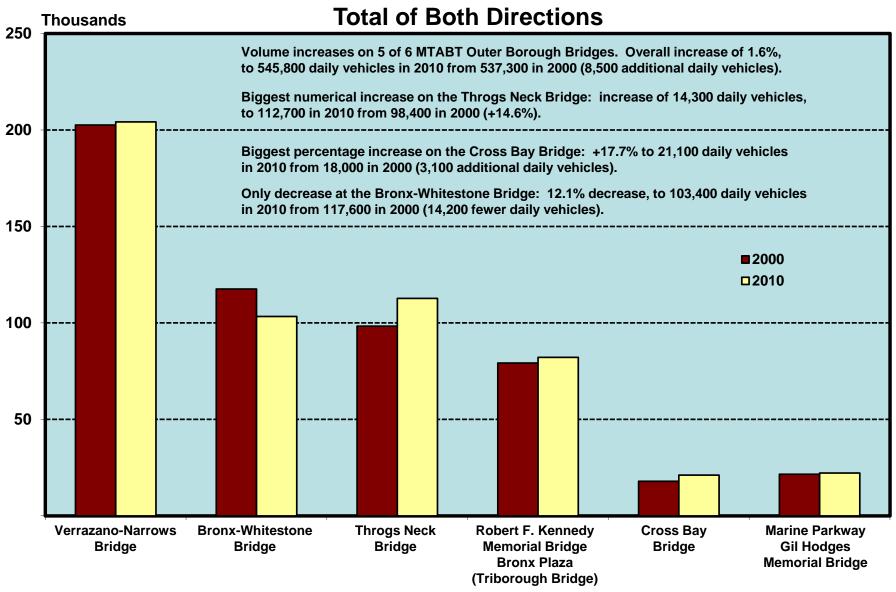
Queens Bridges Daily Volumes Total of Both Directions



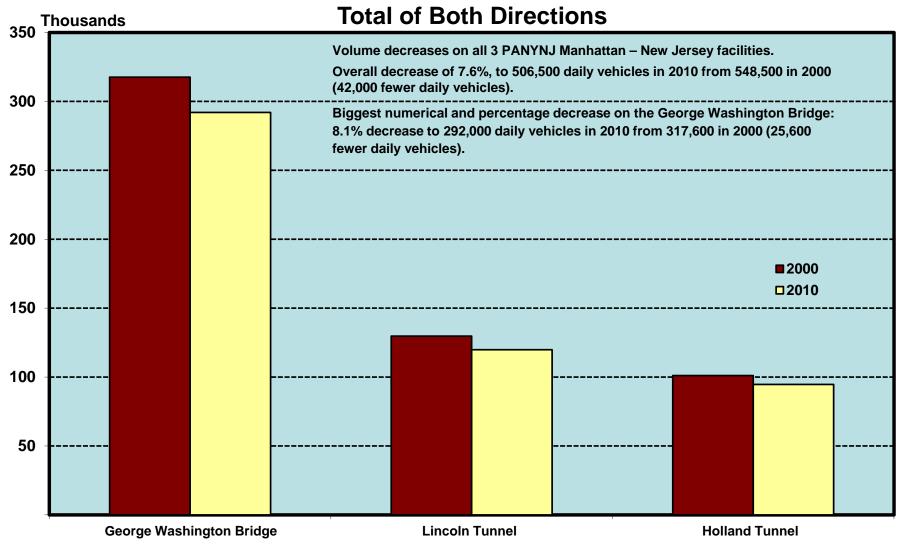
Metropolitan Transportation Authority Bridges & Tunnels (MTABT) Manhattan Facilities Daily Volumes



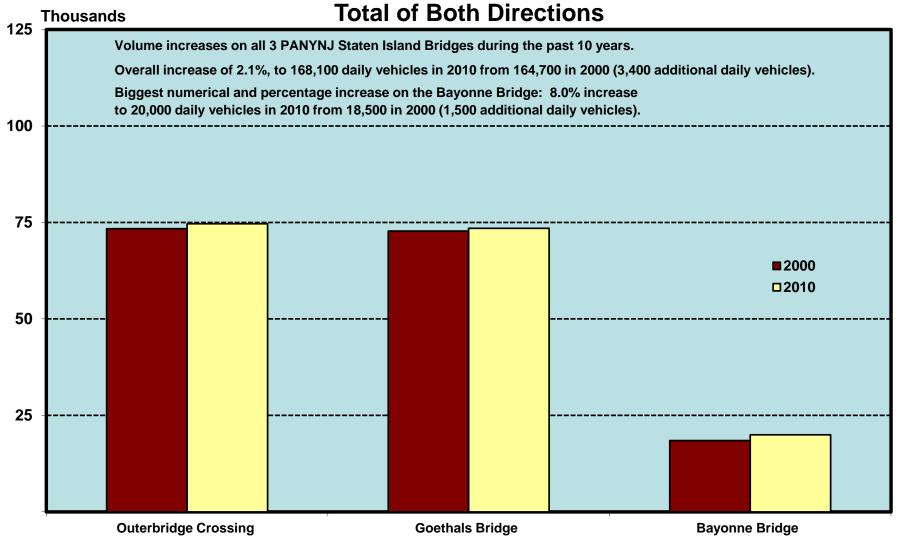
Metropolitan Transportation Authority Bridges & Tunnels (MTABT) Outer Borough Bridges Daily Volumes



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



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



Historic Trends



Historic Trends

- In 1948, traffic on the City-operated bridges was 924,000 daily trips. By 1968, that figure had more than doubled, to 1,912,000. In 2010, it stood at 2,697,000 daily trips, nearly three times the 1948 volume.
- Between 1948 and 1960, bridge traffic increased 57.8% on the 44 City bridges open during that time, to 1,458,200 daily vehicles in 1960 from 924,000 in 1948. Large increases occurred on Brooklyn Bridge over the East River between Manhattan and Brooklyn (up 98.6% to 73,500 daily vehicles in 1960 from 37,000 in 1948), the Third Avenue Bridge over the Harlem River between Manhattan and The Bronx (up 116.8% to 68,100 from 31,400), the Kosciuszko Bridge along the Brooklyn-Queens Expressway over Newtown Creek (up 163.5% to 86,300 from 32,800), the Hutchinson River Parkway Bridge in The Bronx (up 119.1% to 33,000 from 15,100), the Mill Basin Bridge along Belt Parkway in Brooklyn (up 170.7% to 58,900 from 21,800), and the Midtown Highway Bridge in Queens (up 115.8% to 62,100 from 28,800).
- Between 1960 and 1970, bridge traffic increased 38.7% on the 45 City bridges open during that time, to 2,022,800 daily vehicles from 1,458,200. Significant increases were recorded on the Whitestone Expressway Bridge in Queens (up 130.0% to 111,800 daily vehicles in 1970 from 48,600 in 1960), the Unionport Bridge in The Bronx (up 146.9% to 146,700 daily vehicles from 59,400), the Mill Basin Bridge along Belt Parkway in Brooklyn (up 74.7% to 103,000 from 58,900), and the Fresh Kills Bridge in Staten Island (up 165.5% to 21,600 from 8,100).
- From 1970 to 1980, total traffic on the 47 City bridges decreased 1.7%, to 1,988,000 daily vehicles from 2,022,800. The most dramatic decrease was on the Unionport Bridge over Westchester Creek in The Bronx, a decrease of 118,000 daily vehicles, to 28,700 in 1980 from 146,700 in 1970 (-80.4%), as the Bruckner Interchange was completed in 1972.
- Between 1980 and 1990, daily traffic increased 20.7% on the 47 City bridges, to 2,399,100 from 1,988,000. On the Williamsburg Bridge over the East River, daily volume increased 32.4%, to 109,500 daily vehicles in 1990 from 82,700 in 1980. Daily traffic increased by 40,000 vehicles on the Alexander Hamilton Bridge over the Harlem River, to 192,800 from 152,800 (+26.2%). Traffic using the Washington Bridge over the Harlem River increased 62.0%, to 61,700 daily vehicles from 38,100. On the Kosciuszko Bridge daily traffic was up 24.2%, to 176,900 in 1990 from 142,500 in 1980. In The Bronx, volume on the Hutchinson River Parkway Bridge increased 59.6%, to 91,300 vehicles per day in 1990 from 57,200 in 1980.
- Between 1990 and 2000, bridge traffic increased 14.5%, to 2,747,800 daily vehicles from 2,399,100. On the Queensboro Bridge over the East River between Manhattan and Brooklyn, traffic increased 30.6%, to 182,900 daily vehicles in 2000 from 140,100 in 1990. Daily traffic using the Whitestone Expressway Bridge in Queens increased 32.5% to 192,500 from 145,200. Volume on the Eastern Boulevard Bridge in The Bronx increased 39.7%, to 164,000 vehicles per day from 117,400.
- 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 exceeded 125,000 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 2,059,000 vehicles per day. This was followed by a downward trend between 1971 and 1979. Daily bridge traffic in 1979 was 65,000 below the 1969 level. Thereafter, bridge traffic increased in most years, with 730,500 more daily vehicles crossing the bridges in 2010 than in 1979.

Total NYC Toll Free Bridges Average Daily Traffic Volumes 1948 - 2010

| Year | East River | Harlem River | Brooklyn- Queens | Bronx |
|--------------|--------------------|--------------------|---------------------|--------------------|
| 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 1963 | 318,170 333,880 | 313,230 309,090 | 160,540 160,400 | 263,020 291,240 |
| 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 1980 | 382,028 392,460 | 427,816 446,292 | 201,314 196,019 | 277,666 284,383 |
| 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 1995 | 448,263 464,903 | 526,044 521,882 | 231,657 237,305 | 340,515 348,009 |
| 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 |
| | | | | |

Total NYC Toll Free Bridges (continued) Average Daily Traffic Volumes 1948 - 2010

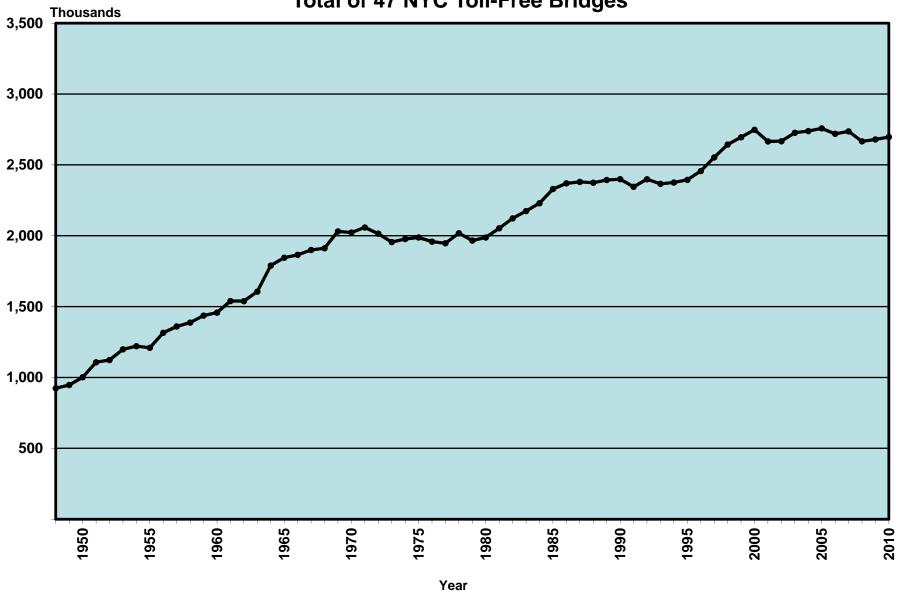
| | | | Staten | |
|--------------|--------------------|--------------------|------------------|------------------------|
| Year | Brooklyn | Queens | Island | Totals |
| 1948 | 91,917 | 147,106 | 5,597 | 923,996 |
| 1949 1950 | 111,439 122,058 | 173,925 180,610 | 5,759 6,250 | 947,026 1,001,787 |
| 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 1958 | 153,756 179,537 | 261,111 256,536 | 9,897 10,121 | 1,359,963 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 1965 | 213,469 241,570 | 312,090 310,588 | 15,010 15,539 | 1,790,039 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 1973 | 240,091 226,608 | 387,808 407,538 | 28,455 37,213 | 2,014,751 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 1980 | 247,018 242,682 | 393,749 | 36,806 | 1,966,397 |
| 1981 | 242,002 | 384,581 432,886 | 41,604 46,947 | 1,988,021 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 1988 | 271,080 281,731 | 466,965 473,735 | 50,372 50,385 | 2,380,202 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 1995 | 302,135 300,832 | 478,793 474,342 | 48,562 47,132 | 2,375,969 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 | 551,116 554,459 | 67,465 | 2,665,592 |
| 2002 2003 | 329,749 331,805 | 554,458 562,107 | 64,563 66,155 | 2,667,165 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 |
| | | | | |

NYC Tolled Facilities Average Daily Traffic Volumes 1948 - 2010

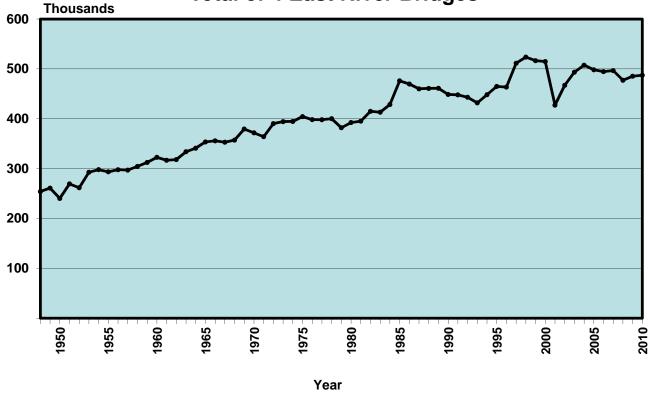
| Year | MTABT Manhattan | PANYNJ Manhattan | MTABT Outer Boro | PANYNJ Staten Is | Total |
|--------------|--------------------|---------------------|---------------------|---------------------|------------------------|
| | | | | | |
| 1948 | 92,977 | 115,785 | 80,977 | 13,214 | 302,953 |
| 1949 1950 | 110,071 161.856 | 129,943 146,653 | 97,117 109,454 | 14,628 16,431 | 351,759 434,394 |
| 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 1958 | 236,343 232,413 | 218,623 221,494 | 176,042 174,187 | 22,614 21,953 | 653,622 650,047 |
| 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 1966 | 240,949 243,107 | 293,339 303,981 | 301,459 316,984 | 44,828 50,978 | 880,575 915,050 |
| 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 1974 | 251,593 242,846 | 397,203 376,547 | 402,096 395,168 | 81,034 80,544 | 1,131,926 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 1981 | 255,858 269,854 | 404,734 427,381 | 399,855 417,974 | 97,774 101,644 | 1,158,221 1,216,853 |
| 1982 | 253,499 | 433,744 | 432,273 | 106,672 | 1,216,653 |
| 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 1989 | 293,550 275,358 | 490,179 487,693 | 494,073 475,447 | 143,062 140,051 | 1,420,864 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 1996 | 293,574 281,116 | 482,098 493,194 | 498,104 493,813 | 143,657 146,565 | 1,417,433 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 2004 | 307,034 312,159 | 547,449 536,396 | 547,068 559,962 | 174,582 174,268 | 1,576,133 1,582,785 |
| 2004 | 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 |

PANYNJ one-way tolls initiated 8/12/1970.
PANYNJ toll increases May 1975, January 1984, April 1987, April 1991, March 2001, March 2008.
MTABT toll Increases Jan. 1972, Sep. 1975, May 1980, April 1982, Jan. 1984, Jan. 1986, Feb. 1987, July 1989, Jan. 1993, March 1996, May 2003, March 2005, March 2008, July 2009, & Dec. 2010.

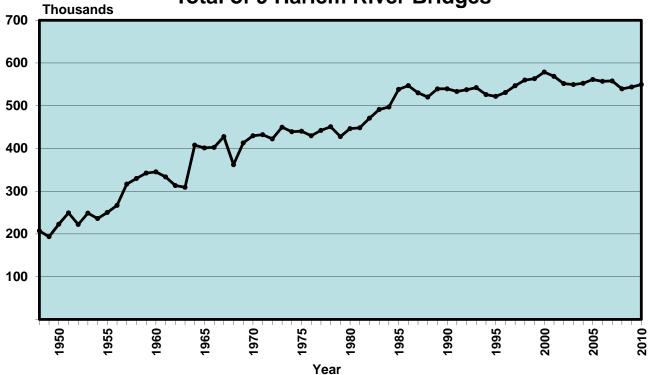
Average Daily Traffic Volumes ~ Total of Both Directions Total of 47 NYC Toll-Free Bridges



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



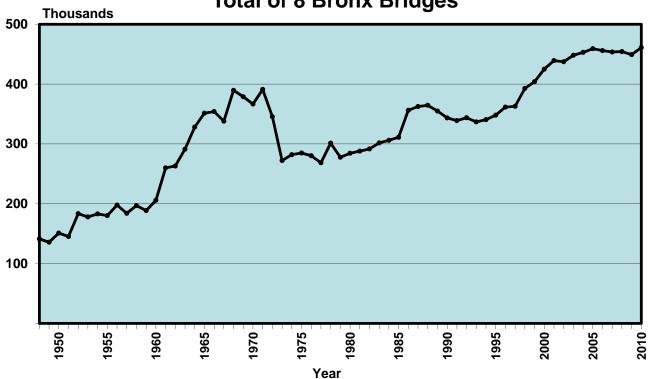
Average Daily Traffic Volumes ~ Total of Both Directions Total of 9 Harlem River Bridges



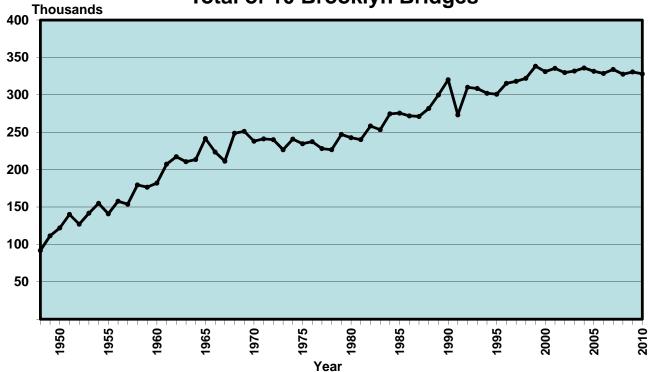
Average Daily Traffic Volumes ~ Total of Both Directions Total of 4 Brooklyn-Queens Bridges



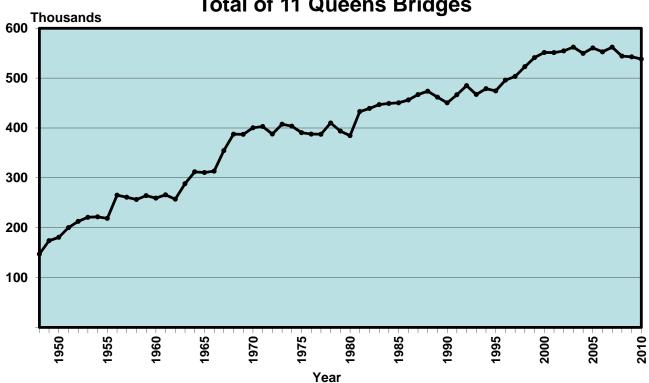
Average Daily Traffic Volumes ~ Total of Both Directions Total of 8 Bronx Bridges



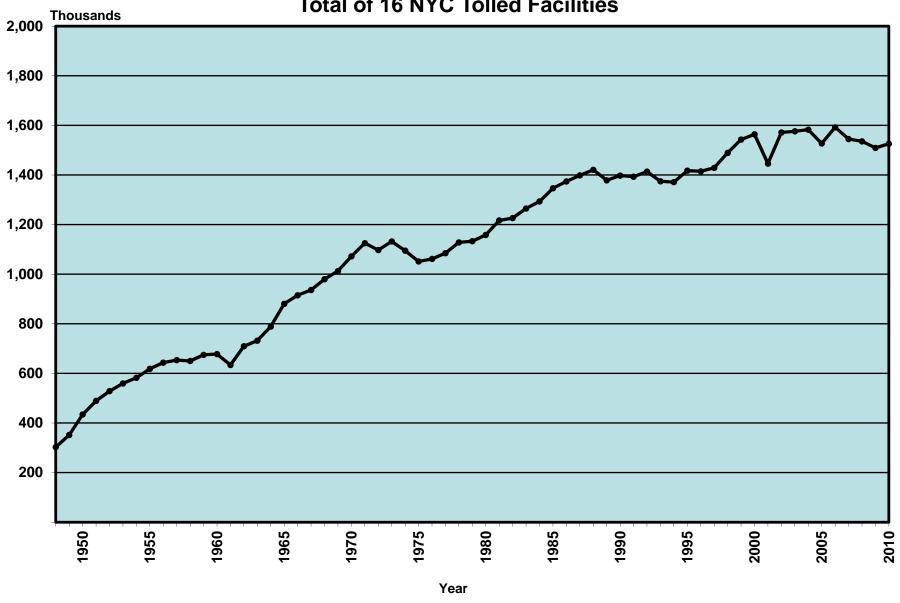
Average Daily Traffic Volumes ~ Total of Both Directions Total of 10 Brooklyn Bridges



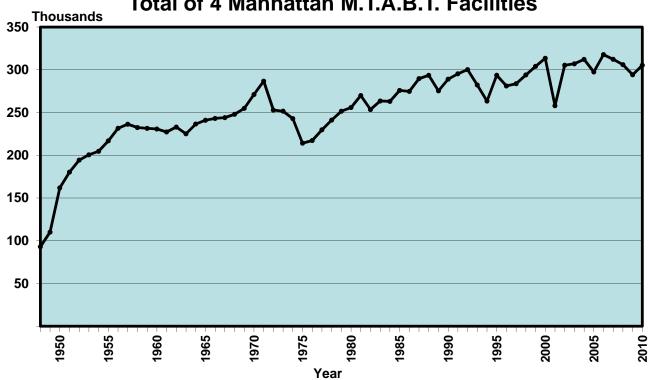
Average Daily Traffic Volumes ~ Total of Both Directions Total of 11 Queens Bridges



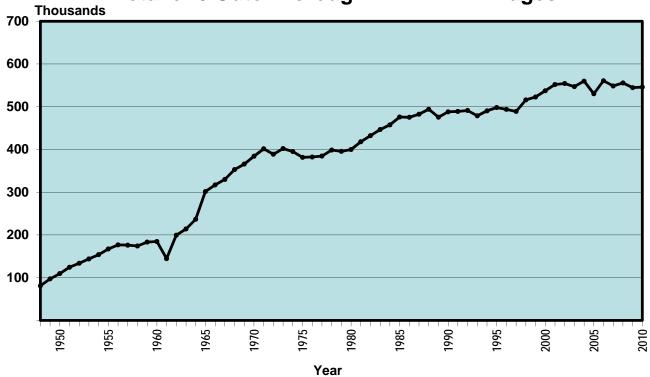
Average Daily Traffic Volumes ~ Total of Both Directions Total of 16 NYC Tolled Facilities



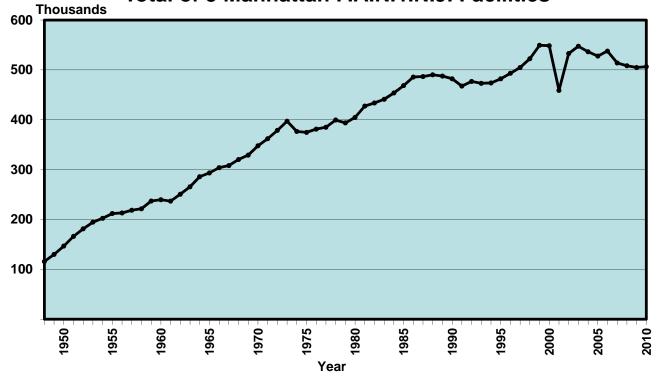
Average Daily Traffic Volumes ~ Total of Both Directions Total of 4 Manhattan M.T.A.B.T. Facilities



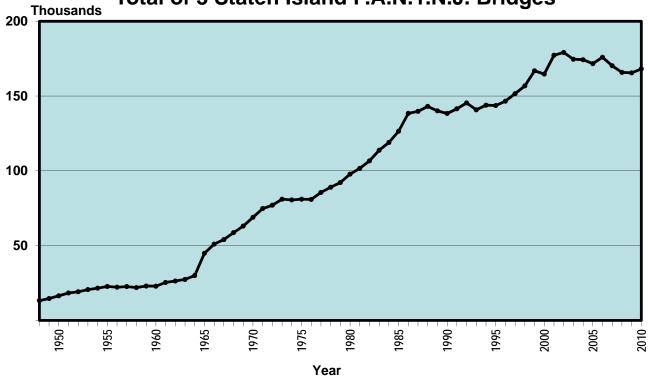
Average Daily Traffic Volumes ~ Total of Both Directions Total of 6 Outer Borough M.T.A.B.T. Bridges



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

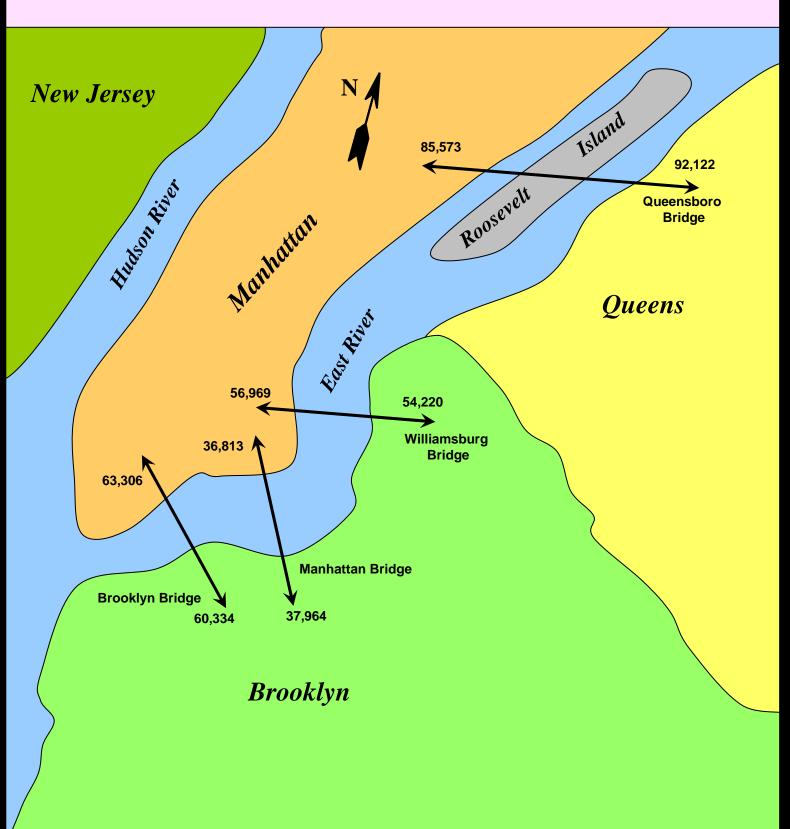


East River Bridges



East River Bridges

2010 Daily Volumes



East River Bridges Average Daily Traffic Volumes 1948 - 2010

| Year | Brooklyn Bridge | Manhattan Bridge | Queensborc Bridge | Williamsburg Bridge | Totals |
|--------------|--------------------|---------------------|----------------------|------------------------|---------------------|
| 1948 | 37,011 | 86,717 | 83,201 | 47,139 | 254,068 |
| 1949 | 37,244 | 80,420 | 88,821 | 54,448 | 260,933 |
| 1950 | 13,397 | 84,027 | 84,863 | 57,940 | 240,227 |
| 1951 | 14,865 | 100,826 | 90,922 | 62,739 | 269,352 |
| 1952 | 16,907 | 96,476 | 85,748 | 62,573 | 261,704 |
| 1953 | 14,513 | 94,320 | 106,391 | 77,502 | 292,726 |
| 1954 | 42,455 | 77,698 | 101,285 | 76,465 | 297,903 |
| 1955 | 53,964 | 66,968 | 91,958 | 80,743 | 293,633 |
| 1956 | 54,981 | 69,656 | 90,786 | 82,443 | 297,866 |
| 1957 | 23,852 | 89,793 | 93,676 | 89,707 | 297,028 |
| 1958 | 43,089 | 82,128 | 100,555 | 78,698 | 304,470 |
| 1959 | 53,115 | 74,329 | 103,522 | 81,465 | 312,431 |
| 1960 1961 | 73,486 68,997 | 60,481 62,797 | 107,536 104,505 | 81,157 80,514 | 322,660 316,813 |
| 1962 | 78,850 | 51,450 | 105,930 | 81,940 | 318,170 |
| 1963 | 78,770 | 58,510 | 116,350 | 80,250 | 333,880 |
| 1964 | 80,230 | 59,250 | 120,900 | 80,650 | 341,030 |
| 1965 | 84,141 | 71,222 | 117,588 | 80,567 | 353,518 |
| 1966 | 89,124 | 63,693 | 122,896 | 80,032 | 355,745 |
| 1967 | 87,387 | 75,741 | 124,033 | 65,775 | 352,936 |
| 1968 | 72,475 | 79,906 | 130,777 | 74,074 | 357,232 |
| 1969 | 97,565 | 75,473 | 132,553 | 73,825 | 379,416 |
| 1970 | 100,050 | 72,077 | 126,554 | 73,062 | 371,743 |
| 1971 | 102,535 | 68,681 | 120,555 | 72,299 | 364,070 |
| 1972 | 103,815 | 73,803 | 136,455 | 76,219 | 390,292 |
| 1973 | 102,834 | 73,401 | 138,066 | 79,989 | 394,290 |
| 1974 | 99,959 | 77,198 | 138,560 | 78,914 | 394,631 |
| 1975 | 103,750 | 74,320 | 144,252 | 82,057 | 404,379 |
| 1976 | 102,590 | 68,057 | 145,130 | 82,471 | 398,248 |
| 1977 1978 | 104,532 104,848 | 64,835 74,257 | 146,283 138,415 | 82,490 82,626 | 398,140 400,146 |
| 1979 | 91,319 | 74,257 75,403 | 133,966 | 81,340 | 382,028 |
| 1980 | 103,954 | 77,914 | 127,929 | 82,663 | 392,460 |
| 1981 | 102,572 | 79,589 | 127,864 | 85,100 | 395,125 |
| 1982 | 110,991 | 87,760 | 136,864 | 79,369 | 414,984 |
| 1983 | 115,825 | 85,222 | 125,158 | 86,947 | 413,152 |
| 1984 | 110,432 | 89,104 | 134,107 | 94,898 | 428,541 |
| 1985 | 116,929 | 100,825 | 150,892 | 107,386 | 476,032 |
| 1986 | 126,555 | 77,784 | 158,191 | 107,181 | 469,711 |
| 1987 | 123,523 | 77,519 | 151,688 | 107,362 | 460,092 |
| 1988 | 129,153 | 75,221 | 153,841 | 102,643 | 460,858 |
| 1989 | 131,951 | 68,593 | 152,591 | 107,967 | 461,102 |
| 1990 | 129,626 | 69,550 | 140,063 | 109,474 | 448,713 |
| 1991 | 128,491 | 72,695 | 131,438 | 115,345 | 447,969 |
| 1992 1993 | 125,643 134,793 | 78,117 74,526 | 141,078 135,964 | 98,307 86,591 | 443,145 431,874 |
| 1993 | 134,793 | 74,526 78,418 | 155,964 | 83,525 | 448,263 |
| 1995 | 131,883 | 75,126 | 157,306 | 100,588 | 464,903 |
| 1996 | 131,872 | 81,075 | 161,965 | 88,570 | 463,482 |
| 1997 | 147,898 | 83,209 | 184,179 | 96,124 | 511,410 |
| 1998 | 144,131 | 78,172 | 192,119 | 109,268 | 523,690 |
| 1999 | 127,065 | 92,311 | 189,190 | 107,941 | 516,507 |
| 2000 | 147,767 | 75,684 | 182,940 | 108,376 | 514,767 |
| 2001 | 95,586 | 73,064 | 176,469 | 82,202 | 427,321 |
| 2002 | 121,145 | 66,152 | 176,419 | 103,364 | 467,080 |
| 2003 | 134,444 | 73,767 | 184,964 | 100,243 | 493,418 |
| 2004 | 137,563 | 79,129 | 180,369 | 110,528 | 507,589 |
| 2005 | 132,210 | 80,363 | 178,610 | 107,030 | 498,213 |
| 2006 | 126,805 | 74,621 | 186,110 | 107,040 | 494,576 |
| 2007 | 131,551 | 73,205 | 181,365 | 110,545 | 496,666 |
| 2008 | 123,781 | 70,341 | 176,306 | 106,783 | 477,211 |
| 2009 | 125,021 | 71,936 | 180,162 | 108,194 | 485,313 |
| 2010 | 123,640 | 71,936 | 177,695 | 111,189 | 487,301 |
| 2010 | 123,040 | 14,111 | 177,090 | 111,109 | 1 07,301 |

Hourly Vehicular Volumes Brooklyn Bridge - 2010

Eastbound to Brooklyn

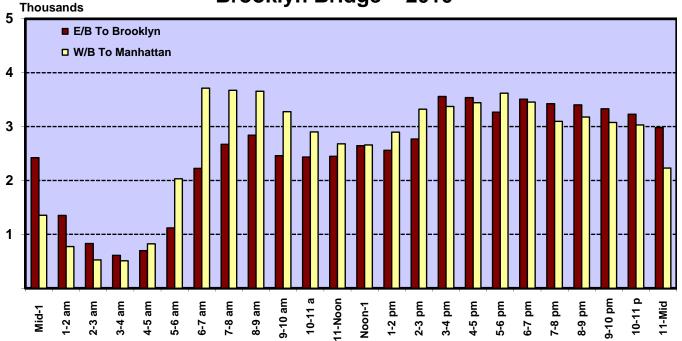
Westbound to Manhattan

| | | | Lastboana to Brooklyn | | | | | Westbound to mannatian | | | | | |
|-----------|-------------|---------------|-----------------------|--------|----------|----------|-------------|------------------------|-------|--------|----------|----------|----------|
| | | Commuter Vans | | | | | | Commuter Van | | | | | |
| | С | ommercial Var | าร | Single | | | C | commercial Var | าร | Single | | | 2-Way |
| | Autos & | Pickups | | Unit | Tractor | Total | Autos & | Pickups | | Unit | Tractor | Total | Grand |
| | Motorcycles | Large SUVs | Buses | Trucks | Trailers | Vehicles | Motorcycles | Large SUVs | Buses | Trucks | Trailers | Vehicles | Totals |
| FHWA | | | | | | | | | | | | | |
| Classes ► | 1 & 2 | 3 | 4 | 5 - 7 | 8 - 13 | | 1 & 2 | 3 | 4 | 5 - 7 | 8 - 13 | | |
| 12-1am | 2,421 | 1 | 1 | 0 | 0 | 2,423 | 1,338 | 13 | 0 | 4 | 0 | 1,355 | 3,778 |
| 1-2am | 1,345 | 5 | 1 | 0 | 0 | 1,351 | 770 | 4 | 0 | 0 | 0 | 774 | 2,125 |
| 2-3am | 827 | 3 | 0 | 0 | 0 | 830 | 518 | 6 | 0 | 2 | 0 | 526 | 1,356 |
| 3-4am | 605 | 5 | 1 | 0 | 0 | 611 | 500 | 7 | 0 | 2 | 0 | 509 | 1,120 |
| 4-5am | 688 | 8 | 2 | 0 | 0 | 698 | 816 | 5 | 1 | 3 | 0 | 825 | 1,523 |
| 5-6am | 1,105 | 14 | 1 | 0 | 0 | 1,120 | 1,967 | 35 | 25 | 5 | 0 | 2,032 | 3,152 |
| 6-7am | 2,180 | 33 | 10 | 1 | 0 | 2,224 | 3,583 | 44 | 85 | 2 | 0 | 3,714 ** | 5,938 |
| 7-8am | 2,616 | 34 | 20 | 1 | 0 | 2,671 | 3,609 | 24 | 38 | 2 | 0 | 3,673 | 6,344 |
| 8-9am | 2,771 | 45 | 23 | 1 | 0 | 2,840 | 3,614 | 29 | 10 | 3 | 0 | 3,656 | 6,496 |
| 9-10am | 2,389 | 44 | 27 | 1 | 0 | 2,461 | 3,232 | 27 | 11 | 7 | 0 | 3,277 | 5,738 |
| 10-11am | 2,390 | 29 | 17 | 0 | 0 | 2,436 | 2,861 | 23 | 12 | 6 | 0 | 2,902 | 5,338 |
| 11-12am | 2,379 | 45 | 24 | 0 | 0 | 2,448 | 2,627 | 34 | 13 | 7 | 0 | 2,681 | 5,129 |
| 12-1pm | 2,574 | 47 | 25 | 0 | 0 | 2,646 | 2,613 | 22 | 23 | 2 | 0 | 2,660 | 5,306 |
| 1-2pm | 2,494 | 37 | 28 | 1 | 0 | 2,560 | 2,799 | 37 | 51 | 10 | 0 | 2,897 | 5,457 |
| 2-3pm | 2,692 | 37 | 40 | 1 | 0 | 2,770 | 3,254 | 34 | 32 | 3 | 0 | 3,323 | 6,093 |
| 3-4pm | 3,483 | 37 | 40 | 0 | 0 | 3,560 ** | 3,296 | 38 | 38 | 1 | 0 | 3,373 | 6,933 |
| 4-5pm | 3,476 | 36 | 25 | 1 | 0 | 3,538 | 3,387 | 36 | 18 | 2 | 0 | 3,443 | 6,981 ** |
| 5-6pm | 3,214 | 35 | 19 | 0 | 0 | 3,268 | 3,578 | 24 | 16 | 2 | 0 | 3,620 | 6,888 |
| 6-7pm | 3,439 | 53 | 16 | 1 | 0 | 3,509 | 3,414 | 27 | 13 | 2 | 0 | 3,456 | 6,965 |
| 7-8pm | 3,384 | 37 | 5 | 0 | 0 | 3,426 | 3,076 | 15 | 6 | 0 | 0 | 3,097 | 6,523 |
| 8-9pm | 3,385 | 16 | 2 | 0 | 0 | 3,403 | 3,152 | 21 | 2 | 2 | 0 | 3,177 | 6,580 |
| 9-10pm | 3,316 | 14 | 1 | 0 | 0 | 3,331 | 3,047 | 25 | 3 | 1 | 0 | 3,076 | 6,407 |
| 10-11pm | 3,222 | 6 | 1 | 0 | 0 | 3,229 | 3,005 | 22 | 0 | 3 | 0 | 3,030 | 6,259 |
| 11-12pm | 2,973 | 6 | 2 | 0 | 0 | 2,981 | 2,208 | 18 | 1 | 3 | 0 | 2,230 | 5,211 |
| Totals | 59,368 | 627 | 331 | 8 | 0 | 60,334 | 62,264 | 570 | 398 | 74 | 0 | 63,306 | 123,640 |
| 7-10am | 7,776 | 123 | 70 | 3 | 0 | 7,972 | 10,455 | 80 | 59 | 12 | 0 | 10,606 | 18,578 |
| 10am-1pm | | 121 | 66 | 0 | 0 | 7,530 | 8,101 | 79 | 48 | 15 | 0 | 8,243 | 15,773 |
| 1-4pm | 8,669 | 111 | 108 | 2 | 0 | 8,890 | 9,349 | 109 | 121 | 14 | 0 | 9,593 | 18,483 |
| 4-7pm | 10,129 | 124 | 60 | 2 | 0 | 10,315 | 10,379 | 87 | 47 | 6 | 0 | 10,519 | 20,834 |
| 7am-7pm | 33,917 | 479 | 304 | 7 | ő | 34,707 | 38,284 | 355 | 275 | 47 | ő | 38,961 | 73,668 |

Based on March 2006 Classification Survey Data

^{**} Peak Volumes

Hourly Vehicular Volumes Brooklyn Bridge ~ 2010



Average Daily Traffic Volumes ~ Total of Both Directions Brooklyn Bridge



Hourly Vehicular Volumes Manhattan Bridge - 2010

Eastbound to Brooklyn

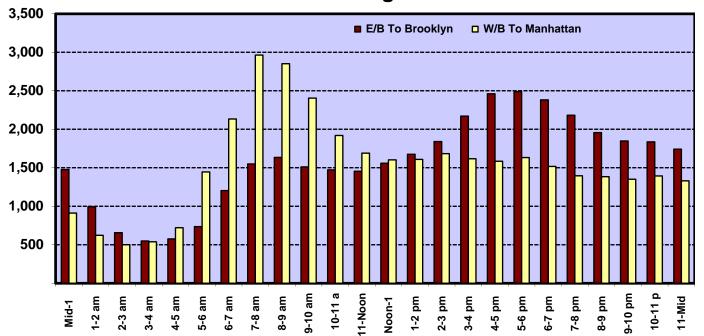
Westbound to Manhattan

| | | Easib | ouna to | DIOUKIYI | , | | <u> </u> | Mesin | ouria to | waiiialla | 11 | | |
|-----------|-------------|----------------|---------|----------|----------|----------|-------------|---------------|----------|-----------|----------|----------|----------|
| | (| Commuter Van | s | | | | | Commuter Van | s | | | | |
| | C | commercial Vai | ns | Single | | | C | Commercial Va | ns | Single | | | 2-Way |
| | Autos & | Pickups | | Unit | Tractor | Total | Autos & | Pickups | | Unit | Tractor | Total | Grand |
| | Motorcycles | Large SUVs | Buses | Trucks | Trailers | Vehicles | Motorcycles | Large SUVs | Buses | Trucks | Trailers | Vehicles | Totals |
| FHWA | • | · · | | | | | • | • | | | | | |
| Classes ► | 1 & 2 | 3 | 4 | 5 - 7 | 8 - 13 | | 1 & 2 | 3 | 4 | 5 - 7 | 8 - 13 | | |
| 12-1am | 1,430 | 20 | 8 | 16 | 3 | 1,477 | 897 | 10 | 1 | 4 | 0 | 912 | 2,389 |
| 1-2am | 969 | 13 | 3 | 8 | 1 | 994 | 611 | 9 | 1 | 2 | 0 | 623 | 1,617 |
| 2-3am | 634 | 10 | 2 | 10 | 1 | 657 | 489 | 5 | 1 | 5 | 0 | 500 | 1,157 |
| 3-4am | 518 | 11 | 2 | 14 | 4 | 549 | 522 | 8 | 3 | 5 | 1 | 539 | 1,088 |
| 4-5am | 550 | 6 | 2 | 17 | 1 | 576 | 699 | 7 | 5 | 11 | 0 | 722 | 1,298 |
| 5-6am | 707 | 6 | 7 | 15 | 1 | 736 | 1,246 | 23 | 31 | 125 | 21 | 1,446 | 2,182 |
| 6-7am | 1,072 | 27 | 30 | 67 | 8 | 1,204 | 1,697 | 52 | 65 | 281 | 39 | 2,134 | 3,338 |
| 7-8am | 1,309 | 45 | 51 | 137 | 8 | 1,550 | 2,368 | 62 | 75 | 438 | 21 | 2,964 ** | 4,514 ** |
| 8-9am | 1,378 | 32 | 53 | 159 | 13 | 1,635 | 2,351 | 49 | 54 | 378 | 20 | 2,852 | 4,487 |
| 9-10am | 1,221 | 34 | 59 | 186 | 11 | 1,511 | 1,896 | 46 | 44 | 393 | 26 | 2,405 | 3,916 |
| 10-11am | 1,206 | 22 | 51 | 182 | 12 | 1,473 | 1,465 | 40 | 40 | 346 | 29 | 1,920 | 3,393 |
| 11-12am | 1,180 | 32 | 50 | 181 | 12 | 1,455 | 1,288 | 42 | 31 | 313 | 16 | 1,690 | 3,145 |
| 12-1pm | 1,215 | 40 | 53 | 238 | 13 | 1,559 | 1,173 | 42 | 39 | 333 | 16 | 1,603 | 3,162 |
| 1-2pm | 1,314 | 46 | 57 | 248 | 11 | 1,676 | 1,152 | 40 | 47 | 355 | 15 | 1,609 | 3,285 |
| 2-3pm | 1,524 | 34 | 54 | 214 | 15 | 1,841 | 1,373 | 38 | 42 | 221 | 10 | 1,684 | 3,525 |
| 3-4pm | 1,849 | 47 | 90 | 179 | 6 | 2,171 | 1,402 | 29 | 33 | 141 | 12 | 1,617 | 3,788 |
| 4-5pm | 2,229 | 54 | 63 | 108 | 7 | 2,461 | 1,354 | 30 | 35 | 158 | 8 | 1,585 | 4,046 |
| 5-6pm | 2,297 | 43 | 60 | 81 | 9 | 2,490 ** | 1,427 | 27 | 45 | 131 | 3 | 1,633 | 4,123 |
| 6-7pm | 2,227 | 31 | 56 | 62 | 6 | 2,382 | 1,347 | 12 | 56 | 100 | 3 | 1,518 | 3,900 |
| 7-8pm | 2,040 | 28 | 58 | 50 | 7 | 2,183 | 1,262 | 19 | 40 | 75 | 0 | 1,396 | 3,579 |
| 8-9pm | 1,862 | 20 | 35 | 37 | 3 | 1,957 | 1,277 | 13 | 22 | 71 | 2 | 1,385 | 3,342 |
| 9-10pm | 1,777 | 23 | 22 | 22 | 4 | 1,848 | 1,282 | 11 | 15 | 42 | 1 | 1,351 | 3,199 |
| 10-11pm | 1,759 | 27 | 21 | 25 | 5 | 1,837 | 1,345 | 11 | 8 | 30 | 0 | 1,394 | 3,231 |
| 11-12pm | 1,687 | 14 | 14 | 23 | 4 | 1,742 | 1,309 | 4 | 3 | 14 | 1 | 1,331 | 3,073 |
| Totals | 33,954 | 665 | 901 | 2,279 | 165 | 37,964 | 31,232 | 629 | 736 | 3,972 | 244 | 36,813 | 74,777 |
| 7-10am | 3,908 | 111 | 163 | 482 | 32 | 4,696 | 6,615 | 157 | 173 | 1,209 | 67 | 8,221 | 12,917 |
| 10am-1pm | | 94 | 154 | 601 | 37 | 4,487 | 3,926 | 124 | 110 | 992 | 61 | 5,213 | 9,700 |
| 1-4pm | 4,687 | 127 | 201 | 641 | 32 | 5,688 | 3,927 | 107 | 122 | 717 | 37 | 4,910 | 10,598 |
| 4-7pm | 6,753 | 128 | 179 | 251 | 22 | 7,333 | 4,128 | 69 | 136 | 389 | 14 | 4,736 | 12,069 |
| 7am-7pm | 18,949 | 460 | 697 | 1,975 | 123 | 22,204 | 18,596 | 457 | 541 | 3,307 | 179 | 23,080 | 45,284 |

Based on April 2006 Classification Survey Data

^{**} Peak Volumes

Hourly Vehicular Volumes Manhattan Bridge ~ 2010



Average Daily Traffic Volumes ~ Total of Both Directions Manhattan Bridge



Hourly Vehicular Volumes Queensboro Bridge - 2010

Eastbound to Queens

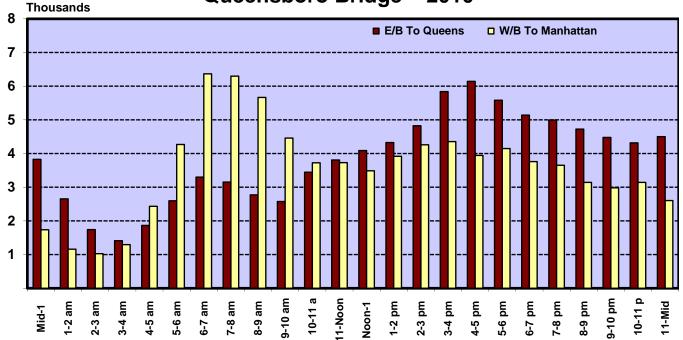
Westbound to Manhattan

| | | | | | | | | | | namatta | =-=- | | |
|-----------|-------------|---------------|-------|--------|----------|----------|-------------|---------------|-------|---------|----------|----------|-----------|
| | | Commuter Van | S | | | | | Commuter Van | s | | | | |
| | С | ommercial Var | าร | Single | | | С | ommercial Var | ns | Single | | | 2-Way |
| | Autos & | Pickups | | Unit | Tractor | Total | Autos & | Pickups | | Unit | Tractor | Total | Grand |
| | Motorcycles | Large SUVs | Buses | Trucks | Trailers | Vehicles | Motorcycles | Large SUVs | Buses | Trucks | Trailers | Vehicles | Totals |
| FHWA | | | | | | | | | | | | | |
| Classes ► | 1 & 2 | 3 | 4 | 5 - 7 | 8 - 13 | | 1 & 2 | 3 | 4 | 5 - 7 | 8 - 13 | | |
| 12-1am | 3,719 | 50 | 16 | 42 | 0 | 3,827 | 1,703 | 16 | 10 | 8 | 1 | 1,738 | 5,565 |
| 1-2am | 2,593 | 24 | 10 | 26 | 1 | 2,654 | 1,130 | 14 | 5 | 11 | 1 | 1,161 | 3,815 |
| 2-3am | 1,696 | 9 | 4 | 31 | 1 | 1,741 | 978 | 11 | 4 | 33 | 0 | 1,026 | 2,767 |
| 3-4am | 1,356 | 7 | 2 | 47 | 0 | 1,412 | 1,219 | 8 | 11 | 57 | 1 | 1,296 | 2,708 |
| 4-5am | 1,764 | 17 | 15 | 70 | 0 | 1,866 | 2,257 | 27 | 18 | 130 | 0 | 2,432 | 4,298 |
| 5-6am | 2,421 | 40 | 20 | 116 | 1 | 2,598 | 3,970 | 52 | 25 | 201 | 21 | 4,269 | 6,867 |
| 6-7am | 3,053 | 34 | 26 | 187 | 1 | 3,301 | 6,008 | 78 | 38 | 228 | 14 | 6,366 ** | 9,667 |
| 7-8am | 2,833 | 56 | 31 | 229 | 4 | 3,153 | 5,883 | 68 | 50 | 268 | 30 | 6,299 | 9,452 |
| 8-9am | 2,449 | 52 | 41 | 225 | 7 | 2,774 | 5,253 | 73 | 57 | 257 | 26 | 5,666 | 8,440 |
| 9-10am | 2,262 | 41 | 39 | 228 | 6 | 2,576 | 4,110 | 69 | 43 | 203 | 34 | 4,459 | 7,035 |
| 10-11am | 3,011 | 65 | 59 | 298 | 12 | 3,445 | 3,402 | 62 | 31 | 200 | 30 | 3,725 | 7,170 |
| 11-12am | 3,429 | 58 | 44 | 273 | 5 | 3,809 | 3,424 | 57 | 26 | 187 | 36 | 3,730 | 7,539 |
| 12-1pm | 3,669 | 74 | 44 | 297 | 6 | 4,090 | 3,216 | 36 | 35 | 170 | 32 | 3,489 | 7,579 |
| 1-2pm | 3,860 | 89 | 50 | 321 | 6 | 4,326 | 3,664 | 51 | 35 | 132 | 37 | 3,919 | 8,245 |
| 2-3pm | 4,392 | 87 | 58 | 282 | 7 | 4,826 | 3,988 | 67 | 42 | 128 | 34 | 4,259 | 9,085 |
| 3-4pm | 5,395 | 88 | 61 | 287 | 8 | 5,839 | 4,106 | 50 | 40 | 139 | 21 | 4,356 | 10,195 ** |
| 4-5pm | 5,755 | 90 | 45 | 247 | 7 | 6,144 ** | 3,760 | 45 | 28 | 100 | 12 | 3,945 | 10,089 |
| 5-6pm | 5,228 | 73 | 44 | 229 | 10 | 5,584 | 3,988 | 36 | 34 | 70 | 21 | 4,149 | 9,733 |
| 6-7pm | 4,833 | 64 | 51 | 187 | 6 | 5,141 | 3,659 | 29 | 21 | 41 | 12 | 3,762 | 8,903 |
| 7-8pm | 4,675 | 81 | 59 | 168 | 10 | 4,993 | 3,554 | 25 | 27 | 34 | 11 | 3,651 | 8,644 |
| 8-9pm | 4,436 | 83 | 67 | 136 | 4 | 4,726 | 3,060 | 29 | 19 | 29 | 7 | 3,144 | 7,870 |
| 9-10pm | 4,241 | 65 | 51 | 118 | 3 | 4,478 | 2,908 | 24 | 15 | 32 | 4 | 2,983 | 7,461 |
| 10-11pm | 4,090 | 59 | 47 | 120 | 1 | 4,317 | 3,077 | 23 | 18 | 26 | 0 | 3,144 | 7,461 |
| 11-12pm | 4,361 | 56 | 28 | 56 | 1 | 4,502 | 2,552 | 15 | 15 | 22 | 1 | 2,605 | 7,107 |
| Totals | 85,521 | 1,362 | 912 | 4,220 | 107 | 92,122 | 80,869 | 965 | 647 | 2,706 | 386 | 85,573 | 177,695 |
| 7-10am | 7,544 | 149 | 111 | 682 | 17 | 8,503 | 15,246 | 210 | 150 | 728 | 90 | 16,424 | 24,927 |
| 10am-1pm | | 197 | 147 | 868 | 23 | 11,344 | 10,042 | 155 | 92 | 557 | 98 | 10,944 | 22,288 |
| 1-4pm | 13,647 | 264 | 169 | 890 | 21 | 14,991 | 11,758 | 168 | 117 | 399 | 92 | 12,534 | 27,525 |
| 4-7pm | 15,816 | 227 | 140 | 663 | 23 | 16,869 | 11,407 | 110 | 83 | 211 | 45 | 11,856 | 28,725 |
| 7am-7pm | 47,116 | 837 | 567 | 3,103 | 84 | 51,707 | 48,453 | 643 | 442 | 1,895 | 325 | 51,758 | 103,465 |

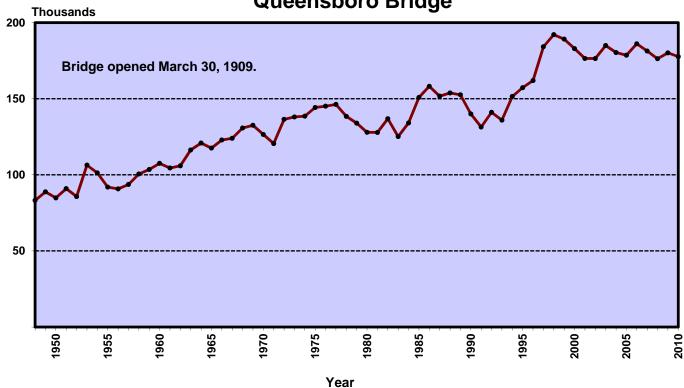
Based on April 2006 Classification Survey Data

^{**} Peak Volumes

Hourly Vehicular Volumes Queensboro Bridge ~ 2010



Average Daily Traffic Volumes ~ Total of Both Directions Queensboro Bridge



Hourly Vehicular Volumes Williamsburg Bridge - 2010

Eastbound to Brooklyn

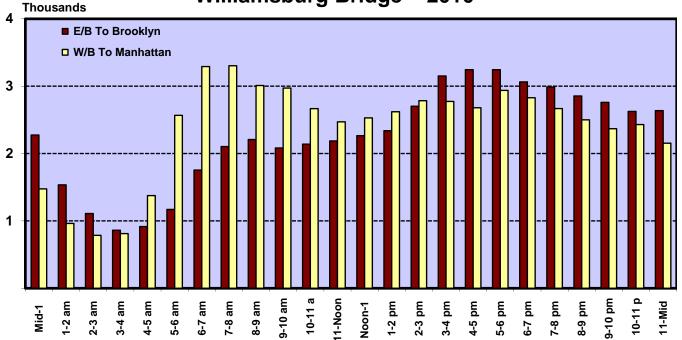
Westbound to Manhattan

| | | Lasible | Juliu to | <i>DI OOKIYII</i> | ! | | | Westbe | Juliu to i | viai ii iatta | · · · · · · · · · · · · · · · · · · · | | |
|-----------|-------------|---------------|----------|--------------------------|----------|----------|-------------|---------------|------------|---------------|---------------------------------------|----------|----------|
| | | Commuter Van | S | | | | | Commuter Van | S | | | | |
| | С | ommercial Var | าร | Single | | | С | ommercial Vai | าร | Single | | | 2-Way |
| | Autos & | Pickups | | Unit | Tractor | Total | Autos & | Pickups | | Unit | Tractor | Total | Grand |
| | Motorcycles | Large SUVs | Buses | Trucks | Trailers | Vehicles | Motorcycles | Large SUVs | Buses | Trucks | Trailers | Vehicles | Totals |
| FHWA | | | | | | | | | | | | | |
| Classes ► | 1 & 2 | 3 | 4 | 5 - 7 | 8 - 13 | | 1 & 2 | 3 | 4 | 5 - 7 | 8 - 13 | | |
| 12-1am | 2,265 | 7 | 1 | 2 | 0 | 2,275 | 1,470 | 4 | 1 | 0 | 0 | 1,475 | 3,750 |
| 1-2am | 1,527 | 4 | 1 | 1 | 2 | 1,535 | 957 | 3 | 1 | 1 | 0 | 962 | 2,497 |
| 2-3am | 1,099 | 5 | 3 | 2 | 1 | 1,110 | 776 | 6 | 1 | 2 | 0 | 785 | 1,895 |
| 3-4am | 844 | 8 | 4 | 4 | 2 | 862 | 805 | 4 | 0 | 1 | 1 | 811 | 1,673 |
| 4-5am | 903 | 7 | 3 | 3 | 0 | 916 | 1,367 | 6 | 1 | 1 | 1 | 1,376 | 2,292 |
| 5-6am | 1,149 | 6 | 9 | 6 | 0 | 1,170 | 2,548 | 7 | 8 | 2 | 2 | 2,567 | 3,737 |
| 6-7am | 1,687 | 13 | 29 | 23 | 3 | 1,755 | 3,251 | 16 | 17 | 8 | 0 | 3,292 | 5,047 |
| 7-8am | 1,992 | 23 | 50 | 38 | 1 | 2,104 | 3,240 | 31 | 19 | 14 | 0 | 3,304 ** | 5,408 |
| 8-9am | 2,101 | 24 | 47 | 33 | 3 | 2,208 | 2,938 | 34 | 21 | 16 | 1 | 3,010 | 5,218 |
| 9-10am | 1,968 | 30 | 49 | 34 | 2 | 2,083 | 2,906 | 29 | 20 | 14 | 3 | 2,972 | 5,055 |
| 10-11am | 1,986 | 41 | 68 | 44 | 1 | 2,140 | 2,604 | 34 | 18 | 8 | 3 | 2,667 | 4,807 |
| 11-12am | 2,043 | 35 | 61 | 46 | 2 | 2,187 | 2,419 | 27 | 16 | 8 | 1 | 2,471 | 4,658 |
| 12-1pm | 2,120 | 58 | 27 | 58 | 2 | 2,265 | 2,457 | 36 | 17 | 18 | 1 | 2,529 | 4,794 |
| 1-2pm | 2,187 | 67 | 30 | 51 | 4 | 2,339 | 2,549 | 34 | 20 | 17 | 1 | 2,621 | 4,960 |
| 2-3pm | 2,555 | 58 | 40 | 47 | 3 | 2,703 | 2,717 | 33 | 16 | 17 | 2 | 2,785 | 5,488 |
| 3-4pm | 2,986 | 68 | 39 | 55 | 3 | 3,151 | 2,700 | 29 | 21 | 22 | 2 | 2,774 | 5,925 |
| 4-5pm | 3,093 | 61 | 37 | 48 | 6 | 3,245 ** | 2,604 | 37 | 19 | 19 | 1 | 2,680 | 5,925 |
| 5-6pm | 3,117 | 59 | 35 | 33 | 1 | 3,245 ** | 2,851 | 42 | 25 | 18 | 2 | 2,938 | 6,183 ** |
| 6-7pm | 2,974 | 39 | 25 | 24 | 2 | 3,064 | 2,758 | 34 | 17 | 17 | 2 | 2,828 | 5,892 |
| 7-8pm | 2,911 | 31 | 25 | 20 | 1 | 2,988 | 2,613 | 27 | 16 | 12 | 0 | 2,668 | 5,656 |
| 8-9pm | 2,793 | 25 | 20 | 14 | 2 | 2,854 | 2,476 | 15 | 5 | 4 | 1 | 2,501 | 5,355 |
| 9-10pm | 2,725 | 14 | 13 | 5 | 2 | 2,759 | 2,347 | 14 | 4 | 3 | 1 | 2,369 | 5,128 |
| 10-11pm | 2,604 | 11 | 4 | 4 | 2 | 2,625 | 2,410 | 14 | 2 | 3 | 1 | 2,430 | 5,055 |
| 11-12pm | 2,625 | 7 | 2 | 3 | 0 | 2,637 | 2,142 | 8 | 2 | 2 | 0 | 2,154 | 4,791 |
| Totals | 52,254 | 701 | 622 | 598 | 45 | 54,220 | 55,905 | 524 | 287 | 227 | 26 | 56,969 | 111,189 |
| 7-10am | 6,061 | 77 | 146 | 105 | 6 | 6,395 | 9,084 | 94 | 60 | 44 | 4 | 9,286 | 15,681 |
| 10am-1pm | | 134 | 156 | 148 | 5 | 6,592 | 7,480 | 97 | 51 | 34 | 5 | 7,667 | 14,259 |
| 1-4pm | 7,728 | 193 | 109 | 153 | 10 | 8,193 | 7,966 | 96 | 57 | 56 | 5 | 8,180 | 16,373 |
| 4-7pm | 9,184 | 159 | 97 | 105 | 9 | 9,554 | 8,213 | 113 | 61 | 54 | 5 | 8,446 | 18,000 |
| 7am-7pm | 29,122 | 563 | 508 | 511 | 30 | 30,734 | 32,743 | 400 | 229 | 188 | 19 | 33,579 | 64,313 |

Based on March 2006 Classification Survey Data

^{**} Peak Volumes

Hourly Vehicular Volumes Williamsburg Bridge ~ 2010



Average Daily Traffic Volumes ~ Total of Both Directions Williamsburg Bridge

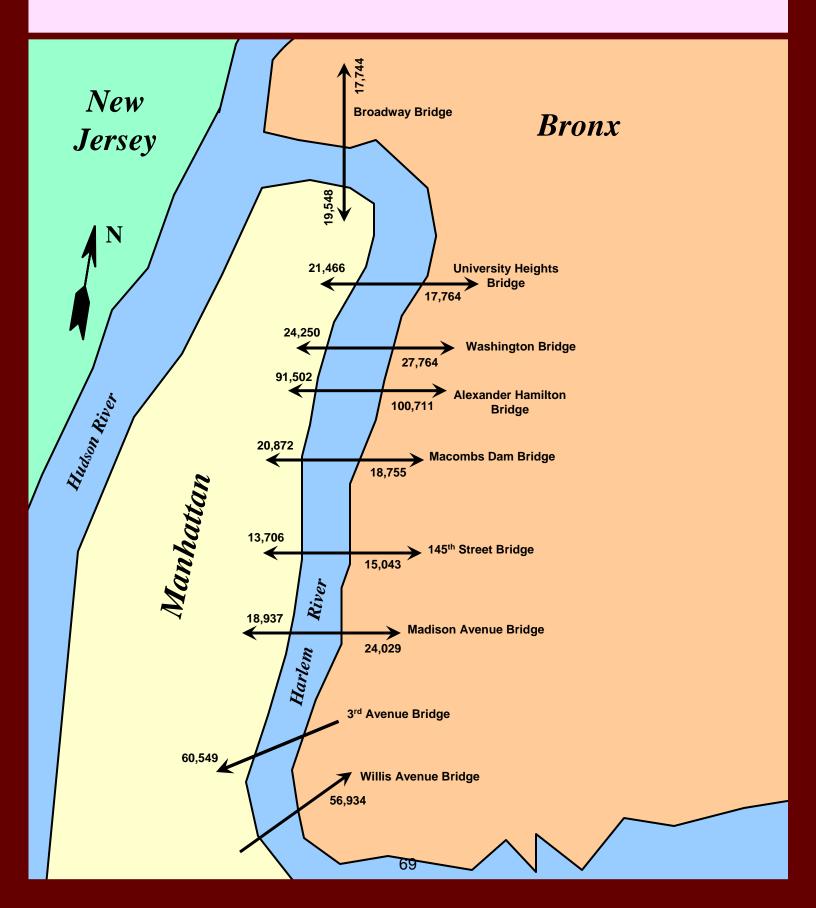


Harlem River Bridges



Harlem River Bridges

2010 Daily Volumes



Harlem River Bridges Average Daily Traffic Volumes 1948 - 2010

| ., | Alexander | . . | Macombs | Madison | Third |
|--------------|--------------------|------------------|------------------|------------------|------------------|
| Year | Hamilton | Broadway | Dam | Avenue | Avenue |
| 1948 | | 16,020 | 33,608 | 27,222 | 31,403 |
| 1949 | | 17,369 | 23,854 | 17,363 | 20,024 |
| 1950 1951 | Bridge | 15,462 16,374 | 28,641 31,072 | 27,933 33,576 | 34,984 51,478 |
| 1952 | Opened | 17,412 | 36,100 | 27,468 | 34,023 |
| 1953 | Jan. 1963 | 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 1957 | | 17,960 20,345 | 32,761 55,609 | 46,591 40,860 | 42,735 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 1964 | 87,840 | 23,110 25,020 | 43,450 31,050 | 27,090 31,170 | 63,840 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 1971 | 141,609 137,881 | 23,115 28,232 | 46,523 40,489 | 24,941 28,891 | 48,110 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 1977 | 137,141 158,710 | 26,453 26,465 | 36,065 33,539 | 27,838 29,832 | 54,957 52,969 |
| 1978 | 151,342 | 25,145 25,145 | 35,764 | 34,938 | 52,969 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 1983 | 156,038 161,772 | 30,846 29,875 | 45,178 42,747 | 30,485 30,715 | 60,236 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 1990 | 183,661 192,848 | 35,066 41,705 | 43,450 41,113 | 31,688 32,458 | 64,849 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 1996 | 175,279 176,856 | 42,555 40,040 | 41,571 40,031 | 22,739 17,948 | 68,663 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 2003 | 168,079 182,704 | 38,287 36,888 | 18,878 42,254 | 49,487 41,575 | 58,949 43,065 |
| 2003 | 175,323 | 36,888 35,190 | 40,558 | 41,575 48,723 | 43,065 47,053 |
| 2004 | 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 |

Harlem River Bridges (cont'd) Average Daily Traffic Volumes 1948 - 2010

| | University | | Willis | 145th | |
|--------------|------------------|------------------|------------------|------------------|--------------------|
| Year | Heights | Washington | Avenue | Street | Totals |
| 1948 | 21,706 | 29,374 | 29,648 | 18,196 | 207,177 |
| 1949 | 14,098 | 32,122 | 42,772 | 25,908 | 193,510 |
| 1950 | 24,986 | 29,541 | 38,708 | 22,416 | 222,671 |
| 1951 1952 | 25,270 21,527 | 28,599 28,270 | 35,958 33,207 | 26,872 24,189 | 249,199 222,196 |
| 1953 | 29,240 | 37,298 | 38,579 | 29,385 | 248,629 |
| 1954 | 22,979 | 39,339 | 46,675 | 26,119 | 236,056 |
| 1955 | 18,151 | 33,988 | 44,809 | 35,449 | 250,239 |
| 1956 | 21,834 | 30,598 | 43,752 | 30,550 | 266,781 |
| 1957 | 34,077 | 38,861 | 51,395 | 28,114 | 316,530 |
| 1958 | 37,078 | 50,100 | 49,773 | 25,677 | 329,747 |
| 1959 | 33,580 | 51,652 | 58,705 | 39,709 | 342,349 |
| 1960 1961 | 36,763 43,749 | 54,008 61,542 | 59,050 50,902 | 30,868 33,767 | 345,199 333,463 |
| 1962 | 35,940 | 56,110 | 55,910 | 27,540 | 313,230 |
| 1963 | 26,030 | 32,760 | 65,290 | 27,520 | 309,090 |
| 1964 | 31,490 | 41,410 | 65,190 | 31,260 | 407,680 |
| 1965 | 23,458 | 35,560 | 53,219 | 26,924 | 401,259 |
| 1966 | 25,700 | 31,104 | 53,677 | 25,284 | 402,487 |
| 1967 | 26,990 | 33,921 | 69,609 | 22,368 | 427,744 |
| 1968 | 26,126 | 35,218 | 58,730 | 22,853 | 362,095 |
| 1969 1970 | 29,941 | 19,136 33,661 | 60,192 | 24,200 23,580 | 412,992 429,690 |
| 1971 | 26,718 29,622 | 38,522 | 61,433 53,609 | 24,401 | 432,195 |
| 1972 | 31,620 | 36,812 | 49,431 | 23,105 | 422,364 |
| 1973 | 33,503 | 46,079 | 51,537 | 23,431 | 449,670 |
| 1974 | 29,297 | 42,014 | 53,322 | 21,616 | 439,112 |
| 1975 | 29,111 | 41,522 | 52,984 | 21,189 | 440,354 |
| 1976 | 34,494 | 39,058 | 53,873 | 19,750 | 429,629 |
| 1977 | 29,128 | 38,185 | 52,484 | 20,888 | 442,200 |
| 1978 1979 | 35,883 31,796 | 37,690 37,348 | 54,335 44,851 | 21,484 21,566 | 450,758 427,816 |
| 1980 | 32,562 | 38,061 | 52,061 | 21,826 | 446,292 |
| 1981 | 34,454 | 38,061 | 52,561 | 21,150 | 448,323 |
| 1982 | 25,416 | 44,168 | 55,762 | 22,656 | 470,785 |
| 1983 | 32,233 | 42,186 | 60,296 | 23,516 | 491,153 |
| 1984 | 30,485 | 46,896 | 66,017 | 23,802 | 496,949 |
| 1985 | 37,553 | 51,302 | 65,638 | 28,722 | 538,263 |
| 1986 1987 | 36,192 37,223 | 54,935 46,094 | 66,824 67,558 | 26,181 24,895 | 546,896 530,228 |
| 1988 | 38,542 | 48,025 | 64,862 | 25,818 | 520,282 |
| 1989 | 42,246 | 49,092 | 66,012 | 23,317 | 539,381 |
| 1990 | 19,768 | 61,668 | 62,315 | 24,172 | 539,563 |
| 1991 | 18,220 | 57,526 | 60,415 | 26,448 | 533,368 |
| 1992 | 39,232 | 51,925 | 66,522 | 26,315 | 537,353 |
| 1993 | 38,895 | 52,795 | 70,472 | 25,390 | 542,306 |
| 1994 1995 | 38,134 21,238 | 57,009 56,372 | 67,344 67,716 | 23,299 25,749 | 526,044 521,882 |
| 1996 | 35,280 | 56,204 | 70,229 | 27,156 | 530,950 |
| 1997 | 39,639 | 54,708 | 73,461 | 24,151 | 546,750 |
| 1998 | 41,640 | 57,307 | 78,145 | 24,862 | 560,062 |
| 1999 | 42,287 | 58,907 | 71,555 | 26,361 | 563,182 |
| 2000 | 45,557 | 68,075 | 73,175 | 34,362 | 578,770 |
| 2001 | 46,381 | 57,443 | 72,901 | 26,552 | 568,759 |
| 2002 | 45,311 | 63,609 | 73,435 | 35,796 | 551,831 |
| 2003 | 50,126 | 63,154 | 66,710 | 23,034 | 549,510 |
| 2004 | 47,350 | 57,530 | 74,700 | 25,994 | 552,421 |
| 2005 2006 | 44,938 42,118 | 58,019 57,680 | 66,708 66,212 | 25,802 21,733 | 561,392 557,043 |
| 2006 | 42,118 41,422 | 57,689 56,945 | 65,113 | 21,733 21,147 | 557,043 557,925 |
| 2007 | 39,340 | | 62,167 | | |
| 2008 | 39,340 39,165 | 52,768 52,420 | 58,548 | 23,148 24,364 | 539,434 543,736 |
| 2010 | 39,230 | 52,014 | 56,934 | 28,749 | 549,574 |
| 20.0 | 30,230 | 52,011 | 03,001 | _0,1 .0 | 5.0,01 |

Hourly Vehicular Volumes Alexander Hamilton Bridge - 2010

Eastbound to Bronx

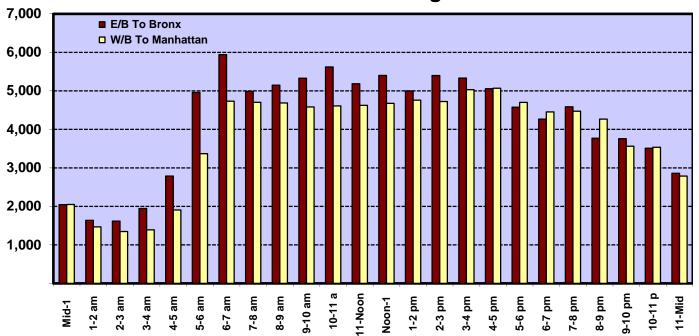
Westbound to Manhattan

| <u> </u> | | | astbourn | u to bio | IIA . | | | 77636 | .Douria t | O Mailin | attari | | |
|----------|--------|-------|----------|----------|----------|----------|--------|-------|-----------|----------|-----------|----------|-----------|
| _ | | | Commut | er C | Commerci | ial | | (| Commut | er C | Commercia | al | 2-Way |
| | Autos | Buses | Vans | Trucks | Vans | Totals | Autos | Buses | Vans | Trucks | Vans | Totals | Totals |
| 12-1am | | | | | | 2,045 | | | | | | 2,050 | 4,095 |
| 1-2am | | | | | | 1,638 | | | | | | 1,467 | 3,105 |
| 2-3am | | | | | | 1,618 | | | | | | 1,347 | 2,965 |
| 3-4am | | | | | | 1,945 | | | | | | 1,390 | 3,335 |
| 4-5am | | | | | | 2,788 | | | | | | 1,907 | 4,695 |
| 5-6am | | | | | | 4,958 | | | | | | 3,368 | 8,326 |
| 6-7am | | | | | | 5,942 ** | | | | | | 4,732 | 10,674 ** |
| 7-8am | 3,893 | 13 | 225 | 744 | 113 | 4,988 | 3,977 | 9 | 85 | 423 | 209 | 4,703 | 9,691 |
| 8-9am | 3,740 | 5 | 244 | 940 | 218 | 5,147 | 4,008 | 33 | 33 | 465 | 148 | 4,687 | 9,834 |
| 9-10am | 3,729 | 5 | 239 | 1,221 | 134 | 5,328 | 3,523 | 51 | 29 | 773 | 206 | 4,582 | 9,910 |
| 10-11am | 5,044 | 4 | 120 | 395 | 57 | 5,620 | 3,989 | 28 | 18 | 430 | 145 | 4,610 | 10,230 |
| 11-12am | 3,887 | 12 | 279 | 864 | 143 | 5,185 | 3,276 | 14 | 21 | 1,022 | 291 | 4,624 | 9,809 |
| 12-1pm | 4,683 | 0 | 132 | 528 | 58 | 5,401 | 3,962 | 11 | 10 | 553 | 140 | 4,676 | 10,077 |
| 1-2pm | 3,809 | 8 | 181 | 909 | 91 | 4,998 | 3,554 | 13 | 25 | 924 | 242 | 4,758 | 9,756 |
| 2-3pm | 4,179 | 7 | 222 | 867 | 123 | 5,398 | 3,526 | 20 | 43 | 945 | 190 | 4,724 | 10,122 |
| 3-4pm | 4,753 | 8 | 96 | 371 | 104 | 5,332 | 4,379 | 24 | 18 | 515 | 94 | 5,030 | 10,362 |
| 4-5pm | 4,239 | 6 | 159 | 530 | 121 | 5,055 | 3,824 | 4 | 44 | 964 | 233 | 5,069 ** | 10,124 |
| 5-6pm | 3,991 | 5 | 112 | 375 | 93 | 4,576 | 3,686 | 2 | 30 | 822 | 161 | 4,701 | 9,277 |
| 6-7pm | 3,587 | 8 | 188 | 411 | 73 | 4,267 | 3,831 | 3 | 22 | 464 | 133 | 4,453 | 8,720 |
| 7-8pm | | | | | | 4,586 | | | | | | 4,472 | 9,058 |
| 8-9pm | | | | | | 3,769 | | | | | | 4,266 | 8,035 |
| 9-10pm | | | | | | 3,757 | | | | | | 3,563 | 7,320 |
| 10-11pm | | | | | | 3,511 | | | | | | 3,536 | 7,047 |
| 11-12pm | | | | | | 2,859 | | | | | | 2,787 | 5,646 |
| Totals | | | | | | 100,711 | | | | | | 91,502 | 192,213 |
| 7-10am | 11,362 | 23 | 708 | 2,905 | 465 | 15,463 | 11,508 | 93 | 147 | 1,661 | 563 | 13,972 | 29,435 |
| 10am-1pm | 13,614 | 16 | 531 | 1,787 | 258 | 16,206 | 11,227 | 53 | 49 | 2,005 | 576 | 13,910 | 30,116 |
| 1-4pm | 12,741 | 23 | 499 | 2,147 | 318 | 15,728 | 11,459 | 57 | 86 | 2,384 | 526 | 14,512 | 30,240 |
| 4-7pm | 11,817 | 19 | 459 | 1,316 | 287 | 13,898 | 11,341 | 9 | 96 | 2,250 | 527 | 14,223 | 28,121 |
| 7am-7pm | 49,534 | 81 | 2,197 | 8,155 | 1,328 | 61,295 | 45,535 | 212 | 378 | 8,300 | 2,192 | 56,617 | 117,912 |

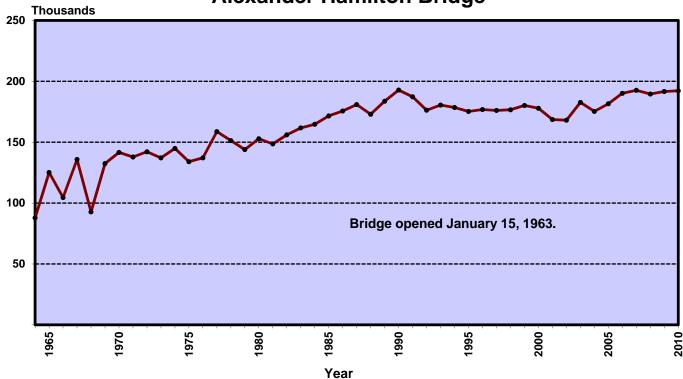
Based on 1989 Classification Survey Data

^{**} Peak Volumes

Hourly Vehicular Volumes Alexander Hamilton Bridge ~ 2010



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



Hourly Vehicular Volumes Broadway Bridge - 2010

Northbound to Bronx Southbound to Manhattan Commuter Commercial Commuter Commercial 2-Way **Buses Buses** Vans Trucks Vans Totals Autos Vans Trucks Vans Totals **Totals** Autos 12-1am 286 333 619 1-2am 181 201 382 ------2-3am 130 145 275 3-4am 95 117 212 ------4-5am 120 279 159 ---------------------------624 5-6am 213 411 6-7am 494 852 1,346 ------------------------7-8am 684 38 20 69 29 840 1,306 60 41 30 43 1,480 2,320 8-9am 853 62 22 37 29 1.003 1.195 41 28 42 41 1.347 2.350 9-10am 633 22 3 26 57 741 947 36 27 56 43 1.109 1,850 16 2 23 738 21 36 862 1,600 10-11am 663 34 785 11 9 11-12am 9 28 42 783 686 23 23 48 49 829 1.612 683 21 6 834 21 1,699 12-1pm 741 21 21 23 812 4 17 11 887 791 24 3 27 28 873 871 24 9 20 940 1,813 1-2pm 16 37 2-3pm 879 25 75 1.017 1.010 31 24 36 18 1.119 2,136 1 3-4pm 1,182 29 10 15 40 1,276 1,179 33 14 19 11 1,256 2,532 1,392 4-5pm 1,233 43 30 26 60 1.214 32 22 38 37 1.343 2.735 5-6pm 1,336 31 9 13 70 1.459 1.233 31 32 19 25 1.340 2.799 0 28 6-7pm 1,273 24 14 125 1,436 1,164 31 20 9 1,252 2,688 7-8pm 1.222 988 2.210 8-9pm 889 745 1.634 ------------------9-10pm 737 669 1,406 ---------------10-11pm 590 593 1,183 11-12pm 417 571 988 **Totals** 17.744 19.548 37.292 ------7-10am 2,170 122 2,584 45 132 115 3,448 137 96 128 127 3,936 6,520 2,087 17 2,333 2,305 38 2,578 10am-1pm 58 83 88 65 101 69 4,911 1-4pm 2,852 78 14 79 143 3,166 3,060 88 47 75 45 3,315 6,481 4-7pm 3.842 98 39 53 255 4,287 3,611 94 82 77 71 3,935 8,222

Based on 1989 Classification Survey Data

7am-7pm 10.951

356

115

347

601

12.370

26,134

12,424

263

381

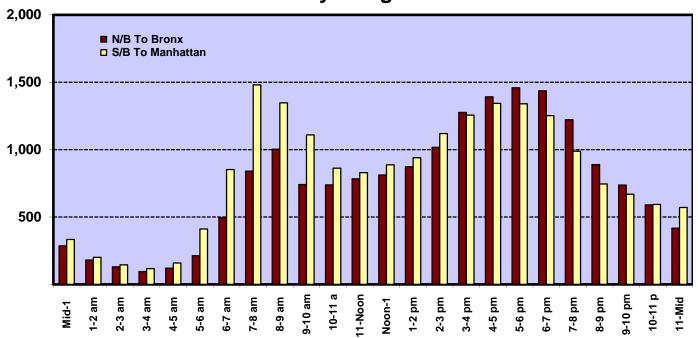
384

312

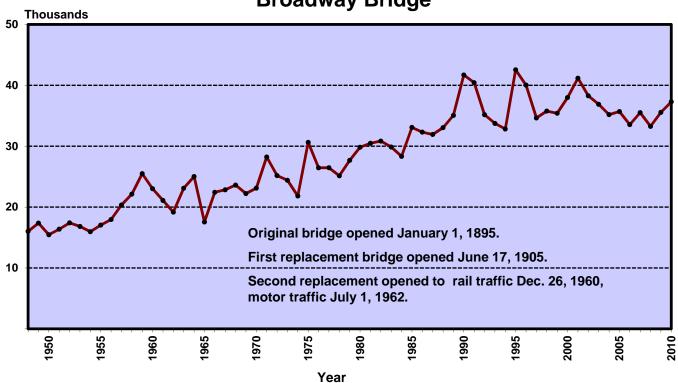
13.764

^{**} Peak Volumes

Hourly Vehicular Volumes Broadway Bridge ~ 2010



Average Daily Traffic Volumes ~ Total of Both Directions Broadway Bridge



Hourly Vehicular Volumes Macombs Dam Bridge - 2010

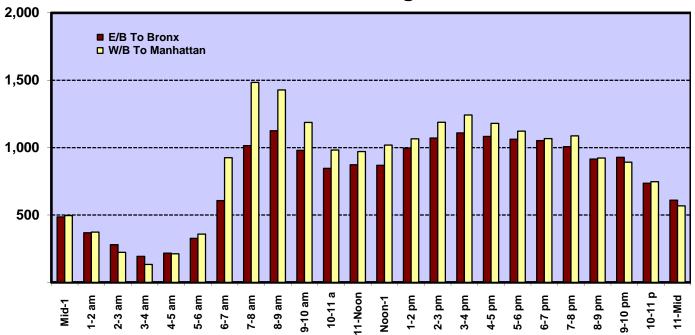
Eastbound to Bronx Westbound to Manhattan

| _ | | La | Stbound | i lo broil | X | | | Mesi | bouria t | O Marina | ılları | | |
|----------|--------|-------|---------|------------|----------|----------|--------|-------|----------|----------|---------|----------|----------|
| | | (| Commute | er Co | ommercia | al | | (| Commute | er C | ommerci | al | 2-Way |
| | Autos | Buses | Vans | Trucks | Vans | Totals | Autos | Buses | Vans | Trucks | Vans | Totals | Totals |
| 12-1am | | | | | | 486 | | | | | | 496 | 982 |
| 1-2am | | | | | | 368 | | | | | | 373 | 741 |
| 2-3am | | | | | | 280 | | | | | | 223 | 503 |
| 3-4am | | | | | | 193 | | | | | | 133 | 326 |
| 4-5am | | | | | | 217 | | | | | | 212 | 429 |
| 5-6am | | | | | | 327 | | | | | | 358 | 685 |
| 6-7am | | | | | | 607 | | | | | | 925 | 1,532 |
| 7-8am | 832 | 34 | 22 | 51 | 76 | 1,015 | 1,144 | 37 | 5 | 81 | 217 | 1,484 ** | 2,499 |
| 8-9am | 941 | 13 | 17 | 57 | 97 | 1,125 ** | 1,161 | 10 | 2 | 91 | 164 | 1,428 | 2,553 ** |
| 9-10am | 839 | 18 | 14 | 53 | 56 | 980 | 887 | 18 | 12 | 102 | 168 | 1,187 | 2,167 |
| 10-11am | 764 | 7 | 3 | 32 | 40 | 846 | 876 | 8 | 7 | 38 | 53 | 982 | 1,828 |
| 11-12am | 721 | 9 | 12 | 60 | 71 | 873 | 803 | 6 | 13 | 70 | 79 | 971 | 1,844 |
| 12-1pm | 793 | 9 | 6 | 26 | 35 | 869 | 939 | 17 | 3 | 19 | 41 | 1,019 | 1,888 |
| 1-2pm | 932 | 3 | 6 | 29 | 26 | 996 | 943 | 19 | 7 | 20 | 76 | 1,065 | 2,061 |
| 2-3pm | 889 | 14 | 22 | 70 | 76 | 1,071 | 1,014 | 22 | 15 | 50 | 87 | 1,188 | 2,259 |
| 3-4pm | 966 | 20 | 9 | 52 | 62 | 1,109 | 1,134 | 35 | 10 | 21 | 42 | 1,242 | 2,351 |
| 4-5pm | 841 | 7 | 27 | 72 | 136 | 1,083 | 1,037 | 9 | 28 | 37 | 69 | 1,180 | 2,263 |
| 5-6pm | 892 | 8 | 12 | 32 | 118 | 1,062 | 1,029 | 11 | 9 | 17 | 56 | 1,122 | 2,184 |
| 6-7pm | 981 | 3 | 6 | 23 | 39 | 1,052 | 956 | 6 | 11 | 21 | 73 | 1,067 | 2,119 |
| 7-8pm | | | | | | 1,007 | | | | | | 1,087 | 2,094 |
| 8-9pm | | | | | | 915 | | | | | | 923 | 1,838 |
| 9-10pm | | | | | | 928 | | | | | | 892 | 1,820 |
| 10-11pm | | | | | | 736 | | | | | | 747 | 1,483 |
| 11-12pm | | | | | | 610 | | | | | | 568 | 1,178 |
| Totals | | | | | | 18,755 | | | | | | 20,872 | 39,627 |
| 7-10am | 2,612 | 65 | 53 | 161 | 229 | 3,120 | 3,192 | 65 | 19 | 274 | 549 | 4,099 | 7,219 |
| 10am-1pm | 2,278 | 25 | 21 | 118 | 146 | 2,588 | 2,618 | 31 | 23 | 127 | 173 | 2,972 | 5,560 |
| 1-4pm | 2,787 | 37 | 37 | 151 | 164 | 3,176 | 3,091 | 76 | 32 | 91 | 205 | 3,495 | 6,671 |
| 4-7pm | 2,714 | 18 | 45 | 127 | 293 | 3,197 | 3,022 | 26 | 48 | 75 | 198 | 3,369 | 6,566 |
| 7am-7pm | 10,391 | 145 | 156 | 557 | 832 | 12,081 | 11,923 | 198 | 122 | 567 | 1,125 | 13,935 | 26,016 |

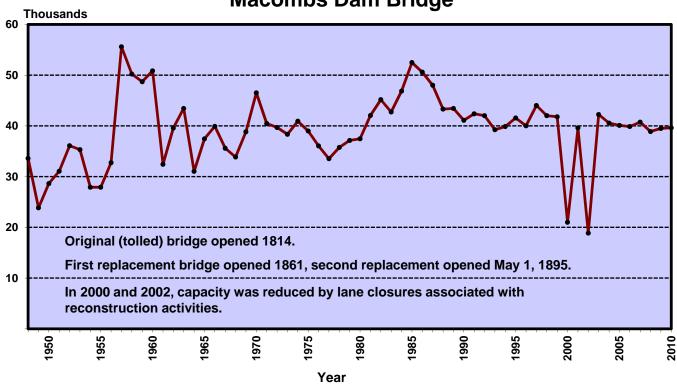
Based on 1989 Classification Survey Data

^{**} Peak Volumes

Hourly Vehicular Volumes Macombs Dam Bridge ~ 2010



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



Hourly Vehicular Volumes Madison Avenue Bridge - 2010

Eastbound to Bronx

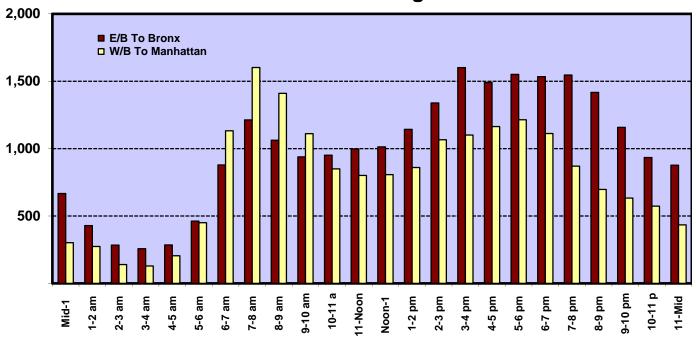
Westbound to Manhattan

| _ | | Ea | istbound | to Broii | X | | | VI | restbour | ia to iviai | inattan | | |
|----------|--------|-------|----------|----------|---------|----------|--------|---------|----------|-------------|---------|----------|----------|
| | | (| Commut | er Co | ommerci | al | | | Commut | er C | ommerci | ial | 2-Way |
| | Autos | Buses | Vans | Trucks | Vans | Totals | Auto | s Buses | Vans | Trucks | Vans | Totals | Totals |
| 12-1am | | | | | | 667 | | | | | | 302 | 969 |
| 1-2am | | | | | | 429 | | | | | | 274 | 703 |
| 2-3am | | | | | | 284 | | | | | | 140 | 424 |
| 3-4am | | | | | | 257 | | | | | | 129 | 386 |
| 4-5am | | | | | | 285 | | | | | | 205 | 490 |
| 5-6am | | | | | | 462 | | | | | | 450 | 912 |
| 6-7am | | | | | | 879 | | | | | | 1,132 | 2,011 |
| 7-8am | 945 | 47 | 104 | 61 | 56 | 1,213 | 1,311 | 105 | 15 | 53 | 118 | 1,602 ** | 2,815 ** |
| 8-9am | 832 | 57 | 74 | 44 | 55 | 1,062 | 1,117 | 7 93 | 26 | 59 | 115 | 1,410 | 2,472 |
| 9-10am | 675 | 60 | 87 | 72 | 45 | 939 | 784 | 56 | 31 | 136 | 104 | 1,111 | 2,050 |
| 10-11am | 789 | 36 | 47 | 35 | 44 | 951 | 692 | 2 58 | 19 | 19 | 62 | 850 | 1,801 |
| 11-12am | 673 | 27 | 88 | 109 | 100 | 997 | 610 |) 23 | 31 | 60 | 77 | 801 | 1,798 |
| 12-1pm | 865 | 28 | 34 | 42 | 44 | 1,013 | 677 | 7 30 | 23 | 28 | 49 | 807 | 1,820 |
| 1-2pm | 970 | 34 | 36 | 49 | 54 | 1,143 | 732 | 2 50 | 25 | 14 | 39 | 860 | 2,003 |
| 2-3pm | 977 | 37 | 86 | 119 | 120 | 1,339 | 851 | 72 | 29 | 32 | 82 | 1,066 | 2,405 |
| 3-4pm | 1,379 | 28 | 44 | 78 | 72 | 1,601 ** | 948 | 66 | 19 | 25 | 43 | 1,101 | 2,702 |
| 4-5pm | 1,111 | 28 | 125 | 103 | 124 | 1,491 | 1,007 | 62 | 27 | 24 | 44 | 1,164 | 2,655 |
| 5-6pm | 1,240 | 34 | 107 | 87 | 83 | 1,551 | 1,064 | 48 | 34 | 27 | 41 | 1,214 | 2,765 |
| 6-7pm | 1,263 | 73 | 50 | 64 | 84 | 1,534 | 1,008 | 3 40 | 23 | 20 | 21 | 1,112 | 2,646 |
| 7-8pm | | | | | | 1,546 | | | | | | 870 | 2,416 |
| 8-9pm | | | | | | 1,417 | | | | | | 697 | 2,114 |
| 9-10pm | | | | | | 1,158 | | | | | | 633 | 1,791 |
| 10-11pm | | | | | | 934 | | | | | | 573 | 1,507 |
| 11-12pm | | | | | | 877 | | | | | | 434 | 1,311 |
| Totals | | | | | | 24,029 | | | | | | 18,937 | 42,966 |
| 7-10am | 2,452 | 164 | 265 | 177 | 156 | 3,214 | 3,212 | | 72 | 248 | 337 | 4,123 | 7,337 |
| 10am-1pm | 2,327 | 91 | 169 | 186 | 188 | 2,961 | 1,979 | | 73 | 107 | 188 | 2,458 | 5,419 |
| 1-4pm | 3,326 | 99 | 166 | 246 | 246 | 4,083 | 2,531 | | 73 | 71 | 164 | 3,027 | 7,110 |
| 4-7pm | 3,614 | 135 | 282 | 254 | 291 | 4,576 | 3,079 | | 84 | 71 | 106 | 3,490 | 8,066 |
| 7am-7pm | 11,719 | 489 | 882 | 863 | 881 | 14,834 | 10,801 | 703 | 302 | 497 | 795 | 13,098 | 27,932 |

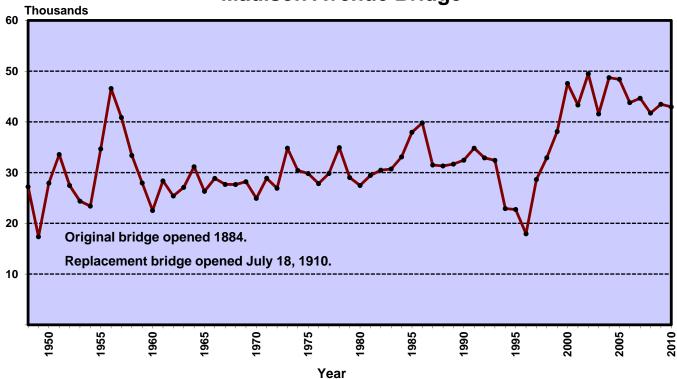
Based on 1989 Classification Survey Data

^{**} Peak Volumes

Hourly Vehicular Volumes Madison Avenue Bridge ~ 2010



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



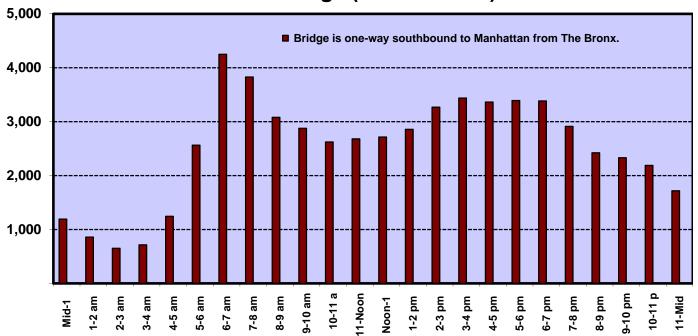
Hourly Vehicular Volumes Third Avenue Bridge - 2010

| | | No | rthbound | d to Bron | 1X | | | Sc | outhboui | nd to Ma | nhattan | | |
|----------|-------|--------|----------|-----------|---------|--------|--------|-------|----------|----------|---------|----------|----------|
| _ | | (| Commute | er Co | mmercia | ı | _ | | Commut | er C | ommerci | al | 2-Way |
| | Autos | Buses | Vans | Trucks | Vans | Totals | Autos | Buses | Vans | Trucks | Vans | Totals | Totals |
| 12-1am | | | | | | | | | | | | 1,192 | 1,192 |
| 1-2am | | | | | | | | | | | | 858 | 858 |
| 2-3am | | | | | | | | | | | | 650 | 650 |
| 3-4am | | | | | | | | | | | | 714 | 714 |
| 4-5am | | Bridge | is 1-way | southbe | ound | | | | | | | 1,245 | 1,245 |
| 5-6am | | _ | to Manh | nattan | | | | | | | | 2,564 | 2,564 |
| 6-7am | | | | | | | | | | | | 4,249 ** | 4,249 ** |
| 7-8am | | | | | | | 2,461 | 51 | 380 | 513 | 423 | 3,828 | 3,828 |
| 8-9am | | | | | | | 2,018 | 29 | 200 | 408 | 425 | 3,080 | 3,080 |
| 9-10am | | | | | | | 1,922 | 31 | 253 | 374 | 296 | 2,876 | 2,876 |
| 10-11am | | | | | | | 2,194 | 27 | 145 | 141 | 116 | 2,623 | 2,623 |
| 11-12am | | | | | | | 1,786 | 50 | 290 | 343 | 212 | 2,681 | 2,681 |
| 12-1pm | | | | | | | 2,293 | 69 | 118 | 133 | 102 | 2,715 | 2,715 |
| 1-2pm | | | | | | | 2,134 | 97 | 186 | 163 | 278 | 2,858 | 2,858 |
| 2-3pm | | | | | | | 2,267 | 113 | 283 | 278 | 327 | 3,268 | 3,268 |
| 3-4pm | | | | | | | 3,078 | 91 | 106 | 86 | 77 | 3,438 | 3,438 |
| 4-5pm | | | | | | | 2,830 | 65 | 153 | 146 | 169 | 3,363 | 3,363 |
| 5-6pm | | | | | | | 3,014 | 59 | 125 | 105 | 89 | 3,392 | 3,392 |
| 6-7pm | | | | | | | 3,028 | 61 | 123 | 82 | 90 | 3,384 | 3,384 |
| 7-8pm | | | | | | | | | | | | 2,912 | 2,912 |
| 8-9pm | | | | | | | | | | | | 2,423 | 2,423 |
| 9-10pm | | | | | | | | | | | | 2,330 | 2,330 |
| 10-11pm | | | | | | | | | | | | 2,188 | 2,188 |
| 11-12pm | | | | | | | | | | | | 1,718 | 1,718 |
| Totals | | | | | | | | | | | | 60,549 | 60,549 |
| 7-10am | | | | | | | 6,401 | 111 | 833 | 1,295 | 1,144 | 9,784 | 9,784 |
| 10am-1pm | | | | | | | 6,273 | 146 | 553 | 617 | 430 | 8,019 | 8,019 |
| 1-4pm | | | | | | | 7,479 | 301 | 575 | 527 | 682 | 9,564 | 9,564 |
| 4-7pm | | | | | | | 8,872 | 185 | 401 | 333 | 348 | 10,139 | 10,139 |
| 7am-7pm | | | | | | | 29,025 | 743 | 2,362 | 2,772 | 2,604 | 37,506 | 37,506 |

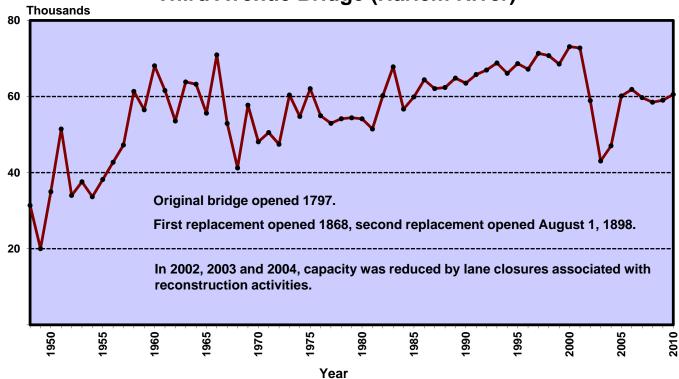
Based on 1989 Classification Survey Data

^{**} Peak Volumes

Hourly Vehicular Volumes Third Avenue Bridge (Harlem River) ~ 2010



Average Daily Traffic Volumes Third Avenue Bridge (Harlem River)

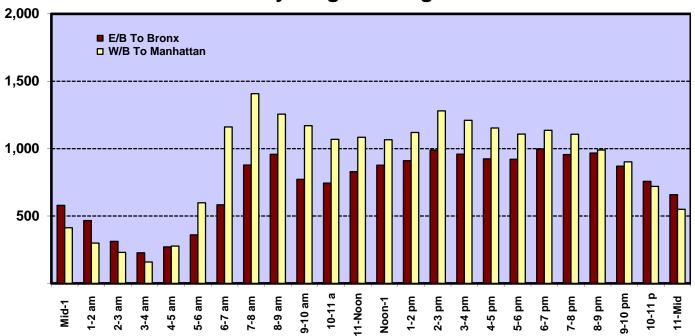


Hourly Vehicular Volumes University Heights Bridge - 2010

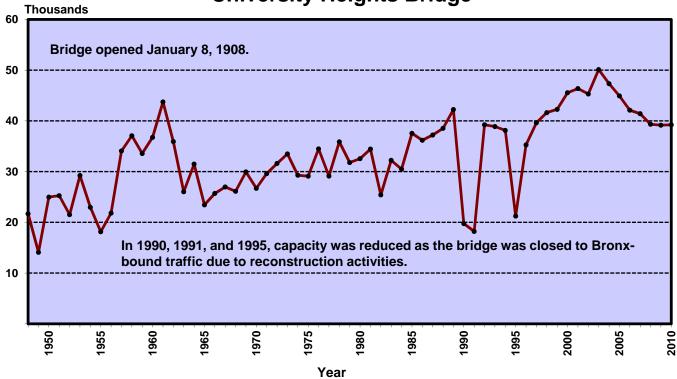
| _ | | Ea | stbound | d to Bron | X | | | W | estboun | d to Man | hattan | | |
|----------|-------|-------|---------|-----------|--------|--------|--------|-------|---------|----------|---------|----------|----------|
| _ | | (| Commut | er Co | mmerci | al | | (| Commute | er Co | ommerci | al | 2-Way |
| | Autos | Buses | Vans | Trucks | Vans | Totals | Autos | Buses | Vans | Trucks | Vans | Totals | Totals |
| 12-1am | | | | | | 579 | | | | | | 413 | 992 |
| 1-2am | | | | | | 466 | | | | | | 299 | 765 |
| 2-3am | | | | | | 312 | | | | | | 230 | 542 |
| 3-4am | | | | | | 227 | | | | | | 159 | 386 |
| 4-5am | | | | | | 271 | | | | | | 277 | 548 |
| 5-6am | | | | | | 360 | | | | | | 598 | 958 |
| 6-7am | | | | | | 583 | | | | | | 1,161 | 1,744 |
| 7-8am | 663 | 46 | 85 | 41 | 43 | 878 | 1,222 | 20 | 31 | 35 | 100 | 1,408 ** | 2,286 ** |
| 8-9am | 743 | 8 | 79 | 56 | 72 | 958 | 1,089 | 11 | 23 | 44 | 89 | 1,256 | 2,214 |
| 9-10am | 574 | 8 | 57 | 66 | 67 | 772 | 990 | 13 | 16 | 51 | 100 | 1,170 | 1,942 |
| 10-11am | 649 | 3 | 34 | 32 | 26 | 744 | 976 | 4 | 4 | 27 | 58 | 1,069 | 1,813 |
| 11-12am | 638 | 8 | 66 | 78 | 39 | 829 | 923 | 7 | 13 | 58 | 83 | 1,084 | 1,913 |
| 12-1pm | 791 | 13 | 24 | 27 | 22 | 877 | 985 | 2 | 5 | 27 | 47 | 1,066 | 1,943 |
| 1-2pm | 780 | 39 | 38 | 30 | 23 | 910 | 1,058 | 4 | 4 | 19 | 35 | 1,120 | 2,030 |
| 2-3pm | 809 | 13 | 69 | 50 | 48 | 989 | 1,095 | 11 | 21 | 49 | 104 | 1,280 | 2,269 |
| 3-4pm | 873 | 15 | 20 | 26 | 25 | 959 | 1,095 | 38 | 5 | 24 | 48 | 1,210 | 2,169 |
| 4-5pm | 805 | 4 | 50 | 37 | 28 | 924 | 1,026 | 16 | 14 | 21 | 76 | 1,153 | 2,077 |
| 5-6pm | 809 | 0 | 51 | 24 | 37 | 921 | 1,037 | 1 | 13 | 11 | 46 | 1,108 | 2,029 |
| 6-7pm | 870 | 0 | 54 | 18 | 55 | 997 ** | 1,063 | 6 | 9 | 8 | 50 | 1,136 | 2,133 |
| 7-8pm | | | | | | 956 | | | | | | 1,107 | 2,063 |
| 8-9pm | | | | | | 967 | | | | | | 990 | 1,957 |
| 9-10pm | | | | | | 870 | | | | | | 902 | 1,772 |
| 10-11pm | | | | | | 757 | | | | | | 720 | 1,477 |
| 11-12pm | | | | | | 658 | | | | | | 550 | 1,208 |
| Totals | | | | | | 17,764 | | | | | | 21,466 | 39,230 |
| 7-10am | 1,980 | 62 | 221 | 163 | 182 | 2,608 | 3,301 | 44 | 70 | 130 | 289 | 3,834 | 6,442 |
| 10am-1pm | 2,078 | 24 | 124 | 137 | 87 | 2,450 | 2,884 | 13 | 22 | 112 | 188 | 3,219 | 5,669 |
| 1-4pm | 2,462 | 67 | 127 | 106 | 96 | 2,858 | 3,248 | 53 | 30 | 92 | 187 | 3,610 | 6,468 |
| 4-7pm | 2,484 | 4 | 155 | 79 | 120 | 2,842 | 3,126 | 23 | 36 | 40 | 172 | 3,397 | 6,239 |
| 7am-7pm | 9,004 | 157 | 627 | 485 | 485 | 10,758 | 12,559 | 133 | 158 | 374 | 836 | 14,060 | 24,818 |

Based on 1989 Classification Survey Data

Hourly Vehicular Volumes University Heights Bridge ~ 2010



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



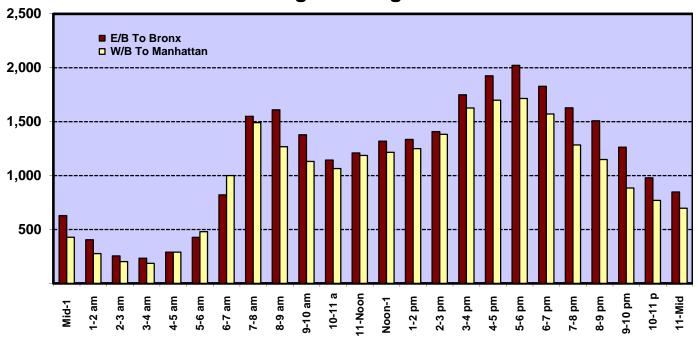
Hourly Vehicular Volumes Washington Bridge - 2010

| _ | | Ea | stboun | d to Bro | nx | | | | W | estboun | d to Man | hattan | | |
|----------|--------|-------|--------|----------|---------|--------|----|--------|-------|---------|----------|---------|----------|----------|
| _ | | (| Commut | er C | ommerci | al | | | (| Commute | er Co | ommerci | al | 2-Way |
| | Autos | Buses | Vans | Trucks | Vans | Totals | | Autos | Buses | Vans | Trucks | Vans | Totals | Totals |
| 12-1am | | | | | | 629 | | | | | | | 428 | 1,057 |
| 1-2am | | | | | | 405 | | | | | | | 276 | 681 |
| 2-3am | | | | | | 255 | | | | | | | 202 | 457 |
| 3-4am | | | | | | 233 | | | | | | | 186 | 419 |
| 4-5am | | | | | | 290 | | | | | | | 290 | 580 |
| 5-6am | | | | | | 427 | | | | | | | 480 | 907 |
| 6-7am | | | | | | 821 | | | | | | | 1,000 | 1,821 |
| 7-8am | 1,327 | 51 | 28 | 46 | 98 | 1,550 | | 1,259 | 59 | 112 | 36 | 25 | 1,491 | 3,041 |
| 8-9am | 1,349 | 41 | 24 | 72 | 124 | 1,610 | | 1,069 | 59 | 65 | 49 | 26 | 1,268 | 2,878 |
| 9-10am | 1,141 | 37 | 24 | 90 | 86 | 1,378 | | 983 | 34 | 50 | 38 | 26 | 1,131 | 2,509 |
| 10-11am | 1,039 | 31 | 7 | 29 | 38 | 1,144 | | 972 | 35 | 10 | 26 | 22 | 1,065 | 2,209 |
| 11-12am | 1,046 | 25 | 15 | 58 | 66 | 1,210 | | 1,035 | 49 | 31 | 33 | 39 | 1,187 | 2,397 |
| 12-1pm | 1,181 | 39 | 18 | 24 | 57 | 1,319 | | 1,139 | 30 | 10 | 21 | 16 | 1,216 | 2,535 |
| 1-2pm | 1,222 | 30 | 5 | 31 | 47 | 1,335 | | 1,170 | 30 | 17 | 19 | 14 | 1,250 | 2,585 |
| 2-3pm | 1,225 | 30 | 22 | 60 | 71 | 1,408 | | 1,194 | 56 | 42 | 51 | 40 | 1,383 | 2,791 |
| 3-4pm | 1,590 | 37 | 11 | 31 | 80 | 1,749 | | 1,467 | 46 | 46 | 46 | 22 | 1,627 | 3,376 |
| 4-5pm | 1,602 | 38 | 48 | 59 | 178 | 1,925 | | 1,447 | 41 | 73 | 89 | 49 | 1,699 | 3,624 |
| 5-6pm | 1,808 | 33 | 50 | 36 | 95 | 2,022 | ** | 1,556 | 31 | 47 | 36 | 45 | 1,715 ** | 3,737 ** |
| 6-7pm | 1,679 | 22 | 30 | 23 | 74 | 1,828 | | 1,423 | 39 | 57 | 20 | 32 | 1,571 | 3,399 |
| 7-8pm | | | | | | 1,628 | | | | | | | 1,284 | 2,912 |
| 8-9pm | | | | | | 1,508 | | | | | | | 1,149 | 2,657 |
| 9-10pm | | | | | | 1,263 | | | | | | | 885 | 2,148 |
| 10-11pm | | | | | | 979 | | | | | | | 770 | 1,749 |
| 11-12pm | | | | | | 848 | | | | | | | 697 | 1,545 |
| Totals | | | | | | 27,764 | | | | | | | 24,250 | 52,014 |
| 7-10am | 3,817 | 129 | 76 | 208 | 308 | 4,538 | | 3,311 | 152 | 227 | 123 | 77 | 3,890 | 8,428 |
| 10am-1pm | 3,266 | 95 | 40 | 111 | 161 | 3,673 | | 3,146 | 114 | 51 | 80 | 77 | 3,468 | 7,141 |
| 1-4pm | 4,037 | 97 | 38 | 122 | 198 | 4,492 | | 3,831 | 132 | 105 | 116 | 76 | 4,260 | 8,752 |
| 4-7pm | 5,089 | 93 | 128 | 118 | 347 | 5,775 | | 4,426 | 111 | 177 | 145 | 126 | 4,985 | 10,760 |
| 7am-7pm | 16,209 | 414 | 282 | 559 | 1,014 | 18,478 | | 14,714 | 509 | 560 | 464 | 356 | 16,603 | 35,081 |

Based on 1989 Classification Survey Data

^{**} Peak Volumes

Hourly Vehicular Volumes Washington Bridge ~ 2010



Average Daily Traffic Volumes ~ Total of Both Directions Washington Bridge

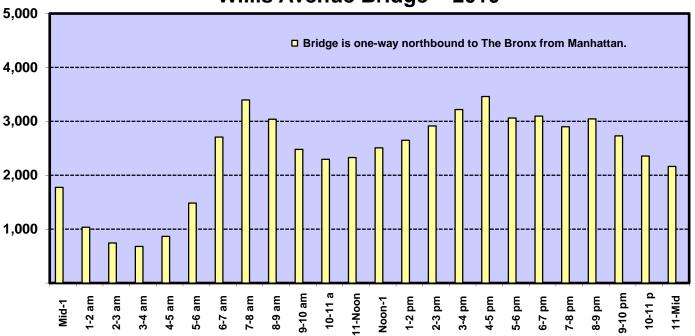


Hourly Vehicular Volumes Willis Avenue Bridge - 2010

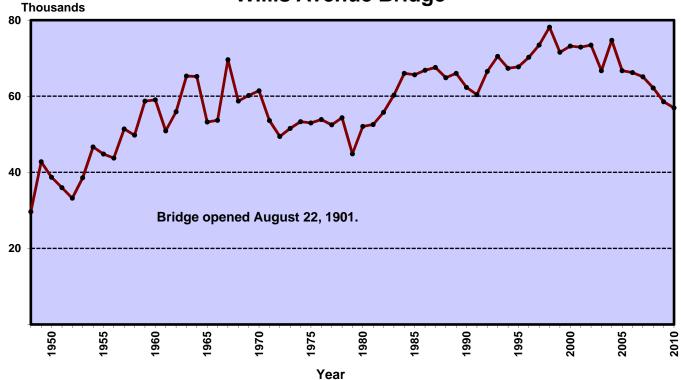
| _ | | Noi | rthboun | d to Bro | nx | | Southbound to Manhattan | |
|----------|--------|-------|---------|----------|---------|----------|-------------------------------------|----------|
| _ | | (| Commut | er C | ommerci | al | Commuter Commercial | 2-Way |
| | Autos | Buses | | Trucks | Vans | Totals | Autos Buses Vans Trucks Vans Totals | Totals |
| 12-1am | | | | | | 1,775 | | 1,775 |
| 1-2am | | | | | | 1,036 | | 1,036 |
| 2-3am | | | | | | 743 | | 743 |
| 3-4am | | | | | | 680 | | 680 |
| 4-5am | | | | | | 866 | Bridge is 1-way northbound | 866 |
| 5-6am | | | | | | 1,484 | to The Bronx | 1,484 |
| 6-7am | | | | | | 2,708 | | 2,708 |
| 7-8am | 2,892 | 86 | 135 | 167 | 117 | 3,397 | | 3,397 |
| 8-9am | 2,452 | 104 | 91 | 177 | 215 | 3,039 | | 3,039 |
| 9-10am | 1,852 | 109 | 91 | 222 | 205 | 2,479 | | 2,479 |
| 10-11am | 1,913 | 44 | 61 | 143 | 135 | 2,296 | | 2,296 |
| 11-12am | 1,722 | 30 | 101 | 247 | 228 | 2,328 | | 2,328 |
| 12-1pm | 2,197 | 37 | 46 | 135 | 92 | 2,507 | | 2,507 |
| 1-2pm | 2,366 | 22 | 36 | 99 | 125 | 2,648 | | 2,648 |
| 2-3pm | 2,158 | 26 | 106 | 311 | 314 | 2,915 | | 2,915 |
| 3-4pm | 2,848 | 52 | 49 | 137 | 133 | 3,219 | | 3,219 |
| 4-5pm | 2,724 | 32 | 105 | 233 | 367 | 3,461 ** | • | 3,461 ** |
| 5-6pm | 2,489 | 44 | 83 | 139 | 306 | 3,061 | | 3,061 |
| 6-7pm | 2,710 | 26 | 83 | 95 | 183 | 3,097 | | 3,097 |
| 7-8pm | | | | | | 2,900 | | 2,900 |
| 8-9pm | | | | | | 3,045 | | 3,045 |
| 9-10pm | | | | | | 2,730 | | 2,730 |
| 10-11pm | | | | | | 2,357 | | 2,357 |
| 11-12pm | | | | | | 2,163 | | 2,163 |
| Totals | | | | | | 56,934 | | 56,934 |
| 7-10am | 7,196 | 299 | 317 | 566 | 537 | 8,915 | | 8,915 |
| 10am-1pm | 5,832 | 111 | 208 | 525 | 455 | 7,131 | | 7,131 |
| 1-4pm | 7,372 | 100 | 191 | 547 | 572 | 8,782 | | 8,782 |
| 4-7pm | 7,923 | 102 | 271 | 467 | 856 | 9,619 | | 9,619 |
| 7am-7pm | 28,323 | 612 | 987 | 2,105 | 2,420 | 34,447 | | 34,447 |

Based on 1989 Classification Survey Data

Hourly Vehicular Volumes Willis Avenue Bridge ~ 2010





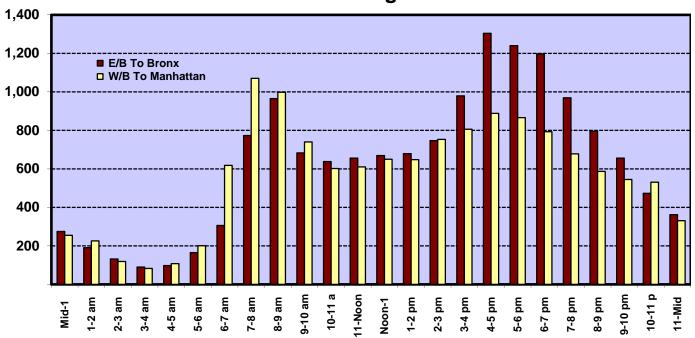


Hourly Vehicular Volumes 145th Street Bridge - 2010

| _ | Eastbound to Bronx | | | | | | Westbound to Manhattan | | | | | | |
|----------|--------------------|-------|---------|--------|------------|----------|------------------------|-------------------|------|--------|------|----------|----------|
| _ | | (| Commute | er Co | Commercial | | | Commuter Commerci | | | ial | 2-Way | |
| | Autos | Buses | Vans | Trucks | Vans | Totals | Autos | Buses | Vans | Trucks | Vans | Totals | Totals |
| 12-1am | | | | | | 275 | | | | | | 255 | 530 |
| 1-2am | | | | | | 191 | | | | | | 226 | 417 |
| 2-3am | | | | | | 132 | | | | | | 119 | 251 |
| 3-4am | | | | | | 90 | | | | | | 83 | 173 |
| 4-5am | | | | | | 98 | | | | | | 108 | 206 |
| 5-6am | | | | | | 165 | | | | | | 201 | 366 |
| 6-7am | | | | | | 306 | | | | | | 618 | 924 |
| 7-8am | 648 | 31 | 42 | 42 | 10 | 773 | 931 | 43 | 19 | 40 | 37 | 1,070 ** | 1,843 |
| 8-9am | 805 | 29 | 49 | 52 | 30 | 965 | 856 | 29 | 33 | 28 | 52 | 998 | 1,963 |
| 9-10am | 551 | 12 | 37 | 59 | 24 | 683 | 593 | 20 | 36 | 28 | 63 | 740 | 1,423 |
| 10-11am | 561 | 9 | 15 | 26 | 27 | 638 | 480 | 16 | 33 | 25 | 48 | 602 | 1,240 |
| 11-12am | 499 | 16 | 30 | 68 | 43 | 656 | 452 | 11 | 46 | 47 | 54 | 610 | 1,266 |
| 12-1pm | 580 | 13 | 17 | 42 | 17 | 669 | 604 | 11 | 11 | 9 | 15 | 650 | 1,319 |
| 1-2pm | 586 | 12 | 33 | 31 | 17 | 679 | 585 | 29 | 11 | 15 | 8 | 648 | 1,327 |
| 2-3pm | 562 | 17 | 31 | 96 | 41 | 747 | 630 | 24 | 29 | 28 | 42 | 753 | 1,500 |
| 3-4pm | 862 | 22 | 23 | 42 | 30 | 979 | 751 | 29 | 8 | 7 | 11 | 806 | 1,785 |
| 4-5pm | 1,038 | 17 | 68 | 116 | 65 | 1,304 ** | 823 | 18 | 15 | 9 | 23 | 888 | 2,192 ** |
| 5-6pm | 1,010 | 12 | 58 | 84 | 76 | 1,240 | 812 | 18 | 14 | 9 | 13 | 866 | 2,106 |
| 6-7pm | 1,042 | 33 | 36 | 28 | 58 | 1,197 | 748 | 24 | 6 | 4 | 11 | 793 | 1,990 |
| 7-8pm | | | | | | 969 | | | | | | 678 | 1,647 |
| 8-9pm | | | | | | 796 | | | | | | 587 | 1,383 |
| 9-10pm | | | | | | 656 | | | | | | 545 | 1,201 |
| 10-11pm | | | | | | 473 | | | | | | 531 | 1,004 |
| 11-12pm | | | | | | 362 | | | | | | 331 | 693 |
| Totals | | | | | | 15,043 | | | | | | 13,706 | 28,749 |
| 7-10am | 2,004 | 72 | 128 | 153 | 64 | 2,421 | 2,380 | 92 | 88 | 96 | 152 | 2,808 | 5,229 |
| 10am-1pm | 1,640 | 38 | 62 | 136 | 87 | 1,963 | 1,536 | 38 | 90 | 81 | 117 | 1,862 | 3,825 |
| 1-4pm | 2,010 | 51 | 87 | 169 | 88 | 2,405 | 1,966 | 82 | 48 | 50 | 61 | 2,207 | 4,612 |
| 4-7pm | 3,090 | 62 | 162 | 228 | 199 | 3,741 | 2,383 | 60 | 35 | 22 | 47 | 2,547 | 6,288 |
| 7am-7pm | 8,744 | 223 | 439 | 686 | 438 | 10,530 | 8,265 | 272 | 261 | 249 | 377 | 9,424 | 19,954 |

Based on 1989 Classification Survey Data

Hourly Vehicular Volumes 145th Street Bridge ~ 2010



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

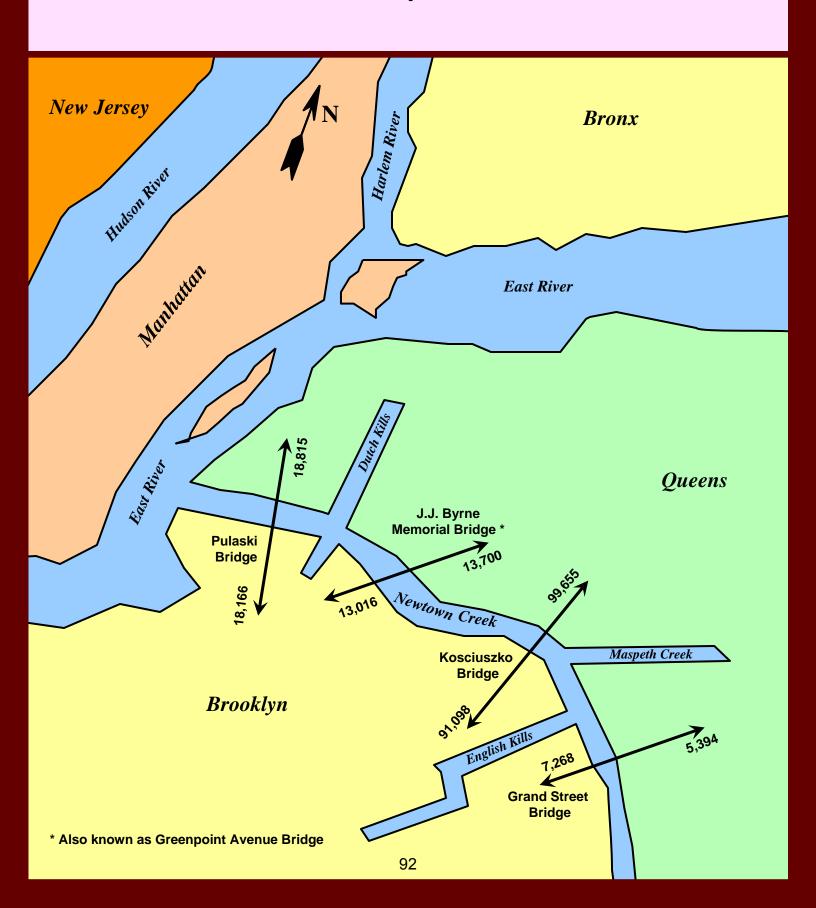


Brooklyn-Queens Bridges



Brooklyn-Queens Bridges

2010 Daily Volumes



Brooklyn - Queens Bridges ~ Average Daily Traffic Volumes 1948 - 2010

| | Grand Street | J.J. Byrne Memorial | Kosciuszko | Pulaski | |
|--------------|------------------|------------------------|--------------------|------------------|--------------------|
| Year | Bridge | Bridge * | Bridge | Bridge | Totals |
| 1948 | 5,447 | 15,314 | 32,761 | 23,362 | 76,884 |
| 1949 | 6,007 | 14,499 | 30,827 | 14,445 | 65,778 |
| 1950 1951 | 6,455 6,295 | 17,822 | 40,782 44,886 | 13,939 22,705 | 78,998 95,480 |
| 1952 | 7,053 | 21,594 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 1957 | 7,043 6,408 | 22,393 23,801 | 66,932 78,216 | 24,513 29,185 | 120,881 137,610 |
| 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 1962 | 10,843 11,520 | 18,028 17,450 | 93,055 103,530 | 23,935 28,040 | 145,861 |
| 1963 | 12,020 | 17,430 | 102,190 | 28,560 | 160,540 160,400 |
| 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 1968 | 13,437 18,703 | 23,827 | 132,586 | 27,845 | 197,695 147,024 |
| 1969 | 14.148 | 20,890 24.549 | 71,500 126,858 | 35,931 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 1974 | 11,723 8,889 | 26,798 21,195 | 99,044 120,949 | 30,472 29,738 | 168,037 180,771 |
| 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 1980 | 8,912 10,062 | 17,914 18,681 | 141,154 142,513 | 33,334 24,763 | 201,314 196,019 |
| 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 1985 | 11,378 13,791 | 18,668 Closed | 164,865 168,680 | 29,298 42,579 | 224,209 225,050 |
| 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 1991 | 13,880 13,940 | 20,295 24,375 | 176,940 166,340 | 32,293 31,817 | 243,408 236,472 |
| 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 1997 | 12,382 12,875 | 26,528 24,937 | 170,504 189,210 | 30,338 31,563 | 239,752 258,585 |
| 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 2003 | 13,088 14,139 | 26,306 28,755 | 184,379 194,497 | 38,348 38,346 | 262,121 275,737 |
| 2003 | 13,459 | 28,437 | 193,612 | 40,146 | 275,654 |
| 2004 | 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 |

^{*} J.J. Byrne Memorial Bridge also known as Greenpoint Avenue Bridge.

Hourly Vehicular Volumes Grand Street Bridge - 2010

Eastbound to Queens Westbound to Brooklyn 2-Way Commercial Commercial Commuter Commuter **Buses** Vans Trucks **Totals Buses** Vans Trucks **Totals** Autos Vans Autos Vans **Totals** 12-1am 1-2am ---2-3am 3-4am 4-5am 5-6am ---------6-7am ---7-8am 8-9am 9-10am 10-11am 11-12am 12-1pm 1-2pm 2-3pm 3-4pm 4-5pm 5-6pm 6-7pm 7-8pm 8-9pm 9-10pm ---10-11pm 11-12pm **Totals** 5,394 7,268 12,662 7-10am 1.037 1.751 2.487 1,355 2,268 10am-1pm

Based on 1989 Classification Survey Data

1.119

1,298

4,066

1,041

3,045

1-4pm

4-7pm

7am-7pm

2,445

2,422

9,622

3,781

1,107

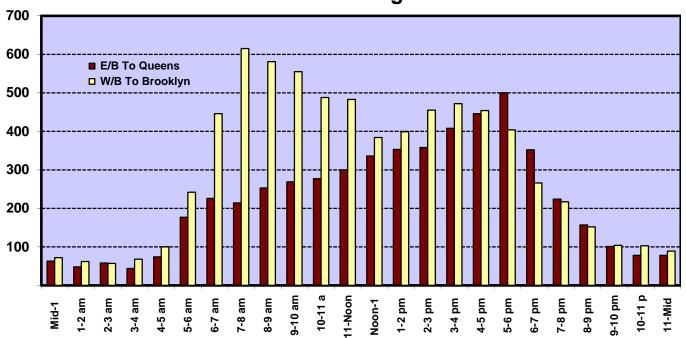
1,326

1,124

5,556

^{**} Peak Volumes

Hourly Vehicular Volumes Grand Street Bridge ~ 2010







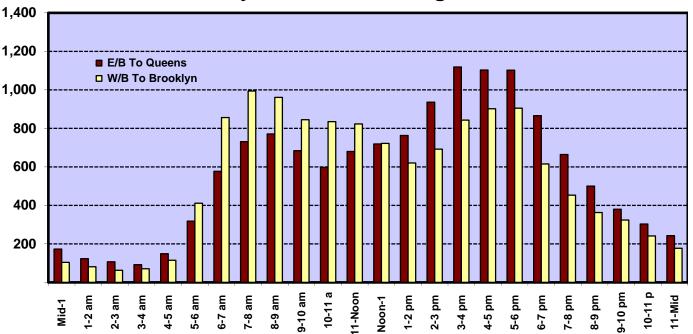
Hourly Vehicular Volumes J.J. Byrne Memorial Bridge - 2010 (Greenpoint Avenue Bridge)

Eastbound to Queens Westbound to Brooklyn

| _ | | | to ourra | to queer | | | | | ootooui | ia to bio | J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | | |
|----------|---------------------|-------|----------|----------|------|----------|---|-------|---------|-----------|---|--------|--------|
| _ | Commuter Commercial | | | | | | Commuter Commercial Autos Buses Vans Trucks Vans Totals | | | | | 2-Way | |
| | Autos | Buses | Vans | Trucks | Vans | Totals | Autos | Buses | Vans | Trucks | Vans | Totals | Totals |
| 12-1am | | | | | | 173 | | | | | | 104 | 277 |
| 1-2am | | | | | | 123 | | | | | | 81 | 204 |
| 2-3am | | | | | | 107 | | | | | | 63 | 170 |
| 3-4am | | | | | | 92 | | | | | | 71 | 163 |
| 4-5am | | | | | | 149 | | | | | | 115 | 264 |
| 5-6am | | | | | | 318 | | | | | | 411 | 729 |
| 6-7am | | | | | | 577 | | | | | | 856 | 1,433 |
| 7-8am | 546 | 11 | 18 | 117 | 39 | 731 | 655 | 10 | 51 | 199 | 79 | 994 ** | 1,725 |
| 8-9am | 500 | 14 | 23 | 190 | 44 | 771 | 651 | 11 | 32 | 185 | 82 | 961 | 1,732 |
| 9-10am | 386 | 6 | 26 | 199 | 67 | 684 | 421 | 13 | 51 | 252 | 108 | 845 | 1,529 |
| 10-11am | 485 | 3 | 6 | 71 | 32 | 597 | 578 | 5 | 29 | 166 | 57 | 835 | 1,432 |
| 11-12am | 410 | 11 | 17 | 171 | 71 | 680 | 374 | 7 | 22 | 271 | 149 | 823 | 1,503 |
| 12-1pm | 592 | 3 | 12 | 84 | 28 | 719 | 503 | 6 | 28 | 122 | 63 | 722 | 1,441 |
| 1-2pm | 627 | 11 | 15 | 88 | 22 | 763 | 428 | 14 | 33 | 107 | 38 | 620 | 1,383 |
| 2-3pm | 616 | 7 | 27 | 193 | 93 | 936 | 160 | 10 | 85 | 317 | 120 | 692 | 1,628 |
| 3-4pm | 968 | 9 | 11 | 93 | 38 | 1,119 ** | 686 | 7 | 23 | 98 | 29 | 843 | 1,962 |
| 4-5pm | 830 | 13 | 36 | 139 | 85 | 1,103 | 707 | 9 | 32 | 106 | 48 | 902 | 2,005 |
| 5-6pm | 852 | 9 | 34 | 132 | 75 | 1,102 | 704 | 9 | 53 | 78 | 61 | 905 | 2,007 |
| 6-7pm | 684 | 15 | 19 | 87 | 61 | 866 | 484 | 14 | 21 | 59 | 37 | 615 | 1,481 |
| 7-8pm | | | | | | 664 | | | | | | 453 | 1,117 |
| 8-9pm | | | | | | 500 | | | | | | 363 | 863 |
| 9-10pm | | | | | | 380 | | | | | | 324 | 704 |
| 10-11pm | | | | | | 303 | | | | | | 241 | 544 |
| 11-12pm | | | | | | 243 | | | | | | 177 | 420 |
| Totals | | | | | | 13,700 | | | | | | 13,016 | 26,716 |
| 7-10am | 1,432 | 31 | 67 | 506 | 150 | 2,186 | 1,727 | 34 | 134 | 636 | 269 | 2,800 | 4,986 |
| 10am-1pm | 1,487 | 17 | 35 | 326 | 131 | 1,996 | 1,455 | 18 | 79 | 559 | 269 | 2,380 | 4,376 |
| 1-4pm | 2,211 | 27 | 53 | 374 | 153 | 2,818 | 1,274 | 31 | 141 | 522 | 187 | 2,155 | 4,973 |
| 4-7pm | 2,366 | 37 | 89 | 358 | 221 | 3,071 | 1,895 | 32 | 106 | 243 | 146 | 2,422 | 5,493 |
| 7am-7pm | 7,496 | 112 | 244 | 1,564 | 655 | 10,071 | 6,351 | 115 | 460 | 1,960 | 871 | 9,757 | 19,828 |

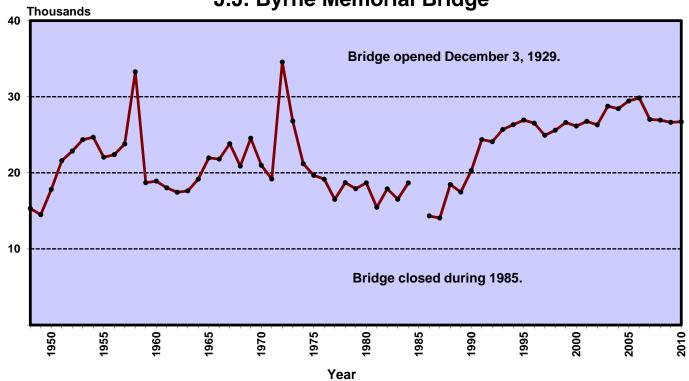
^{**} Peak Volumes

Hourly Vehicular Volumes J.J. Byrne Memorial Bridge ~ 2010



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





Hourly Vehicular Volumes Kosciuszko Bridge - 2010

Eastbound to Queens Westbound to Brooklyn 2-Way Commuter Commercial Commuter Commercial **Buses** Vans Trucks **Totals Buses** Vans Trucks Autos Vans Autos Vans **Totals Totals** 12-1am 2,806 2,047 4,853 1,325 1-2am 1.861 3.186 ------2-3am 1,405 1,033 2,438 ---1,080 3-4am 1,340 2,420 4-5am 1.915 1.916 3.831 3,380 5-6am 4.114 7.494 ------------------------6-7am 5,021 5.144 10,165 ---7-8am 4,466 59 121 468 5,417 4,170 12 56 330 312 4.880 10,297 303 8-9am 4,285 19 136 475 316 5,231 3,991 13 34 377 330 4,745 9,976 59 9-10am 3,855 38 111 422 325 4,751 3,745 14 489 349 4,656 9,407 10-11am 3.878 22 108 258 203 4.469 4,294 7 36 253 166 4.756 9.225 3,544 12 429 3,740 7 4,703 9,474 11-12am 192 594 4,771 72 577 307 4,492 4,052 7 323 9,682 12-1pm 11 77 287 201 5,068 70 162 4,614 3,535 38 84 1-2pm 3.717 116 501 417 4.789 10 577 384 4.590 9.379 2-3pm 3,616 19 154 468 416 4,673 3,698 14 76 552 383 4,723 9,396 3-4pm 4.430 15 72 102 210 4.829 4.099 17 22 219 158 4,515 9.344 57 4-5pm 4,379 23 124 224 409 5,159 3,519 283 228 4.101 9,260 14 5,218 3,841 7 296 9,684 5-6pm 4,512 18 89 318 281 44 278 4,466 6-7pm 4.600 11 74 103 275 5.063 3.969 7 17 200 260 4.453 9.516 7-8pm 5,224 4,597 9.821 8-9pm 5,085 4,101 9,186 9-10pm 4,681 3.942 8,623 ---10-11pm 3,980 3,624 7,604 ---11-12pm 3,519 2,973 6,492 **Totals** 99,655 91,098 190,753 7-10am 12.606 116 1.365 944 15.399 11.906 39 149 991 14.281 29.680 368 1.196 10am-1pm 11,914 833 14,308 12,086 14,073 28,381 45 377 1,139 21 178 1,153 635 11,332 11.763 72 342 1,071 14.291 41 182 1,348 925 13,828 28,119 1-4pm 1,043

Based on 1989 Classification Survey Data

52

285

13,491

7am-7pm 49,774

4-7pm

287

1,374

645

4,220

965

3,785

15,440

59,438

28,460

114,640

11,329

46,653

28

129

118

627

779

4,476

766

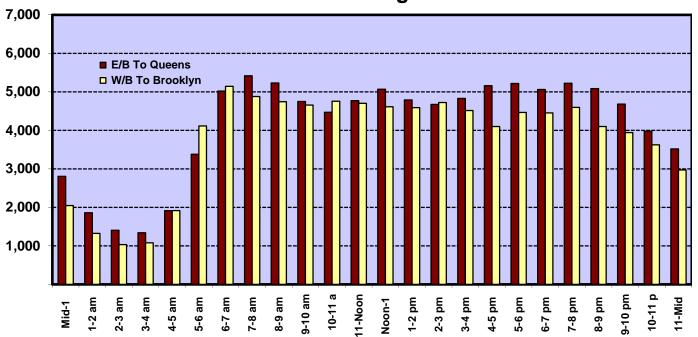
3,317

13,020

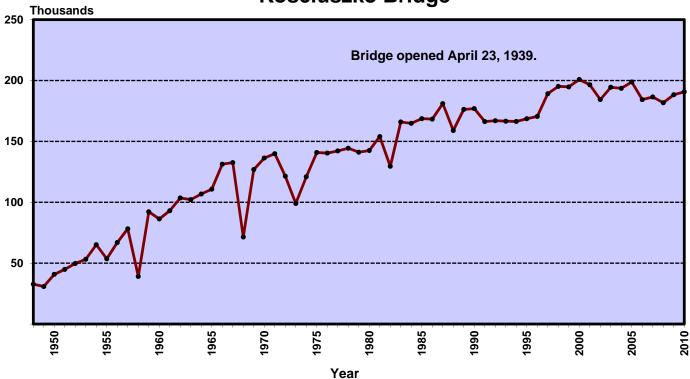
55,202

^{**} Peak Volumes

Hourly Vehicular Volumes Kosciuszko Bridge ~ 2010



Average Daily Traffic Volumes ~ Total of Both Directions Kosciuszko Bridge

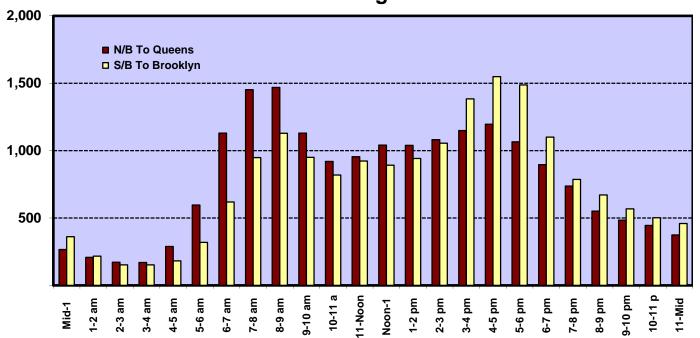


Hourly Vehicular Volumes Pulaski Bridge - 2010

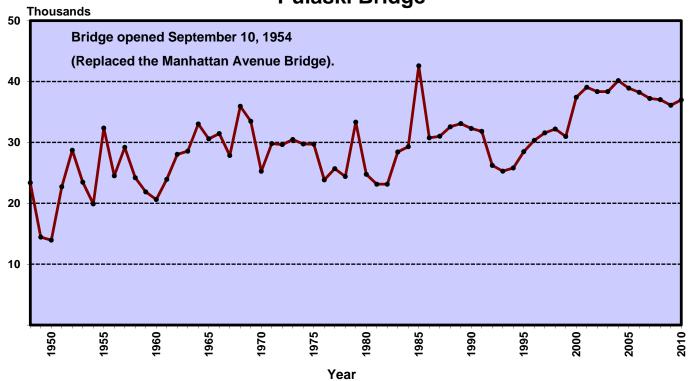
| _ | Northbound to Queens Commuter Commercial | | | | | | | So | outhbou | nd to Br | ooklyn | | |
|----------|--|-------|-----------------|----------------|-----------------|--------------|-------|-------|-----------------|----------------|-----------------|--------------|-----------------|
| _ | Autos | Buses | Commute Vans | er C Trucks | ommerci Vans | al Totals | Autos | Buses | Commute Vans | er C Trucks | ommerci Vans | al Totals | 2-Way Totals |
| 12-1am | | | | | | 266 | | | | | | 361 | 627 |
| 1-2am | | | | | | 208 | | | | | | 217 | 425 |
| 2-3am | | | | | | 172 | | | | | | 152 | 324 |
| 3-4am | | | | | | 170 | | | | | | 152 | 322 |
| 4-5am | | | | | | 289 | | | | | | 182 | 471 |
| 5-6am | | | | | | 596 | | | | | | 319 | 915 |
| 6-7am | | | | | | 1,130 | | | | | | 619 | 1,749 |
| 7-8am | 1,074 | 23 | 50 | 164 | 141 | 1,452 | 629 | 13 | 25 | 175 | 106 | 948 | 2,400 |
| 8-9am | 1,063 | 18 | 42 | 197 | 149 | 1,469 ** | 718 | 13 | 36 | 202 | 160 | 1,129 | 2,598 |
| 9-10am | 716 | 17 | 45 | 207 | 145 | 1,130 | 577 | 16 | 26 | 187 | 144 | 950 | 2,080 |
| 10-11am | 704 | 12 | 23 | 105 | 76 | 920 | 649 | 10 | 17 | 84 | 59 | 819 | 1,739 |
| 11-12am | 534 | 11 | 43 | 216 | 151 | 955 | 527 | 14 | 37 | 209 | 136 | 923 | 1,878 |
| 12-1pm | 811 | 10 | 20 | 114 | 86 | 1,041 | 717 | 11 | 15 | 92 | 57 | 892 | 1,933 |
| 1-2pm | 780 | 21 | 27 | 123 | 88 | 1,039 | 745 | 19 | 28 | 97 | 53 | 942 | 1,981 |
| 2-3pm | 659 | 17 | 38 | 210 | 157 | 1,081 | 626 | 14 | 35 | 277 | 103 | 1,055 | 2,136 |
| 3-4pm | 934 | 21 | 16 | 101 | 77 | 1,149 | 1,145 | 20 | 26 | 111 | 82 | 1,384 | 2,533 |
| 4-5pm | 900 | 10 | 38 | 115 | 133 | 1,196 | 1,186 | 12 | 48 | 165 | 138 | 1,549 ** | 2,745 ** |
| 5-6pm | 875 | 8 | 40 | 39 | 103 | 1,065 | 1,223 | 10 | 33 | 108 | 113 | 1,487 | 2,552 |
| 6-7pm | 709 | 12 | 33 | 58 | 84 | 896 | 926 | 10 | 23 | 66 | 75 | 1,100 | 1,996 |
| 7-8pm | | | | | | 737 | | | | | | 786 | 1,523 |
| 8-9pm | | | | | | 551 | | | | | | 671 | 1,222 |
| 9-10pm | | | | | | 484 | | | | | | 568 | 1,052 |
| 10-11pm | | | | | | 445 | | | | | | 502 | 947 |
| 11-12pm | | | | | | 374 | | | | | | 459 | 833 |
| Totals | | | | | | 18,815 | | | | | | 18,166 | 36,981 |
| 7-10am | 2,853 | 58 | 137 | 568 | 435 | 4,051 | 1,924 | 42 | 87 | 564 | 410 | 3,027 | 7,078 |
| 10am-1pm | 2,049 | 33 | 86 | 435 | 313 | 2,916 | 1,893 | 35 | 69 | 385 | 252 | 2,634 | 5,550 |
| 1-4pm | 2,373 | 59 | 81 | 434 | 322 | 3,269 | 2,516 | 53 | 89 | 485 | 238 | 3,381 | 6,650 |
| 4-7pm | 2,484 | 30 | 111 | 212 | 320 | 3,157 | 3,335 | 32 | 104 | 339 | 326 | 4,136 | 7,293 |
| 7am-7pm | 9,759 | 180 | 415 | 1,649 | 1,390 | 13,393 | 9,668 | 162 | 349 | 1,773 | 1,226 | 13,178 | 26,571 |

^{**} Peak Volumes

Hourly Vehicular Volumes Pulaski Bridge ~ 2010



Average Daily Traffic Volumes ~ Total of Both Directions Pulaski Bridge

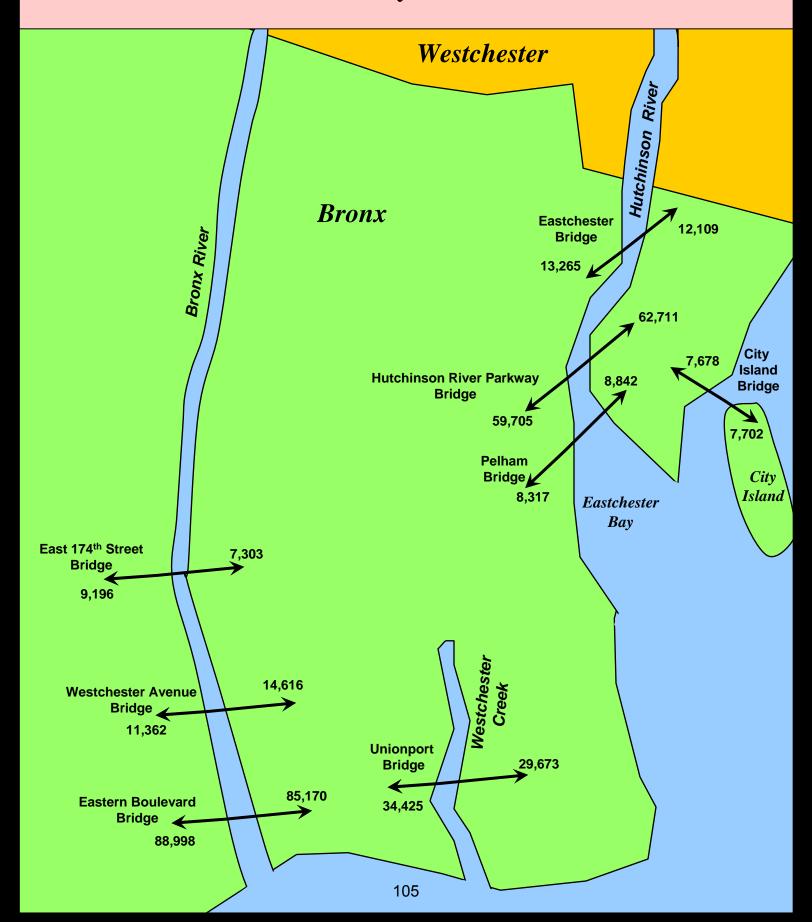


Bronx Bridges



Bronx Bridges

2010 Daily Volumes



Bronx Bridges Average Daily Traffic Volumes 1948 - 2010

| Year | City Island | East 174th Street | Eastchester | Eastern Boulevard | Hutchinson River Pky |
|--------------|------------------|----------------------|------------------|----------------------|-------------------------|
| 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 1955 | 3,969 3,855 | 11,299 11,533 | 15,079 14,087 | 78,010 60,892 | 24,706 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 1964 | 7,210 8,930 | 9,190 10,540 | 10,840 11,480 | 80,840 94,660 | 35,690 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 9,994 | 21,800 | 104,293 | 51,137 |
| 1974 1975 | 10,009 11,836 | 9,356 | 20,724 20,599 | 124,668 123,389 | 47,737 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 1983 | 10,447 11,056 | 6,641 10,252 | 18,848 | 125,945 | 69,091 50,615 |
| 1984 | 11,715 | 10,134 | 18,162 21,448 | 130,492 136,387 | 59,615 69,925 |
| 1985 | 10,180 | Closed | 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 1992 | 15,299 | 14,587 15,558 | 20,520 | 122,414 123,097 | 76,794 |
| 1993 | 13,960 13,938 | 13,734 | 20,783 20,825 | 128,713 | 76,641 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 16,637 | 12,093 12,786 | 22,810 | 169,437 | 108,191 |
| 2002 2003 | 16,637 | 12,786 14,229 | 22,255 | 178,983 170,735 | 110,141 117,195 |
| 2003 | 14,617 14,528 | 14,229 | 24,193 22,480 | 170,735 178,724 | 117,195 |
| 2004 | 14,528 | 13,632 | 22,480 | 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 |
| 2007 | 15,166 | 14,158 | 20,842 | 174,597 | 121,499 |
| 2009 | 14,313 | 14,130 | 20,329 | 174,397 | 119,285 |
| 2010 | 15,380 | 16,499 | 25,374 | 174,168 | 122,416 |
| 2010 | 10,000 | 10,700 | 20,017 | 174,100 | 122, 710 |

Bronx Bridges (cont'd) Average Daily Traffic Volumes 1948 - 2010

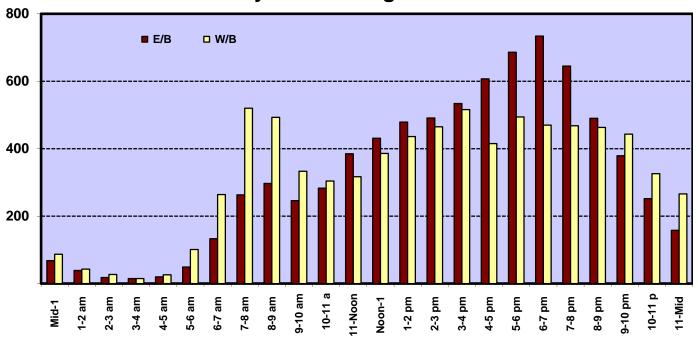
| | | | Westchester | |
|--------------|------------------|--------------------|------------------|--------------------|
| Year | Pelham | Unionport | Avenue | Totals |
| 1948 | 5,084 | 37,359 | 10,900 | 141,247 |
| 1949 | 5,252 | 30,278 | 13,763 | 135,682 |
| 1950 | 5,872 | 32,969 | 14,401 | 150,973 |
| 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 1955 | 5,998 4,122 | 28,890 45,292 | 15,106 13,131 | 183,057 180,249 |
| 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 | 104,820 113,680 | 11,350 | 263,020 291,240 |
| 1963 1964 | 9,780 11,010 | 134,200 | 24,010 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 1972 | 13,098 16,440 | 135,254 | 20,855 | 391,040 |
| 1972 | 10,440 | 70,659 30,459 | 22,291 29,185 | 345,542 272,116 |
| 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 13,210 | 28,702 34,492 | 22,228 21,298 | 284,383 |
| 1981 1982 | Closed | 37,935 | 22,693 | 287,933 291,600 |
| 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 1990 | 15,644 18,728 | 43,696 38,541 | 29,445 27,140 | 354,927 343,574 |
| 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 47,041 | 24,117 25,741 | 361,505 |
| 1997 1998 | 22,963 23,264 | 47,941 48,975 | 25,741 25,863 | 362,846 392,771 |
| 1996 | 23,264 21,430 | 50,563 | 25,663 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 |
| | | | | |

Hourly Vehicular Volumes City Island Bridge - 2010

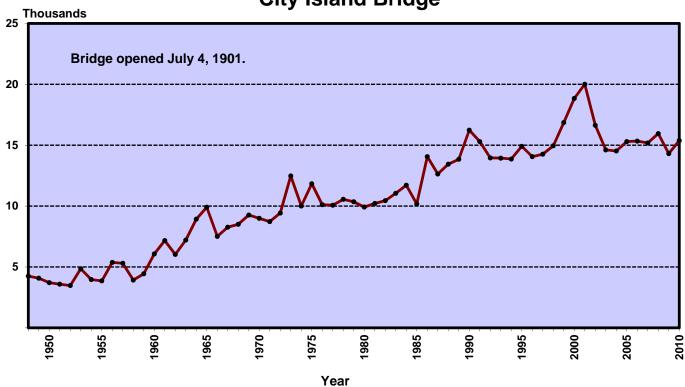
| | Eastbound | | | | | | | | Westb | ound | | | |
|----------|-----------|-------|----------------|-----------------|-------------------|--------|-------|-------|-----------------|-----------------|------------------|-------------|-----------------|
| _ | Autos | Buses | Commut Vans | er Co Trucks | ommercial Vans | Totals | Autos | Buses | Commute Vans | er Co Trucks | ommercia Vans | l Totals | 2-Way Totals |
| 12-1am | | | | | | 68 | | | | | | 87 | 155 |
| 1-2am | | | | | | 39 | | | | | | 43 | 82 |
| 2-3am | | | | | | 18 | | | | | | 27 | 45 |
| 3-4am | | | | | | 15 | | | | | | 15 | 30 |
| 4-5am | | | | | | 20 | | | | | | 26 | 46 |
| 5-6am | | | | | | 49 | | | | | | 101 | 150 |
| 6-7am | | | | | | 133 | | | | | | 264 | 397 |
| 7-8am | 219 | 9 | 12 | 5 | 18 | 263 | 469 | 10 | 0 | 20 | 21 | 520 ** | 783 |
| 8-9am | 232 | 13 | 11 | 7 | 34 | 297 | 429 | 15 | 0 | 15 | 34 | 493 | 790 |
| 9-10am | 206 | 4 | 4 | 7 | 25 | 246 | 302 | 4 | 0 | 9 | 18 | 333 | 579 |
| 10-11am | 265 | 0 | 4 | 6 | 8 | 283 | 291 | 3 | 1 | 7 | 2 | 304 | 587 |
| 11-12am | 330 | 5 | 10 | 6 | 34 | 385 | 307 | 5 | 0 | 2 | 3 | 317 | 702 |
| 12-1pm | 398 | 2 | 8 | 3 | 20 | 431 | 371 | 9 | 0 | 4 | 2 | 386 | 817 |
| 1-2pm | 447 | 3 | 1 | 6 | 22 | 479 | 409 | 2 | 0 | 6 | 19 | 436 | 915 |
| 2-3pm | 411 | 9 | 13 | 19 | 39 | 491 | 400 | 10 | 2 | 22 | 31 | 465 | 956 |
| 3-4pm | 499 | 10 | 6 | 7 | 12 | 534 | 486 | 15 | 0 | 5 | 10 | 516 | 1,050 |
| 4-5pm | 529 | 2 | 22 | 11 | 43 | 607 | 383 | 2 | 0 | 7 | 23 | 415 | 1,022 |
| 5-6pm | 635 | 7 | 13 | 8 | 23 | 686 | 460 | 5 | 0 | 10 | 19 | 494 | 1,180 |
| 6-7pm | 692 | 5 | 7 | 11 | 19 | 734 ** | 444 | 7 | 0 | 8 | 11 | 470 | 1,204 ** |
| 7-8pm | | | | | | 645 | | | | | | 468 | 1,113 |
| 8-9pm | | | | | | 490 | | | | | | 463 | 953 |
| 9-10pm | | | | | | 379 | | | | | | 443 | 822 |
| 10-11pm | | | | | | 252 | | | | | | 326 | 578 |
| 11-12pm | | | | | | 158 | | | | | | 266 | 424 |
| Totals | | | | | | 7,702 | | | | | | 7,678 | 15,380 |
| 7-10am | 657 | 26 | 27 | 19 | 77 | 806 | 1,200 | 29 | 0 | 44 | 73 | 1,346 | 2,152 |
| 10am-1pm | 993 | 7 | 22 | 15 | 62 | 1,099 | 969 | 17 | 1 | 13 | 7 | 1,007 | 2,106 |
| 1-4pm | 1,357 | 22 | 20 | 32 | 73 | 1,504 | 1,295 | 27 | 2 | 33 | 60 | 1,417 | 2,921 |
| 4-7pm | 1,856 | 14 | 42 | 30 | 85 | 2,027 | 1,287 | 14 | 0 | 25 | 53 | 1,379 | 3,406 |
| 7am-7pm | 4,863 | 69 | 111 | 96 | 297 | 5,436 | 4,751 | 87 | 3 | 115 | 193 | 5,149 | 10,585 |

^{**} Peak Volumes

Hourly Vehicular Volumes City Island Bridge ~ 2010



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

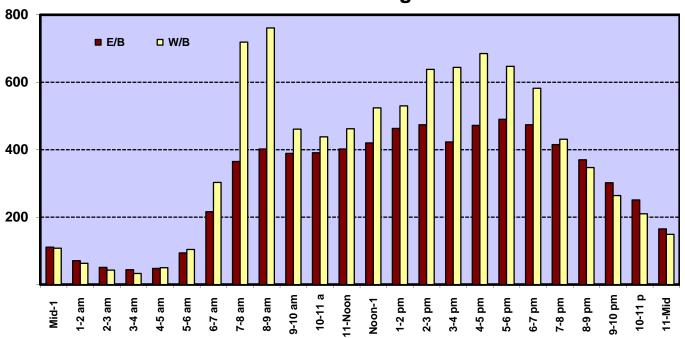


Hourly Vehicular Volumes East 174th Street Bridge - 2010

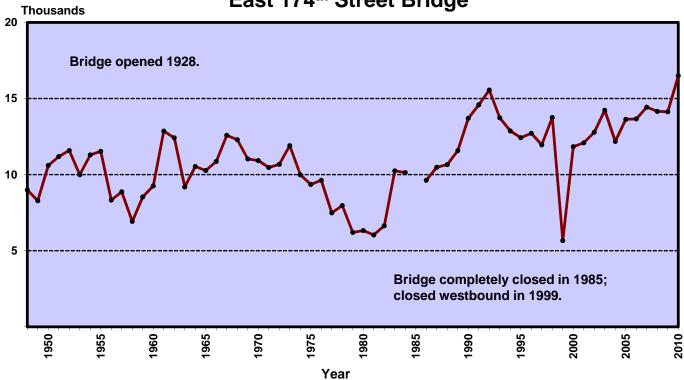
Eastbound Westbound 2-Way Commercial Commercial Commuter Commuter **Buses** Vans Trucks **Totals** Buses Vans Trucks Autos Vans Autos Vans Totals **Totals** 12-1am 1-2am ---2-3am 3-4am 4-5am 5-6am ------------------6-7am 7-8am 1.084 1,163 ** 8-9am 9-10am 10-11am 11-12am 12-1pm 1-2pm 2-3pm 1,112 3-4pm 1.067 4-5pm 1,157 5-6pm 1,137 6-7pm 1.056 7-8pm 8-9pm 9-10pm 10-11pm 11-12pm **Totals** 7,303 9,196 16,499 7-10am 1.156 1.642 1.941 3.097 1,235 1,424 10am-1pm 1,213 2,637 1,537 3,172 1.142 1,360 1,812 1-4pm 4-7pm 1,254 1,436 1,693 1,914 3,350 4,295 7,091 12,256 7am-7pm 5,165 6,107

^{**} Peak Volumes

Hourly Vehicular Volumes East 174th Street Bridge ~ 2010



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

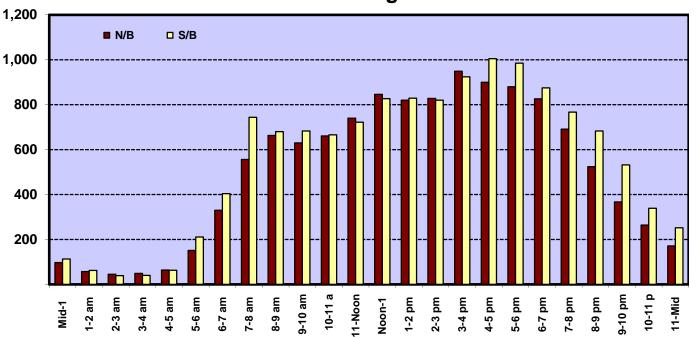


Hourly Vehicular Volumes Eastchester Bridge - 2010

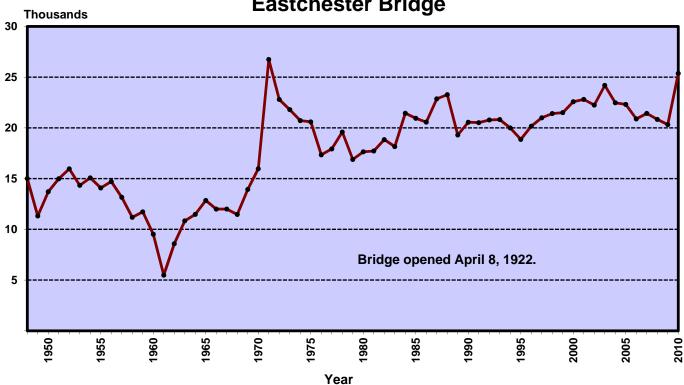
| | | | North | bound | | | | | Sou | thbound | | | |
|---------------------|-------|-------|-----------------|-----------------|------------------|-------------|-------|-------|-----------------|-----------------|-----------------|--------------|-----------------|
| _ | Autos | Buses | Commute Vans | er Co Trucks | ommercia Vans | l Totals | Autos | Buses | Commute Vans | er Co Trucks | ommerci Vans | al Totals | 2-Way Totals |
| 12-1am | | | | | | 97 | | | | | | 113 | 210 |
| 1-2am | | | | | | 57 | | | | | | 62 | 119 |
| 2-3am | | | | | | 45 | | | | | | 39 | 84 |
| 3-4am | | | | | | 49 | | | | | | 40 | 89 |
| 4-5am | | | | | | 64 | | | | | | 63 | 127 |
| 5-6am | | | | | | 151 | | | | | | 211 | 362 |
| 6-7am | | | | | | 330 | | | | | | 404 | 734 |
| 7-8am | 490 | 16 | 0 | 28 | 22 | 556 | 613 | 11 | 11 | 85 | 24 | 744 | 1,300 |
| 8-9am | 562 | 13 | 0 | 49 | 39 | 663 | 534 | 14 | 16 | 88 | 28 | 680 | 1,343 |
| 9-10am | 532 | 18 | 0 | 44 | 36 | 630 | 450 | 21 | 23 | 139 | 50 | 683 | 1,313 |
| 10-11am | 605 | 8 | 0 | 26 | 22 | 661 | 576 | 9 | 17 | 42 | 22 | 666 | 1,327 |
| 11-12am | 648 | 6 | 0 | 40 | 46 | 740 | 555 | 9 | 19 | 95 | 44 | 722 | 1,462 |
| 12-1pm | 793 | 10 | 0 | 15 | 28 | 846 | 754 | 8 | 7 | 36 | 22 | 827 | 1,673 |
| 1-2pm | 774 | 9 | 0 | 15 | 22 | 820 | 756 | 9 | 5 | 45 | 14 | 829 | 1,649 |
| 2-3pm | 746 | 17 | 0 | 39 | 26 | 828 | 642 | 12 | 16 | 119 | 31 | 820 | 1,648 |
| 3-4pm | 886 | 16 | 0 | 24 | 23 | 949 ** | 828 | 19 | 11 | 52 | 14 | 924 | 1,873 |
| 4-5pm | 822 | 10 | 0 | 27 | 41 | 900 | 900 | 11 | 19 | 50 | 25 | 1,005 ** | 1,905 ** |
| 5-6pm | 800 | 10 | 0 | 28 | 42 | 880 | 881 | 11 | 15 | 45 | 33 | 985 | 1,865 |
| 6-7 ['] pm | 780 | 14 | 0 | 15 | 17 | 826 | 796 | 20 | 10 | 39 | 10 | 875 | 1,701 |
| 7-8pm | | | | | | 691 | | | | | | 767 | 1,458 |
| 8-9pm | | | | | | 524 | | | | | | 683 | 1,207 |
| 9-10pm | | | | | | 367 | | | | | | 532 | 899 |
| 10-11pm | | | | | | 264 | | | | | | 339 | 603 |
| 11-12pm | | | | | | 171 | | | | | | 252 | 423 |
| Totals | | | | | | 12,109 | | | | | | 13,265 | 25,374 |
| 7-10am | 1,584 | 47 | 0 | 121 | 97 | 1,849 | 1,597 | 46 | 50 | 312 | 102 | 2,107 | 3,956 |
| 10am-1pm | 2,046 | 24 | 0 | 81 | 96 | 2,247 | 1,885 | 26 | 43 | 173 | 88 | 2,215 | 4,462 |
| 1-4pm | 2,406 | 42 | 0 | 78 | 71 | 2,597 | 2,226 | 40 | 32 | 216 | 59 | 2,573 | 5,170 |
| 4-7pm | 2,402 | 34 | 0 | 70 | 100 | 2,606 | 2,577 | 42 | 44 | 134 | 68 | 2,865 | 5,471 |
| 7am-7pm | 8,438 | 147 | 0 | 350 | 364 | 9,299 | 8,285 | 154 | 169 | 835 | 317 | 9,760 | 19,059 |

^{**} Peak Volumes

Hourly Vehicular Volumes Eastchester Bridge ~ 2010



Average Daily Traffic Volumes ~ Total of Both Directions Eastchester Bridge

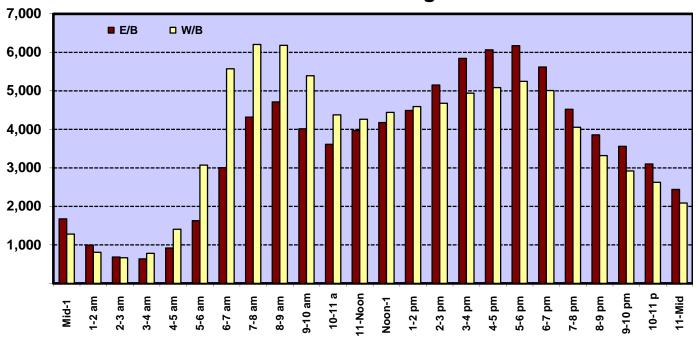


Hourly Vehicular Volumes Eastern Boulevard Bridge - 2010

Eastbound Westbound Commercial Commercial 2-Way Commuter Commuter **Buses** Vans Trucks Autos **Buses** Vans Trucks Vans **Totals** Autos Vans **Totals Totals** 12-1am 2,956 1,676 1,280 1-2am 992 807 1,799 ---------2-3am 684 665 1.349 3-4am 636 781 1,417 4-5am 919 1.406 2,325 ------------------5-6am 1,630 3,072 4,702 6-7am 3,005 5,574 8,579 ---6,204 ** 5,388 7-8am 3.651 55 68 410 134 4.318 98 117 346 255 10.522 8-9am 3,747 109 101 532 225 4,714 5,234 74 140 446 287 6,181 10,895 9-10am 3,089 97 517 200 4,014 4,670 48 87 340 247 5,392 9,406 111 3,180 23 47 261 100 3,611 4,034 35 52 160 95 4,376 7,987 10-11am 11-12am 3,138 16 143 420 253 3,970 3,655 25 102 283 198 4,263 8,233 12-1pm 3.764 20 68 206 120 4.178 4.111 27 33 172 98 4.441 8.619 4,592 1-2pm 4,229 27 149 85 4,491 4,245 55 58 173 61 9,083 1 4,655 4,020 87 333 9,829 2-3pm 41 0 262 193 5,151 110 128 4,678 3-4pm 5.563 93 4.601 67 42 179 4.940 40 0 148 5.844 51 10.784 4-5pm 5,553 36 293 184 6.066 4.389 107 126 292 171 5.085 11.151 5-6pm 5,852 0 6,173 4,788 37 11,419 60 92 169 145 184 92 5,246 6-7pm 5,288 0 85 95 5,008 43 146 142 5,619 4,721 41 66 10,627 7-8pm 4,521 4,055 8,576 7,176 8-9pm 3,858 3,318 9-10pm 3,559 2,921 6,480 ------------10-11pm 3,101 2,626 5,727 11-12pm 2,440 2,087 4,527 88,998 **Totals** 85,170 174,168 7-10am 10,487 559 13,046 15,292 220 789 17,777 30.823 261 280 1,459 344 1,132 10am-1pm 10,082 59 258 887 473 11,759 11,800 87 187 615 391 13,080 24,839 1-4pm 14.447 108 1 559 371 15.486 12.866 232 187 685 240 14.210 29.696 16,693 0 531 495 17.858 13,898 185 356 571 329 15,339 4-7pm 139 33,197 1,749 7am-7pm 51,709 567 539 3,436 1,898 58,149 53,856 724 1,074 3,003 60,406 118,555

^{**} Peak Volumes

Hourly Vehicular Volumes Eastern Boulevard Bridge ~ 2010



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

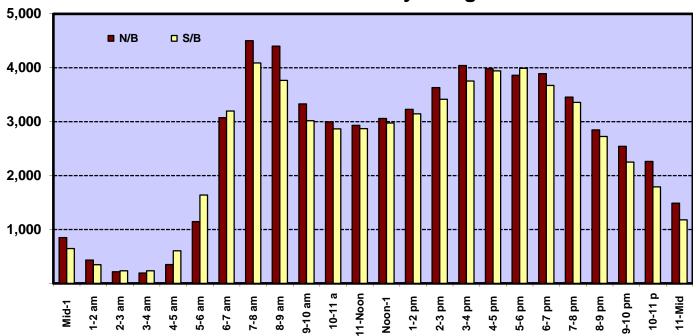


Hourly Vehicular Volumes Hutchinson River Parkway Bridge - 2010

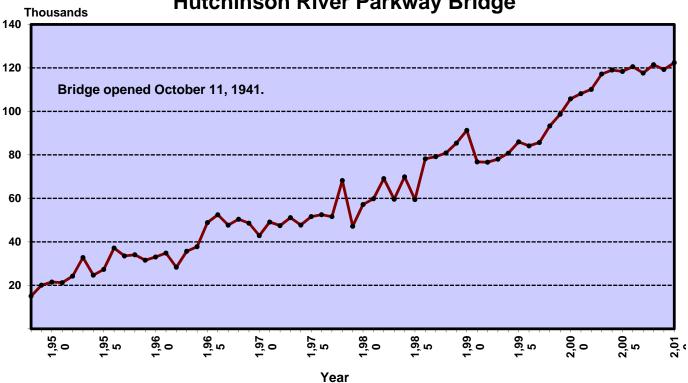
| _ | | | North | oound | | | | | South | ound | | | |
|----------|--------|-------|---------|--------|----------|----------|----------|-------|---------|--------|----------|----------|----------|
| • | | | Commute | er Co | ommercia | al | <u> </u> | | Commute | r Co | ommercia | al | 2-Way |
| | Autos | Buses | Vans | Trucks | Vans | Totals | Autos | Buses | Vans | Trucks | Vans | Totals | Totals |
| 12-1am | | | | | | 849 | | | | | | 646 | 1,495 |
| 1-2am | | | | | | 433 | | | | | | 347 | 780 |
| 2-3am | | | | | | 216 | | | | | | 234 | 450 |
| 3-4am | | | | | | 192 | | | | | | 233 | 425 |
| 4-5am | | | | | | 350 | | | | | | 604 | 954 |
| 5-6am | | | | | | 1,147 | | | | | | 1,639 | 2,786 |
| 6-7am | | | | | | 3,074 | | | | | | 3,197 | 6,271 |
| 7-8am | 4,159 | 4 | 107 | 155 | 77 | 4,502 ** | 3,951 | 1 | 19 | 10 | 108 | 4,089 ** | 8,591 ** |
| 8-9am | 4,122 | 7 | 73 | 142 | 57 | 4,401 | 3,677 | 2 | 6 | 7 | 73 | 3,765 | 8,166 |
| 9-10am | 3,065 | 1 | 86 | 108 | 69 | 3,329 | 2,901 | 7 | 13 | 11 | 86 | 3,018 | 6,347 |
| 10-11am | 2,852 | 3 | 39 | 66 | 36 | 2,996 | 2,821 | 3 | 6 | 6 | 30 | 2,866 | 5,862 |
| 11-12am | 2,623 | 0 | 120 | 115 | 74 | 2,932 | 2,721 | 0 | 10 | 11 | 129 | 2,871 | 5,803 |
| 12-1pm | 2,933 | 0 | 36 | 62 | 29 | 3,060 | 2,927 | 0 | 3 | 3 | 42 | 2,975 | 6,035 |
| 1-2pm | 3,052 | 7 | 56 | 77 | 36 | 3,228 | 3,065 | 6 | 8 | 0 | 67 | 3,146 | 6,374 |
| 2-3pm | 3,248 | 5 | 128 | 181 | 70 | 3,632 | 3,276 | 6 | 14 | 6 | 113 | 3,415 | 7,047 |
| 3-4pm | 3,870 | 3 | 58 | 75 | 36 | 4,042 | 3,667 | 12 | 3 | 3 | 69 | 3,754 | 7,796 |
| 4-5pm | 3,592 | 1 | 84 | 225 | 79 | 3,981 | 3,855 | 0 | 16 | 0 | 71 | 3,942 | 7,923 |
| 5-6pm | 3,587 | 1 | 80 | 133 | 59 | 3,860 | 3,885 | 0 | 10 | 8 | 87 | 3,990 | 7,850 |
| 6-7pm | 3,649 | 0 | 75 | 105 | 62 | 3,891 | 3,581 | 0 | 14 | 2 | 75 | 3,672 | 7,563 |
| 7-8pm | | | | | | 3,456 | | | | | | 3,358 | 6,814 |
| 8-9pm | | | | | | 2,847 | | | | | | 2,725 | 5,572 |
| 9-10pm | | | | | | 2,543 | | | | | | 2,250 | 4,793 |
| 10-11pm | | | | | | 2,263 | | | | | | 1,790 | 4,053 |
| 11-12pm | | | | | | 1,487 | | | | | | 1,179 | 2,666 |
| Totals | | | | | | 62,711 | | | | | | 59,705 | 122,416 |
| 7-10am | 11,346 | 12 | 266 | 405 | 203 | 12,232 | 10,529 | 10 | 38 | 28 | 267 | 10,872 | 23,104 |
| 10am-1pm | 8,408 | 3 | 195 | 243 | 139 | 8,988 | 8,469 | 3 | 19 | 20 | 201 | 8,712 | 17,700 |
| 1-4pm | 10,170 | 15 | 242 | 333 | 142 | 10,902 | 10,008 | 24 | 25 | 9 | 249 | 10,315 | 21,217 |
| 4-7pm | 10,828 | 2 | 239 | 463 | 200 | 11,732 | 11,321 | 0 | 40 | 10 | 233 | 11,604 | 23,336 |
| 7am-7pm | 40,752 | 32 | 942 | 1,444 | 684 | 43,854 | 40,327 | 37 | 122 | 67 | 950 | 41,503 | 85,357 |

^{**} Peak Volumes

Hourly Vehicular Volumes Hutchinson River Parkway Bridge ~ 2010





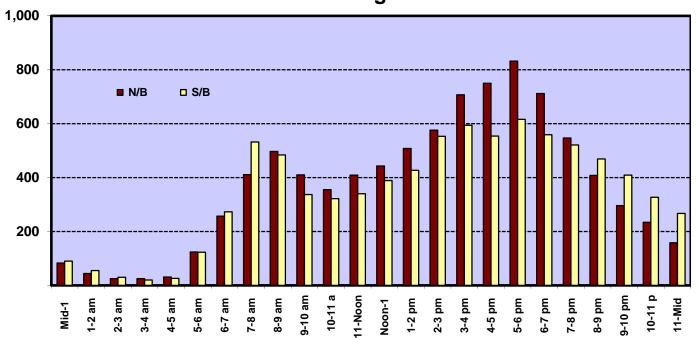


Hourly Vehicular Volumes Pelham Bridge - 2010

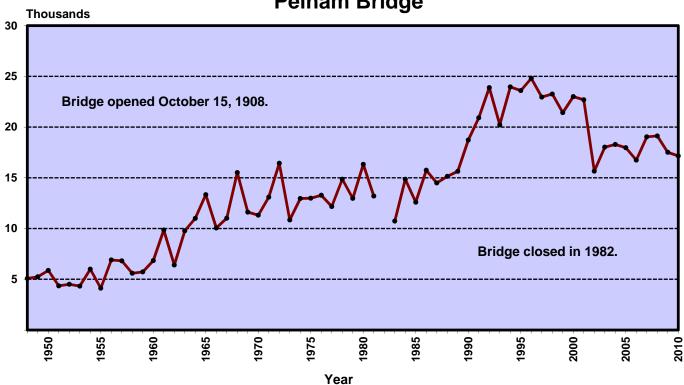
| _ | | | North | bound | | | | | Sou | thbound | | | |
|----------|-------|-------|---------|--------|----------|--------|-------|-------|---------|---------|----------|--------|----------|
| | | C | Commute | er Co | ommercia | ·I | | (| Commute | er Co | ommercia | I | 2-Way |
| | Autos | Buses | Vans | Trucks | Vans | Totals | Autos | Buses | | Trucks | Vans | Totals | Totals |
| 12-1am | | | | | | 83 | | | | | | 90 | 173 |
| 1-2am | | | | | | 44 | | | | | | 55 | 99 |
| 2-3am | | | | | | 25 | | | | | | 30 | 55 |
| 3-4am | | | | | | 25 | | | | | | 20 | 45 |
| 4-5am | | | | | | 31 | | | | | | 26 | 57 |
| 5-6am | | | | | | 124 | | | | | | 123 | 247 |
| 6-7am | | | | | | 257 | | | | | | 273 | 530 |
| 7-8am | 342 | 15 | 12 | 25 | 17 | 411 | 465 | 15 | 11 | 21 | 20 | 532 | 943 |
| 8-9am | 406 | 18 | 6 | 36 | 31 | 497 | 389 | 16 | 12 | 34 | 33 | 484 | 981 |
| 9-10am | 345 | 8 | 3 | 25 | 29 | 410 | 278 | 5 | 7 | 29 | 18 | 337 | 747 |
| 10-11am | 302 | 2 | 3 | 27 | 21 | 355 | 277 | 6 | 9 | 9 | 21 | 322 | 677 |
| 11-12am | 350 | 4 | 5 | 21 | 29 | 409 | 255 | 4 | 9 | 50 | 22 | 340 | 749 |
| 12-1pm | 412 | 10 | 2 | 5 | 14 | 443 | 362 | 10 | 2 | 9 | 6 | 389 | 832 |
| 1-2pm | 478 | 7 | 0 | 14 | 9 | 508 | 391 | 7 | 6 | 14 | 9 | 427 | 935 |
| 2-3pm | 490 | 19 | 8 | 28 | 31 | 576 | 486 | 13 | 6 | 29 | 19 | 553 | 1,129 |
| 3-4pm | 650 | 15 | 1 | 16 | 25 | 707 | 539 | 22 | 5 | 17 | 11 | 594 | 1,301 |
| 4-5pm | 683 | 7 | 5 | 17 | 38 | 750 | 513 | 7 | 2 | 17 | 15 | 554 | 1,304 |
| 5-6pm | 756 | 10 | 4 | 23 | 39 | 832 ** | 545 | 14 | 15 | 13 | 29 | 616 ** | 1,448 ** |
| 6-7pm | 667 | 9 | 4 | 5 | 27 | 712 | 510 | 8 | 12 | 17 | 12 | 559 | 1,271 |
| 7-8pm | | | | | | 547 | | | | | | 521 | 1,068 |
| 8-9pm | | | | | | 408 | | | | | | 469 | 877 |
| 9-10pm | | | | | | 296 | | | | | | 409 | 705 |
| 10-11pm | | | | | | 234 | | | | | | 327 | 561 |
| 11-12pm | | | | | | 158 | | | | | | 267 | 425 |
| Totals | | | | | | 8,842 | | | | | | 8,317 | 17,159 |
| 7-10am | 1,093 | 41 | 21 | 86 | 77 | 1,318 | 1,132 | 36 | 30 | 84 | 71 | 1,353 | 2,671 |
| 10am-1pm | 1,064 | 16 | 10 | 53 | 64 | 1,207 | 894 | 20 | 20 | 68 | 49 | 1,051 | 2,258 |
| 1-4pm | 1,618 | 41 | 9 | 58 | 65 | 1,791 | 1,416 | 42 | 17 | 60 | 39 | 1,574 | 3,365 |
| 4-7pm | 2,106 | 26 | 13 | 45 | 104 | 2,294 | 1,568 | 29 | 29 | 47 | 56 | 1,729 | 4,023 |
| 7am-7pm | 5,881 | 124 | 53 | 242 | 310 | 6,610 | 5,010 | 127 | 96 | 259 | 215 | 5,707 | 12,317 |

^{**} Peak Volumes

Hourly Vehicular Volumes Pelham Bridge ~ 2010



Average Daily Traffic Volumes ~ Total of Both Directions Pelham Bridge

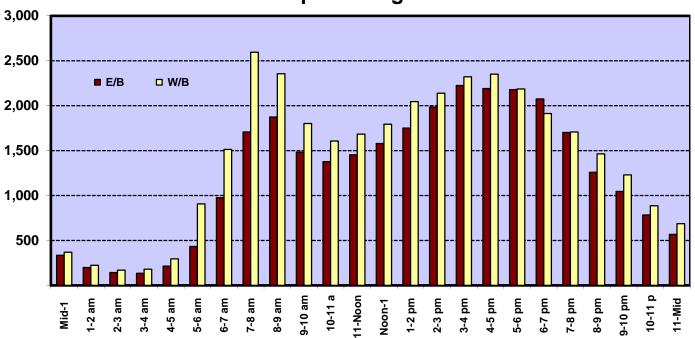


Hourly Vehicular Volumes Unionport Bridge - 2010

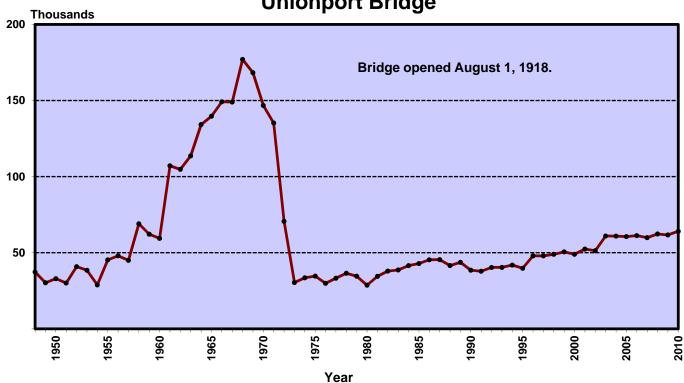
| _ | | | Eastb | ound | | | | | Wes | tbound | | | |
|----------|--------|-------|---------|--------|----------|----------|--------|-------|----------|--------|----------|----------|----------|
| _ | | | Commute | er Co | ommercia | al | | | Commutei | . С | ommercia | al | 2-Way |
| | Autos | Buses | Vans | Trucks | Vans | Totals | Autos | Buses | Vans | Trucks | Vans | Totals | Totals |
| 12-1am | | | | | | 335 | | | | | | 369 | 704 |
| 1-2am | | | | | | 199 | | | | | | 224 | 423 |
| 2-3am | | | | | | 143 | | | | | | 170 | 313 |
| 3-4am | | | | | | 135 | | | | | | 180 | 315 |
| 4-5am | | | | | | 214 | | | | | | 295 | 509 |
| 5-6am | | | | | | 433 | | | | | | 907 | 1,340 |
| 6-7am | | | | | | 976 | | | | | | 1,513 | 2,489 |
| 7-8am | 1,482 | 39 | 22 | 124 | 40 | 1,707 | 2,421 | 47 | 3 | 51 | 73 | 2,595 ** | 4,302 |
| 8-9am | 1,581 | 38 | 49 | 135 | 71 | 1,874 | 2,198 | 27 | 0 | 76 | 55 | 2,356 | 4,230 |
| 9-10am | 1,188 | 33 | 59 | 125 | 78 | 1,483 | 1,668 | 22 | 0 | 48 | 64 | 1,802 | 3,285 |
| 10-11am | 1,216 | 18 | 19 | 79 | 45 | 1,377 | 1,513 | 21 | 0 | 18 | 55 | 1,607 | 2,984 |
| 11-12am | 1,141 | 15 | 59 | 161 | 78 | 1,454 | 1,459 | 17 | 0 | 94 | 113 | 1,683 | 3,137 |
| 12-1pm | 1,403 | 15 | 31 | 89 | 41 | 1,579 | 1,709 | 12 | 0 | 39 | 34 | 1,794 | 3,373 |
| 1-2pm | 1,429 | 12 | 47 | 170 | 93 | 1,751 | 1,763 | 27 | 2 | 127 | 127 | 2,046 | 3,797 |
| 2-3pm | 1,697 | 19 | 51 | 154 | 63 | 1,984 | 1,880 | 30 | 0 | 113 | 116 | 2,139 | 4,123 |
| 3-4pm | 2,078 | 16 | 20 | 70 | 41 | 2,225 ** | 2,141 | 53 | 0 | 52 | 76 | 2,322 | 4,547 ** |
| 4-5pm | 1,906 | 19 | 40 | 152 | 74 | 2,191 | 2,083 | 33 | 0 | 79 | 156 | 2,351 | 4,542 |
| 5-6pm | 1,925 | 24 | 49 | 140 | 41 | 2,179 | 2,001 | 31 | 0 | 70 | 84 | 2,186 | 4,365 |
| 6-7pm | 1,840 | 37 | 50 | 110 | 38 | 2,075 | 1,802 | 20 | 0 | 34 | 57 | 1,913 | 3,988 |
| 7-8pm | , | | | | | 1,702 | , | | | | | 1,707 | 3,409 |
| 8-9pm | | | | | | 1,259 | | | | | | 1,463 | 2,722 |
| 9-10pm | | | | | | 1,046 | | | | | | 1,230 | 2,276 |
| 10-11pm | | | | | | 784 | | | | | | 886 | 1,670 |
| 11-12pm | | | | | | 568 | | | | | | 687 | 1,255 |
| Totals | | | | | | 29,673 | | | | | | 34,425 | 64,098 |
| 7-10am | 4,251 | 110 | 130 | 384 | 189 | 5,064 | 6,287 | 96 | 3 | 175 | 192 | 6,753 | 11,817 |
| 10am-1pm | 3,760 | 48 | 109 | 329 | 164 | 4,410 | 4,681 | 50 | 0 | 151 | 202 | 5,084 | 9,494 |
| 1-4pm | 5,204 | 47 | 118 | 394 | 197 | 5,960 | 5,784 | 110 | 2 | 292 | 319 | 6,507 | 12,467 |
| 4-7pm | 5,671 | 80 | 139 | 402 | 153 | 6,445 | 5,886 | 84 | 0 | 183 | 297 | 6,450 | 12,895 |
| 7am-7pm | 18,886 | 285 | 496 | 1,509 | 703 | 21,879 | 22,638 | 340 | 5 | 801 | 1,010 | 24,794 | 46,673 |

^{**} Peak Volumes

Hourly Vehicular Volumes Unionport Bridge ~ 2010



Average Daily Traffic Volumes ~ Total of Both Directions Unionport Bridge

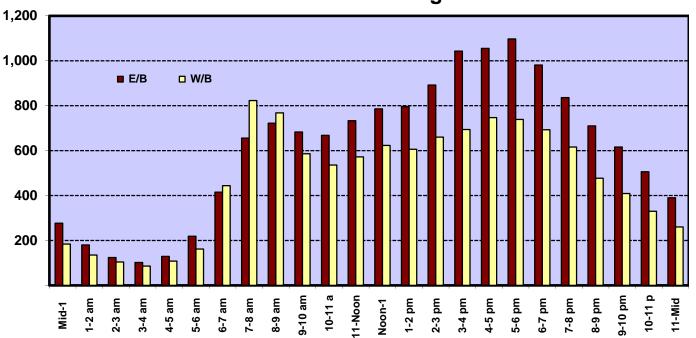


Hourly Vehicular Volumes Westchester Avenue Bridge - 2010

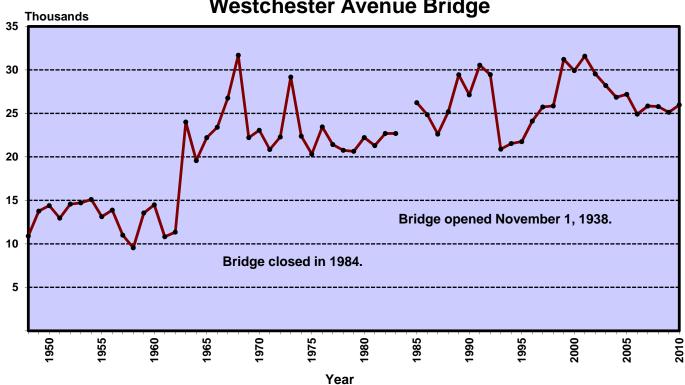
| _ | | | Eastb | ound | | | | | Wes | stbound | | | |
|----------|-------|-------|---------|--------|---------|----------|-------|-------|---------|---------|---------|----------|----------|
| _ | | C | Commute | er Co | mmercia | al | | | Commute | r Co | mmercia | <u> </u> | 2-Way |
| | Autos | Buses | | Trucks | Vans | Totals | Autos | Buses | | Trucks | Vans | Totals | Totals |
| 12-1am | | | | | | 277 | | | | | | 184 | 461 |
| 1-2am | | | | | | 180 | | | | | | 135 | 315 |
| 2-3am | | | | | | 124 | | | | | | 104 | 228 |
| 3-4am | | | | | | 102 | | | | | | 86 | 188 |
| 4-5am | | | | | | 129 | | | | | | 108 | 237 |
| 5-6am | | | | | | 219 | | | | | | 162 | 381 |
| 6-7am | | | | | | 415 | | | | | | 444 | 859 |
| 7-8am | 558 | 34 | 17 | 25 | 22 | 656 | 717 | 33 | 1 | 20 | 52 | 823 ** | 1,479 |
| 8-9am | 613 | 52 | 8 | 25 | 24 | 722 | 667 | 35 | 1 | 27 | 38 | 768 | 1,490 |
| 9-10am | 609 | 30 | 13 | 13 | 18 | 683 | 502 | 13 | 0 | 23 | 48 | 586 | 1,269 |
| 10-11am | 608 | 32 | 4 | 10 | 14 | 668 | 501 | 16 | 0 | 11 | 8 | 536 | 1,204 |
| 11-12am | 619 | 28 | 8 | 35 | 43 | 733 | 464 | 16 | 0 | 36 | 56 | 572 | 1,305 |
| 12-1pm | 736 | 23 | 2 | 9 | 16 | 786 | 550 | 21 | 0 | 26 | 26 | 623 | 1,409 |
| 1-2pm | 712 | 43 | 9 | 16 | 16 | 796 | 550 | 20 | 0 | 11 | 25 | 606 | 1,402 |
| 2-3pm | 749 | 55 | 7 | 33 | 48 | 892 | 568 | 29 | 0 | 20 | 43 | 660 | 1,552 |
| 3-4pm | 941 | 72 | 2 | 16 | 12 | 1,043 | 642 | 23 | 0 | 13 | 16 | 694 | 1,737 |
| 4-5pm | 953 | 39 | 22 | 22 | 19 | 1,055 | 656 | 30 | 0 | 21 | 40 | 747 | 1,802 |
| 5-6pm | 1,006 | 23 | 12 | 21 | 35 | 1,097 ** | 636 | 18 | 0 | 19 | 66 | 739 | 1,836 ** |
| 6-7pm | 901 | 29 | 2 | 9 | 40 | 981 | 618 | 9 | 0 | 2 | 64 | 693 | 1,674 |
| 7-8pm | | | | | | 836 | | | | | | 616 | 1,452 |
| 8-9pm | | | | | | 710 | | | | | | 477 | 1,187 |
| 9-10pm | | | | | | 616 | | | | | | 409 | 1,025 |
| 10-11pm | | | | | | 506 | | | | | | 330 | 836 |
| 11-12pm | | | | | | 390 | | | | | | 260 | 650 |
| Totals | | | | | | 14,616 | | | | | | 11,362 | 25,978 |
| 7-10am | 1,780 | 116 | 38 | 63 | 64 | 2,061 | 1,886 | 81 | 2 | 70 | 138 | 2,177 | 4,238 |
| 10am-1pm | 1,963 | 83 | 14 | 54 | 73 | 2,187 | 1,515 | 53 | 0 | 73 | 90 | 1,731 | 3,918 |
| 1-4pm | 2,402 | 170 | 18 | 65 | 76 | 2,731 | 1,760 | 72 | 0 | 44 | 84 | 1,960 | 4,691 |
| 4-7pm | 2,860 | 91 | 36 | 52 | 94 | 3,133 | 1,910 | 57 | 0 | 42 | 170 | 2,179 | 5,312 |
| 7am-7pm | 9,005 | 460 | 106 | 234 | 307 | 10,112 | 7,071 | 263 | 2 | 229 | 482 | 8,047 | 18,159 |

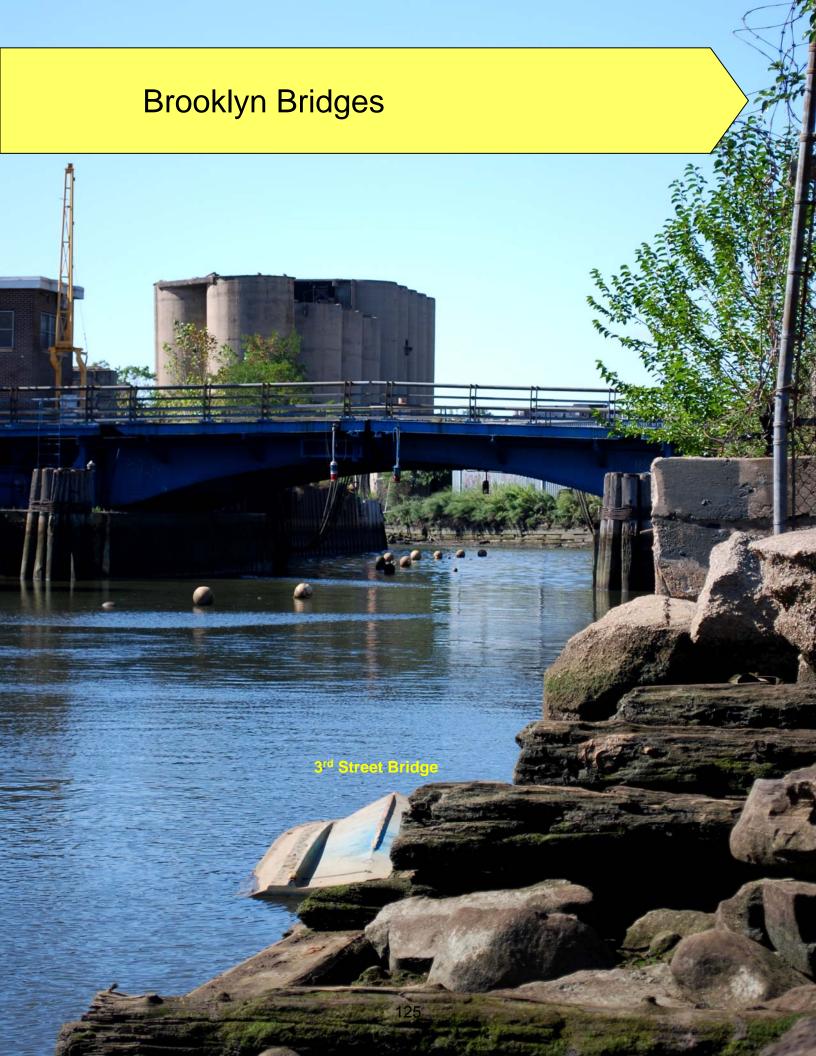
^{**} Peak Volumes

Hourly Vehicular Volumes Westchester Avenue Bridge ~ 2010



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





BROOKLYN BRIDGES

2010 Daily Volumes Hudson River New **Jersey** East River Wennoun Creek **Queens Union St** Maspeth Creek **Bridge →** 4,319 Carroll St Bridge ▶ 994 3rd St Bridge ← 6,671 3,719 **English Kills** 10,402 8,232 3rd Ave Bridge 18,893 4,335 7,686 19,386 9th St Bridge Metropolitan Ave Canal . Bridge Gowanus Hamilton Ave Brooklyn **Cropsey Ave** Bridge / 69,564 Mill Basin 7 Bridge Stillwell Ave Coney Island **Bridge** Mill Basin 71,236 Floyd Bennett **Field**

127

Brooklyn Bridges Average Daily Traffic Volumes 1948 - 2010

| 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 1954 | 2,951 1,962 | 12,278 13,945 | 33,379 36,121 | 13,843 18,208 | 36,209 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 1961 | 2,553 7,628 | 15,417 16,968 | 42,584 43,232 | 18,892 20,446 | 58,929 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 1969 | 2,762 1,965 | 18,774 22,292 | 42,869 42,400 | 31,457 28,604 | 105,979 111,694 |
| 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 1977 | 1,245 1,382 | 19,503 21,040 | 39,321 34,602 | 23,287 26,732 | 106,744 103,508 |
| 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 1984 | 1,980 1,432 | 27,847 32,770 | 44,047 48,204 | 31,444 40,936 | 112,211 110,458 |
| 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 1992 | 1,175 1,387 | 25,542 28,230 | 39,911 56,227 | 39,576 37,510 | 134,410 130,737 |
| 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 1999 | 1,270 1,248 | 30,323 31,076 | 59,211 67,259 | 38,271 38,752 | 146,940 147,347 |
| 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 55,526 | 35,113 | 143,158 |
| 2006 2007 | 1,068 1,116 | 35,398 36,395 | 55,526 54,632 | 38,130 37,332 | 143,917 148,802 |
| 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 |
| | | | | | |

Brooklyn Bridges (cont'd) Average Daily Traffic Volumes 1948 - 2010

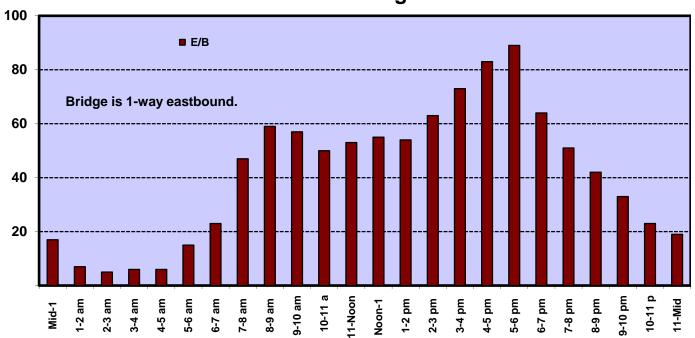
| Year | Ninth Street | Stillwell Avenue | Third Avenue | Third Street | Union Street | Totals |
|--------------|------------------|---------------------|------------------|------------------|-----------------|--------------------|
| 1948 | 6,006 | 4,295 | 17,220 | 3,438 | 5,165 | 91,917 |
| 1949 | 5,640 | 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 10,329 | 5,094 | 14,303 | 3,711 | 7,062 9,617 | 127,050 |
| 1953 1954 | 9,904 | 4,142 4,788 | 15,517 17,630 | 3,463 3,215 | 8,500 | 141,728 154,877 |
| 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 1965 | 11,430 9,540 | 6,410 6,887 | 16,230 15,196 | 6,850 5,992 | 10,260 9,152 | 213,469 241,570 |
| 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 1977 | 9,634 11,123 | 9,568 6,868 | 14,752 13,692 | 5,361 4,328 | 8,001 4,842 | 237,416 |
| 1978 | 8,892 | 7,591 | 14,743 | 5,425 | 4,708 | 228,117 226,627 |
| 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 8,762 | Closed | 15,235 | 2,426 | 11,374 | 271,818 |
| 1987 1988 | 8,762 11,005 | Closed Closed | 20,029 20,971 | 5,626 7,189 | 5,971 6,535 | 271,080 281,731 |
| 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 | Closea | 9,044 | 21,664 | 9,048 | 4,562 | 315,395 |
| 1997 1998 | Closea Closea | 9,602 9,243 | 21,129 20,597 | 10,400 11,378 | 4,573 4,824 | 318,101 322,057 |
| 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 2008 | 11,903 13,362 | 10,085 10,197 | 19,410 17,901 | 9,937 9,482 | 4,343 4,390 | 333,955 327,644 |
| 2009 | 13,251 | 10,197 | 17,587 | 9,462 10,028 | 4,390 4,441 | 330,614 |
| 2010 | 12,567 | 9,884 | 18,088 | 10,390 | 4,319 | 327,984 |
| 2010 | . 2,001 | 0,004 | .0,000 | . 5,550 | 1,010 | 0_1,00 F |

Hourly Vehicular Volumes Carroll Street Bridge - 2010

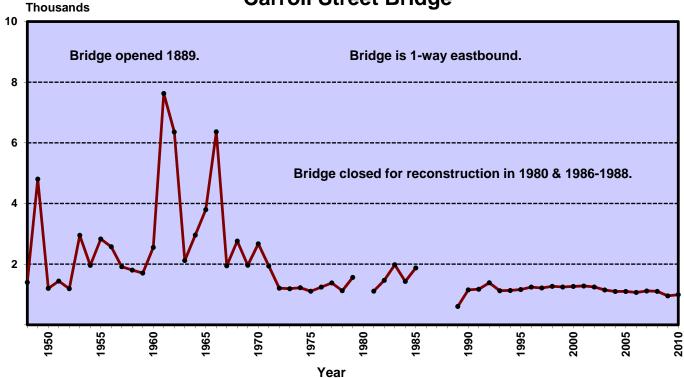
| | Eastbound | | | | | | Westbound | | | | | | Grand |
|----------|---------------------|-------|------|--------|------|--------|---------------------|-----------|-----------|----------|------|--------|--------|
| _ | Commuter Commercial | | | | | | Commuter Commercial | | | | | | |
| | Autos | Buses | Vans | Trucks | Vans | Totals | Autos | Buses | Vans | Trucks | Vans | Totals | Totals |
| 12-1am | | | | | | 17 | | | | | | | 17 |
| 1-2am | | | | | | 7 | | | | | | | 7 |
| 2-3am | | | | | | 5 | | | | | | | 5 |
| 3-4am | | | | | | 6 | | | | | | | 6 |
| 4-5am | | | | | | 6 | | Bridge is | s 1-way e | eastboui | nd | | 6 |
| 5-6am | | | | | | 15 | | • | • | | | | 15 |
| 6-7am | | | | | | 23 | | | | | | | 23 |
| 7-8am | 17 | 0 | 9 | 12 | 9 | 47 | | | | | | | 47 |
| 8-9am | 17 | 2 | 6 | 18 | 16 | 59 | | | | | | | 59 |
| 9-10am | 22 | 0 | 6 | 21 | 8 | 57 | | | | | | | 57 |
| 10-11am | 24 | 0 | 0 | 15 | 11 | 50 | | | | | | | 50 |
| 11-12am | 19 | 0 | 6 | 15 | 13 | 53 | | | | | | | 53 |
| 12-1pm | 10 | 0 | 11 | 16 | 18 | 55 | | | | | | | 55 |
| 1-2pm | 16 | 0 | 8 | 9 | 21 | 54 | | | | | | | 54 |
| 2-3pm | 1 | 0 | 13 | 32 | 17 | 63 | | | | | | | 63 |
| 3-4pm | 59 | 0 | 2 | 7 | 5 | 73 | | | | | | | 73 |
| 4-5pm | 62 | 0 | 3 | 7 | 11 | 83 | | | | | | | 83 |
| 5-6pm | 71 | 0 | 7 | 4 | 7 | 89 ** | | | | | | | 89 ** |
| 6-7pm | 55 | 0 | 4 | 1 | 4 | 64 | | | | | | | 64 |
| 7-8pm | | | | | | 51 | | | | | | | 51 |
| 8-9pm | | | | | | 42 | | | | | | | 42 |
| 9-10pm | | | | | | 33 | | | | | | | 33 |
| 10-11pm | | | | | | 23 | | | | | | | 23 |
| 11-12pm | | | | | | 19 | | | | | | | 19 |
| Totals | | | | | | 994 | | | | | | 0 | 994 |
| 7-10am | 56 | 2 | 21 | 51 | 33 | 163 | | | | | | | 163 |
| 10am-1pm | 53 | 0 | 17 | 46 | 42 | 158 | | | | | | | 158 |
| 1-4pm ' | 76 | 0 | 23 | 48 | 43 | 190 | | | | | | | 190 |
| 4-7pm | 188 | 0 | 14 | 12 | 22 | 236 | | | | | | | 236 |
| 7am-7pm | 373 | 2 | 75 | 157 | 140 | 747 | | | | | | | 747 |

^{**} Peak Volumes

Hourly Vehicular Volumes Carroll Street Bridge ~ 2010



Average Daily Traffic Volumes Carroll Street Bridge



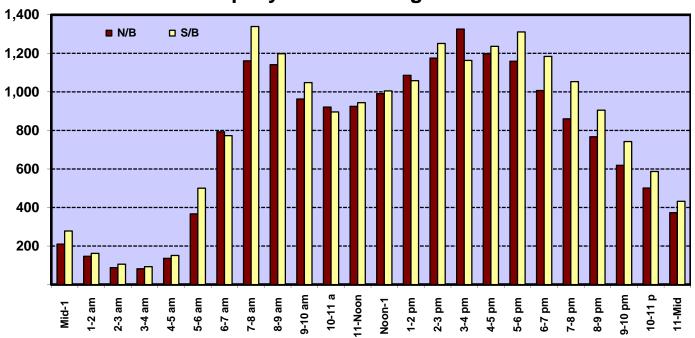
Hourly Vehicular Volumes Cropsey Avenue Bridge - 2010

| | | | North | bound | | | | | | | | | | |
|----------|--------|-------|--------|--------|---------|----------|--------|---------------------|------|--------|------|----------|-----------------|--|
| • | | | Commut | er C | ommerci | al | | Commuter Commercial | | | | | | |
| | Autos | Buses | Vans | Trucks | Vans | Totals | Autos | Buses | Vans | Trucks | Vans | Totals | 2-Way Totals | |
| 12-1am | | | | | | 210 | | | | | | 278 | 488 | |
| 1-2am | | | | | | 147 | | | | | | 162 | 309 | |
| 2-3am | | | | | | 88 | | | | | | 106 | 194 | |
| 3-4am | | | | | | 82 | | | | | | 93 | 175 | |
| 4-5am | | | | | | 136 | | | | | | 151 | 287 | |
| 5-6am | | | | | | 367 | | | | | | 500 | 867 | |
| 6-7am | | | | | | 793 | | | | | | 773 | 1,566 | |
| 7-8am | 936 | 82 | 2 | 49 | 92 | 1,161 | 1,110 | 119 | 0 | 65 | 45 | 1,339 ** | 2,500 ** | |
| 8-9am | 953 | 62 | 3 | 58 | 65 | 1,141 | 1,018 | 82 | 2 | 56 | 40 | 1,198 | 2,339 | |
| 9-10am | 769 | 51 | 1 | 51 | 91 | 963 | 810 | 97 | 4 | 58 | 79 | 1,048 | 2,011 | |
| 10-11am | 807 | 45 | 0 | 29 | 40 | 921 | 794 | 27 | 0 | 35 | 40 | 896 | 1,817 | |
| 11-12am | 766 | 26 | 0 | 70 | 63 | 925 | 752 | 28 | 1 | 78 | 85 | 944 | 1,869 | |
| 12-1pm | 870 | 47 | 0 | 33 | 41 | 991 | 920 | 32 | 0 | 29 | 24 | 1,005 | 1,996 | |
| 1-2pm | 934 | 69 | 0 | 35 | 48 | 1,086 | 956 | 36 | 1 | 24 | 41 | 1,058 | 2,144 | |
| 2-3pm | 927 | 90 | 3 | 71 | 84 | 1,175 | 1,036 | 59 | 0 | 70 | 86 | 1,251 | 2,426 | |
| 3-4pm | 1,134 | 107 | 1 | 37 | 47 | 1,326 ** | 1,000 | 79 | 2 | 26 | 56 | 1,163 | 2,489 | |
| 4-5pm | 1,015 | 46 | 0 | 61 | 76 | 1,198 | 1,050 | 59 | 0 | 28 | 99 | 1,236 | 2,434 | |
| 5-6pm | 1,005 | 13 | 0 | 64 | 77 | 1,159 | 1,111 | 23 | 10 | 52 | 115 | 1,311 | 2,470 | |
| 6-7pm | 898 | 23 | 0 | 37 | 49 | 1,007 | 1,079 | 9 | 0 | 17 | 79 | 1,184 | 2,191 | |
| 7-8pm | | | | | | 860 | · | | | | | 1,053 | 1,913 | |
| 8-9pm | | | | | | 767 | | | | | | 905 | 1,672 | |
| 9-10pm | | | | | | 619 | | | | | | 742 | 1,361 | |
| 10-11pm | | | | | | 501 | | | | | | 587 | 1,088 | |
| 11-12pm | | | | | | 373 | | | | | | 432 | 805 | |
| Totals | | | | | | 17,996 | | | | | | 19,415 | 37,411 | |
| 7-10am | 2,658 | 195 | 6 | 158 | 248 | 3,265 | 2,938 | 298 | 6 | 179 | 164 | 3,585 | 6,850 | |
| 10am-1pm | 2,443 | 118 | 0 | 132 | 144 | 2,837 | 2,466 | 87 | 1 | 142 | 149 | 2,845 | 5,682 | |
| 1-4pm | 2,995 | 266 | 4 | 143 | 179 | 3,587 | 2,992 | 174 | 3 | 120 | 183 | 3,472 | 7,059 | |
| 4-7pm | 2,918 | 82 | 0 | 162 | 202 | 3,364 | 3,240 | 91 | 10 | 97 | 293 | 3,731 | 7,095 | |
| 7am-7pm | 11,014 | 661 | 10 | 595 | 773 | 13,053 | 11,636 | 650 | 20 | 538 | 789 | 13,633 | 26,686 | |

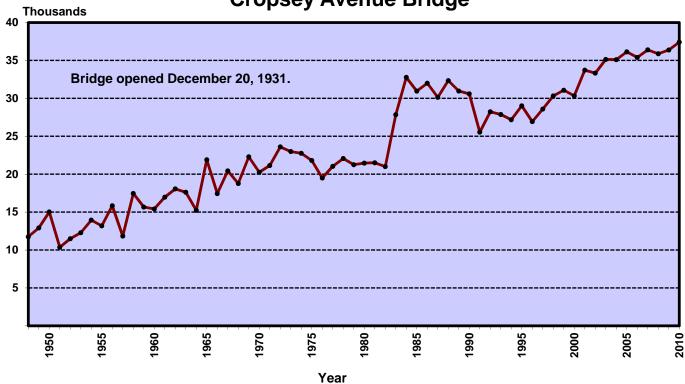
Based on 1989 Classification Survey Data

^{**} Peak Volumes

Hourly Vehicular Volumes Cropsey Avenue Bridge ~ 2010



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



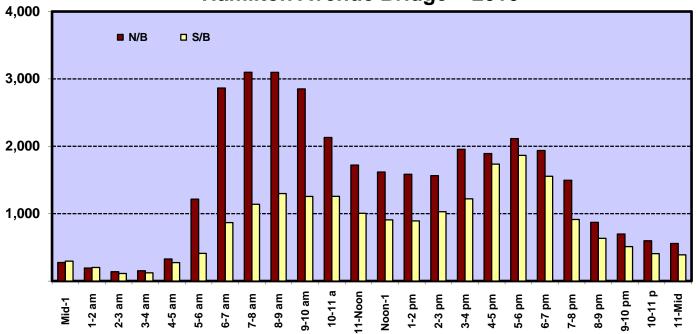
Hourly Vehicular Volumes Hamilton Avenue Bridge - 2010

| _ | | | North | bound | | | | | Sou | ıthbound | d | | |
|----------|--------|-------|--------|--------|---------|----------|-------|-------|--------|----------|---------|----------|----------|
| <u>-</u> | | (| Commut | er C | ommerci | al | | | Commut | er C | ommerci | ial | 2-Way |
| | Autos | Buses | Vans | Trucks | Vans | Totals | Autos | Buses | Vans | Trucks | Vans | Totals | Totals |
| 12-1am | | | | | | 275 | | | | | | 295 | 570 |
| 1-2am | | | | | | 193 | | | | | | 201 | 394 |
| 2-3am | | | | | | 139 | | | | | | 112 | 251 |
| 3-4am | | | | | | 153 | | | | | | 122 | 275 |
| 4-5am | | | | | | 327 | | | | | | 274 | 601 |
| 5-6am | | | | | | 1,216 | | | | | | 411 | 1,627 |
| 6-7am | | | | | | 2,864 | | | | | | 867 | 3,731 |
| 7-8am | 2,511 | 36 | 46 | 232 | 274 | 3,099 ** | 404 | 42 | 170 | 348 | 175 | 1,139 | 4,238 |
| 8-9am | 2,439 | 14 | 46 | 272 | 326 | 3,097 | 730 | 42 | 70 | 292 | 165 | 1,299 | 4,396 ** |
| 9-10am | 2,197 | 32 | 38 | 293 | 292 | 2,852 | 513 | 48 | 89 | 431 | 175 | 1,256 | 4,108 |
| 10-11am | 1,826 | 14 | 17 | 141 | 133 | 2,131 | 882 | 32 | 52 | 187 | 104 | 1,257 | 3,388 |
| 11-12am | 1,321 | 15 | 18 | 186 | 181 | 1,721 | 435 | 17 | 101 | 262 | 190 | 1,005 | 2,726 |
| 12-1pm | 1,461 | 8 | 8 | 75 | 66 | 1,618 | 691 | 5 | 45 | 99 | 68 | 908 | 2,526 |
| 1-2pm | 1,382 | 22 | 9 | 104 | 68 | 1,585 | 646 | 10 | 37 | 122 | 78 | 893 | 2,478 |
| 2-3pm | 1,159 | 41 | 17 | 180 | 167 | 1,564 | 435 | 12 | 100 | 258 | 224 | 1,029 | 2,593 |
| 3-4pm | 1,657 | 63 | 9 | 121 | 105 | 1,955 | 980 | 13 | 57 | 92 | 78 | 1,220 | 3,175 |
| 4-5pm | 1,507 | 50 | 14 | 156 | 165 | 1,892 | 1,259 | 11 | 129 | 166 | 171 | 1,736 | 3,628 |
| 5-6pm | 1,745 | 18 | 16 | 184 | 151 | 2,114 | 1,491 | 8 | 95 | 101 | 170 | 1,865 ** | 3,979 |
| 6-7pm | 1,666 | 8 | 16 | 90 | 157 | 1,937 | 1,287 | 8 | 91 | 70 | 99 | 1,555 | 3,492 |
| 7-8pm | | | | | | 1,496 | · | | | | | 914 | 2,410 |
| 8-9pm | | | | | | 871 | | | | | | 634 | 1,505 |
| 9-10pm | | | | | | 698 | | | | | | 511 | 1,209 |
| 10-11pm | | | | | | 598 | | | | | | 407 | 1,005 |
| 11-12pm | | | | | | 558 | | | | | | 389 | 947 |
| Totals | | | | | | 34,953 | | | | | | 20,299 | 55,252 |
| 7-10am | 7,147 | 82 | 130 | 797 | 892 | 9,048 | 1,647 | 132 | 329 | 1,071 | 515 | 3,694 | 12,742 |
| 10am-1pm | 4,608 | 37 | 43 | 402 | 380 | 5,470 | 2,008 | 54 | 198 | 548 | 362 | 3,170 | 8,640 |
| 1-4pm | 4,198 | 126 | 35 | 405 | 340 | 5,104 | 2,061 | 35 | 194 | 472 | 380 | 3,142 | 8,246 |
| 4-7pm | 4,918 | 76 | 46 | 430 | 473 | 5,943 | 4,037 | 27 | 315 | 337 | 440 | 5,156 | 11,099 |
| 7am-7pm | 20,871 | 321 | 254 | 2,034 | 2,085 | 25,565 | 9,753 | 248 | 1,036 | 2,428 | 1,697 | 15,162 | 40,727 |

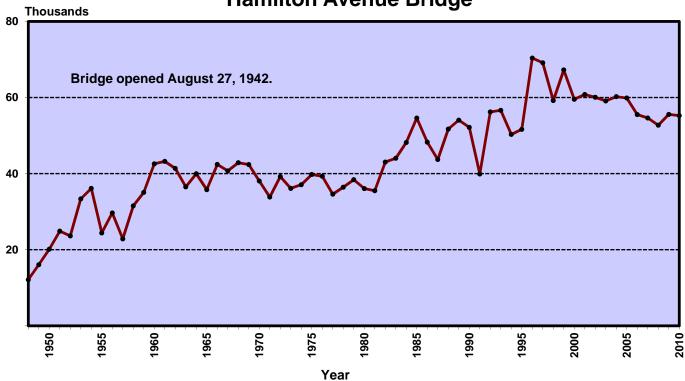
Based on 1989 Classification Survey Data

^{**} Peak Volumes

Hourly Vehicular Volumes Hamilton Avenue Bridge ~ 2010



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



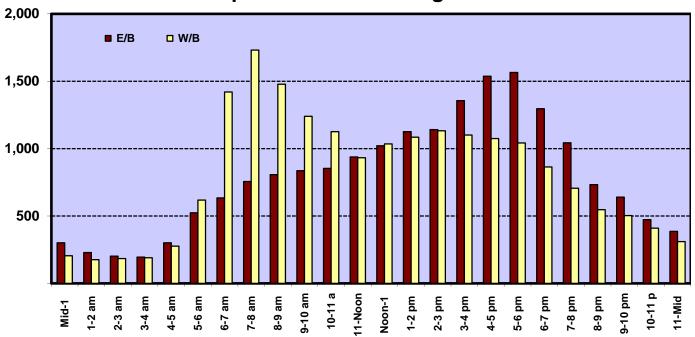
Hourly Vehicular Volumes Metropolitan Avenue Bridge - 2010

Eastbound Westbound Commercial Commercial 2-Way Commuter Commuter **Buses Buses** Totals Totals **Totals** Autos Vans Trucks Vans Autos Vans Trucks Vans 301 12-1am 205 506 1-2am 229 176 405 ---2-3am 202 184 386 385 3-4am 195 190 4-5am 301 276 577 524 618 5-6am 1,142 ------634 6-7am 1,420 2,054 ---------------------------7-8am 565 122 756 1,282 98 1,731 2,487 15 15 39 36 71 244 8-9am 520 15 21 168 83 807 1,039 16 48 264 111 1,478 2,285 9-10am 431 37 22 247 99 836 751 35 40 305 109 1.240 2.076 10-11am 699 8 98 37 853 934 20 28 107 37 1,126 1,979 11 938 585 932 11-12am 553 16 26 263 80 16 42 215 74 1,870 839 17 111 35 1.021 842 16 26 113 1.035 2.056 12-1pm 19 38 902 42 1,085 2,211 1-2pm 915 31 10 114 56 1,126 24 23 94 791 98 19 33 1,132 2-3pm 14 32 206 1,141 778 208 94 2,273 903 22 3-4pm 1,138 15 29 119 55 1,356 18 106 52 1,101 2,457 4-5pm 1,134 38 63 174 128 1,537 821 14 28 143 69 1,075 2,612 1,189 5-6pm 14 74 161 127 1,565 814 10 54 89 75 1,042 2,607 6-7pm 1,028 12 56 114 86 1,296 723 12 40 47 42 864 2.160 7-8pm 1,043 706 1,749 ___ ---8-9pm 733 547 1.280 ------------640 503 1.143 9-10pm 10-11pm 473 410 883 ---386 310 11-12pm 696 ------------**Totals** 18,893 19,386 38,279 7-10am 4,449 1,516 67 58 537 221 2,399 3,072 87 159 813 318 6.848 2,091 2,812 2,361 10am-1pm 41 56 472 152 52 96 435 149 3,093 5,905 1-4pm 2,844 60 71 439 209 3,623 2,583 65 74 408 188 3,318 6,941 4-7pm 3,351 64 193 449 341 4,398 2,358 36 122 279 186 2,981 7,379 7am-7pm 9.802 232 378 1.897 923 13.232 10.374 240 451 1.935 841 13.841 27.073

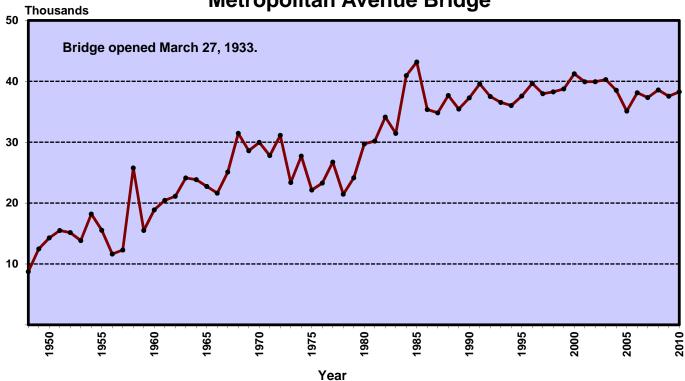
Based on 1989 Classification Survey Data

^{**} Peak Volumes

Hourly Vehicular Volumes Metropolitan Avenue Bridge ~ 2010



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



Hourly Vehicular Volumes Mill Basin Bridge - 2010

Eastbound Westbound Commuter Commercial Commuter Commercial 2-Wav **Buses** Trucks **Totals Buses** Vans Trucks **Totals** Autos Vans Vans Autos Vans Totals 12-1am 1.033 894 1.927 1-2am 573 520 1,093 ---------389 2-3am 325 714 3-4am 437 312 749 740 546 4-5am 1.286 ------------5-6am 1,895 1,835 3,730 ---6-7am 3,828 ---3,783 7,611 ---------------4,612 ** 5 7-8am 4.036 57 21 219 4.338 4.295 20 0 134 163 8.950 4,219 4,459 3,898 8-9am 17 15 16 192 50 0 113 199 4,260 8,719 9-10am 3,259 8 16 22 233 3,538 3,948 77 1 120 204 4,350 7,888 10-11am 3.126 8 11 13 86 3.244 3.599 18 0 39 65 3.721 6.965 5 11-12am 2,928 4 64 30 285 3,311 3,067 0 163 3,396 6,707 161 3,344 5 0 12-1pm 21 15 116 3,501 3,116 0 73 119 3,308 6,809 1-2pm 3,528 97 15 12 117 3.769 3.305 10 0 37 76 3.428 7.197 2-3pm 3,885 40 27 16 318 4,286 3,853 7 0 118 180 4,158 8,444 76 8,964 ** 3-4pm 4,255 25 16 6 153 4,455 4,234 0 83 4,509 116 2 4-5pm 3.992 13 38 239 4.289 4.086 41 127 193 4.449 8.738 3 3,893 4,242 32 4,584 5-6pm 6 17 13 189 4,118 137 170 8,702 6-7pm 3,478 4 14 5 178 3,679 3,992 3 1 106 154 4,256 7,935 7-8pm 3.506 3.750 7.256 ---------------------------8-9pm 3,308 3,104 6,412 ---------9-10pm 2,898 2,831 5,729 ---10-11pm 2.241 2.529 4.770 ------1,729 11-12pm 1,776 3,505 ---**Totals** 69,564 71,236 140.800 7-10am 11,514 82 52 43 644 12,335 12,141 147 367 566 13,222 25,557 10am-1pm 9.398 17 96 58 487 10.056 9.782 18 5 275 345 10.425 20.481 11,392 1-4pm 11.668 162 58 34 588 12.510 93 0 238 372 12,095 24,605 6 4-7pm 11,363 23 69 25 606 12,086 12,320 76 370 517 13,289 25,375

284

275

160

2,325

46,987

7am-7pm 43,943

96,018

45,635

334

12

1,250

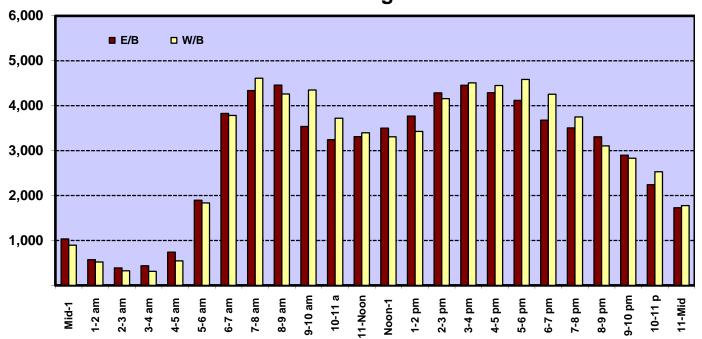
1,800

49,031

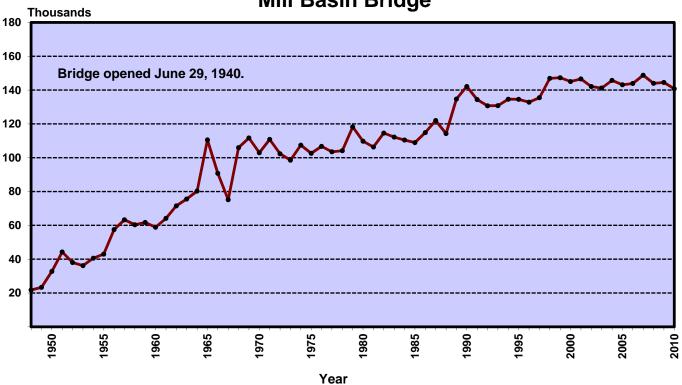
Based on 1989 Classification Survey Data

^{**} Peak Volumes

Hourly Vehicular Volumes Mill Basin Bridge ~ 2010



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

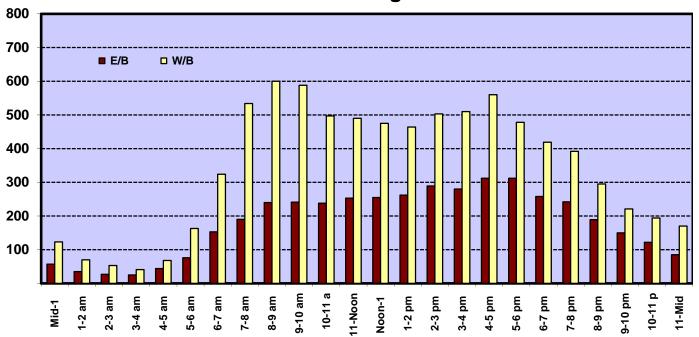


Hourly Vehicular Volumes Ninth Street Bridge - 2010

Eastbound Westbound Commercial 2-Way Commercial Commuter Commuter **Buses** Trucks **Totals Buses** Trucks **Totals** Vans Vans Autos Vans Vans Totals Autos 12-1am 1-2am 2-3am ---3-4am ------4-5am 5-6am 6-7am ------7-8am 8-9am 9-10am 10-11am 11-12am 12-1pm 1-2pm 2-3pm 3-4pm 312 ** 872 ** 4-5pm 312 ** 5-6pm 6-7pm 7-8pm ---8-9pm ---9-10pm ---10-11pm ---11-12pm **Totals** 4,335 8,232 12,567 7-10am 1,428 1.722 2.393 10am-1pm 1.069 1.462 2.208 1-4pm 1,165 1,477 2,308 4-7pm 1,216 1,457 2,339 7am-7pm 2,171 3.130 4.878 6.118 9.248

Based on 1989 Classification Survey Data

Hourly Vehicular Volumes Ninth Street Bridge ~ 2010



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



Hourly Vehicular Volumes Stillwell Avenue Bridge - 2010

Southbound

Northbound

2-Way Commuter Commercial Commuter Commercial **Buses** Trucks **Totals Buses** Trucks **Totals** Vans Vans Autos Vans Vans **Totals** Autos 12-1am 1-2am 2-3am ------3-4am ------4-5am 5-6am 6-7am ------7-8am 8-9am 9-10am 10-11am 11-12am 12-1pm 1-2pm 2-3pm 777 ** 3-4pm 420 ** 4-5pm 5-6pm 6-7pm 7-8pm ---8-9pm ---9-10pm ---10-11pm

2,884

11-12pm

7-10am

1-4pm

4-7pm

10am-1pm

7am-7pm

Totals

5,065

1,073

3.906

9,884

1,828

1.737

2,157

1,964

7,686

3.030

4,819

1,084

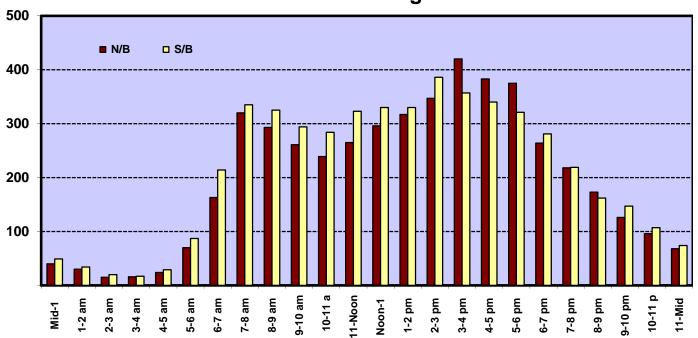
1,022

3,780

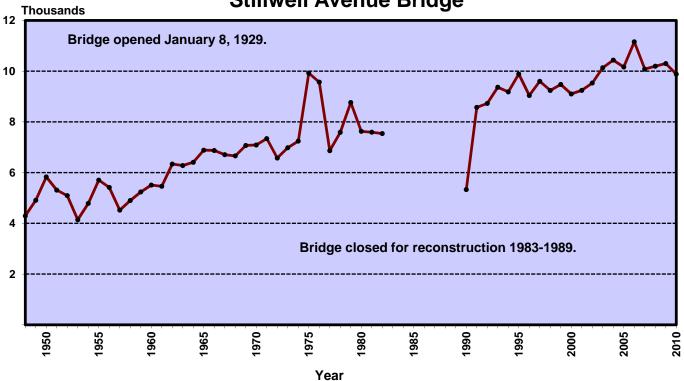
Based on 1989 Classification Survey Data

^{**} Peak Volumes

Hourly Vehicular Volumes Stillwell Avenue Bridge ~ 2010



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

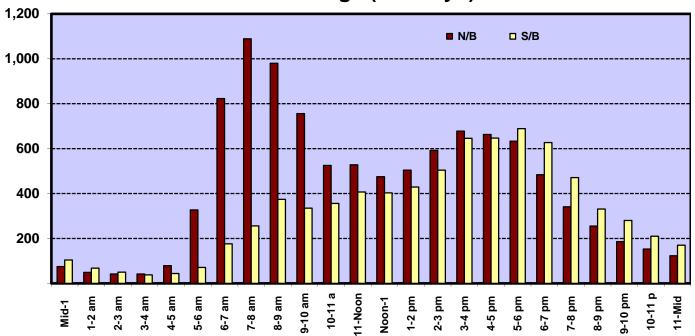


Hourly Vehicular Volumes Third Avenue Bridge - 2010

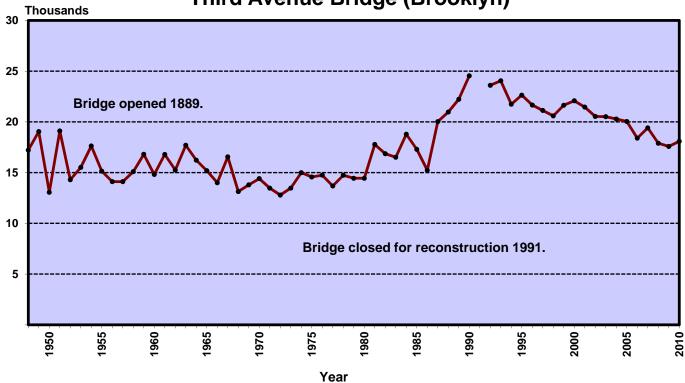
Northbound Southbound Commercial 2-Way Commuter Commercial Commuter **Buses** Trucks **Totals Buses** Trucks **Totals** Vans Vans Autos Vans Vans **Totals** Autos 12-1am 1-2am 2-3am ---3-4am ------4-5am 5-6am 6-7am ---------7-8am 1,089 1,345 1,354 ** 8-9am 1,091 9-10am 10-11am 11-12am 12-1pm 1-2pm 2-3pm 1,096 3-4pm 1,324 4-5pm 1,310 689 ** 5-6pm 1,322 6-7pm 1.111 7-8pm ---8-9pm ---9-10pm ---10-11pm ------11-12pm **Totals** 10,402 7,686 18,088 2,825 7-10am 2.152 3.790 1.267 1.528 1.166 2.694 10am-1pm 1-4pm 1,344 1,774 1,327 1,579 3,353 4-7pm 1,488 1,780 1,654 1,963 3,743 7am-7pm 6,251 7,907 4.635 5.673 13,580

Based on 1989 Classification Survey Data

Hourly Vehicular Volumes Third Avenue Bridge (Brooklyn) ~ 2010



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

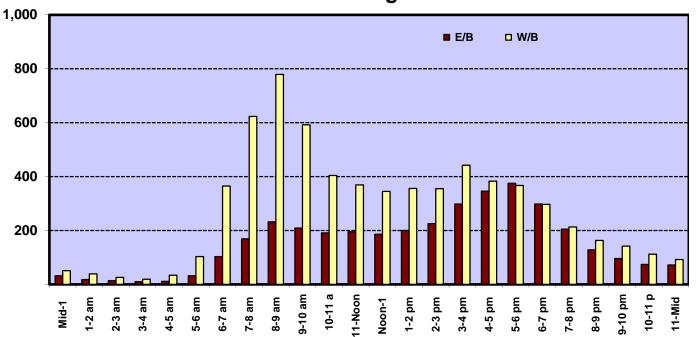


Hourly Vehicular Volumes Third Street Bridge - 2010

Eastbound Westbound Commercial 2-Way Commercial Commuter Commuter **Buses** Trucks **Totals Buses** Trucks **Totals** Vans Vans Autos Vans Vans **Totals** Autos 12-1am 1-2am 2-3am ---3-4am ---4-5am 5-6am 6-7am ---------7-8am 8-9am 1,011 9-10am 10-11am 11-12am 12-1pm 1-2pm 2-3pm 3-4pm 4-5pm 375 ** 5-6pm 6-7pm 7-8pm ---8-9pm ------9-10pm ---10-11pm 11-12pm **Totals** 3,719 6,671 10,390 7-10am 1.700 1.994 2.604 10am-1pm 1.118 1.690 1-4pm 1,153 1,876 4-7pm 1,019 1,047 2,066 7am-7pm 2,592 2,924 4.349 5,312 8,236

Based on 1989 Classification Survey Data

Hourly Vehicular Volumes Third Street Bridge ~ 2010



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

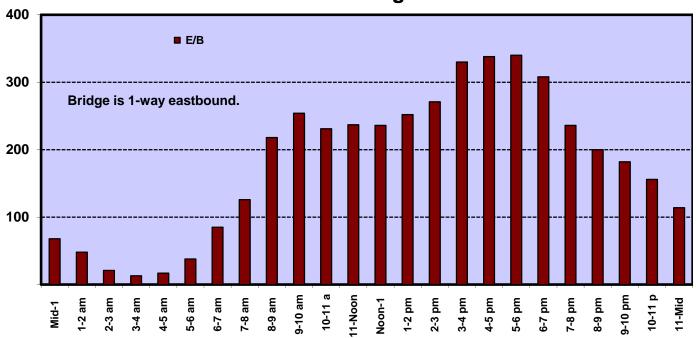


Hourly Vehicular Volumes Union Street Bridge - 2010

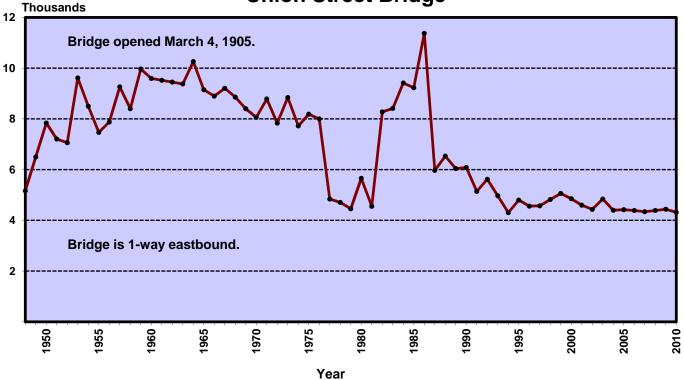
Eastbound Westbound Commercial Grand Commuter Commuter Commercial Buses Vans Trucks **Buses** Vans Trucks **Totals Totals** Vans Autos Vans Totals Autos 12-1am 1-2am 2-3am 3-4am 4-5am Bridge is 1-way eastbound 5-6am 6-7am ---7-8am 8-9am 9-10am 10-11am 11-12am 12-1pm 1-2pm 2-3pm 3-4pm 4-5pm 340 ** 340 ** 5-6pm 6-7pm 7-8pm 8-9pm 9-10pm 10-11pm 11-12pm 4,319 **Totals** 4,319 7-10am ---10am-1pm ---1-4pm 4-7pm ---7am-7pm 2,665 3.141 3,141

Based on 1989 Classification Survey Data

Hourly Vehicular Volumes Union Street Bridge ~ 2010





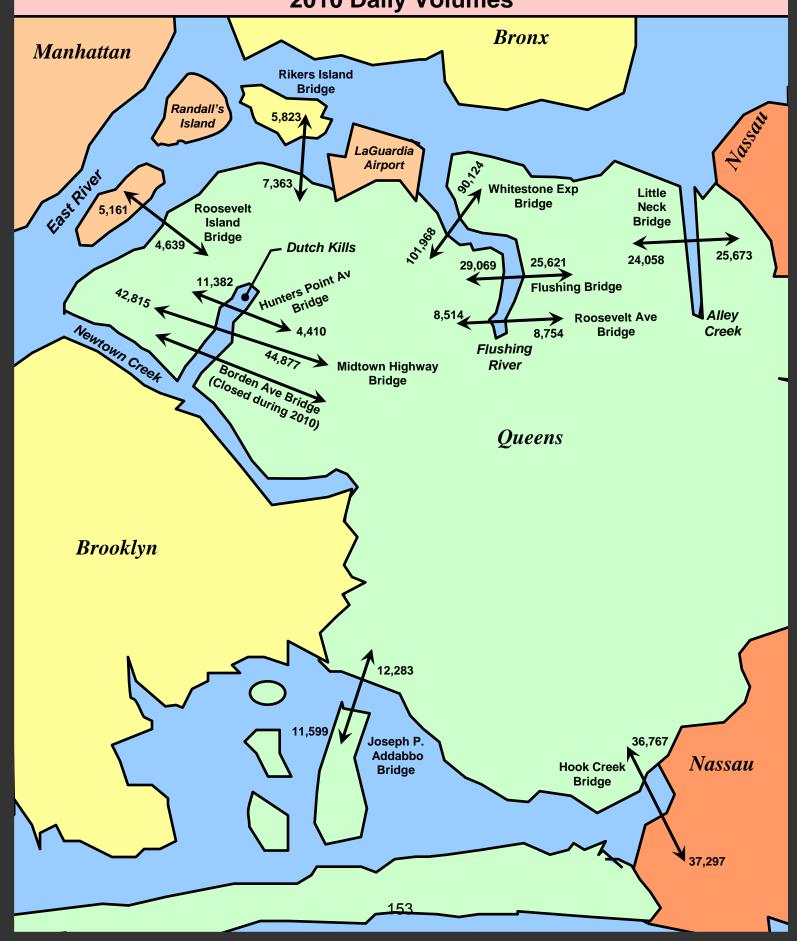


Queens Bridges



QUEENS BRIDGES

2010 Daily Volumes



Queens Bridges ~ Average Daily Traffic Volumes 1948 - 2010

| 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 1953 | 6,155 7,473 | 40,589 46,952 | 16,856 17,218 | 5,688 6,575 | 8,952 10,941 | 31,544 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 1958 | 7,759 7,833 | 53,836 43,075 | 18,691 28,031 | 7,018 5,735 | 6,192 12,763 | 38,387 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 1964 | 9,480 16,530 | 46,210 40,220 | 37,450 38,620 | 7,170 5,110 | 19,730 18,020 | 30,040 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 1970 | 11,083 10,318 | 47,945 47,311 | 51,067 44,588 | 7,073 6,544 | 18,957 20,937 | 38,901 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 1975 | 12,272 17,135 | 48,909 53,431 | 53,120 48,089 | 5,899 Closed | 19,541 18,971 | 39,506 37,741 |
| 1976 | 17,133 | 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 1981 | 15,068 18,630 | 48,856 42,040 | 45,169 50,566 | Closed Closed | 19,156 15,931 | 38,735 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 1986 | 18,723 14,714 | 64,382 64,371 | 50,458 56,735 | 4,755 5,870 | 21,619 18,480 | 42,737 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 1991 | 18,430 16,122 | 61,248 58,189 | 57,660 57,442 | 10,849 10,279 | 18,115 19,267 | 28,746 42,895 |
| 1992 | 13,146 | 61,306 | 64,502 | 10,279 | 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 1997 | 16,661 14,293 | 61,211 59,792 | 66,151 63,618 | 7,781 7,275 | 17,519 18,991 | 49,640 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 16,035 | 64,301 62,644 | 69,963 | 7,822 7,412 | 22,779 | 58,529 |
| 2003 2004 | 15,765 | 62,644 61,685 | 72,562 73,932 | 6,885 | 23,958 21,855 | 60,033 54,165 |
| 2004 | 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 |

^{*} North Channel Bridge.

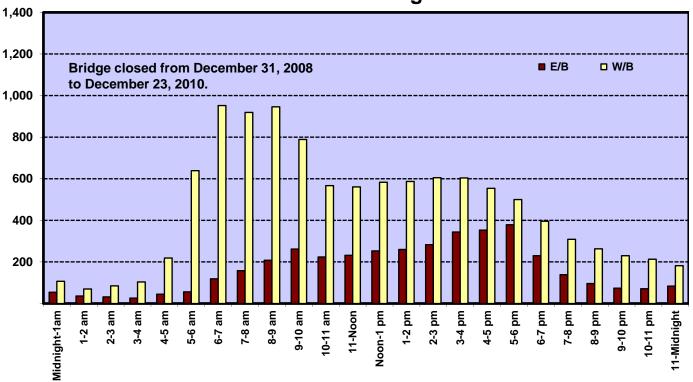
Queens Bridges (cont'd) ~ Average Daily Traffic Volumes 1948 - 2010

| Year | Midtown Highway Bridge | Rikers Island Bridge | Roosevelt Avenue Bridge | Roosevelt Island Bridge | Whitestone Expressway Bridge | Totals |
|--------------|------------------------------|----------------------------|-------------------------------|-------------------------------|------------------------------------|--------------------|
| 1948 | 28,754 | Bridge | 14,044 | Bridge | 27,290 | 147,106 |
| 1949 | 27,963 | opened | 18,907 | opened | 31,558 | 173,925 |
| 1950 1951 | 32,429 31,812 | 11/22/1966 | 20,451 9,330 | 05/18/1955 | 38,771 39,368 | 180,610 200,163 |
| 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 1956 | 39,650 49,944 | | 20,123 17,987 | 2,144 2,689 | 51,577 | 218,696 265,239 |
| 1957 | 49,944 47,481 | | 20,984 | 2,069 2,157 | 57,982 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 1961 | 62,051 62,520 | | 18,153 21,475 | 3,014 2,947 | 48,615 53,542 | 259,348 265,848 |
| 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 1967 | 68,752 72,962 | 1,973 | 18,728 21,493 | 4,133 5,973 | 71,795 110,363 | 313,379 354,637 |
| 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 1972 | 75,706 65,481 | 3,594 3,680 | 21,587 20,754 | 6,182 7,007 | 117,614 118,050 | 402,853 387,808 |
| 1973 | 73,292 | 4,850 | 20,734 | 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 1977 | 64,438 | 4,891 4,423 | 17,351 18,776 | 7,031 7,809 | 118,164 125,682 | 387,662 387,403 |
| 1978 | 60,501 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 1982 | 100,182 | 6,085 6,946 | 17,911 16,944 | 8,383 | 132,023 120,944 | 432,886 439,128 |
| 1983 | 100,182 88,132 | 7,807 | 15,051 | 8,064 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 1988 | 70,079 71,761 | 12,386 12,070 | 19,567 22,567 | 8,754 10,207 | 153,040 150,777 | 466,965 473,735 |
| 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 1993 | 72,144 64,368 | 15,579 14,206 | 23,687 28,012 | 9,751 9,830 | 145,669 146,440 | 484,835 467,195 |
| 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 1998 | 69,273 70,486 | 12,461 15,672 | 24,566 22,994 | 9,302 10,048 | 172,034 182,516 | 503,323 522,899 |
| 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 2004 | 84,243 82,732 | 16,966 14,979 | 20,281 19,652 | 9,203 9,100 | 188,770 188,869 | 562,107 549,619 |
| 2004 | 89,559 | 13,811 | 19,360 | 9,100 | 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 |

Hourly Vehicular Volumes Borden Avenue Bridge - 2010

| | | | Eastb | ound | | | | | | | | | |
|-----------------|--------|----------|----------------|-----------------|-------------------|--------|----------|--------|----------------|----------------|------------------|-------------|-----------------|
| | Autos | Buses | Commut Vans | er Co Trucks | ommercial Vans | Totals | Autos | Buses | Commut Vans | er C Trucks | ommercia Vans | l Totals | 2-Way Totals |
| 40.4 | 7.0.00 | | | | | | , 10.100 | 20.000 | 7 50 | | 7 070 | · Grane | 10.0.0 |
| 12-1am 1-2am | | | | | | | | | | | | | |
| 2-3am | | | | | | | | | | | | | |
| 3-4am | | Bridae d | losed in l | both direc | tions for | | | | | | | | |
| 4-5am | | | | ring 2009 | | | | | | | | | |
| 5-6am | | | | J | | | | | | | | | |
| 6-7am | | | | | | | | | | | | | |
| 7-8am | | | | | | | | | | | | | |
| 8-9am | | | | | | | | | | | | | |
| 9-10am | | | | | | | | | | | | | |
| 10-11am | | | | | | | | | | | | | |
| 11-12am | | | | | | | | | | | | | |
| 12-1pm | | | | | | | | | | | | | |
| 1-2pm | | | | | | | | | | | | | |
| 2-3pm | | | | | | | | | | | | | |
| 3-4pm 4-5pm | | | | | | | | | | | | | |
| 5-6pm | | | | | | | | | | | | | |
| 6-7pm | | | | | | | | | | | | | |
| 7-8pm | | | | | | | | | | | | | |
| 8-9pm | | | | | | | | | | | | | |
| 9-10pm | | | | | | | | | | | | | |
| 10-11pm | | | | | | | | | | | | | |
| 11-12pm | | | | | | | | | | | | | |
| Totals | | | | | | | | | | | | | |
| 7-10am | | | | | | | | | | | | | |
| 10am-1pm | | | | | | | | | | | | | |
| 1-4pm | | | | | | | | | | | | | |
| 4-7pm | | | | | | | | | | | | | |
| 7am-7pm | | | | | | | | | | | | | |

Hourly Vehicular Volumes Borden Avenue Bridge ~ 2008



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



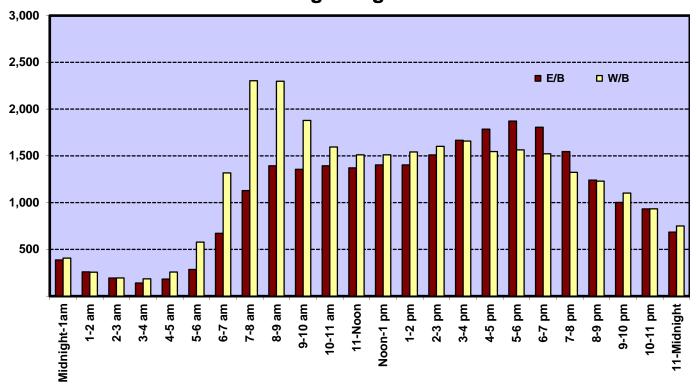
Hourly Vehicular Volumes Flushing Bridge - 2010

| _ | | | Eastb | ound | | | | | We | stbound | 1 | | | |
|----------|--------|-------|--------|--------|---------|----------|--------|---------------------|------|---------|-------|----------|----------|--|
| _ | | (| Commut | er C | ommerci | al | | Commuter Commercial | | | | | | |
| | Autos | Buses | Vans | Trucks | Vans | Totals | Autos | Buses | Vans | Trucks | Vans | Totals | Totals | |
| 12-1am | | | | | | 387 | | | | | | 407 | 794 | |
| 1-2am | | | | | | 260 | | | | | | 256 | 516 | |
| 2-3am | | | | | | 194 | | | | | | 195 | 389 | |
| 3-4am | | | | | | 141 | | | | | | 185 | 326 | |
| 4-5am | | | | | | 183 | | | | | | 258 | 441 | |
| 5-6am | | | | | | 285 | | | | | | 578 | 863 | |
| 6-7am | | | | | | 672 | | | | | | 1,318 | 1,990 | |
| 7-8am | 899 | 39 | 6 | 78 | 107 | 1,129 | 1,938 | 12 | 49 | 92 | 212 | 2,303 ** | 3,432 | |
| 8-9am | 1,120 | 27 | 16 | 107 | 124 | 1,394 | 1,863 | 22 | 46 | 122 | 245 | 2,298 | 3,692 ** | |
| 9-10am | 1,109 | 12 | 28 | 120 | 87 | 1,356 | 1,428 | 10 | 57 | 146 | 238 | 1,879 | 3,235 | |
| 10-11am | 1,223 | 15 | 18 | 63 | 75 | 1,394 | 1,414 | 12 | 15 | 71 | 83 | 1,595 | 2,989 | |
| 11-12am | 1,046 | 7 | 40 | 103 | 176 | 1,372 | 1,223 | 2 | 23 | 115 | 148 | 1,511 | 2,883 | |
| 12-1pm | 1,244 | 7 | 22 | 51 | 79 | 1,403 | 1,344 | 6 | 6 | 70 | 85 | 1,511 | 2,914 | |
| 1-2pm | 1,203 | 17 | 14 | 55 | 114 | 1,403 | 1,404 | 13 | 21 | 64 | 40 | 1,542 | 2,945 | |
| 2-3pm | 1,063 | 24 | 28 | 113 | 282 | 1,510 | 1,332 | 20 | 54 | 103 | 93 | 1,602 | 3,112 | |
| 3-4pm | 1,432 | 17 | 15 | 45 | 158 | 1,667 | 1,516 | 29 | 21 | 49 | 43 | 1,658 | 3,325 | |
| 4-5pm | 1,435 | 13 | 27 | 56 | 255 | 1,786 | 1,365 | 11 | 30 | 56 | 84 | 1,546 | 3,332 | |
| 5-6pm | 1,570 | 12 | 14 | 46 | 230 | 1,872 ** | 1,375 | 6 | 45 | 50 | 88 | 1,564 | 3,436 | |
| 6-7pm | 1,566 | 8 | 9 | 33 | 190 | 1,806 | 1,414 | 7 | 15 | 36 | 50 | 1,522 | 3,328 | |
| 7-8pm | , | | | | | 1,546 | , | | | | | 1,324 | 2,870 | |
| 8-9pm | | | | | | 1,241 | | | | | | 1,230 | 2,471 | |
| 9-10pm | | | | | | 1,002 | | | | | | 1,102 | 2,104 | |
| 10-11pm | | | | | | 933 | | | | | | 934 | 1,867 | |
| 11-12pm | | | | | | 685 | | | | | | 751 | 1,436 | |
| Totals | | | | | | 25,621 | | | | | | 29,069 | 54,690 | |
| 7-10am | 3,128 | 78 | 50 | 305 | 318 | 3,879 | 5,229 | 44 | 152 | 360 | 695 | 6,480 | 10,359 | |
| 10am-1pm | 3,513 | 29 | 80 | 217 | 330 | 4,169 | 3,981 | 20 | 44 | 256 | 316 | 4,617 | 8,786 | |
| 1-4pm | 3,698 | 58 | 57 | 213 | 554 | 4,580 | 4,252 | 62 | 96 | 216 | 176 | 4,802 | 9,382 | |
| 4-7pm | 4,571 | 33 | 50 | 135 | 675 | 5,464 | 4,154 | 24 | 90 | 142 | 222 | 4,632 | 10,096 | |
| 7am-7pm | 14,910 | 198 | 237 | 870 | 1,877 | 18,092 | 17,616 | 150 | 382 | 974 | 1,409 | 20,531 | 38,623 | |

Based on 1989 Classification Survey Data

^{**} Peak Volumes

Hourly Vehicular Volumes Flushing Bridge ~ 2010



Average Daily Traffic Volumes ~ Total of Both Directions Flushing Bridge



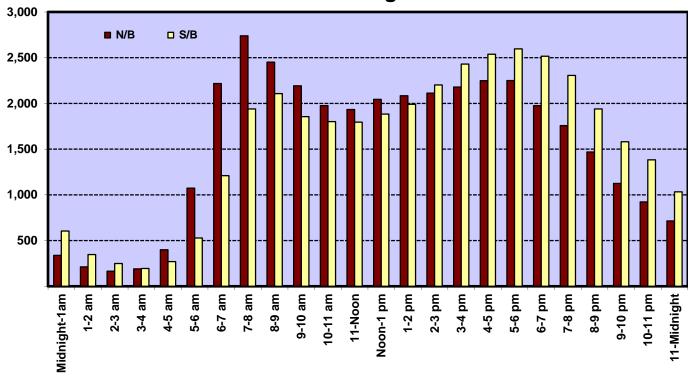
Hourly Vehicular Volumes Hook Creek Bridge - 2010

| _ | | | North | bound | | | | | Sou | thbound | 1 | | |
|----------|--------|-------|--------|--------|---------|----------|--------|-------|---------|---------|---------|----------|----------|
| _ | | | Commut | er Co | ommerci | al | | (| Commute | er Co | ommerci | ial | 2-Way |
| | Autos | Buses | Vans | Trucks | Vans | Totals | Autos | Buses | Vans | Trucks | Vans | Totals | Totals |
| 12-1am | | | | | | 338 | | | | | | 604 | 942 |
| 1-2am | | | | | | 212 | | | | | | 347 | 559 |
| 2-3am | | | | | | 165 | | | | | | 249 | 414 |
| 3-4am | | | | | | 190 | | | | | | 195 | 385 |
| 4-5am | | | | | | 399 | | | | | | 270 | 669 |
| 5-6am | | | | | | 1,073 | | | | | | 528 | 1,601 |
| 6-7am | | | | | | 2,218 | | | | | | 1,210 | 3,428 |
| 7-8am | 2,537 | 18 | 61 | 79 | 44 | 2,739 ** | 1,543 | 14 | 140 | 140 | 102 | 1,939 | 4,678 |
| 8-9am | 2,171 | 17 | 80 | 116 | 67 | 2,451 | 1,728 | 9 | 131 | 152 | 87 | 2,107 | 4,558 |
| 9-10am | 1,902 | 7 | 66 | 146 | 71 | 2,192 | 1,566 | 7 | 78 | 124 | 80 | 1,855 | 4,047 |
| 10-11am | 1,864 | 2 | 13 | 53 | 44 | 1,976 | 1,681 | 2 | 12 | 58 | 48 | 1,801 | 3,777 |
| 11-12am | 1,614 | 10 | 43 | 182 | 84 | 1,933 | 1,596 | 2 | 13 | 102 | 82 | 1,795 | 3,728 |
| 12-1pm | 1,927 | 9 | 27 | 60 | 21 | 2,044 | 1,804 | 0 | 12 | 42 | 25 | 1,883 | 3,927 |
| 1-2pm | 1,901 | 14 | 43 | 73 | 53 | 2,084 | 1,754 | 6 | 61 | 119 | 50 | 1,990 | 4,074 |
| 2-3pm | 1,892 | 16 | 47 | 83 | 75 | 2,113 | 1,994 | 3 | 33 | 93 | 79 | 2,202 | 4,315 |
| 3-4pm | 2,093 | 33 | 11 | 26 | 16 | 2,179 | 2,328 | 3 | 19 | 37 | 43 | 2,430 | 4,609 |
| 4-5pm | 2,131 | 11 | 26 | 45 | 35 | 2,248 | 2,375 | 3 | 41 | 55 | 64 | 2,538 | 4,786 |
| 5-6pm | 2,075 | 12 | 39 | 40 | 84 | 2,250 | 2,417 | 7 | 58 | 40 | 74 | 2,596 ** | 4,846 ** |
| 6-7pm | 1,879 | 12 | 42 | 23 | 19 | 1,975 | 2,402 | 4 | 49 | 35 | 26 | 2,516 | 4,491 |
| 7-8pm | | | | | | 1,757 | | | | | | 2,306 | 4,063 |
| 8-9pm | | | | | | 1,469 | | | | | | 1,939 | 3,408 |
| 9-10pm | | | | | | 1,125 | | | | | | 1,581 | 2,706 |
| 10-11pm | | | | | | 923 | | | | | | 1,383 | 2,306 |
| 11-12pm | | | | | | 714 | | | | | | 1,033 | 1,747 |
| Totals | | | | | | 36,767 | | | | | | 37,297 | 74,064 |
| 7-10am | 6,610 | 42 | 207 | 341 | 182 | 7,382 | 4,837 | 30 | 349 | 416 | 269 | 5,901 | 13,283 |
| 10am-1pm | 5,405 | 21 | 83 | 295 | 149 | 5,953 | 5,081 | 4 | 37 | 202 | 155 | 5,479 | 11,432 |
| 1-4pm | 5,886 | 63 | 101 | 182 | 144 | 6,376 | 6,076 | 12 | 113 | 249 | 172 | 6,622 | 12,998 |
| 4-7pm | 6,085 | 35 | 107 | 108 | 138 | 6,473 | 7,194 | 14 | 148 | 130 | 164 | 7,650 | 14,123 |
| 7am-7pm | 23,986 | 161 | 498 | 926 | 613 | 26,184 | 23,188 | 60 | 647 | 997 | 760 | 25,652 | 51,836 |

Based on 1989 Classification Survey Data

^{**} Peak Volumes

Hourly Vehicular Volumes Hook Creek Bridge ~ 2010



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



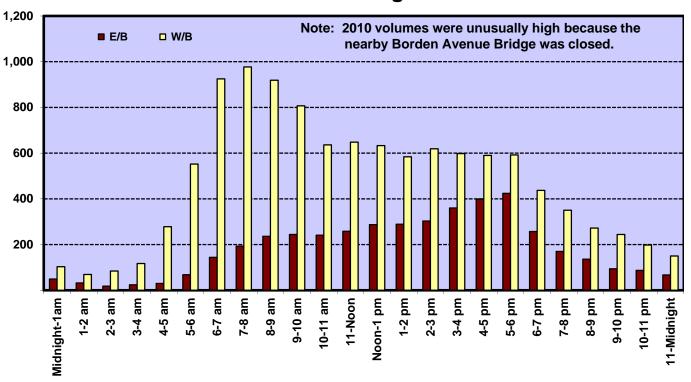
Hourly Vehicular Volumes Hunters Point Bridge - 2010

Volumes unusually high because the nearby Borden Avenue Bridge was closed in both directions during 2009 and 2010.

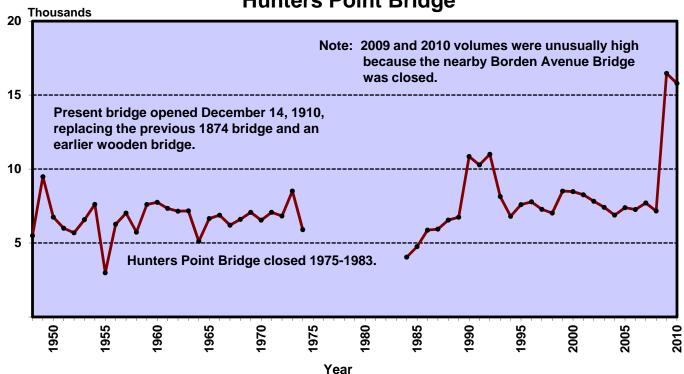
| _ | | | Eastb | ound | | | Westbound | | | | | | |
|----------|-------|-------|--------|--------|----------|--------|---------------------|-------|------|--------|------|--------|----------|
| _ | | (| Commut | er Co | ommercia | al | Commuter Commercial | | | | | | 2-Way |
| | Autos | Buses | Vans | Trucks | Vans | Totals | Autos | Buses | Vans | Trucks | Vans | Totals | Totals |
| 12-1am | | | | | | 49 | | | | | | 103 | 152 |
| 1-2am | | | | | | 32 | | | | | | 69 | 101 |
| 2-3am | | | | | | 18 | | | | | | 84 | 102 |
| 3-4am | | | | | | 24 | | | | | | 117 | 141 |
| 4-5am | | | | | | 30 | | | | | | 278 | 308 |
| 5-6am | | | | | | 68 | | | | | | 552 | 620 |
| 6-7am | | | | | | 144 | | | | | | 925 | 1,069 |
| 7-8am | 137 | 0 | 19 | 21 | 16 | 193 | 727 | 3 | 40 | 65 | 142 | 977 ** | 1,170 ** |
| 8-9am | 133 | 0 | 8 | 35 | 60 | 236 | 774 | 0 | 15 | 63 | 67 | 919 | 1,155 |
| 9-10am | 151 | 0 | 3 | 41 | 49 | 244 | 574 | 0 | 8 | 106 | 119 | 807 | 1,051 |
| 10-11am | 200 | 0 | 6 | 27 | 8 | 241 | 538 | 0 | 3 | 58 | 37 | 636 | 877 |
| 11-12am | 163 | 2 | 12 | 46 | 35 | 258 | 464 | 0 | 4 | 112 | 68 | 648 | 906 |
| 12-1pm | 210 | 0 | 11 | 33 | 33 | 287 | 504 | 0 | 4 | 75 | 50 | 633 | 920 |
| 1-2pm | 208 | 0 | 16 | 31 | 34 | 289 | 465 | 7 | 7 | 51 | 54 | 584 | 873 |
| 2-3pm | 179 | 0 | 26 | 49 | 49 | 303 | 445 | 21 | 3 | 77 | 73 | 619 | 922 |
| 3-4pm | 302 | 0 | 13 | 33 | 12 | 360 | 560 | 8 | 3 | 19 | 8 | 598 | 958 |
| 4-5pm | 289 | 0 | 22 | 32 | 56 | 399 | 414 | 88 | 4 | 21 | 63 | 590 | 989 |
| 5-6pm | 360 | 0 | 20 | 4 | 40 | 424 ** | 487 | 26 | 3 | 37 | 39 | 592 | 1,016 |
| 6-7pm | 215 | 2 | 4 | 10 | 26 | 257 | 371 | 10 | 7 | 13 | 36 | 437 | 694 |
| 7-8pm | | | | | | 170 | | | | | | 350 | 520 |
| 8-9pm | | | | | | 136 | | | | | | 272 | 408 |
| 9-10pm | | | | | | 94 | | | | | | 244 | 338 |
| 10-11pm | | | | | | 87 | | | | | | 198 | 285 |
| 11-12pm | | | | | | 67 | | | | | | 150 | 217 |
| Totals | | | | | | 4,410 | | | | | | 11,382 | 15,792 |
| 7-10am | 421 | 0 | 30 | 97 | 125 | 673 | 2,075 | 3 | 63 | 234 | 328 | 2,703 | 3,376 |
| 10am-1pm | 573 | 2 | 29 | 106 | 76 | 786 | 1,506 | 0 | 11 | 245 | 155 | 1,917 | 2,703 |
| 1-4pm | 689 | 0 | 55 | 113 | 95 | 952 | 1,470 | 36 | 13 | 147 | 135 | 1,801 | 2,753 |
| 4-7pm | 864 | 2 | 46 | 46 | 122 | 1,080 | 1,272 | 124 | 14 | 71 | 138 | 1,619 | 2,699 |
| 7am-7pm | 2,547 | 4 | 160 | 362 | 418 | 3,491 | 6,323 | 163 | 101 | 697 | 756 | 8,040 | 11,531 |

Based on 1989 Classification Survey Data

Hourly Vehicular Volumes Hunters Point Bridge ~ 2010



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



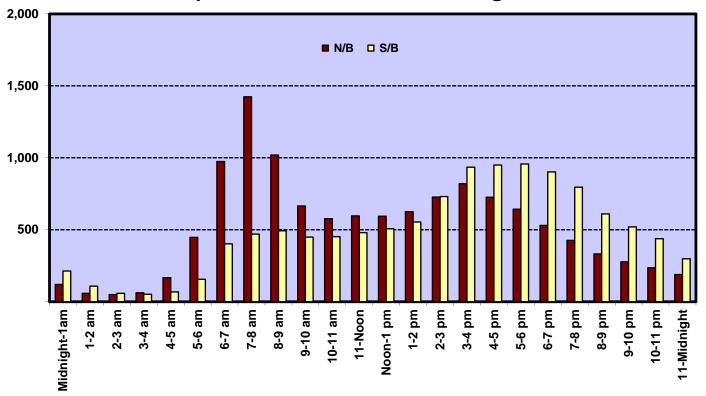
Hourly Vehicular Volumes Joseph P. Addabbo Memorial Bridge - 2010 (North Channel Bridge)

Northbound Southbound

| _ | | | NOTUI | oouna | | | Southbound | | | | | | |
|----------|-------|-------|--------|--------|----------|----------|---------------------|-------|------|--------|------|--------|---------|
| | | | Commut | | ommercia | al | Commuter Commercial | | | | | | 2-Way |
| | Autos | Buses | Vans | Trucks | Vans | Totals | Autos | Buses | Vans | Trucks | Vans | Totals | Totals |
| 12-1am | | | | | | 120 | | | | | | 213 | 333 |
| 1-2am | | | | | | 58 | | | | | | 108 | 166 |
| 2-3am | | | | | | 49 | | | | | | 58 | 107 |
| 3-4am | | | | | | 62 | | | | | | 52 | 114 |
| 4-5am | | | | | | 167 | | | | | | 68 | 235 |
| 5-6am | | | | | | 447 | | | | | | 156 | 603 |
| 6-7am | | | | | | 974 | | | | | | 402 | 1,376 |
| 7-8am | 1,302 | 36 | 22 | 25 | 39 | 1,424 ** | 343 | 23 | 6 | 37 | 61 | 470 | 1,894 * |
| 8-9am | 862 | 29 | 20 | 41 | 67 | 1,019 | 365 | 26 | 1 | 40 | 61 | 493 | 1,512 |
| 9-10am | 551 | 8 | 7 | 62 | 37 | 665 | 310 | 18 | 3 | 55 | 63 | 449 | 1,114 |
| 10-11am | 525 | 10 | 7 | 26 | 9 | 577 | 391 | 12 | 0 | 19 | 30 | 452 | 1,029 |
| 11-12am | 474 | 8 | 8 | 58 | 48 | 596 | 350 | 8 | 0 | 51 | 71 | 480 | 1,076 |
| 12-1pm | 514 | 16 | 0 | 33 | 31 | 594 | 454 | 11 | 0 | 17 | 25 | 507 | 1,101 |
| 1-2pm | 580 | 4 | 4 | 20 | 17 | 625 | 506 | 6 | 0 | 14 | 28 | 554 | 1,179 |
| 2-3pm | 598 | 22 | 11 | 52 | 44 | 727 | 584 | 30 | 4 | 30 | 83 | 731 | 1,458 |
| 3-4pm | 737 | 25 | 12 | 22 | 24 | 820 | 816 | 27 | 0 | 27 | 65 | 935 | 1,755 |
| 4-5pm | 605 | 32 | 13 | 44 | 32 | 726 | 806 | 10 | 3 | 33 | 98 | 950 | 1,676 |
| 5-6pm | 563 | 10 | 16 | 29 | 25 | 643 | 873 | 6 | 0 | 19 | 59 | 957 ** | 1,600 |
| 6-7pm | 445 | 8 | 18 | 23 | 36 | 530 | 811 | 7 | 4 | 11 | 69 | 902 | 1,432 |
| 7-8pm | | | | | | 426 | | | | | | 796 | 1,222 |
| 8-9pm | | | | | | 332 | | | | | | 610 | 942 |
| 9-10pm | | | | | | 277 | | | | | | 520 | 797 |
| 10-11pm | | | | | | 236 | | | | | | 438 | 674 |
| 11-12pm | | | | | | 189 | | | | | | 298 | 487 |
| Totals | | | | | | 12,283 | | | | | | 11,599 | 23,882 |
| 7-10am | 2,715 | 73 | 49 | 128 | 143 | 3,108 | 1,018 | 67 | 10 | 132 | 185 | 1,412 | 4,520 |
| 10am-1pm | 1,513 | 34 | 15 | 117 | 88 | 1,767 | 1,195 | 31 | 0 | 87 | 126 | 1,439 | 3,206 |
| 1-4pm | 1,915 | 51 | 27 | 94 | 85 | 2,172 | 1,906 | 63 | 4 | 71 | 176 | 2,220 | 4,392 |
| 4-7pm | 1,613 | 50 | 47 | 96 | 93 | 1,899 | 2,490 | 23 | 7 | 63 | 226 | 2,809 | 4,708 |
| 7am-7pm | 7,756 | 208 | 138 | 435 | 409 | 8,946 | 6,609 | 184 | 21 | 353 | 713 | 7,880 | 16,826 |

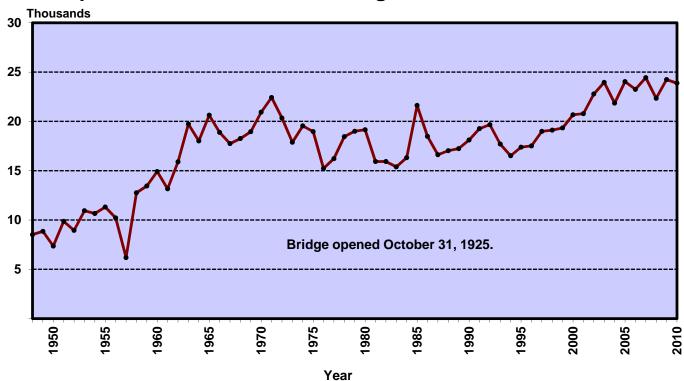
Based on 1989 Classification Survey Data

Hourly Vehicular Volumes Joseph P. Addabbo Memorial Bridge ~ 2010



Average Daily Traffic Volumes

Joseph P. Addabbo Memorial Bridge ~ Total of Both Directions

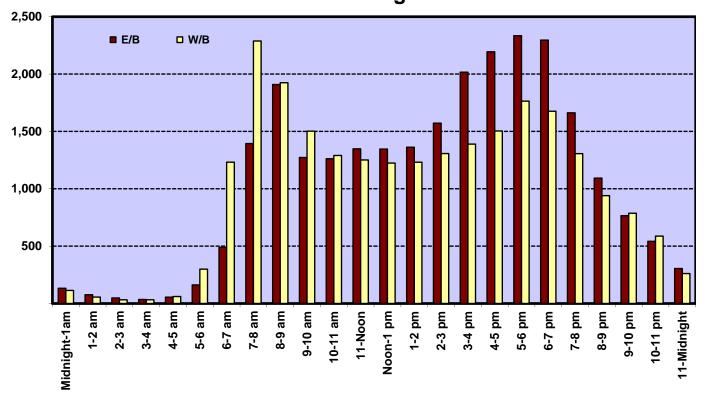


Hourly Vehicular Volumes Little Neck Bridge - 2010

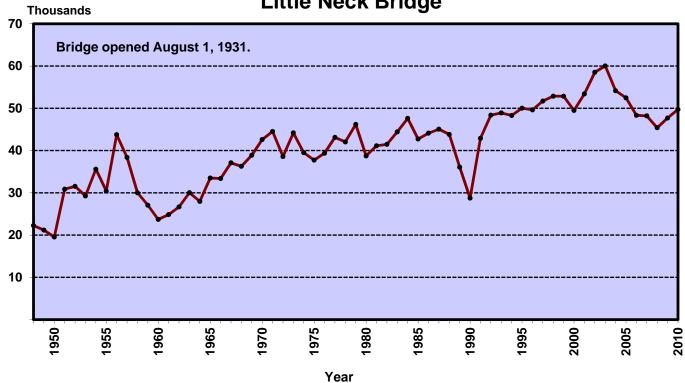
Eastbound Westbound

| _ | | | Easik | ouna | | | westbound | | | | | | |
|----------|--------|-------|--------|--------|---------|----------|---------------------|-------|------|--------|------|----------|--------|
| _ | | (| Commut | er Co | ommerci | al | Commuter Commercial | | | | | | 2-Way |
| | Autos | Buses | Vans | Trucks | Vans | Totals | Autos | Buses | Vans | Trucks | Vans | Totals | Total |
| 12-1am | | | | | | 133 | | | | | | 114 | 247 |
| 1-2am | | | | | | 76 | | | | | | 56 | 132 |
| 2-3am | | | | | | 48 | | | | | | 32 | 80 |
| 3-4am | | | | | | 35 | | | | | | 32 | 67 |
| 4-5am | | | | | | 55 | | | | | | 61 | 116 |
| 5-6am | | | | | | 162 | | | | | | 299 | 461 |
| 6-7am | | | | | | 490 | | | | | | 1,232 | 1,722 |
| 7-8am | 1,136 | 36 | 64 | 98 | 60 | 1,394 | 2,049 | 84 | 7 | 42 | 106 | 2,288 ** | 3,682 |
| 8-9am | 1,682 | 26 | 79 | 70 | 52 | 1,909 | 1,760 | 49 | 3 | 36 | 76 | 1,924 | 3,833 |
| 9-10am | 1,122 | 16 | 50 | 62 | 23 | 1,273 | 1,379 | 8 | 0 | 40 | 75 | 1,502 | 2,775 |
| 10-11am | 1,151 | 9 | 28 | 44 | 30 | 1,262 | 1,219 | 11 | 0 | 27 | 33 | 1,290 | 2,552 |
| l1-12am | 1,182 | 13 | 30 | 68 | 55 | 1,348 | 1,117 | 7 | 0 | 69 | 58 | 1,251 | 2,599 |
| 12-1pm | 1,265 | 14 | 10 | 44 | 13 | 1,346 | 1,143 | 10 | 0 | 27 | 44 | 1,224 | 2,570 |
| 1-2pm | 1,260 | 10 | 23 | 34 | 35 | 1,362 | 1,174 | 3 | 0 | 22 | 33 | 1,232 | 2,594 |
| 2-3pm | 1,337 | 17 | 65 | 88 | 65 | 1,572 | 1,172 | 10 | 0 | 42 | 83 | 1,307 | 2,879 |
| 3-4pm | 1,904 | 23 | 21 | 43 | 25 | 2,016 | 1,317 | 10 | 0 | 15 | 47 | 1,389 | 3,405 |
| 4-5pm | 1,847 | 16 | 84 | 149 | 98 | 2,194 | 1,350 | 16 | 0 | 40 | 98 | 1,504 | 3,698 |
| 5-6pm | 2,090 | 23 | 63 | 53 | 105 | 2,334 ** | 1,677 | 13 | 0 | 10 | 64 | 1,764 | 4,098 |
| 6-7pm | 2,115 | 22 | 65 | 51 | 43 | 2,296 | 1,601 | 9 | 0 | 7 | 59 | 1,676 | 3,972 |
| 7-8pm | | | | | | 1,662 | | | | | | 1,306 | 2,968 |
| 8-9pm | | | | | | 1,093 | | | | | | 940 | 2,033 |
| 9-10pm | | | | | | 766 | | | | | | 787 | 1,553 |
| 10-11pm | | | | | | 542 | | | | | | 587 | 1,129 |
| 11-12pm | | | | | | 305 | | | | | | 261 | 566 |
| Totals | | | | | | 25,673 | | | | | | 24,058 | 49,731 |
| 7-10am | 3,940 | 78 | 193 | 230 | 135 | 4,576 | 5,188 | 141 | 10 | 118 | 257 | 5,714 | 10,290 |
| 10am-1pm | 3,598 | 36 | 68 | 156 | 98 | 3,956 | 3,479 | 28 | 0 | 123 | 135 | 3,765 | 7,721 |
| 1-4pm | 4,501 | 50 | 109 | 165 | 125 | 4,950 | 3,663 | 23 | 0 | 79 | 163 | 3,928 | 8,878 |
| 4-7pm | 6,052 | 61 | 212 | 253 | 246 | 6,824 | 4,628 | 38 | 0 | 57 | 221 | 4,944 | 11,768 |
| 7am-7pm | 18,091 | 225 | 582 | 804 | 604 | 20,306 | 16,958 | 230 | 10 | 377 | 776 | 18,351 | 38,657 |

Hourly Vehicular Volumes Little Neck Bridge ~ 2010



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



Hourly Vehicular Volumes Midtown Highway Bridge - 2010

Eastbound Westbound 2-Way Commercial Commuter Commercial Commuter **Buses** Trucks **Buses** Trucks Vans Vans Totals Vans Vans **Totals Totals** Autos Autos 12-1am 1,086 592 1,678 601 279 1-2am 880 2-3am 364 127 491 ---3-4am 297 152 449 ------752 4-5am 475 277 5-6am 873 951 1,824 6-7am 2.321 3.798 ---1.477 ---------------7-8am 1,781 2,630 143 3,215 4,996 1,455 74 15 143 94 66 117 259 8-9am 1,391 112 15 120 91 1,729 3,177 74 72 147 294 3,764 5,493 3,233 77 112 9-10am 1.216 131 11 143 97 1,598 2,602 182 260 4.831 10-11am 1,817 64 3 58 76 2,018 2,209 28 32 65 87 2,421 4,439 11-12am 1,820 50 7 119 109 2,105 1,920 18 106 119 133 2,296 4,401 12-1pm 2.180 29 22 88 94 2.413 1.891 8 64 72 64 2.099 4.512 1-2pm 2,172 37 80 172 286 2,747 1,655 20 130 140 132 2,077 4,824 2,601 3,045 1,784 86 2,247 5,292 2-3pm 16 66 157 205 107 150 120 3-4pm 2,968 30 33 57 126 3.214 ** 1,989 78 80 62 89 2.298 5,512 4-5pm 2,625 23 75 95 303 3,121 1,906 198 160 54 178 2,496 5,617 2,730 23 2,493 5-6pm 21 53 244 3,071 2,049 105 118 108 5,564 113 6-7pm 2.441 9 26 57 144 2.677 2.048 31 59 55 63 2.256 4.933 7-8pm 2,347 1,933 4,280 ---------2,143 1,491 3,634 8-9pm ---9-10pm 2.042 1.380 3,422 ---10-11pm 1,959 1,363 3,322 ---11-12pm 1,694 1,054 2,748 42,815 **Totals** 44,877 87,692 7-10am 4.062 317 282 5,108 8,409 294 10,212 15,320 41 406 250 446 813 5.817 32 265 279 6.536 6.020 54 202 13.352 10am-1pm 143 256 284 6.816 1-4pm 7,741 83 179 386 617 9,006 5,428 184 317 352 341 6,622 15,628

55

598

122

374

205

1.262

691

1.869

8,869

29.519

7,796

25,416

4-7pm

7am-7pm

16,114

60,414

6,003

25.860

334

866

337

1.106

217

1.271

354

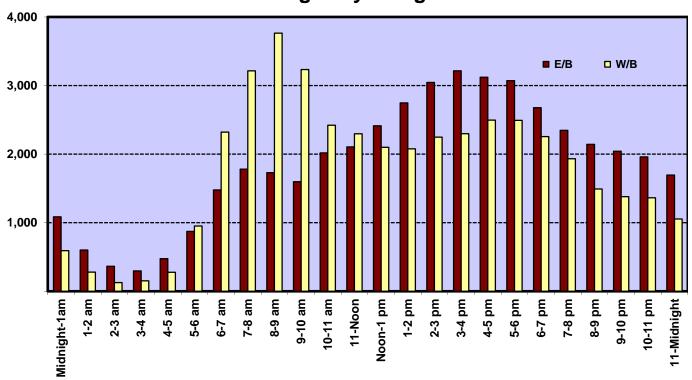
1.792

7,245

30.895

Based on 1989 Classification Survey Data

Hourly Vehicular Volumes Midtown Highway Bridge ~ 2010





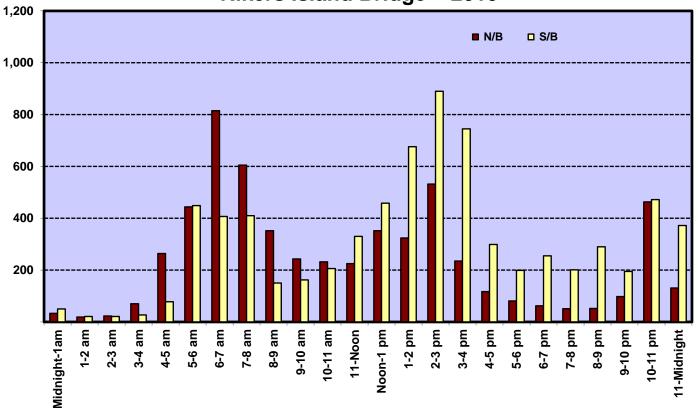


Hourly Vehicular Volumes Rikers Island Bridge - 2010

Northbound Southbound 2-Way Commuter Commercial Commuter Commercial **Buses** Trucks **Buses** Trucks Vans Vans Totals Autos Vans Vans **Totals Totals** Autos 12-1am 1-2am 2-3am 3-4am 4-5am 5-6am 1.222 6-7am ------7-8am 1,015 8-9am 9-10am 10-11am 11-12am 12-1pm 1-2pm 1,000 1,422 ** 2-3pm 3-4pm 4-5pm 5-6pm 6-7pm 7-8pm ---8-9pm 9-10pm 10-11pm 11-12pm **Totals** 5,823 7,363 13,186 1,200 7-10am 1.922 1.803 10am-1pm 1-4pm 1,091 2,056 2,311 3,402 4-7pm 1,013 7am-7pm 2,779 3.360 4.106 4.780 8,140

Based on 1989 Classification Survey Data

Hourly Vehicular Volumes Rikers Island Bridge ~ 2010



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



Hourly Vehicular Volumes Roosevelt Avenue Bridge - 2010

Eastbound Westbound Commercial 2-Way Commercial Commuter Commuter **Buses** Trucks **Buses** Trucks **Totals** Vans Vans Totals Autos Vans Vans **Totals** Autos 12-1am 1-2am 2-3am 3-4am 4-5am 5-6am 6-7am ---------7-8am 8-9am 1,027 9-10am 10-11am 11-12am 12-1pm 1-2pm 2-3pm 3-4pm 1,128 4-5pm 1,188 709 ** 5-6pm 1,265 1,273 ** 6-7pm 7-8pm ---8-9pm 9-10pm 10-11pm ---11-12pm **Totals** 8,754 8,514 17,268 7-10am 1.260 1,304 1,538 2.798 1.320 1.286 1.378 2.698 10am-1pm 1.141 1-4pm 1,316 1,560 1,361 1,494 3,054 4-7pm 1,639 2,026 1,586 1,700 3,726

6,166

5,085

7am-7pm

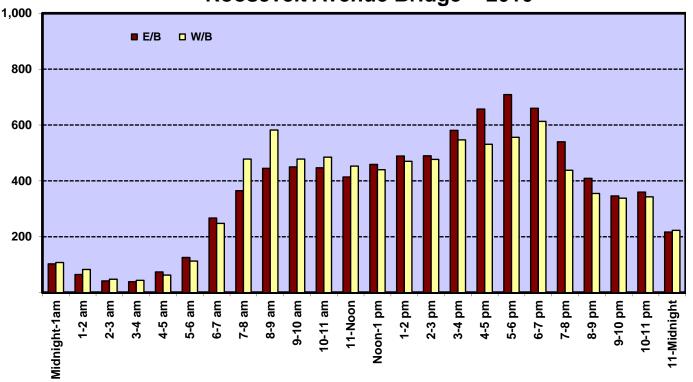
12,276

5.537

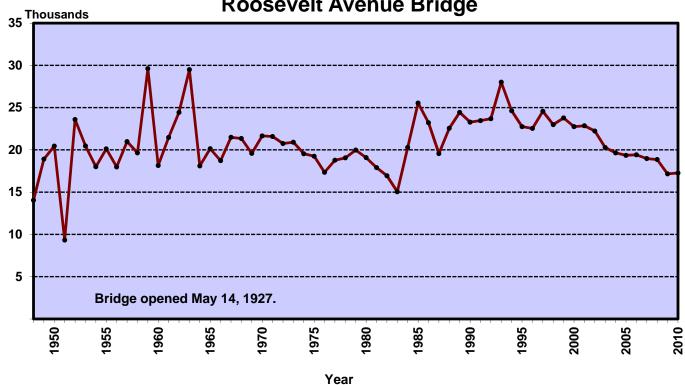
6,110

Based on 1989 Classification Survey Data

Hourly Vehicular Volumes Roosevelt Avenue Bridge ~ 2010



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



Hourly Vehicular Volumes Roosevelt Island Bridge - 2010

Eastbound Westbound 2-Way Commuter Commercial Commuter Commercial **Buses** Trucks **Buses** Trucks **Totals** Vans Vans Totals Autos Vans Vans **Totals** Autos 12-1am 1-2am 2-3am 3-4am 4-5am 5-6am 6-7am ------840 ** 567 ** 7-8am 8-9am 9-10am 10-11am 11-12am 12-1pm 1-2pm 2-3pm 3-4pm 4-5pm 5-6pm 6-7pm 7-8pm ---8-9pm ---9-10pm 10-11pm ---11-12pm **Totals** 4,639 5,161 9,800 1,202 7-10am 1.083 1,973 10am-1pm 1.201 1-4pm 1,724 4-7pm 1,047 1,789

3,275

2,887

7am-7pm

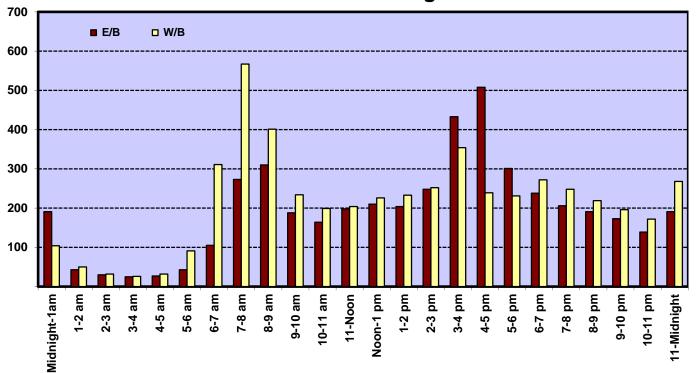
6,687

3.040

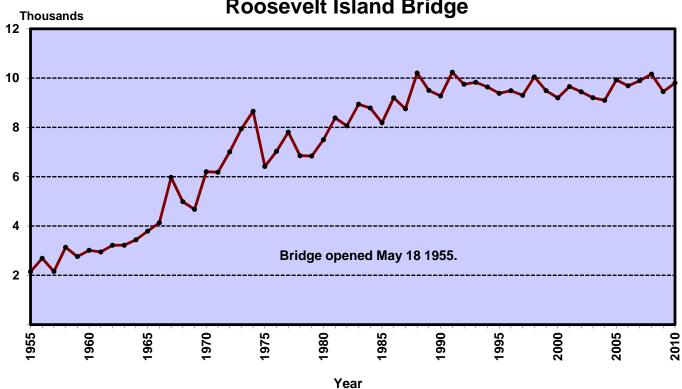
3.412

Based on 1989 Classification Survey Data

Hourly Vehicular Volumes Roosevelt Island Bridge ~ 2010



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



Hourly Vehicular Volumes Whitestone Expressway Bridge - 2010

Northbound Southbound Commercial 2-Way Commercial Commuter Commuter **Buses Buses** Trucks Vans Trucks Vans Totals Vans Vans **Totals Totals** Autos Autos 12-1am 1,550 1,277 2,827 904 839 1-2am 1,743 2-3am 644 725 1,369 3-4am 698 863 1.561 ------4-5am 1,004 1,537 2,541 5-6am 2,146 3.628 5,774 6-7am 3.878 6.761 10.639 ---------------------7,483 ** 7-8am 4,368 269 5,189 5,975 62 532 12,672 83 158 311 244 670 8-9am 4,274 66 255 340 210 5,145 5,827 76 199 495 423 7,020 12,165 4,587 3.331 79 5.854 9.996 9-10am 66 156 393 196 4.142 207 540 441 22 3,339 10-11am 34 79 228 139 3,819 4,734 118 221 126 5,221 9,040 11-12am 2,949 25 145 501 252 3,872 3,943 25 212 485 258 4,923 8,795 12-1pm 3.613 63 58 235 118 4.087 4.280 31 104 240 166 4.821 8.908 1-2pm 4,070 56 40 212 114 4,492 4,405 64 100 283 177 5,029 9,521 4,332 4,332 77 506 5,399 2-3pm 61 131 445 371 5,340 174 310 10,739 3-4pm 5,351 25 74 211 215 5,876 5.146 94 116 222 160 5.738 11,614 4-5pm 5,164 22 143 293 352 5,974 4,893 58 213 382 286 5,832 11,806 6,011 ** 5,264 30 228 5,424 26 5,995 5-6pm 143 346 158 224 163 12,006 6-7pm 5.241 45 145 149 282 5.862 5.207 10 176 107 148 5.648 11.510 7-8pm 5,148 4,831 9,979 ---8-9pm 4,399 4,002 8,401 ---9-10pm 3.893 3,535 7,428 ---10-11pm 3,492 2,896 6,388 11-12pm 2,559 2,111 4,670 **Totals** 90,124 101,968 192,092 7-10am 11.973 717 14.476 16,389 217 1,534 20.357 34.833 215 569 1.002 650 1.567 9.901 282 11.778 12.957 434 14.965 10am-1pm 122 964 509 78 946 550 26.743 1-4pm 13,753 142 245 868 700 15,708 13,883 235 390 1,011 647 16,166 31,874 4-7pm 15,669 97 431 670 980 17,847 15,524 94 597 17,475 35,322 547 713

576

1.527

3.504

2.906

59.809

51,296

7am-7pm

128,772

58.753

624

2,021

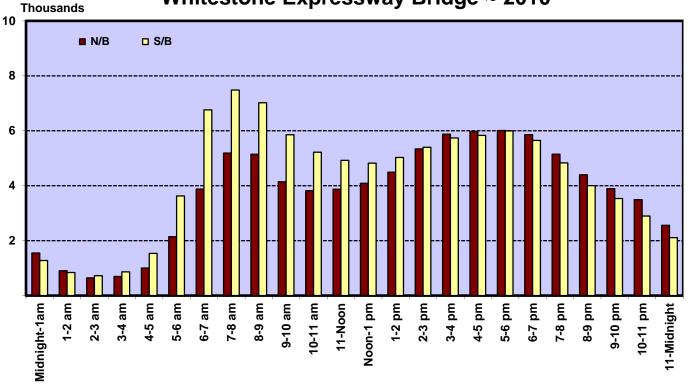
4.237

3.328

68.963

Based on 1989 Classification Survey Data

Hourly Vehicular Volumes Whitestone Expressway Bridge ~ 2010





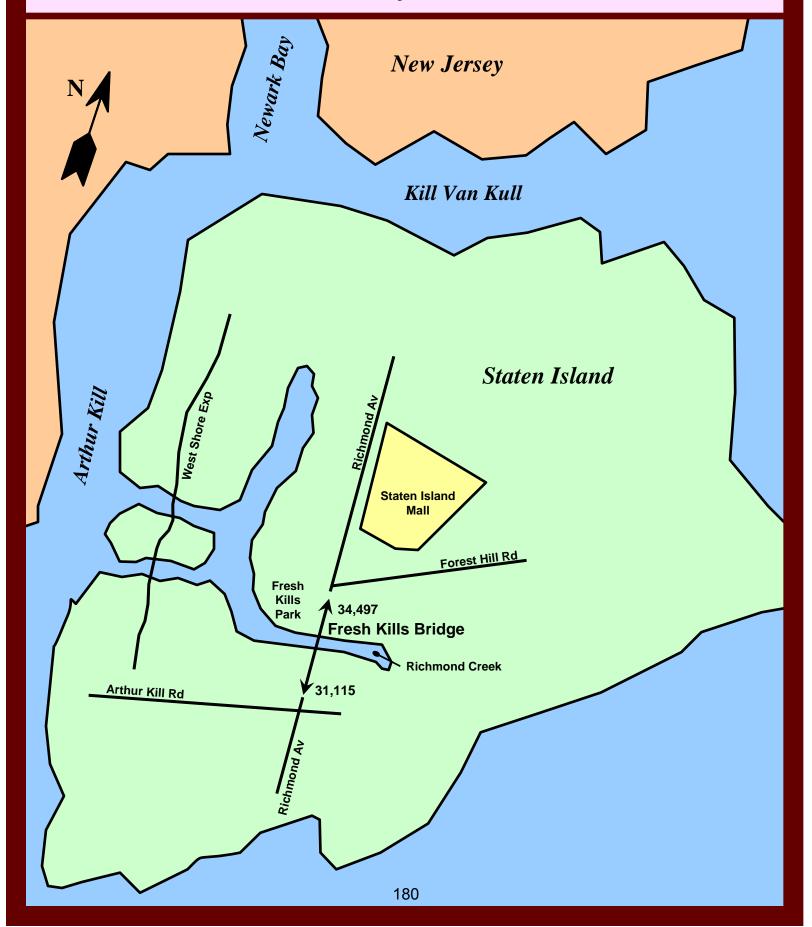


Staten Island ~ Fresh Kills Bridge



Staten Island ~ Fresh Kills Bridge

2010 Daily Volumes



Staten Island Bridges Average Daily Traffic Volumes 1948 - 2010

| Year | Fresh Kills |
|--------------|------------------|
| 1948 | 5,597 |
| 1949 | 5,759 |
| 1950 1951 | 6,250 8,023 |
| 1952 | 7,891 |
| 1953 | 7,858 |
| 1954 1955 | 9,098 9,841 |
| 1956 | 9,415 |
| 1957 | 9,897 |
| 1958 1959 | 10,121 8,573 |
| 1960 | 8,147 |
| 1961 | 10,270 |
| 1962 1963 | 9,400 12,450 |
| 1964 | 15,010 |
| 1965 | 15,539 |
| 1966 | 17,175 17,309 |
| 1967 1968 | 17,309 |
| 1969 | 22,379 |
| 1970 | 21,631 |
| 1971 1972 | 26,744 28.455 |
| 1973 | 37,213 |
| 1974 | 36,207 |
| 1975 1976 | 38,684 34,675 |
| 1977 | 30,295 |
| 1978 | 34,467 |
| 1979 1980 | 36,806 |
| 1981 | 41,604 46,947 |
| 1982 | 68,481 |
| 1983 | 46,450 |
| 1984 1985 | 50,341 53,590 |
| 1986 | 44,230 |
| 1987 | 50,372 |
| 1988 1989 | 50,385 36,550 |
| 1990 | 53,442 |
| 1991 | 49,197 |
| 1992 1993 | 48,507 49,969 |
| 1994 | 48,562 |
| 1995 | 47,132 |
| 1996 1997 | 49,740 51,738 |
| 1998 | 53,770 |
| 1999 | 65,577 |
| 2000 | 66,980 |
| 2001 2002 | 67,465 64,563 |
| 2002 | 66,155 |
| 2004 | 64,705 |
| 2005 | 66,816 |
| 2006 | 65,274 |
| 2007 | 68,997 64,734 |
| 2008 2009 | 64,724 64,490 |
| 2010 | 65,612 |
| = | 30,0.2 |

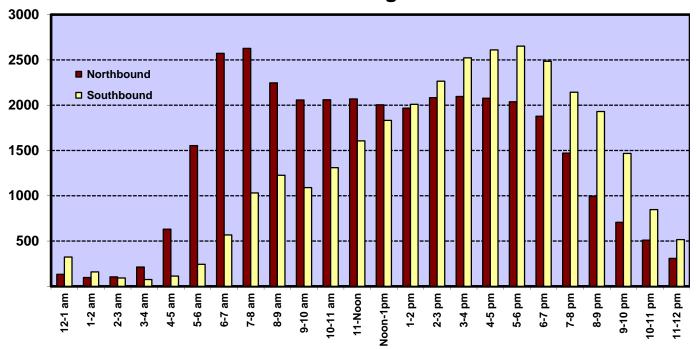
Hourly Vehicular Volumes Fresh Kills Bridge - 2010

| _ | Northbound Northbound | | | | | | | Southbound | | | | | | |
|----------|-----------------------|-------|--------|--------|---------|----------|--------|------------|------|--------|------|----------|----------|--|
| _ | | | Commut | er Co | ommerci | al | | 2-Way | | | | | | |
| | Autos | Buses | Vans | Trucks | Vans | Totals | Autos | Buses | Vans | Trucks | Vans | Totals | Totaİs | |
| 12-1am | | | | | | 133 | | | | | | 323 | 456 | |
| 1-2am | | | | | | 97 | | | | | | 159 | 256 | |
| 2-3am | | | | | | 104 | | | | | | 92 | 196 | |
| 3-4am | | | | | | 213 | | | | | | 75 | 288 | |
| 4-5am | | | | | | 631 | | | | | | 113 | 744 | |
| 5-6am | | | | | | 1,554 | | | | | | 243 | 1,797 | |
| 6-7am | | | | | | 2,572 | | | | | | 567 | 3,139 | |
| 7-8am | 1,382 | 144 | 418 | 463 | 220 | 2,627 ** | 899 | 60 | 6 | 36 | 30 | 1,031 | 3,658 | |
| 8-9am | 964 | 212 | 417 | 510 | 143 | 2,246 | 1,092 | 23 | 4 | 71 | 36 | 1,226 | 3,472 | |
| 9-10am | 1,470 | 26 | 216 | 291 | 54 | 2,057 | 953 | 17 | 4 | 78 | 38 | 1,090 | 3,147 | |
| 10-11am | 1,798 | 40 | 81 | 118 | 23 | 2,060 | 1,224 | 14 | 0 | 46 | 26 | 1,310 | 3,370 | |
| 11-12am | 1,475 | 77 | 187 | 293 | 37 | 2,069 | 1,394 | 14 | 2 | 128 | 68 | 1,606 | 3,675 | |
| 12-1pm | 1,675 | 28 | 91 | 177 | 33 | 2,004 | 1,655 | 37 | 0 | 92 | 48 | 1,832 | 3,836 | |
| 1-2pm | 1,727 | 52 | 68 | 80 | 40 | 1,967 | 1,834 | 77 | 0 | 71 | 28 | 2,010 | 3,977 | |
| 2-3pm | 1,576 | 90 | 150 | 241 | 26 | 2,083 | 1,874 | 66 | 0 | 214 | 111 | 2,265 | 4,348 | |
| 3-4pm | 1,816 | 92 | 85 | 89 | 14 | 2,096 | 2,298 | 41 | 5 | 94 | 85 | 2,523 | 4,619 | |
| 4-5pm | 1,704 | 48 | 131 | 158 | 36 | 2,077 | 2,306 | 27 | 4 | 167 | 106 | 2,610 | 4,687 | |
| 5-6pm | 1,607 | 93 | 166 | 148 | 24 | 2,038 | 2,268 | 34 | 4 | 208 | 138 | 2,652 ** | 4,690 ** | |
| 6-7pm | 1,462 | 133 | 145 | 105 | 33 | 1,878 | 2,154 | 31 | 14 | 162 | 124 | 2,485 | 4,363 | |
| 7-8pm | | | | | | 1,471 | | | | | | 2,143 | 3,614 | |
| 8-9pm | | | | | | 995 | | | | | | 1,930 | 2,925 | |
| 9-10pm | | | | | | 707 | | | | | | 1,467 | 2,174 | |
| 10-11pm | | | | | | 510 | | | | | | 847 | 1,357 | |
| 11-12pm | | | | | | 308 | | | | | | 516 | 824 | |
| Totals | | | | | | 34,497 | | | | | | 31,115 | 65,612 | |
| 7-10am | 3,816 | 382 | 1,051 | 1,264 | 417 | 6,930 | 2,944 | 100 | 14 | 185 | 104 | 3,347 | 10,277 | |
| 10am-1pm | 4,948 | 145 | 359 | 588 | 93 | 6,133 | 4,273 | 65 | 2 | 266 | 142 | 4,748 | 10,881 | |
| 1-4pm ' | 5,119 | 234 | 303 | 410 | 80 | 6,146 | 6,006 | 184 | 5 | 379 | 224 | 6,798 | 12,944 | |
| 4-7pm | 4,773 | 274 | 442 | 411 | 93 | 5,993 | 6,728 | 92 | 22 | 537 | 368 | 7,747 | 13,740 | |
| 7am-7pm | 18,656 | 1,035 | 2,155 | 2,673 | 683 | 25,202 | 19,951 | 441 | 43 | 1,367 | 838 | 22,640 | 47,842 | |

Based on 1989 Classification Survey Data

^{**} Peak Volumes

Hourly Vehicular Volumes Fresh Kills Bridge ~ 2010

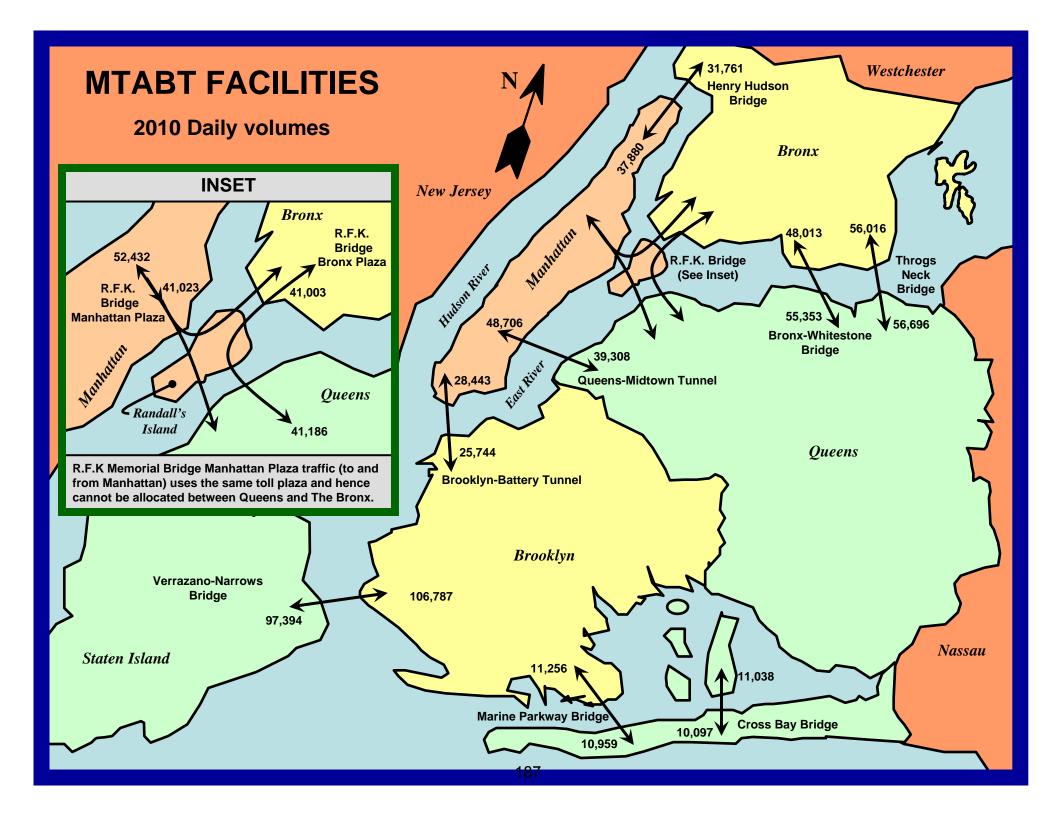






MTABT Facilities





MTABT Manhattan Facilities ~ Average Daily Traffic Volumes 1948 - 2010

Robert F. Kennedy

| | Brooklyn- | Henry | Queens. | Memorial Bridge Manh. Plz. | , |
|--------------|-------------------------------|------------------|-------------------|----------------------------------|---------------------|
| Year | Battery Tunnel | Hudson Bridge | Midtown Tunnel | (Triborough Bridge) | Manhattan Totals |
| 1948 | Opened | 40,050 | 26,462 | 26,465 | 92,977 |
| 1949 | 05/25/1950 | 47,472 | 30,045 | 32,554 | 110,071 |
| 1950 | 37,258 | 53,559 | 34,044 | 36,995 | 161,856 |
| 1951 | 41,253 | 57,700 | 36,680 | 44,639 | 180,272 |
| 1952 | 45,366 | 61,592 | 38,866 | 48,503 | 194,327 |
| 1953 1954 | 47,999 45,120 | 65,432 69,025 | 38,509 38,185 | 48,595 52,286 | 200,535 204,616 |
| 1955 | 45,843 | 71,240 | 39,839 | 59,913 | 216,835 |
| 1956 | 48,054 | 69,477 | 49,544 | 64,460 | 231,535 |
| 1957 | 54,490 | 62,865 | 54,311 | 64,677 | 236,343 |
| 1958 | 53,789 | 57,321 | 58,321 | 62,982 | 232,413 |
| 1959 | 49,468 | 56,529 | 61,115 | 64,389 | 231,501 |
| 1960 | 48,970 | 56,675 | 62,008 | 63,115 | 230,768 |
| 1961 | 48,197 | 57,140 | 62,301 | 59,603 | 227,241 |
| 1962 | 48,173 | 59,548 52,803 | 65,038 | 60,251 | 233,010 |
| 1963 1964 | 48,271 51,893 | 52,603 50,768 | 63,038 67,713 | 60,988 66,139 | 225,100 236,513 |
| 1965 | 56,455 | 45,353 | 69,386 | 69,755 | 240,949 |
| 1966 | 57,674 | 44,043 | 69,850 | 71,540 | 243,107 |
| 1967 | 57,611 | 43,409 | 69,416 | 73,602 | 244,038 |
| 1968 | 60,652 | 44,908 | 66,432 | 75,932 | 247,924 |
| 1969 | 62,116 | 45,382 | 68,884 | 78,481 | 254,863 |
| 1970 | 62,042 | 46,720 | 77,180 | 85,121 | 271,063 |
| 1971 | 64,032 | 50,541 | 81,747 | 90,372 | 286,692 |
| 1972 1973 | 52,065 49,916 | 45,818 41,871 | 74,936 74,214 | 80,052 85,592 | 252,871 251,593 |
| 1973 | 46,620 | 38,331 | 74,214 75,219 | 82,676 | 242,846 |
| 1975 | 45,636 | 30,603 | 65,315 | 72,566 | 214,120 |
| 1976 | 52,444 | 30,557 | 65,881 | 68,325 | 217,207 |
| 1977 | 53,500 | 31,840 | 71,150 | 73,276 | 229,766 |
| 1978 | 58,252 | 33,605 | 72,696 | 76,572 | 241,125 |
| 1979 | 60,445 | 33,387 | 69,827 | 87,885 | 251,544 |
| 1980 | 62,386 | 31,817 | 73,216 | 88,439 | 255,858 |
| 1981 1982 | 58,657 56,189 | 36,625 | 81,211 78,229 | 93,361 88,158 | 269,854 253,499 |
| 1982 | 61,130 | 30,923 31,279 | 78,134 | 92,967 | 263,510 |
| 1984 | 58,032 | 34,898 | 74,808 | 95,247 | 262,985 |
| 1985 | 63,469 | 41,680 | 76,065 | 94,644 | 275,858 |
| 1986 | 60,778 | 49,005 | 71,478 | 93,432 | 274,693 |
| 1987 | 63,256 | 52,778 | 77,813 | 95,795 | 289,642 |
| 1988 | 62,959 | 54,910 | 76,243 | 99,438 | 293,550 |
| 1989 | 59,254 | 50,556 | 72,828 | 92,720 | 275,358 |
| 1990 | 60,512 | 57,528 | 71,186 | 99,840 | 289,066 |
| 1991 1992 | 63,883 62,510 | 56,279 58,660 | 80,616 81,835 | 94,487 97,198 | 295,265 300,203 |
| 1993 | 57,561 | 54,650 | 77,288 | 92,660 | 282,159 |
| 1994 | 57,013 | 58,291 | 68,511 | 79,536 | 263,351 |
| 1995 | 61,097 | 62,899 | 73,882 | 95,696 | 293,574 |
| 1996 | 57,091 | 58,759 | 72,285 | 92,981 | 281,116 |
| 1997 | 54,690 | 59,660 | 78,023 | 91,313 | 283,686 |
| 1998 | 61,091 | 59,339 | 79,697 | 93,863 | 293,990 |
| 1999 2000 | 63,307 63,242 | 61,165 | 80,941 | 98,553 103,079 | 303,966 313,504 |
| 2000 | 13,762 | 66,304 69,087 | 80,879 72,864 | 103,079 | 313,504 257,937 |
| 2002 | 56,976 | 70,731 | 82,834 | 94,759 | 305,300 |
| 2003 | 56,271 | 72,209 | 85,377 | 93,177 | 307,034 |
| 2004 | 54,488 | 73,114 | 86,599 | 97,958 | 312,159 |
| 2005 | 49,043 | 70,407 | 86,063 | 91,898 | 297,411 |
| 2006 | 57,436 | 71,761 | 89,972 | 98,582 | 317,751 |
| 2007 | 56,539 | 70,094 | 88,379 | 97,241 | 312,253 |
| 2008 2009 | 55,037 50,674 | 69,101 66,607 | 86,709 85,144 | 95,146 91,731 | 305,993 204,156 |
| 2009 | 50,674 54,187 | 66,607 69,641 | 85,144 88,014 | 91,731 | 294,156 305,297 |
| 2010 | 0 -1 , 10 <i>1</i> | 00,041 | 00,014 | 00,400 | 000,201 |

MTABT Toll Increases: 1/72, 9/75, 5/80, 4/82, 1/84, 1/86, 2/87, 7/89, 1/93, 3/96, 5/03, 3/05, 3/08, 7/09, & 12/10.

MTABT Outer Borough Bridges ~ Average Daily Traffic Volumes 1948 - 2010

Robert F. Kennedy Marine Memorial Parkway Bridge Bronx-Cross Gil Hodges Bronx Plz. **Throgs** Verrazano-Outer Whitestone Bay Memorial (Triborough Neck Narrows **Boroughs** Bridge Totals Year **Bridge Bridge** Bridge) Bridge Bridge 1948 33,343 11,421 10,216 25,997 Opened Opened 80,977 1949 41.485 12,579 11,743 31,310 01/11/1961 11/21/1964 97,117 1950 47,900 13,002 12,971 35,581 109,454 1951 13,443 13,449 42,934 124,391 54,565 1952 59,269 13,706 13,995 46,777 133,747 143,873 1953 66,055 15,460 15,620 46,738 1954 15,348 72,061 16,113 50,289 153,811 1955 77,352 15,630 16,571 57,623 167,176 15,557 16,277 62,167 1956 82,643 176,644 82,199 15,465 16,172 62,206 176,042 1957 1958 14,895 15,694 83,022 60,576 174,187 1959 88,731 15,589 16,975 61,929 183,224 184,606 91,956 1960 15,175 16,605 60,870 1961 55,100 15,518 16,657 57,325 144,600 57,949 1962 47,532 15,939 17,301 60.697 199,418 1963 45,352 16,421 17,978 58,657 75,532 213,940 16,594 1964 64,573 18,145 61.152 76,245 236,709 48,842 1965 72,053 16,864 18,855 67,090 77,755 301,459 17,684 17,448 1966 71,382 19,745 68,806 80,647 58,720 316,984 73,931 19,904 70,791 81,237 66,607 329,918 1967 1968 78,773 18,367 73,232 83,634 77,393 352,823 21,424 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 18,399 84,279 106,014 1971 86,573 22,426 83,804 401,495 1972 80,704 16,813 20,956 74,777 89,595 105,898 388,743 81,548 21,502 1973 75,552 111,385 16,783 95,326 402.096 1974 82,699 16,769 19,734 76,673 89,622 109,671 395,168 15.019 18,715 1975 81,081 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 14,489 113,040 16,724 67,590 90,635 384,470 1978 86,537 13,955 17,750 64,746 89,847 125,799 398,634 90.394 17,404 63.046 86.315 124.667 1979 13.690 395.516 130,904 88,346 1980 13,903 16,472 87,011 63,219 399,855 1981 84,475 11,583 16,510 76,200 91,511 137,695 417,974 74,092 90,312 13,072 93,867 1982 143,811 432,273 17,119 1983 97,945 13,412 18,003 78,885 97,706 140,645 446,596 90,153 1984 97,636 14,835 19,749 79,300 155,892 457,565 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 98,235 95,762 174,416 172,529 1988 14,989 21,098 83,002 102,333 494,073 1989 14,466 19,666 78,877 94,147 475,447 21,489 1990 104,377 14,645 80,346 91,237 175,948 488,042 99,054 14,925 20,893 81,364 94,377 178,340 488,953 1991 77,125 70,458 1992 96,830 14,821 21,042 98,135 183,218 491,171 101.402 478,703 1993 93,712 14.578 20,137 178,416 1994 104,819 14,442 20,623 71,777 97,471 181,156 490,288 15,423 1995 108,185 20,568 72,012 97,282 184,634 498,104 21,212 19,782 1996 101,048 14,845 74,522 97,629 184,557 493,813 93,018 14,221 76,937 102,094 182,871 1997 488,923 16,286 19,583 1998 104,125 81,913 99,471 194,592 515,970 16,975 1999 19.904 80.019 90.986 120,170 194.623 522.677 17,962 21,609 202,580 2000 117,583 79,243 98,357 537,334 19,626 19,527 104,429 2001 111,764 77,631 218,971 551,948 2002 104,535 123,258 20,010 21,684 72,259 212,491 554,237 2003 113,441 20,233 21,745 74,113 206,444 547,068 111,092 112,001 2004 117,591 20.460 21,556 82,810 205,544 559.962 2005 105,059 19,852 19,456 77,257 114,973 193,687 530,284 22,036 81,840 116,427 2006 110,708 207,353 22,363 560,727 201,116 2007 111,739 22,337 21,356 79,019 112,985 548,552 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 82,189 204,181 545,798

MTABT Toll Increases: 1/72, 9/75, 5/80, 4/82, 1/84, 1/86, 2/87, 7/89, 1/93, 3/96, 5/03, 3/05, 3/08, 7/09, & 12/10.

112,712

Hourly Vehicular Volumes Metropolitan Transportation Authority Bridges & Tunnels 2010

Robert F. Kennedy Memorial Bridge

| | | | | | Memoriai Bridge | | | | | | | | |
|----------|----------|-------------------------------|----------|----------|-----------------|----------|-----------|------------|-----------|-----------|--|--|--|
| | Brooklyr | Brooklyn-Battery Henry Hudson | | | | Midtown | (Triborou | gh Bridge) | Tot | Totals | | | |
| | Tui | nnel | Bri | dge | Tun | nel | Mahatta | n Plaza | Entering | Leaving | | | |
| | N/B | S/B | S/B | N/B | W/B | E/B | W/B | E/B | Manhattan | Manhattan | | | |
| 12-1am | 163 | 557 | 140 | 441 | 533 | 814 | 526 | 465 | 1,362 | 2,277 | | | |
| 1-2am | 78 | 199 | 77 | 184 | 232 | 421 | 183 | 225 | 570 | 1,029 | | | |
| 2-3am | 49 | 109 | 47 | 109 | 111 | 240 | 123 | 157 | 330 | 615 | | | |
| 3-4am | 52 | 80 | 53 | 67 | 152 | 196 | 111 | 165 | 368 | 508 | | | |
| 4-5am | 151 | 83 | 128 | 71 | 281 | 375 | 286 | 420 | 846 | 949 | | | |
| 5-6am | 667 | 110 | 555 | 136 | 947 | 749 | 913 | 986 | 3,082 | 1,981 | | | |
| 6-7am | 1,996 | 377 | 2,331 | 547 | 2,236 | 1,314 | 2,947 | 1,631 | 9,510 | 3,869 | | | |
| 7-8am | 3,152 | 604 | 3,547 ** | 1,429 | 3,757 | 1,392 | 4,065 | 2,163 | 14,521 | 5,588 | | | |
| 8-9am | 3,253 ** | 739 | 3,447 | 1,897 | 4,259 ** | 1,309 | 4,166 ** | 2,257 | 15,125 ** | 6,202 | | | |
| 9-10am | 2,891 | 814 | 3,008 | 1,231 | 3,988 | 1,382 | 3,652 | 1,985 | 13,539 | 5,412 | | | |
| 10-11am | 1,746 | 783 | 2,275 | 1,050 | 3,156 | 1,618 | 3,249 | 1,846 | 10,426 | 5,297 | | | |
| 11-12am | 1,534 | 910 | 1,880 | 1,113 | 2,779 | 1,745 | 2,710 | 1,982 | 8,903 | 5,750 | | | |
| 12-1pm | 1,398 | 1,045 | 1,737 | 1,216 | 2,453 | 2,076 | 2,530 | 2,144 | 8,118 | 6,481 | | | |
| 1-2pm | 1,292 | 1,150 | 1,575 | 1,303 | 2,321 | 2,353 | 2,573 | 2,292 | 7,761 | 7,098 | | | |
| 2-3pm | 1,450 | 1,485 | 1,784 | 1,702 | 2,584 | 2,756 | 2,816 | 2,620 | 8,634 | 8,563 | | | |
| 3-4pm | 1,558 | 1,944 | 2,429 | 2,280 | 2,751 | 2,943 | 3,309 | 3,007 | 10,047 | 10,174 | | | |
| 4-5pm | 1,283 | 2,339 | 2,601 | 2,523 | 2,772 | 2,949 ** | 3,189 | 3,075 ** | 9,845 | 10,886 | | | |
| 5-6pm | 1,367 | 2,612 ** | 2,933 | 3,043 ** | 2,931 | 2,849 | 3,450 | 2,933 | 10,681 | 11,437 ** | | | |
| 6-7pm | 1,327 | 2,487 | 2,831 | 2,924 | 2,981 | 2,141 | 3,318 | 2,562 | 10,457 | 10,114 | | | |
| 7-8pm | 995 | 2,153 | 1,721 | 2,403 | 2,211 | 2,326 | 2,493 | 2,314 | 7,420 | 9,196 | | | |
| 8-9pm | 713 | 1,840 | 1,074 | 1,841 | 1,659 | 2,080 | 1,878 | 1,950 | 5,324 | 7,711 | | | |
| 9-10pm | 521 | 1,414 | 851 | 1,710 | 1,516 | 2,169 | 1,660 | 1,670 | 4,548 | 6,963 | | | |
| 10-11pm | 446 | 1,106 | 551 | 1,595 | 1,229 | 1,899 | 1,360 | 1,361 | 3,586 | 5,961 | | | |
| 11-12pm | 361 | 804 | 305 | 946 | 867 | 1,212 | 925 | 813 | 2,458 | 3,775 | | | |
| Totals | 28,443 | 25,744 | 37,880 | 31,761 | 48,706 | 39,308 | 52,432 | 41,023 | 167,461 | 137,836 | | | |
| 7-10am | 9,296 | 2,157 | 10,002 | 4,557 | 12,004 | 4,083 | 11,883 | 6,405 | 43,185 | 17,202 | | | |
| 10am-1pm | 4,678 | 2,738 | 5,892 | 3,379 | 8,388 | 5,439 | 8,489 | 5,972 | 27,447 | 17,528 | | | |
| 1-4pm | 4,300 | 4,579 | 5,788 | 5,285 | 7,656 | 8,052 | 8,698 | 7,919 | 26,442 | 25,835 | | | |
| 4-7pm | 3,977 | 7,438 | 8,365 | 8,490 | 8,684 | 7,939 | 9,957 | 8,570 | 30,983 | 32,437 | | | |
| 7am-7pm | 22,251 | 16,912 | 30,047 | 21,711 | 36,732 | 25,513 | 39,027 | 28,866 | 128,057 | 93,002 | | | |

^{**} Peak Volumes

Hourly Vehicular Volumes Metropolitan Transportation Authority Bridges & Tunnels 2010

| | | | | | | | Robert F | . Kennedy | | | | |
|----------|----------|---------------|----------|--------|-----------------|-----------|----------|------------|----------|----------|-----------|----------|
| | | | | | Marine | e Parkway | Memor | ial Bridge | | | | |
| | Bronx-W | hitestone | Cross | Bav | Gil | Hodges | | gh Bridge) | Throa | s Neck | Verrazano | -Narrows |
| | | Bridge Bridge | | | Memorial Bridge | | x Plaza | | dge | Bridge | | |
| | N/B | S/B | N/B | S/B | N/B | S/B | N/B | S/B | N/B | S/B | E/B | W/B |
| 12-1am | 826 | 740 | 90 | 174 | 75 | 142 | 631 | 731 | 523 | 864 | 2,762 | 1,793 |
| 1-2am | 438 | 461 | 45 | 82 | 32 | 66 | 378 | 370 | 354 | 485 | 1,432 | 986 |
| 2-3am | 289 | 338 | 36 | 43 | 26 | 44 | 230 | 288 | 277 | 347 | 779 | 670 |
| 3-4am | 333 | 432 | 46 | 34 | 28 | 24 | 275 | 306 | 339 | 303 | 629 | 511 |
| 4-5am | 585 | 838 | 142 | 38 | 46 | 33 | 499 | 628 | 683 | 495 | 642 | 635 |
| 5-6am | 1,511 | 1,737 | 440 | 129 | 225 | 107 | 961 | 1,329 | 2,146 | 1,130 | 1,034 | 1,242 |
| 6-7am | 2,916 | 3,044 | 944 | 377 | 662 | 341 | 1,992 | 2,557 | 4,439 | 2,383 | 3,554 | 2,835 |
| 7-8am | 3,830 | 3,144 | 1,332 ** | 507 | 1,431 ** | 407 | 2,957 ** | 2,594 | 4,815 ** | 3,351 | 8,732 | 4,031 |
| 8-9am | 3,847 ** | 3,039 | 937 | 474 | 1,266 | 504 | 2,913 | 2,432 | 4,135 | 3,157 | 10,161 ** | 4,665 |
| 9-10am | 2,829 | 2,799 | 590 | 399 | 854 | 377 | 2,327 | 2,360 | 3,619 | 2,716 | 8,276 | 4,354 |
| 10-11am | 2,552 | 2,514 | 505 | 389 | 623 | 368 | 2,021 | 2,175 | 3,268 | 2,492 | 6,347 | 3,861 |
| 11-12am | 2,237 | 2,462 | 517 | 409 | 561 | 420 | 1,946 | 1,989 | 2,717 | 2,461 | 5,061 | 3,807 |
| 12-1pm | 1,985 | 2,626 | 498 | 416 | 486 | 431 | 1,902 | 2,034 | 2,418 | 2,519 | 4,470 | 4,144 |
| 1-2pm | 2,326 | 2,742 | 571 | 469 | 513 | 540 | 2,084 | 2,090 | 2,547 | 2,799 | 4,250 | 4,514 |
| 2-3pm | 2,341 | 3,010 | 629 | 618 | 541 | 651 | 2,304 | 2,379 | 2,958 | 3,472 | 4,477 | 6,066 |
| 3-4pm | 2,650 | 3,661 | 741 | 803 | 654 | 990 | 2,822 | 2,637 | 3,079 | 4,454 | 4,974 | 8,097 |
| 4-5pm | 2,580 | 3,721 | 672 | 832 ** | 664 | 1,000 | 2,680 | 2,675 ** | 3,032 | 4,513 | 5,950 | 8,184 |
| 5-6pm | 2,521 | 3,946 ** | 591 | 814 | 701 | 1,053 ** | 2,475 | 2,561 | 3,003 | 4,566 ** | 6,345 | 8,318 ** |
| 6-7pm | 2,375 | 3,519 | 472 | 816 | 599 | 1,001 | 2,379 | 2,176 | 3,082 | 4,249 | 6,343 | 7,437 |
| 7-8pm | 2,169 | 3,240 | 361 | 694 | 429 | 793 | 1,961 | 1,913 | 2,656 | 3,225 | 5,600 | 6,152 |
| 8-9pm | 2,131 | 2,450 | 277 | 535 | 308 | 597 | 1,628 | 1,713 | 1,945 | 2,425 | 4,552 | 5,287 |
| 9-10pm | 1,922 | 2,037 | 236 | 443 | 218 | 485 | 1,399 | 1,275 | 1,695 | 1,951 | 3,693 | 4,111 |
| 10-11pm | 1,695 | 1,730 | 207 | 350 | 168 | 374 | 1,285 | 1,036 | 1,394 | 1,252 | 3,397 | 3,256 |
| 11-12pm | 1,125 | 1,123 | 159 | 252 | 146 | 211 | 954 | 938 | 892 | 1,087 | 3,327 | 2,438 |
| Totals | 48,013 | 55,353 | 11,038 | 10,097 | 11,256 | 10,959 | 41,003 | 41,186 | 56,016 | 56,696 | 106,787 | 97,394 |
| 7-10am | 10,506 | 8,982 | 2,859 | 1,380 | 3,551 | 1,288 | 8,197 | 7,386 | 12,569 | 9,224 | 27,169 | 13,050 |
| 10am-1pm | 6,774 | 7,602 | 1,520 | 1,214 | 1,670 | 1,219 | 5,869 | 6,198 | 8,403 | 7,472 | 15,878 | 11,812 |
| 1-4pm | 7,317 | 9,413 | 1,941 | 1,890 | 1,708 | 2,181 | 7,210 | 7,106 | 8,584 | 10,725 | 13,701 | 18,677 |
| 4-7pm | 7,476 | 11,186 | 1,735 | 2,462 | 1,964 | 3,054 | 7,534 | 7,412 | 9,117 | 13,328 | 18,638 | 23,939 |
| 7am-7pm | 32,073 | 37,183 | 8,055 | 6,946 | 8,893 | 7,742 | 28,810 | 28,102 | 38,673 | 40,749 | 75,386 | 67,478 |

^{**} Peak Volumes

Hourly Vehicular Volumes Brooklyn Battery Tunnnel - 2010

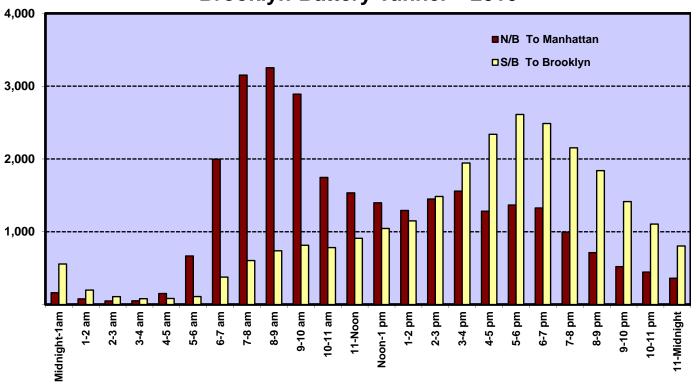
Northbound to Manhattan Southbound to Brooklyn
Commuter Vans

| | | North | ound to | iviaiiiialla | 477 | | | | | | | | |
|-----------|-------------|---------------|---------|--------------|----------|----------|-------------|--------------|-------|--------|----------|----------|----------|
| | | Commuter Van | | | | | | Commuter Van | - | | | | |
| | С | ommercial Var | าร | Single | | | | ommercial Va | ns | Single | | | 2-Way |
| | Autos & | Pickups | | Unit | Tractor | Total | Autos & | Pickups | | Unit | Tractor | Total | Grand |
| | Motorcycles | Large SUVs | Buses | Trucks | Trailers | Vehicles | Motorcycles | Large SUVs | Buses | Trucks | Trailers | Vehicles | Totals |
| FHWA | | | | | | | | | | | | | |
| Classes ► | 1 & 2 | 3 | 4 | 5 - 7 | 8 - 13 | | 1 & 2 | 3 | 4 | 5 - 7 | 8 - 13 | | |
| 12-1am | 140 | 5 | 9 | 9 | 0 | 163 | 507 | 11 | 33 | 6 | 0 | 557 | 720 |
| 1-2am | 69 | 3 | 5 | 1 | 0 | 78 | 190 | 0 | 8 | 1 | 0 | 199 | 277 |
| 2-3am | 44 | 0 | 3 | 2 | 0 | 49 | 104 | 1 | 3 | 1 | 0 | 109 | 158 |
| 3-4am | 44 | 1 | 5 | 2 | 0 | 52 | 78 | 0 | 0 | 2 | 0 | 80 | 132 |
| 4-5am | 97 | 6 | 37 | 11 | 0 | 151 | 78 | 0 | 4 | 1 | 0 | 83 | 234 |
| 5-6am | 600 | 7 | 53 | 7 | 0 | 667 | 98 | 1 | 8 | 3 | 0 | 110 | 777 |
| 6-7am | 1,782 | 12 | 179 | 23 | 0 | 1,996 | 281 | 6 | 79 | 11 | 0 | 377 | 2,373 |
| 7-8am | 2,767 | 17 | 326 | 42 | 0 | 3,152 | 435 | 7 | 146 | 16 | 0 | 604 | 3,756 |
| 8-9am | 2,844 | 16 | 354 | 39 | 0 | 3,253 ** | 539 | 6 | 176 | 18 | 0 | 739 | 3,992 ** |
| 9-10am | 2,639 | 21 | 188 | 43 | 0 | 2,891 | 624 | 8 | 159 | 23 | 0 | 814 | 3,705 |
| 10-11am | 1,589 | 21 | 88 | 47 | 1 | 1,746 | 685 | 9 | 73 | 16 | 0 | 783 | 2,529 |
| 11-12am | 1,422 | 13 | 63 | 35 | 1 | 1,534 | 821 | 9 | 62 | 18 | 0 | 910 | 2,444 |
| 12-1pm | 1,286 | 14 | 68 | 30 | 0 | 1,398 | 961 | 12 | 53 | 19 | 0 | 1,045 | 2,443 |
| 1-2pm | 1,169 | 11 | 79 | 33 | 0 | 1,292 | 1,038 | 12 | 74 | 26 | 0 | 1,150 | 2,442 |
| 2-3pm | 1,303 | 11 | 110 | 26 | 0 | 1,450 | 1,359 | 15 | 85 | 26 | 0 | 1,485 | 2,935 |
| 3-4pm | 1,392 | 6 | 147 | 13 | 0 | 1,558 | 1,772 | 13 | 135 | 24 | 0 | 1,944 | 3,502 |
| 4-5pm | 1,118 | 4 | 151 | 9 | 1 | 1,283 | 2,120 | 7 | 192 | 20 | 0 | 2,339 | 3,622 |
| 5-6pm | 1,218 | 3 | 137 | 6 | 3 | 1,367 | 2,323 | 7 | 267 | 14 | 1 | 2,612 ** | 3,979 |
| 6-7pm | 1,232 | 4 | 83 | 7 | 1 | 1,327 | 2,284 | 6 | 185 | 11 | 1 | 2,487 | 3,814 |
| 7-8pm | 945 | 1 | 46 | 3 | 0 | 995 | 2,029 | 6 | 110 | 8 | 0 | 2,153 | 3,148 |
| 8-9pm | 677 | 4 | 27 | 5 | 0 | 713 | 1,719 | 8 | 103 | 10 | 0 | 1,840 | 2,553 |
| 9-10pm | 495 | 1 | 23 | 2 | 0 | 521 | 1,337 | 4 | 59 | 14 | 0 | 1,414 | 1,935 |
| 10-11pm | 422 | 1 | 20 | 3 | 0 | 446 | 1,062 | 5 | 31 | 8 | 0 | 1,106 | 1,552 |
| 11-12pm | 320 | 0 | 30 | 11 | 0 | 361 | 758 | 6 | 32 | 8 | 0 | 804 | 1,165 |
| Totals | 25,614 | 182 | 2,231 | 409 | 7 | 28,443 | 23,202 | 159 | 2,077 | 304 | 2 | 25,744 | 54,187 |
| 7-10am | 8,250 | 54 | 868 | 124 | 0 | 9,296 | 1,598 | 21 | 481 | 57 | 0 | 2,157 | 11,453 |
| 10am-1pm | 1 4,297 | 48 | 219 | 112 | 2 | 4,678 | 2,467 | 30 | 188 | 53 | 0 | 2,738 | 7,416 |
| 1-4pm | 3,864 | 28 | 336 | 72 | 0 | 4,300 | 4,169 | 40 | 294 | 76 | 0 | 4,579 | 8,879 |
| 4-7pm | 3,568 | 11 | 371 | 22 | 5 | 3,977 | 6,727 | 20 | 644 | 45 | 2 | 7,438 | 11,415 |
| 7am-7pm | 19,979 | 141 | 1,794 | 330 | 7 | 22,251 | 14,961 | 111 | 1,607 | 231 | 2 | 16,912 | 39,163 |

Based on May 2006 Classification Survey Data.

^{**} Peak Volumes

Hourly Vehicular Volumes Brooklyn-Battery Tunnel ~ 2010







Hourly Vehicular Volumes Queens-Midtown Tunnel - 2010

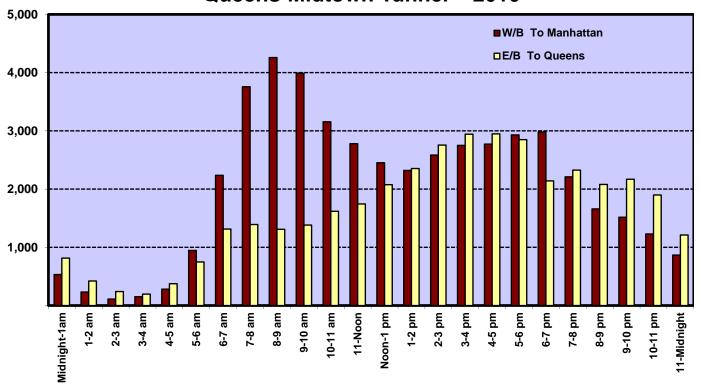
Westbound to Manhattan Eastbound to Queens

| | | Westbe | ouna to | Maillalla | 111 | | | | | | | | |
|-----------|--------------------------------------|------------|---------|-----------|----------|----------|--------------------------------------|------------|-------|--------|----------|----------|----------|
| | Commuter Vans Commercial Vans Single | | | | | | Commuter Vans Commercial Vans Single | | | | | | 2-Way |
| | Autos & | Pickups | | Unit | Tractor | Total | Autos & | Pickups | | Unit | Tractor | Total | Grand |
| | Motorcycles | Large SUVs | Buses | Trucks | Trailers | Vehicles | Motorcycles | Large SUVs | Buses | Trucks | Trailers | Vehicles | Totals |
| FHWA | | | | | | | | | | | | | |
| Classes ► | 1 & 2 | 3 | 4 | 5 - 7 | 8 - 13 | | 1 & 2 | 3 | 4 | 5 - 7 | 8 - 13 | | |
| 12-1am | 516 | 2 | 3 | 12 | 0 | 533 | 786 | 7 | 1 | 20 | 0 | 814 | 1,347 |
| 1-2am | 221 | 2 | 1 | 8 | 0 | 232 | 401 | 4 | 0 | 16 | 0 | 421 | 653 |
| 2-3am | 103 | 1 | 1 | 6 | 0 | 111 | 225 | 5 | 0 | 10 | 0 | 240 | 351 |
| 3-4am | 138 | 1 | 3 | 10 | 0 | 152 | 175 | 9 | 0 | 12 | 0 | 196 | 348 |
| 4-5am | 226 | 5 | 15 | 35 | 0 | 281 | 309 | 26 | 3 | 36 | 1 | 375 | 656 |
| 5-6am | 826 | 9 | 47 | 65 | 0 | 947 | 668 | 19 | 11 | 51 | 0 | 749 | 1,696 |
| 6-7am | 1,911 | 78 | 141 | 106 | 0 | 2,236 | 1,190 | 36 | 51 | 37 | 0 | 1,314 | 3,550 |
| 7-8am | 3,239 | 133 | 237 | 147 | 1 | 3,757 | 1,238 | 53 | 66 | 35 | 0 | 1,392 | 5,149 |
| 8-9am | 3,830 | 120 | 150 | 159 | 0 | 4,259 ** | 1,143 | 42 | 79 | 45 | 0 | 1,309 | 5,568 |
| 9-10am | 3,594 | 101 | 180 | 109 | 4 | 3,988 | 1,213 | 52 | 70 | 47 | 0 | 1,382 | 5,370 |
| 10-11am | 2,865 | 88 | 106 | 95 | 2 | 3,156 | 1,403 | 65 | 78 | 72 | 0 | 1,618 | 4,774 |
| 11-12am | 2,576 | 69 | 66 | 68 | 0 | 2,779 | 1,550 | 59 | 75 | 61 | 0 | 1,745 | 4,524 |
| 12-1pm | 2,276 | 37 | 56 | 84 | 0 | 2,453 | 1,859 | 67 | 57 | 93 | 0 | 2,076 | 4,529 |
| 1-2pm | 2,117 | 66 | 69 | 69 | 0 | 2,321 | 2,089 | 107 | 60 | 97 | 0 | 2,353 | 4,674 |
| 2-3pm | 2,346 | 62 | 118 | 58 | 0 | 2,584 | 2,555 | 79 | 47 | 75 | 0 | 2,756 | 5,340 |
| 3-4pm | 2,445 | 57 | 179 | 70 | 0 | 2,751 | 2,721 | 66 | 68 | 88 | 0 | 2,943 | 5,694 |
| 4-5pm | 2,534 | 34 | 169 | 35 | 0 | 2,772 | 2,719 | 81 | 69 | 80 | 0 | 2,949 ** | 5,721 |
| 5-6pm | 2,753 | 19 | 135 | 24 | 0 | 2,931 | 2,688 | 45 | 73 | 43 | 0 | 2,849 | 5,780 ** |
| 6-7pm | 2,850 | 20 | 83 | 28 | 0 | 2,981 | 2,034 | 26 | 49 | 32 | 0 | 2,141 | 5,122 |
| 7-8pm | 2,131 | 14 | 50 | 16 | 0 | 2,211 | 2,218 | 23 | 63 | 22 | 0 | 2,326 | 4,537 |
| 8-9pm | 1,578 | 21 | 29 | 31 | 0 | 1,659 | 1,976 | 24 | 39 | 41 | 0 | 2,080 | 3,739 |
| 9-10pm | 1,457 | 14 | 18 | 27 | 0 | 1,516 | 2,080 | 22 | 23 | 43 | 1 | 2,169 | 3,685 |
| 10-11pm | 1,177 | 8 | 13 | 31 | 0 | 1,229 | 1,831 | 20 | 10 | 38 | 0 | 1,899 | 3,128 |
| 11-12pm | 841 | 7 | 4 | 15 | 0 | 867 | 1,179 | 4 | 4 | 25 | 0 | 1,212 | 2,079 |
| Totals | 44,550 | 968 | 1,873 | 1,308 | 7 | 48,706 | 36,250 | 941 | 996 | 1,119 | 2 | 39,308 | 88,014 |
| 7-10am | 10,663 | 354 | 567 | 415 | 5 | 12,004 | 3,594 | 147 | 215 | 127 | 0 | 4,083 | 16,087 |
| 10am-1pm | 7,717 | 194 | 228 | 247 | 2 | 8,388 | 4,812 | 191 | 210 | 226 | 0 | 5,439 | 13,827 |
| 1-4pm | 6,908 | 185 | 366 | 197 | 0 | 7,656 | 7,365 | 252 | 175 | 260 | 0 | 8,052 | 15,708 |
| 4-7pm | 8,137 | 73 | 387 | 87 | 0 | 8,684 | 7,441 | 152 | 191 | 155 | 0 | 7,939 | 16,623 |
| 7am-7pm | 33,425 | 806 | 1,548 | 946 | 7 | 36,732 | 23,212 | 742 | 791 | 768 | 0 | 25,513 | 62,245 |

Based on May 2006 Classification Survey Data.

^{**} Peak Volumes

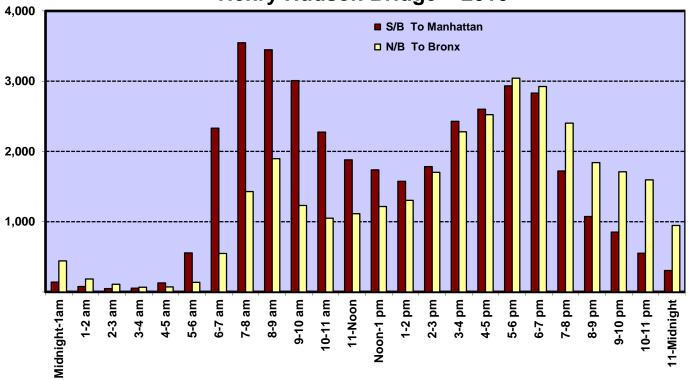
Hourly Vehicular Volumes Queens-Midtown Tunnel ~ 2010



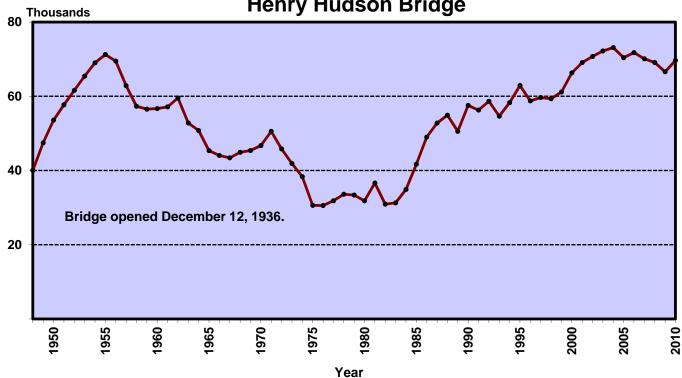
Average Daily Traffic Volumes ~ Total of Both Directions Queens-Midtown Tunnel



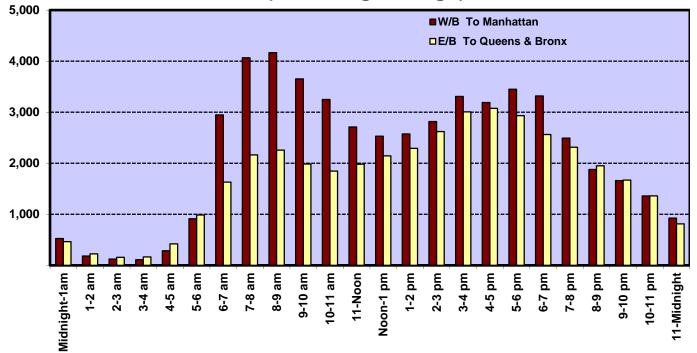
Hourly Vehicular Volumes Henry Hudson Bridge ~ 2010







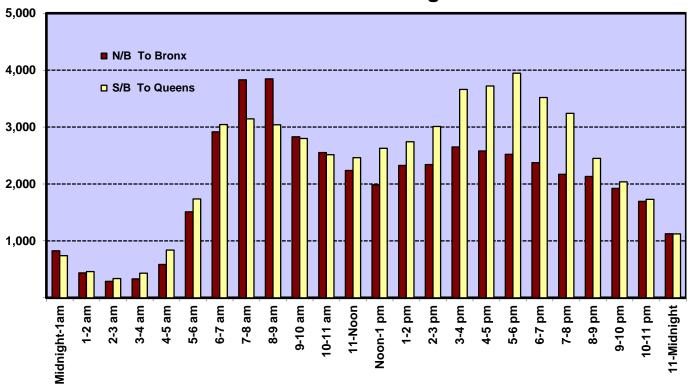
Hourly Vehicular Volumes
Robert F. Kennedy Memorial Bridge, Manhattan Plaza ~ 2010
(Triborough Bridge)



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



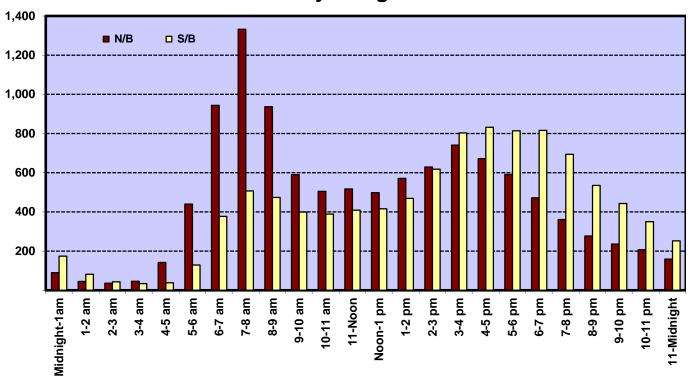
Hourly Vehicular Volumes Bronx-Whitestone Bridge ~ 2010



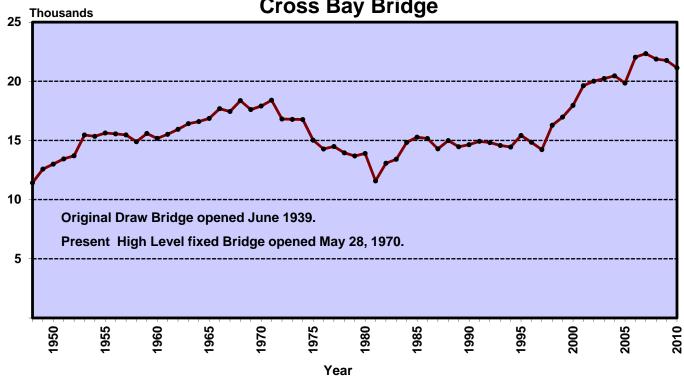




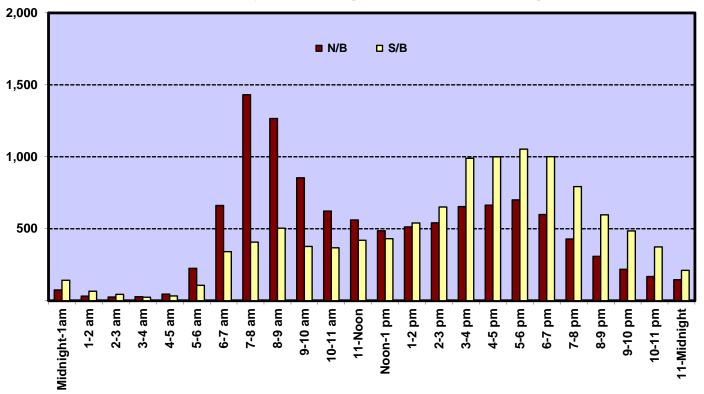
Hourly Vehicular Volumes Cross Bay Bridge ~ 2010



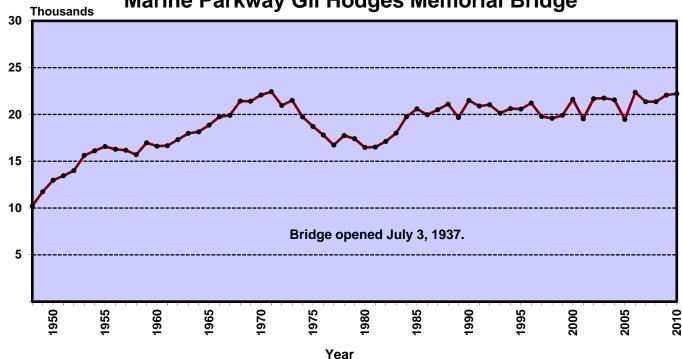




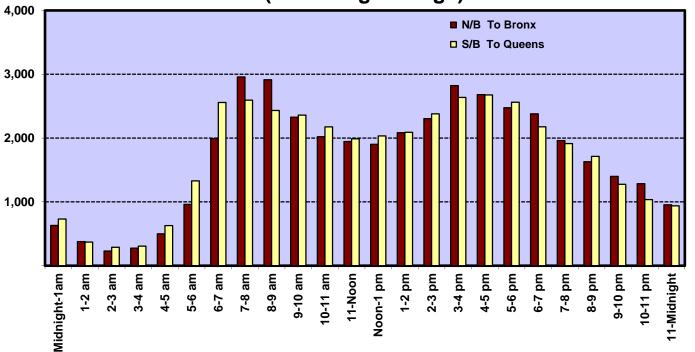
Hourly Vehicular Volumes Marine Parkway Gil Hodges Memorial Bridge ~ 2010







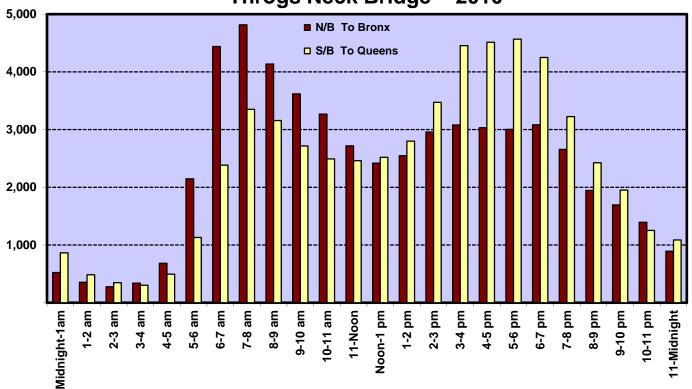
Hourly Vehicular Volumes
Robert F. Kennedy Memorial Bridge, Bronx Plaza ~ 2010
(Triborough Bridge)



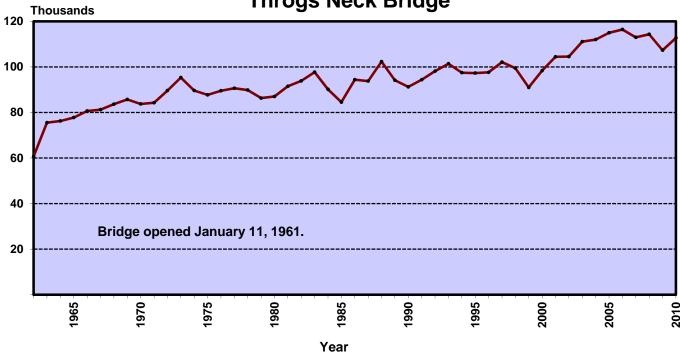
Average Daily Traffic Volumes ~ Total of Both Directions Robert F. Kennedy Memorial Bridge, Bronx Plaza (Triborough Bridge)



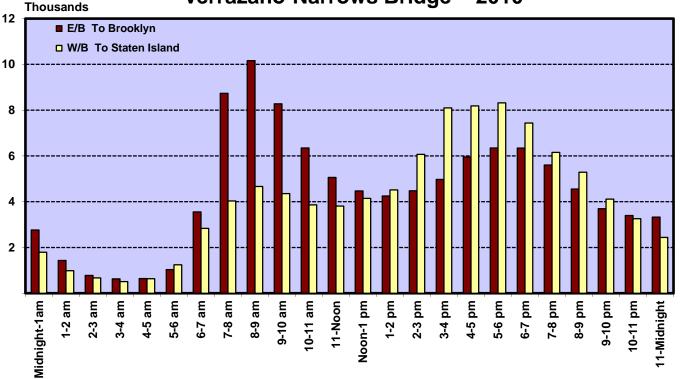
Hourly Vehicular Volumes Throgs Neck Bridge ~ 2010



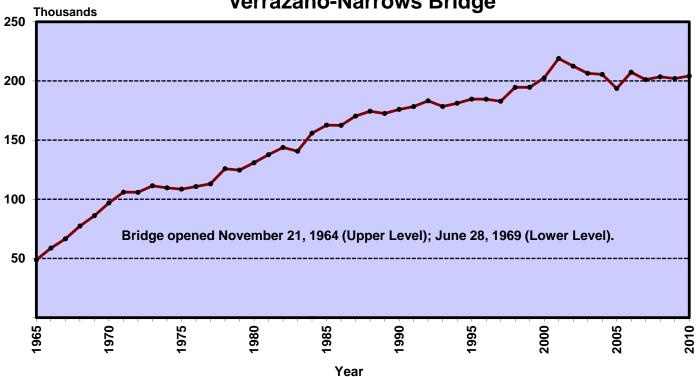
Average Daily Traffic Volumes ~ Total of Both Directions Throgs Neck Bridge



Hourly Vehicular Volumes Verrazano-Narrows Bridge ~ 2010

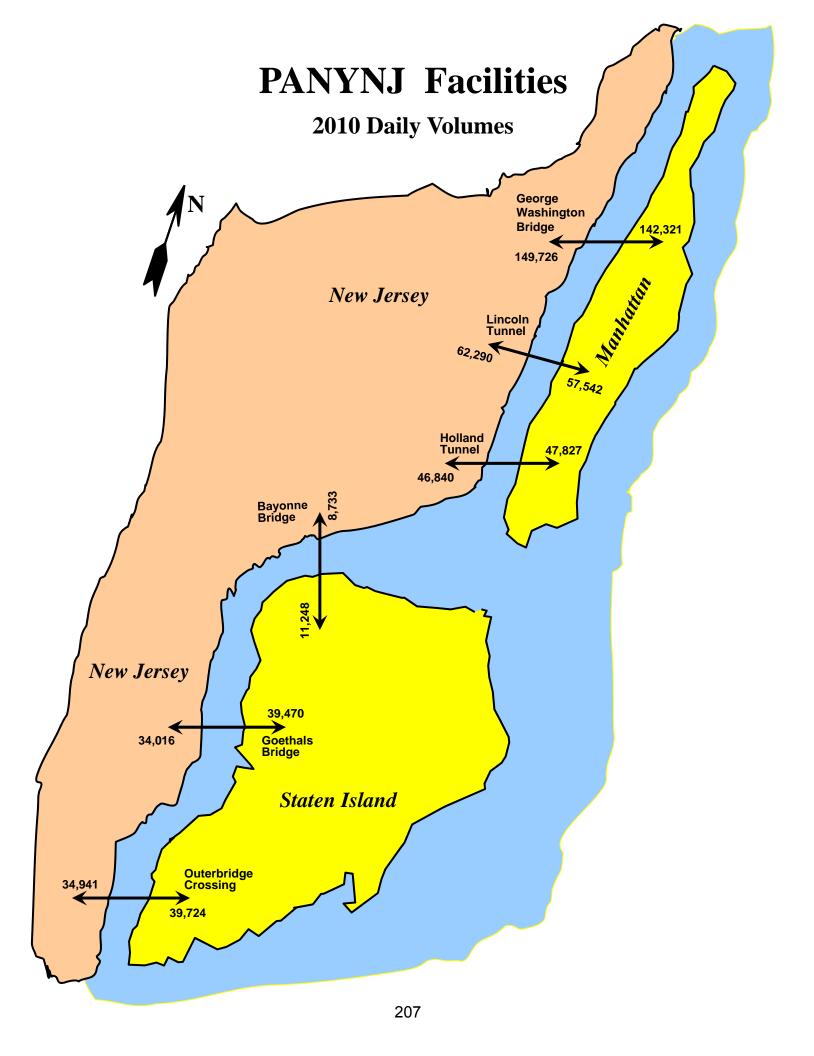


Average Daily Traffic Volumes ~ Total of Both Directions Verrazano-Narrows Bridge



PANYNJ Facilities





PANYNJ Manhattan - New Jersey Facilities Average Daily Traffic Volumes 1948 - 2010

| | | 1948 - 201 | 0 | |
|--------------|----------------------|------------------|--------------------|--------------------|
| | George | Holland | Lincoln | |
| Year | Washington Bridge | Tunnel | Tunnel | Totals |
| | _ | | | |
| 1948 1949 | 42,306 49,261 | 42,623 45,167 | 30,856 35,515 | 115,785 129,943 |
| 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 56,064 | 58,468 | 211,926 |
| 1956 1957 | 97,059 98,110 | 56,961 56,801 | 59,068 63,712 | 213,088 218,623 |
| 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 1964 | 127,452 143,193 | 58,814 59,702 | 79,337 82,929 | 265,603 285,824 |
| 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 | 194,910 210,749 | 58,574 | 94,354 93,346 | 347,838 |
| 1971 1972 | 210,749 | 57,968 61,485 | 95,963 | 362,063 378,620 |
| 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 1980 | 232,739 235,615 | 61,403 64,417 | 99,582 104,702 | 393,724 404,734 |
| 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 1987 | 286,398 | 77,300 | 122,053 124,342 | 485,751 486,639 |
| 1988 | 288,642 284,984 | 73,655 84,626 | 124,342 | 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 96,310 | 119,299 | 473,799 482,098 |
| 1995 1996 | 266,029 275,469 | 96,798 | 119,759 120,927 | 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 2004 | 319,029 315,066 | 101,097 | 127,323 | 547,449 536 306 |
| 2004 | 315,066 304,302 | 96,171 96,960 | 125,159 126,455 | 536,396 527,717 |
| 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 |
| • | ,- | , | , | , |

PANYNJ Staten Island - New Jersey Bridges Average Daily Traffic Volumes 1948 - 2010

| Year | Bayonne Bridge | Goethals Bridge | Outerbridge Crossing | Totals |
|--------------|-------------------|--------------------|-------------------------|--------------------|
| 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 1953 | 7,035 7,385 | 6,865 7,938 | 5,243 5,275 | 19,143 20,598 |
| 1954 | 7,365 7,452 | 8,323 | 5,275 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 10,331 | 5,757 | 22,978 |
| 1960 1961 | 6,519 6,986 | 12,028 | 6,006 6,360 | 22,856 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 58,654 |
| 1968 1969 | 10,349 10,807 | 38,564 41,838 | 9,741 10,408 | 58,654 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 1977 | 11,418 11,704 | 51,554 45,816 | 17,892 28,016 | 80,864 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 1985 | 14,058 14,490 | 53,962 | 50,908 54,268 | 118,928 126,466 |
| 1986 | 15,906 | 57,708 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 66.373 | 145,380 140,775 |
| 1993 1994 | 13,979 14,212 | 60,424 62,464 | 66,372 67,199 | 140,775 |
| 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 2002 | 23,631 21,327 | 78,196 81,384 | 75,424 76,429 | 177,251 179,140 |
| 2002 | 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 |
| | | | | |

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

Hourly Vehicular Volumes Port Authority of New York & New Jersey 2010

| | | | | | | | То | tals |
|----------|------------|-----------------|----------|----------|----------|----------|-----------|-----------|
| | George Was | shington Bridge | Hollan | d Tunnel | Lincoli | n Tunnel | Entering | Leaving |
| | E/B | W/B | E/B | W/B | E/B | W/B | Manhattan | Manhattan |
| 12-1am | 1,893 | 3,283 | 752 | 870 | 917 | 2,274 | 3,562 | 6,427 |
| 1-2am | 1,298 | 1,505 | 468 | 737 | 561 | 924 | 2,327 | 3,166 |
| 2-3am | 1,080 | 1,230 | 346 | 640 | 409 | 582 | 1,835 | 2,452 |
| 3-4am | 1,299 | 1,171 | 364 | 747 | 426 | 499 | 2,089 | 2,417 |
| 4-5am | 2,181 | 1,600 | 594 | 1,053 | 858 | 566 | 3,633 | 3,219 |
| 5-6am | 6,092 | 2,885 | 2,062 | 1,310 | 2,664 | 805 | 10,818 | 5,000 |
| 6-7am | 10,621 ** | 5,108 | 3,097 ** | 2,111 | 5,053 ** | 1,375 | 18,771 ** | 8,594 |
| 7-8am | 9,900 | 6,842 | 2,965 | 2,762 | 4,664 | 1,874 | 17,529 | 11,478 |
| 8-9am | 8,688 | 7,595 | 2,938 | 2,671 | 4,385 | 1,948 | 16,011 | 12,214 |
| 9-10am | 8,580 | 6,591 | 2,916 | 2,190 | 4,143 | 1,976 | 15,639 | 10,757 |
| 10-11am | 7,520 | 6,277 | 2,631 | 1,987 | 3,459 | 2,309 | 13,610 | 10,573 |
| 11-12am | 7,022 | 5,500 | 2,233 | 1,917 | 3,053 | 2,264 | 12,308 | 9,681 |
| 12-1pm | 6,593 | 6,255 | 2,088 | 1,971 | 2,679 | 2,441 | 11,360 | 10,667 |
| 1-2pm | 6,661 | 6,905 | 2,089 | 2,287 | 2,670 | 3,024 | 11,420 | 12,216 |
| 2-3pm | 7,123 | 7,815 | 2,196 | 2,719 | 2,751 | 3,607 | 12,070 | 14,141 |
| 3-4pm | 7,548 | 10,846 | 2,506 | 2,614 | 2,784 | 3,767 | 12,838 | 17,227 |
| 4-5pm | 8,123 | 11,061 ** | 2,713 | 2,495 | 2,271 | 4,699 | 13,107 | 18,255 ** |
| 5-6pm | 8,459 | 10,577 | 2,837 | 1,691 | 1,812 | 5,068 ** | 13,108 | 17,336 |
| 6-7pm | 8,063 | 10,043 | 2,898 | 2,121 | 2,245 | 4,965 | 13,206 | 17,129 |
| 7-8pm | 6,760 | 9,760 | 2,548 | 2,680 | 2,317 | 4,087 | 11,625 | 16,527 |
| 8-9pm | 5,399 | 8,693 | 1,987 | 2,823 ** | 2,091 | 3,781 | 9,477 | 15,297 |
| 9-10pm | 4,621 | 6,877 | 1,681 | 2,510 | 1,969 | 3,465 | 8,271 | 12,852 |
| 10-11pm | 3,896 | 6,224 | 1,666 | 2,139 | 1,870 | 3,373 | 7,432 | 11,736 |
| 11-12pm | 2,901 | 5,083 | 1,252 | 1,795 | 1,491 | 2,617 | 5,644 | 9,495 |
| Totals | 142,321 | 149,726 | 47,827 | 46,840 | 57,542 | 62,290 | 247,690 | 258,856 |
| 7-10am | 27,168 | 21,028 | 8,819 | 7,623 | 13,192 | 5,798 | 49,179 | 34,449 |
| 10am-1pm | 21,135 | 18,032 | 6,952 | 5,875 | 9,191 | 7,014 | 37,278 | 30,921 |
| 1-4pm | 21,332 | 25,566 | 6,791 | 7,620 | 8,205 | 10,398 | 36,328 | 43,584 |
| 4-7pm | 24,645 | 31,681 | 8,448 | 6,307 | 6,328 | 14,732 | 39,421 | 52,720 |
| 7am-7pm | 94,280 | 96,307 | 31,010 | 27,425 | 36,916 | 37,942 | 162,206 | 161,674 |

^{**} 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
2010

| | | | | | | | To | tals |
|----------|----------|----------|----------|-----------|-----------|-------------|---------------|------------|
| | Bayonne | e Bridge | Goetha | ls Bridge | Outerbrid | ge Crossing | То | То |
| | S/B | N/B | E/B | W/B | E/B | W/B | Staten Island | New Jersey |
| 12-1am | 144 | 70 | 622 | 274 | 470 | 397 | 1,236 | 741 |
| 1-2am | 103 | 50 | 420 | 214 | 300 | 256 | 823 | 520 |
| 2-3am | 80 | 39 | 308 | 198 | 255 | 176 | 643 | 413 |
| 3-4am | 76 | 41 | 333 | 209 | 284 | 183 | 693 | 433 |
| 4-5am | 111 | 61 | 493 | 341 | 649 | 253 | 1,253 | 655 |
| 5-6am | 223 | 217 | 1,189 | 838 | 1,682 | 514 | 3,094 | 1,569 |
| 6-7am | 405 | 664 | 1,978 | 1,671 | 2,508 | 1,140 | 4,891 | 3,475 |
| 7-8am | 511 | 1,131 ** | 2,056 | 2,550 | 2,535 | 2,025 | 5,102 | 5,706 |
| 8-9am | 513 | 1,067 | 2,003 | 2,763 ** | 2,334 | 2,336 | 4,850 | 6,166 ** |
| 9-10am | 425 | 613 | 2,016 | 2,137 | 2,271 | 1,803 | 4,712 | 4,553 |
| 10-11am | 404 | 392 | 1,878 | 1,980 | 1,916 | 1,609 | 4,198 | 3,981 |
| 11-12am | 405 | 387 | 1,824 | 1,805 | 1,772 | 1,540 | 4,001 | 3,732 |
| 12-1pm | 424 | 394 | 1,913 | 1,742 | 1,834 | 1,510 | 4,171 | 3,646 |
| 1-2pm | 483 | 385 | 2,085 | 1,765 | 1,972 | 1,505 | 4,540 | 3,655 |
| 2-3pm | 629 | 402 | 2,264 | 2,098 | 2,110 | 1,910 | 5,003 | 4,410 |
| 3-4pm | 785 | 419 | 2,376 | 2,318 | 2,244 | 2,509 | 5,405 | 5,246 |
| 4-5pm | 943 | 491 | 2,586 | 2,587 | 2,508 | 2,537 | 6,037 | 5,615 |
| 5-6pm | 1,262 ** | 463 | 2,816 ** | 2,287 | 2,822 ** | 2,635 ** | 6,900 ** | 5,385 |
| 6-7pm | 1,151 | 397 | 2,682 | 1,823 | 2,503 | 2,454 | 6,336 | 4,674 |
| 7-8pm | 759 | 313 | 2,224 | 1,348 | 2,010 | 2,164 | 4,993 | 3,825 |
| 8-9pm | 495 | 266 | 1,801 | 1,083 | 1,611 | 2,397 | 3,907 | 3,746 |
| 9-10pm | 369 | 195 | 1,467 | 882 | 1,335 | 1,408 | 3,171 | 2,485 |
| 10-11pm | 308 | 172 | 1,219 | 647 | 1,042 | 966 | 2,569 | 1,785 |
| 11-12pm | 240 | 104 | 917 | 456 | 757 | 714 | 1,914 | 1,274 |
| Totals | 11,248 | 8,733 | 39,470 | 34,016 | 39,724 | 34,941 | 90,442 | 77,690 |
| 7-10am | 1,449 | 2,811 | 6,075 | 7,450 | 7,140 | 6,164 | 14,664 | 16,425 |
| 10am-1pm | 1,233 | 1,173 | 5,615 | 5,527 | 5,522 | 4,659 | 12,370 | 11,359 |
| 1-4pm | 1,897 | 1,206 | 6,725 | 6,181 | 6,326 | 5,924 | 14,948 | 13,311 |
| 4-7pm | 3,356 | 1,351 | 8,084 | 6,697 | 7,833 | 7,626 | 19,273 | 15,674 |
| 7am-7pm | 7,935 | 6,541 | 26,499 | 25,855 | 26,821 | 24,373 | 61,255 | 56,769 |

^{**} 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 - 2010

Eastbound to Manhattan

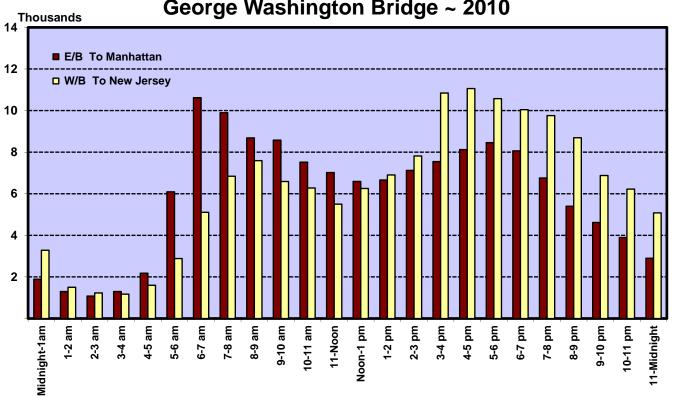
Westbound to New Jersey

| _ | Eastbound to Manhattan | | | | | Westbound to New Jersey | | | | | |
|----------|------------------------|-------|-----------------|-----------------|-------------------|-------------------------|-------|-----------------|-----------------|-------------------|--------------------------|
| | Autos | Buses | Small Trucks | Large Trucks | Total Vehicles | Autos | Buses | Small Trucks | Large Trucks | Total Vehicles | 2-Way Grand Totals |
| 12-1am | 1,548 | 16 | 47 | 282 | 1,893 | 2,866 | 12 | 44 | 361 | 3,283 | 5,176 |
| 1-2am | 932 | 10 | 55 | 301 | 1,298 | | | | | 1,505 | 2,803 |
| 2-3am | 649 | 6 | 68 | 357 | 1,080 | | | | | 1,230 | 2,310 |
| 3-4am | 743 | 8 | 92 | 456 | 1,299 | | | | | 1,171 | 2,470 |
| 4-5am | 1,402 | 10 | 146 | 623 | 2,181 | | | | | 1,600 | 3,781 |
| 5-6am | 5,003 | 34 | 310 | 745 | 6,092 | 2,179 | 11 | 323 | 372 | 2,885 | 8,977 |
| 6-7am | 9,597 | 76 | 416 | 532 | 10,621 ** | 4,380 | 51 | 316 | 361 | 5,108 | 15,729 |
| 7-8am | 9,097 | 106 | 321 | 376 | 9,900 | 5,977 | 73 | 388 | 404 | 6,842 | 16,742 |
| 8-9am | 7,923 | 100 | 314 | 351 | 8,688 | 6,770 | 102 | 341 | 382 | 7,595 | 16,283 |
| 9-10am | 7,732 | 91 | 339 | 418 | 8,580 | 5,566 | 97 | 341 | 587 | 6,591 | 15,171 |
| 10-11am | 6,719 | 80 | 312 | 409 | 7,520 | 5,157 | 67 | 390 | 663 | 6,277 | 13,797 |
| 11-12am | 6,240 | 70 | 299 | 413 | 7,022 | 4,532 | 42 | 344 | 582 | 5,500 | 12,522 |
| 12-1pm | 5,849 | 74 | 282 | 388 | 6,593 | 5,199 | 45 | 318 | 693 | 6,255 | 12,848 |
| 1-2pm | 5,971 | 72 | 266 | 352 | 6,661 | 5,892 | 49 | 635 | 329 | 6,905 | 13,566 |
| 2-3pm | 6,460 | 85 | 252 | 326 | 7,123 | 6,877 | 51 | 347 | 540 | 7,815 | 14,938 |
| 3-4pm | 6,929 | 103 | 232 | 284 | 7,548 | 9,814 | 55 | 428 | 549 | 10,846 | 18,394 |
| 4-5pm | 7,577 | 121 | 193 | 232 | 8,123 | 10,134 | 83 | 391 | 453 | 11,061 ** | 19,184 ** |
| 5-6pm | 7,987 | 117 | 144 | 211 | 8,459 | 9,797 | 69 | 267 | 444 | 10,577 | 19,036 |
| 6-7pm | 7,640 | 95 | 117 | 211 | 8,063 | 9,410 | 87 | 223 | 323 | 10,043 | 18,106 |
| 7-8pm | 6,349 | 85 | 96 | 230 | 6,760 | 9,157 | 49 | 166 | 388 | 9,760 | 16,520 |
| 8-9pm | 4,983 | 68 | 80 | 268 | 5,399 | 8,123 | 43 | 107 | 420 | 8,693 | 14,092 |
| 9-10pm | 4,242 | 51 | 70 | 258 | 4,621 | 6,424 | 32 | 68 | 353 | 6,877 | 11,498 |
| 10-11pm | 3,537 | 34 | 59 | 266 | 3,896 | 5,822 | 21 | 52 | 329 | 6,224 | 10,120 |
| 11-12pm | 2,570 | 25 | 44 | 262 | 2,901 | 4,668 | 28 | 58 | 329 | 5,083 | 7,984 |
| Totals | 127,679 | 1,537 | 4,554 | 8,551 | 142,321 | | | | | 149,726 | 292,047 |
| 7-10am | 24,752 | 297 | 974 | 1,145 | 27,168 | 18,313 | 272 | 1,070 | 1,373 | 21,028 | 48,196 |
| 10am-1pm | 18,808 | 224 | 893 | 1,210 | 21,135 | 14,888 | 154 | 1,052 | 1,938 | 18,032 | 39,167 |
| 1-4pm | 19,360 | 260 | 750 | 962 | 21,332 | 22,583 | 155 | 1,410 | 1,418 | 25,566 | 46,898 |
| 4-7pm | 23,204 | 333 | 454 | 654 | 24,645 | 29,341 | 239 | 881 | 1,220 | 31,681 | 56,326 |
| 7am-7pm | 86,124 | 1,114 | 3,071 | 3,971 | 94,280 | 85,125 | 820 | 4,413 | 5,949 | 96,307 | 190,587 |

Classification based on October-November 2010 Data.

^{**} Peak Volumes

Hourly Vehicular Volumes George Washington Bridge ~ 2010



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



Hourly Vehicular Volumes Holland Tunnel - 2010

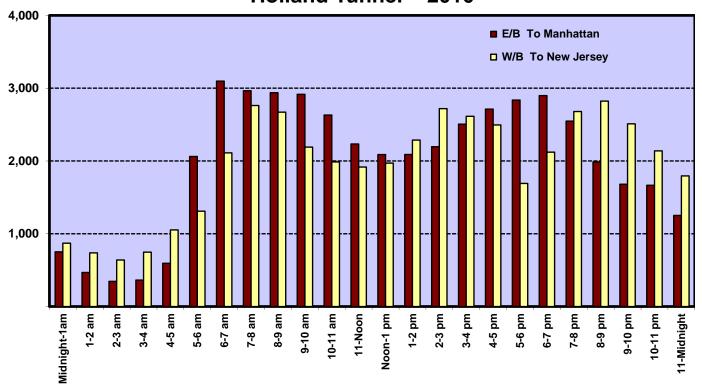
Eastbound to Manhattan Westbound to New Jersey

| _ | Eastbouria to Marinattan | | | | | westbound to New Jersey | | | | | |
|----------|--------------------------|-------|-----------------|-----------------|-------------------|-------------------------|-------|-----------------|-----------------|-------------------|--------------------------|
| | Autos | Buses | Small Trucks | Large Trucks | Total Vehicles | Autos | Buses | Small Trucks | Large Trucks | Total Vehicles | 2-Way Grand Totals |
| 12-1am | 726 | 12 | 14 | 0 | 752 | 856 | 2 | 10 | 2 | 870 | 1,622 |
| 1-2am | 438 | 7 | 23 | 0 | 468 | | | | | 737 | 1,205 |
| 2-3am | 307 | 5 | 33 | 1 | 346 | | | | | 640 | 986 |
| 3-4am | 300 | 4 | 59 | 1 | 364 | | | | | 747 | 1,111 |
| 4-5am | 537 | 8 | 48 | 1 | 594 | | | | | 1,053 | 1,647 |
| 5-6am | 1,962 | 21 | 78 | 1 | 2,062 | 1,237 | 8 | 64 | 1 | 1,310 | 3,372 |
| 6-7am | 2,961 | 60 | 75 | 1 | 3,097 ** | 1,979 | 34 | 98 | 0 | 2,111 | 5,208 |
| 7-8am | 2,837 | 57 | 70 | 1 | 2,965 | 2,621 | 44 | 96 | 1 | 2,762 | 5,727 * |
| 8-9am | 2,797 | 58 | 82 | 1 | 2,938 | 2,509 | 62 | 100 | 0 | 2,671 | 5,609 |
| 9-10am | 2,796 | 53 | 66 | 1 | 2,916 | 1,983 | 80 | 127 | 0 | 2,190 | 5,106 |
| 10-11am | 2,527 | 34 | 69 | 1 | 2,631 | 1,776 | 31 | 175 | 5 | 1,987 | 4,618 |
| 11-12am | 2,146 | 25 | 61 | 1 | 2,233 | 1,747 | 17 | 153 | 0 | 1,917 | 4,150 |
| 12-1pm | 2,011 | 27 | 49 | 1 | 2,088 | 1,829 | 15 | 127 | 0 | 1,971 | 4,059 |
| 1-2pm | 2,005 | 31 | 52 | 1 | 2,089 | 2,128 | 11 | 138 | 10 | 2,287 | 4,376 |
| 2-3pm | 2,108 | 38 | 49 | 1 | 2,196 | 2,554 | 15 | 142 | 8 | 2,719 | 4,915 |
| 3-4pm | 2,398 | 62 | 45 | 1 | 2,506 | 2,451 | 16 | 147 | 0 | 2,614 | 5,120 |
| 4-5pm | 2,581 | 93 | 39 | 0 | 2,713 | 2,370 | 35 | 89 | 1 | 2,495 | 5,208 |
| 5-6pm | 2,730 | 81 | 26 | 0 | 2,837 | 1,620 | 21 | 50 | 0 | 1,691 | 4,528 |
| 6-7pm | 2,805 | 69 | 23 | 1 | 2,898 | 2,045 | 32 | 42 | 2 | 2,121 | 5,019 |
| 7-8pm | 2,489 | 36 | 22 | 1 | 2,548 | 2,612 | 17 | 49 | 2 | 2,680 | 5,228 |
| 8-9pm | 1,938 | 28 | 20 | 1 | 1,987 | 2,773 | 19 | 31 | 0 | 2,823 ** | 4,810 |
| 9-10pm | 1,642 | 16 | 23 | 0 | 1,681 | 2,478 | 14 | 17 | 1 | 2,510 | 4,191 |
| 10-11pm | 1,628 | 20 | 18 | Ō | 1,666 | 2,096 | 19 | 21 | 3 | 2,139 | 3,805 |
| 11-12pm | 1,230 | 11 | 11 | 0 | 1,252 | 1,765 | 5 | 15 | 10 | 1,795 | 3,047 |
| Totals | 45,899 | 856 | 1,055 | 17 | 47,827 | | | | | 46,840 | 94,667 |
| 7-10am | 8,430 | 168 | 218 | 3 | 8,819 | 7,113 | 186 | 323 | 1 | 7,623 | 16,442 |
| 10am-1pm | 6,684 | 86 | 179 | 3 | 6,952 | 5,352 | 63 | 455 | 5 | 5,875 | 12,827 |
| 1-4pm | 6,511 | 131 | 146 | 3 | 6,791 | 7,133 | 42 | 427 | 18 | 7,620 | 14,411 |
| 4-7pm | 8,116 | 243 | 88 | 1 | 8,448 | 6,035 | 88 | 181 | 3 | 6,307 | 14,755 |
| 7am-7pm | 29,741 | 628 | 631 | 10 | 31,010 | 25,633 | 379 | 1,386 | 27 | 27,425 | 58,435 |

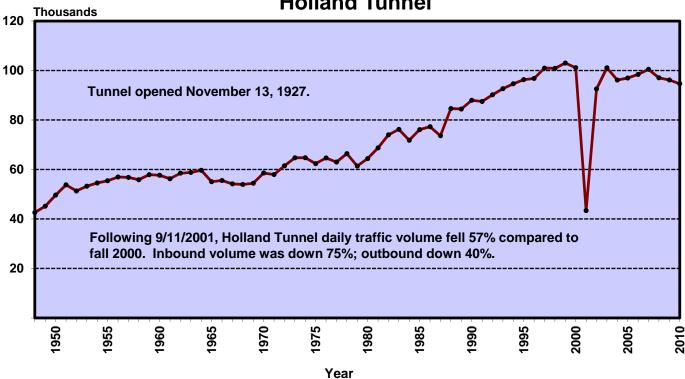
Classification based on October 2010 Data.

^{**} Peak Volumes

Hourly Vehicular Volumes Holland Tunnel ~ 2010



Average Daily Traffic Volumes ~ Total of Both Directions Holland Tunnel



Hourly Vehicular Volumes Lincoln Tunnel - 2010

Eastbound to Manhattan

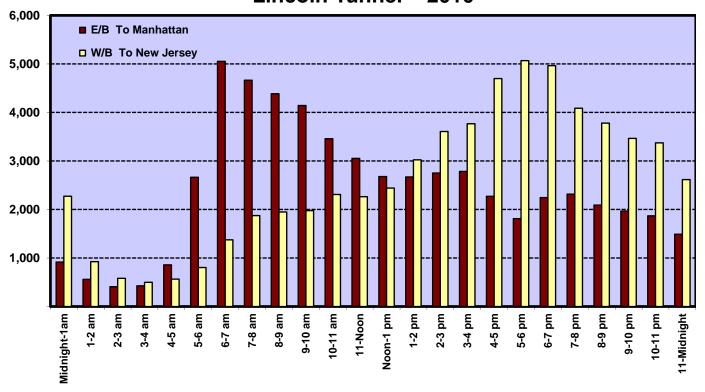
Westbound to New Jersey

| | | Easibul | iiiu to maiii | iattari | | | | Mesimoni | id to New 3 | iei sey | | |
|----------|--------|---------|-----------------|-----------------|-------------------|----|--------|----------|-----------------|-----------------|-------------------|--------------------------|
| _ | Autos | Buses | Small Trucks | Large Trucks | Total Vehicles | • | Autos | Buses | Small Trucks | Large Trucks | Total Vehicles | 2-Way Grand Totals |
| 12-1am | 788 | 65 | 42 | 22 | 917 | | 2,067 | 93 | 69 | 45 | 2,274 | 3,191 |
| 1-2am | 468 | 29 | 40 | 24 | 561 | | | | | | 924 | 1,485 |
| 2-3am | 326 | 13 | 47 | 23 | 409 | | | | | | 582 | 991 |
| 3-4am | 319 | 11 | 64 | 32 | 426 | | | | | | 499 | 925 |
| 4-5am | 612 | 29 | 140 | 77 | 858 | | | | | | 566 | 1,424 |
| 5-6am | 2,115 | 158 | 298 | 93 | 2,664 | | 579 | 45 | 92 | 89 | 805 | 3,469 |
| 6-7am | 4,138 | 468 | 385 | 62 | 5,053 | ** | 1,007 | 234 | 84 | 50 | 1,375 | 6,428 |
| 7-8am | 3,510 | 811 | 310 | 33 | 4,664 | | 1,251 | 444 | 112 | 67 | 1,874 | 6,538 |
| 8-9am | 3,138 | 916 | 310 | 21 | 4,385 | | 1,096 | 663 | 136 | 53 | 1,948 | 6,333 |
| 9-10am | 3,279 | 594 | 248 | 22 | 4,143 | | 1,146 | 614 | 186 | 30 | 1,976 | 6,119 |
| 10-11am | 2,956 | 276 | 206 | 21 | 3,459 | | 1,608 | 400 | 240 | 61 | 2,309 | 5,768 |
| 11-12am | 2,650 | 224 | 161 | 18 | 3,053 | | 1,727 | 209 | 257 | 71 | 2,264 | 5,317 |
| 12-1pm | 2,327 | 197 | 141 | 14 | 2,679 | | 1,957 | 183 | 260 | 41 | 2,441 | 5,120 |
| 1-2pm | 2,287 | 243 | 127 | 13 | 2,670 | | 2,455 | 185 | 340 | 44 | 3,024 | 5,694 |
| 2-3pm | 2,329 | 287 | 125 | 10 | 2,751 | | 3,053 | 206 | 296 | 52 | 3,607 | 6,358 |
| 3-4pm | 2,295 | 391 | 91 | 7 | 2,784 | | 3,224 | 251 | 262 | 30 | 3,767 | 6,551 |
| 4-5pm | 1,671 | 528 | 67 | 5 | 2,271 | | 4,024 | 404 | 241 | 30 | 4,699 | 6,970 |
| 5-6pm | 1,397 | 370 | 41 | 4 | 1,812 | | 4,180 | 681 | 191 | 16 | 5,068 ** | 6,880 |
| 6-7pm | 1,783 | 410 | 46 | 6 | 2,245 | | 4,133 | 690 | 122 | 20 | 4,965 | 7,210 ** |
| 7-8pm | 1,936 | 317 | 55 | 9 | 2,317 | | 3,524 | 478 | 79 | 6 | 4,087 | 6,404 |
| 8-9pm | 1,783 | 231 | 59 | 18 | 2,091 | | 3,381 | 294 | 79 | 27 | 3,781 | 5,872 |
| 9-10pm | 1,694 | 180 | 67 | 28 | 1,969 | | 3,140 | 224 | 67 | 34 | 3,465 | 5,434 |
| 10-11pm | 1,625 | 154 | 67 | 24 | 1,870 | | 3,098 | 179 | 71 | 25 | 3,373 | 5,243 |
| 11-12pm | 1,299 | 109 | 60 | 23 | 1,491 | | 2,371 | 133 | 67 | 46 | 2,617 | 4,108 |
| Totals | 46,725 | 7,011 | 3,197 | 609 | 57,542 | | | | | | 62,290 | 119,832 |
| 7-10am | 9,927 | 2,321 | 868 | 76 | 13,192 | | 3,493 | 1,721 | 434 | 150 | 5,798 | 18,990 |
| 10am-1pm | 7,933 | 697 | 508 | 53 | 9,191 | | 5,292 | 792 | 757 | 173 | 7,014 | 16,205 |
| 1-4pm | 6,911 | 921 | 343 | 30 | 8,205 | | 8,732 | 642 | 898 | 126 | 10,398 | 18,603 |
| 4-7pm | 4,851 | 1,308 | 154 | 15 | 6,328 | | 12,337 | 1,775 | 554 | 66 | 14,732 | 21,060 |
| 7am-7pm | 29,622 | 5,247 | 1,873 | 174 | 36,916 | | 29,854 | 4,930 | 2,643 | 515 | 37,942 | 74,858 |

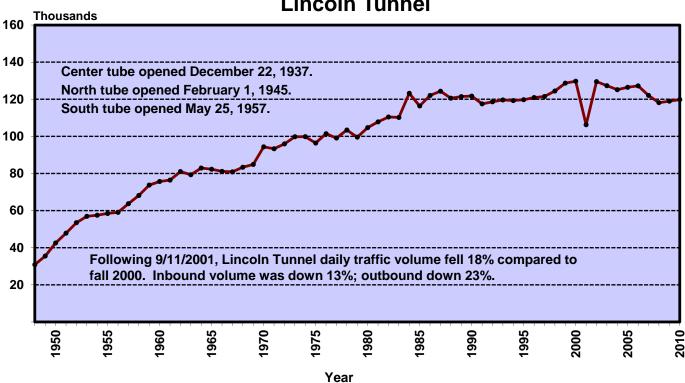
Classification based on October 2010 Data.

^{**} Peak Volumes

Hourly Vehicular Volumes Lincoln Tunnel ~ 2010



Average Daily Traffic Volumes ~ Total of Both Directions Lincoln Tunnel



Hourly Vehicular Volumes Bayonne Bridge - 2010

Southbound to Staten Island

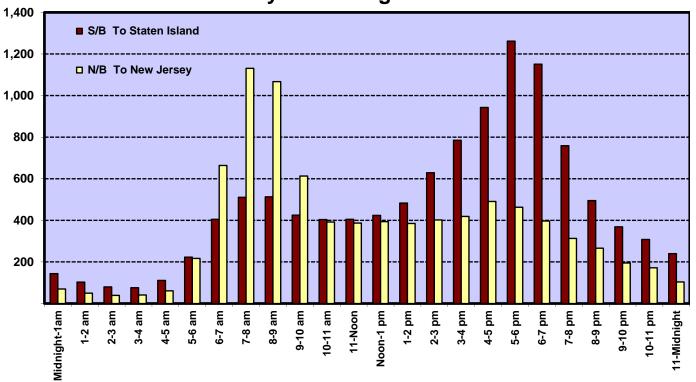
Northbound to New Jersey

| _ | Southbound to Staten Island | | | | Northbound to New Jersey | | | | | | |
|----------|-----------------------------|-------|-----------------|-----------------|--------------------------|-------|-------|-----------------|-----------------|-------------------|--------------------------|
| _ | Autos | Buses | Small Trucks | Large Trucks | Total Vehicles | Autos | Buses | Small Trucks | Large Trucks | Total Vehicles | 2-Way Grand Totals |
| 12-1am | 132 | 1 | 5 | 6 | 144 | 63 | 0 | 4 | 3 | 70 | 214 |
| 1-2am | 84 | 1 | 11 | 7 | 103 | | | | | 50 | 153 |
| 2-3am | 64 | 0 | 9 | 7 | 80 | | | | | 39 | 119 |
| 3-4am | 55 | 0 | 13 | 8 | 76 | | | | | 41 | 117 |
| 4-5am | 76 | 0 | 15 | 20 | 111 | | | | | 61 | 172 |
| 5-6am | 160 | 1 | 19 | 43 | 223 | 202 | 0 | 9 | 6 | 217 | 440 |
| 6-7am | 322 | 6 | 32 | 45 | 405 | 629 | 7 | 13 | 15 | 664 | 1,069 |
| 7-8am | 411 | 14 | 36 | 50 | 511 | 1,083 | 7 | 29 | 12 | 1,131 ** | 1,642 |
| 8-9am | 416 | 10 | 35 | 52 | 513 | 990 | 4 | 45 | 28 | 1,067 | 1,580 |
| 9-10am | 323 | 10 | 43 | 49 | 425 | 531 | 1 | 41 | 40 | 613 | 1,038 |
| 10-11am | 305 | 6 | 41 | 52 | 404 | 334 | 1 | 36 | 21 | 392 | 796 |
| 11-12am | 315 | 3 | 35 | 52 | 405 | 306 | 0 | 44 | 37 | 387 | 792 |
| 12-1pm | 342 | 1 | 35 | 46 | 424 | 298 | 1 | 35 | 60 | 394 | 818 |
| 1-2pm | 404 | 3 | 34 | 42 | 483 | 300 | 0 | 48 | 37 | 385 | 868 |
| 2-3pm | 544 | 5 | 37 | 43 | 629 | 314 | 3 | 45 | 40 | 402 | 1,031 |
| 3-4pm | 716 | 4 | 33 | 32 | 785 | 340 | 4 | 44 | 31 | 419 | 1,204 |
| 4-5pm | 891 | 6 | 24 | 22 | 943 | 411 | 6 | 38 | 36 | 491 | 1,434 |
| 5-6pm | 1,208 | 8 | 29 | 17 | 1,262 ** | 428 | 4 | 25 | 6 | 463 | 1,725 ** |
| 6-7pm | 1,109 | 7 | 20 | 15 | 1,151 | 366 | 6 | 18 | 7 | 397 | 1,548 |
| 7-8pm | 723 | 5 | 13 | 18 | 759 | 289 | 2 | 16 | 6 | 313 | 1,072 |
| 8-9pm | 464 | 3 | 15 | 13 | 495 | 243 | 0 | 18 | 5 | 266 | 761 |
| 9-10pm | 350 | 1 | 9 | 9 | 369 | 175 | 1 | 16 | 3 | 195 | 564 |
| 10-11pm | 288 | 2 | 10 | 8 | 308 | 160 | 0 | 5 | 7 | 172 | 480 |
| 11-12pm | 227 | 2 | 5 | 6 | 240 | 92 | 0 | 8 | 4 | 104 | 344 |
| Totals | 9,929 | 99 | 558 | 662 | 11,248 | | | | | 8,733 | 19,981 |
| 7-10am | 1,150 | 34 | 114 | 151 | 1,449 | 2,604 | 12 | 115 | 80 | 2,811 | 4,260 |
| 10am-1pm | 962 | 10 | 111 | 150 | 1,233 | 938 | 2 | 115 | 118 | 1,173 | 2,406 |
| 1-4pm | 1,664 | 12 | 104 | 117 | 1,897 | 954 | 7 | 137 | 108 | 1,206 | 3,103 |
| 4-7pm | 3,208 | 21 | 73 | 54 | 3,356 | 1,205 | 16 | 81 | 49 | 1,351 | 4,707 |
| 7am-7pm | 6,984 | 77 | 402 | 472 | 7,935 | 5,701 | 37 | 448 | 355 | 6,541 | 14,476 |

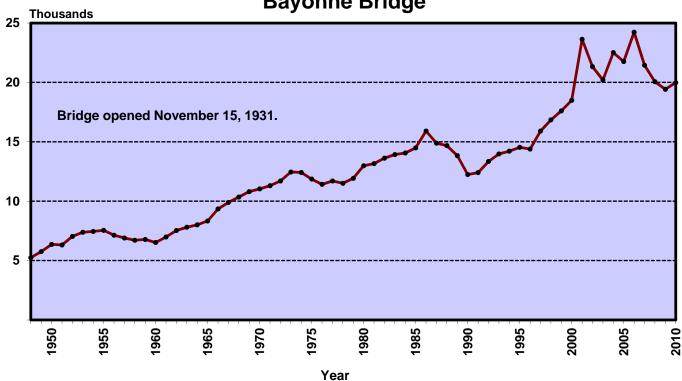
Classification based on October 2010 Data.

^{**} Peak Volumes

Hourly Vehicular Volumes Bayonne Bridge ~ 2010



Average Daily Traffic Volumes ~ Total of Both Directions Bayonne Bridge



Hourly Vehicular Volumes Goethals Bridge - 2010

Eastbound to Staten Island

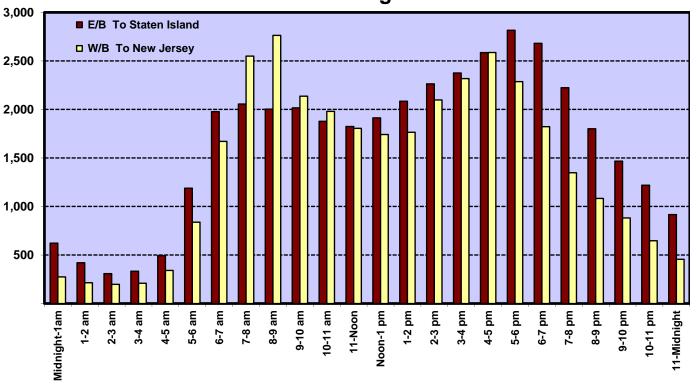
Westbound to New Jersey

| | | ⊑aStboui | iu io Stateri | isiariu | | | westbou | na to new . | Jersey | | _ |
|----------|--------|----------|-----------------|-----------------|-------------------|--------|---------|-----------------|-----------------|-------------------|--------------------------|
| _ | Autos | Buses | Small Trucks | Large Trucks | Total Vehicles | Autos | Buses | Small Trucks | Large Trucks | Total Vehicles | 2-Way Grand Totals |
| 12-1am | 556 | 4 | 11 | 51 | 622 | 232 | 0 | 9 | 33 | 274 | 896 |
| 1-2am | 345 | 4 | 10 | 61 | 420 | | | | | 214 | 634 |
| 2-3am | 225 | 3 | 12 | 68 | 308 | | | | | 198 | 506 |
| 3-4am | 215 | 3 | 22 | 93 | 333 | | | | | 209 | 542 |
| 4-5am | 307 | 3 | 44 | 139 | 493 | | | | | 341 | 834 |
| 5-6am | 881 | 7 | 99 | 202 | 1,189 | 739 | 12 | 41 | 46 | 838 | 2,027 |
| 6-7am | 1,575 | 12 | 155 | 236 | 1,978 | 1,496 | 29 | 60 | 86 | 1,671 | 3,649 |
| 7-8am | 1,654 | 19 | 155 | 228 | 2,056 | 2,259 | 61 | 129 | 101 | 2,550 | 4,606 |
| 8-9am | 1,652 | 19 | 138 | 194 | 2,003 | 2,414 | 43 | 136 | 170 | 2,763 ** | 4,766 |
| 9-10am | 1,615 | 29 | 152 | 220 | 2,016 | 1,773 | 19 | 165 | 180 | 2,137 | 4,153 |
| 10-11am | 1,478 | 26 | 153 | 221 | 1,878 | 1,554 | 5 | 173 | 248 | 1,980 | 3,858 |
| 11-12am | 1,463 | 16 | 133 | 212 | 1,824 | 1,350 | 6 | 206 | 243 | 1,805 | 3,629 |
| 12-1pm | 1,576 | 11 | 127 | 199 | 1,913 | 1,351 | 7 | 149 | 235 | 1,742 | 3,655 |
| 1-2pm | 1,766 | 10 | 123 | 186 | 2,085 | 1,329 | 6 | 232 | 198 | 1,765 | 3,850 |
| 2-3pm | 1,967 | 11 | 118 | 168 | 2,264 | 1,710 | 12 | 172 | 204 | 2,098 | 4,362 |
| 3-4pm | 2,146 | 16 | 101 | 113 | 2,376 | 2,012 | 5 | 146 | 155 | 2,318 | 4,694 |
| 4-5pm | 2,416 | 24 | 76 | 70 | 2,586 | 2,253 | 7 | 176 | 151 | 2,587 | 5,173 ** |
| 5-6pm | 2,654 | 40 | 59 | 63 | 2,816 ** | 2,135 | 0 | 98 | 54 | 2,287 | 5,103 |
| 6-7pm | 2,530 | 45 | 47 | 60 | 2,682 | 1,705 | 1 | 57 | 60 | 1,823 | 4,505 |
| 7-8pm | 2,104 | 32 | 36 | 52 | 2,224 | 1,265 | 3 | 34 | 46 | 1,348 | 3,572 |
| 8-9pm | 1,711 | 16 | 26 | 48 | 1,801 | 1,016 | 0 | 32 | 35 | 1,083 | 2,884 |
| 9-10pm | 1,386 | 6 | 25 | 50 | 1,467 | 845 | 2 | 31 | 4 | 882 | 2,349 |
| 10-11pm | 1,141 | 5 | 19 | 54 | 1,219 | 585 | 0 | 9 | 53 | 647 | 1,866 |
| 11-12pm | 852 | 5 | 11 | 49 | 917 | 394 | 3 | 15 | 44 | 456 | 1,373 |
| Totals | 34,215 | 366 | 1,852 | 3,037 | 39,470 | | | | | 34,016 | 73,486 |
| 7-10am | 4,921 | 67 | 445 | 642 | 6,075 | 6,446 | 123 | 430 | 451 | 7,450 | 13,525 |
| 10am-1pm | 4,517 | 53 | 413 | 632 | 5,615 | 4,255 | 18 | 528 | 726 | 5,527 | 11,142 |
| 1-4pm | 5,879 | 37 | 342 | 467 | 6,725 | 5,051 | 23 | 550 | 557 | 6,181 | 12,906 |
| 4-7pm | 7,600 | 109 | 182 | 193 | 8,084 | 6,093 | 8 | 331 | 265 | 6,697 | 14,781 |
| 7am-7pm | 22,917 | 266 | 1,382 | 1,934 | 26,499 | 21,845 | 172 | 1,839 | 1,999 | 25,855 | 52,354 |

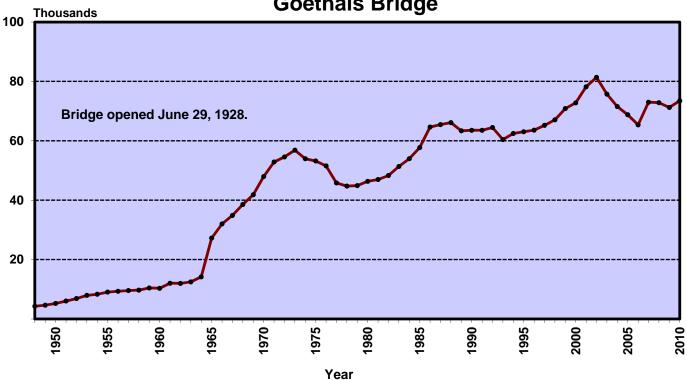
Classification based on October 2010 Data.

^{**} Peak Volumes

Hourly Vehicular Volumes Goethals Bridge ~ 2010



Average Daily Traffic Volumes ~ Total of Both Directions Goethals Bridge



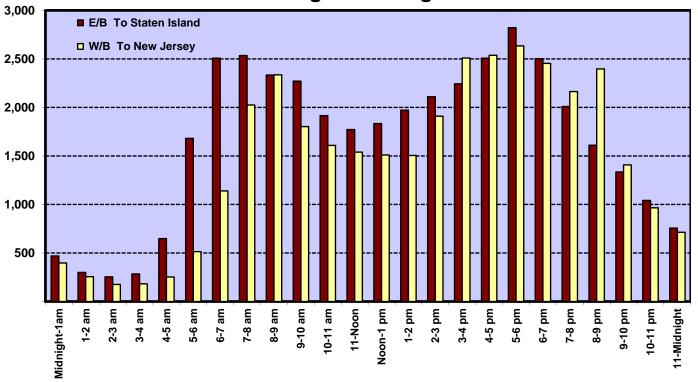
Hourly Vehicular Volumes Outerbridge Crossing - 2010

| | Eastbound to Staten Island | | | | | | Westbound to New Jersey | | | | |
|----------|----------------------------|-------|--------|--------|----------|--------|-------------------------|--------|--------|----------|----------------|
| _ | | | Small | Large | Total | | | Small | Large | Total | 2-Way Grand |
| | Autos | Buses | Trucks | Trucks | Vehicles | Autos | Buses | Trucks | Trucks | Vehicles | Totals |
| 12-1am | 407 | 3 | 6 | 54 | 470 | 369 | 1 | 9 | 18 | 397 | 867 |
| 1-2am | 221 | 2 | 7 | 70 | 300 | | | | | 256 | 556 |
| 2-3am | 171 | 1 | 12 | 71 | 255 | | | | | 176 | 431 |
| 3-4am | 183 | 1 | 17 | 83 | 284 | | | | | 183 | 467 |
| 4-5am | 464 | 3 | 48 | 134 | 649 | | | | | 253 | 902 |
| 5-6am | 1,458 | 8 | 82 | 134 | 1,682 | 439 | 0 | 36 | 39 | 514 | 2,196 |
| 6-7am | 2,313 | 6 | 86 | 103 | 2,508 | 1,058 | 0 | 45 | 37 | 1,140 | 3,648 |
| 7-8am | 2,339 | 4 | 98 | 94 | 2,535 | 1,864 | 3 | 106 | 52 | 2,025 | 4,560 |
| 8-9am | 2,145 | 5 | 97 | 87 | 2,334 | 2,177 | 8 | 145 | 6 | 2,336 | 4,670 |
| 9-10am | 2,027 | 5 | 108 | 131 | 2,271 | 1,616 | 30 | 81 | 76 | 1,803 | 4,074 |
| 10-11am | 1,700 | 4 | 86 | 126 | 1,916 | 1,407 | 16 | 124 | 62 | 1,609 | 3,525 |
| 11-12am | 1,577 | 3 | 76 | 116 | 1,772 | 1,338 | 3 | 122 | 77 | 1,540 | 3,312 |
| 12-1pm | 1,644 | 7 | 82 | 101 | 1,834 | 1,343 | 2 | 100 | 65 | 1,510 | 3,344 |
| 1-2pm | 1,795 | 6 | 83 | 88 | 1,972 | 1,316 | 0 | 109 | 80 | 1,505 | 3,477 |
| 2-3pm | 1,937 | 5 | 83 | 85 | 2,110 | 1,735 | 3 | 109 | 63 | 1,910 | 4,020 |
| 3-4pm | 2,115 | 5 | 73 | 51 | 2,244 | 2,362 | 3 | 95 | 49 | 2,509 | 4,753 |
| 4-5pm | 2,407 | 7 | 61 | 33 | 2,508 | 2,429 | 3 | 55 | 50 | 2,537 | 5,045 |
| 5-6pm | 2,729 | 12 | 49 | 32 | 2,822 ** | 2,548 | 8 | 43 | 36 | 2,635 ** | 5,457 ** |
| 6-7pm | 2,419 | 16 | 33 | 35 | 2,503 | 2,388 | 0 | 35 | 31 | 2,454 | 4,957 |
| 7-8pm | 1,925 | 20 | 30 | 35 | 2,010 | 2,119 | 10 | 11 | 24 | 2,164 | 4,174 |
| 8-9pm | 1,534 | 11 | 23 | 43 | 1,611 | 2,303 | 8 | 36 | 50 | 2,397 | 4,008 |
| 9-10pm | 1,276 | 4 | 15 | 40 | 1,335 | 1,342 | 12 | 17 | 37 | 1,408 | 2,743 |
| 10-11pm | 982 | 3 | 13 | 44 | 1,042 | 921 | 3 | 11 | 31 | 966 | 2,008 |
| 11-12pm | 704 | 1 | 8 | 44 | 757 | 682 | 2 | 8 | 22 | 714 | 1,471 |
| Totals | 36,472 | 142 | 1,276 | 1,834 | 39,724 | | | | | 34,941 | 74,665 |
| 7-10am | 6,511 | 14 | 303 | 312 | 7,140 | 5,657 | 41 | 332 | 134 | 6,164 | 13,304 |
| 10am-1pm | 4,921 | 14 | 244 | 343 | 5,522 | 4,088 | 21 | 346 | 204 | 4,659 | 10,181 |
| 1-4pm | 5,847 | 16 | 239 | 224 | 6,326 | 5,413 | 6 | 313 | 192 | 5,924 | 12,250 |
| 4-7pm | 7,555 | 35 | 143 | 100 | 7,833 | 7,365 | 11 | 133 | 117 | 7,626 | 15,459 |
| 7am-7pm | 24,834 | 79 | 929 | 979 | 26,821 | 22,523 | 79 | 1,124 | 647 | 24,373 | 51,194 |

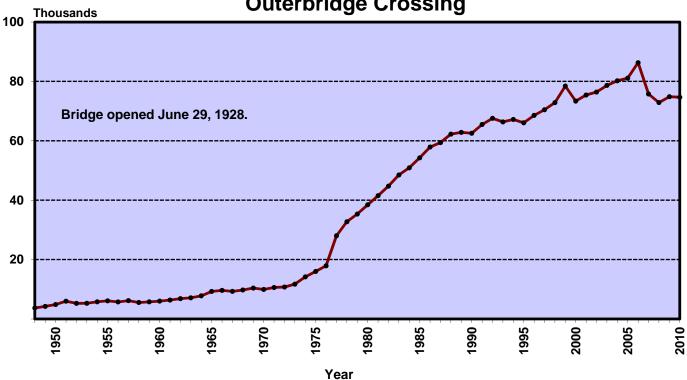
Classification based on October 2010 Data.

^{**} Peak Volumes

Hourly Vehicular Volumes Outerbridge Crossing ~ 2010



Average Daily Traffic Volumes ~ Total of Both Directions Outerbridge Crossing



APPENDIX 2010 Bridge and Tunnel Reconstruction

APPENDIX

Major Bridge Reconstruction In 2010

Brooklyn Bridge

Eastbound lane closures were in effect as follows.

| 01/01 – 03/19: | 11:00pm-6:00am | Mon–Fri | 1 e/b lane closed as needed, |
|-----------------------|----------------------|----------|------------------------------------|
| | 10:00am-3:00pm | Mon–Fri | 1 e/b lane closed as needed, |
| | 2:00am-2:00pm | Sat–Sun | 1 e/b lane closed as needed. |
| 03/20 – 07/09: | 11:00pm-6:00am | Mon–Fri | 1 e/b lane closed as needed, |
| | 2:00am-6:00am | Mon–Fri | 1 or 2 e/b lanes closed as needed, |
| | 10:00am-3:00pm | Mon–Fri | 1 e/b lane closed as needed, |
| | 2:00am-2:00pm | Sat | 1 e/b lane closed as needed, |
| | 3:00am-7:00am | Sat | 1 or 2 e/b lanes closed as needed, |
| | 2:00am-2:00pm | Sun | 1 e/b lane closed as needed, |
| | 3:00am-9:00am | Sun | 1 or 2 e/b lanes closed as needed. |
| 07/10 – 08/22: | 11:00pm–6:00am | Mon–Fri | 1 e/b lane closed as needed, |
| | 10:00am–3:00pm | Mon–Fri | 1 e/b lane closed as needed, |
| | 2:00am–2:00pm | Sat–Sun | 1 e/b lane closed as needed. |
| 08/23 – 10/29: | 10:00am-3:00pm | Mon–Fri | 1 e/b lane closed as needed. |
| 10/30 – 11/19: | 1:00am-6:00am | Mon-Sat | 1 e/b lane closed, |
| | 10:00am–3:00pm | Mon–Fri | 1 e/b lane closed as needed. |
| 11/20 – 12/23: | 1:00am-6:00am | Mon-Sat | 2 e/b lanes closed, |
| | 10:00am–3:00pm | Mon–Fri | 1 e/b lane closed as needed. |
| 12/24 – 12/31: | 10:00am-3:00pm | Mon-Sat | 1 e/b lane closed as needed. |
| Westbound lane closur | es were in effect as | follows. | |
| 03/20 – 06/18: | 11:00pm-6:00am | Sun–Fri | 1 w/b lane closed as needed, |
| | 12:01am-5:00am | Mon–Fri | 1 or 2 w/b lanes closed as needed, |
| | 10:00am-3:00pm | Mon–Fri | 1 w/b lane closed as needed, |
| | 1:00am-7:00am | Sat | 1 w/b lane closed as needed, |
| | 2:00am-6:00am | Sat | 1 or 2 w/b lanes closed as needed, |
| | 1:00am-9:00am | Sun | 1 w/b lane closed as needed, |
| | 2:00am-6:00am | Sun | 1 or 2 w/b lanes closed as needed. |
| 06/19 – 08/22: | 11:00pm-6:00am | Sun-Fri | 1 or 2 w/b lanes closed as needed, |
| | 10:00am-3:00pm | Mon–Fri | 1 w/b lane closed as needed, |
| | 1:00am-7:00am | Sat | 1 w/b lane closed as needed, |
| | 2:00am-6:00am | Sat | 1 or 2 w/b lanes closed as needed, |
| | 1:00am-9:00am | Sun | 1 w/b lane closed as needed, |
| | 2:00am-6:00am | Sun | 1 or 2 w/b lanes closed as needed. |

As of Monday night, August 23, the bridge was **closed to Manhattan-bound traffic** during the following hours. The bridge remained open to pedestrians and bicyclists during all hours.

08/23 – 09/24: 11:00pm–6:00am Sun-Fri Bridge closed Manhattan-bound, 12:01am–7:00am Sat Bridge closed Manhattan-bound, 12:01am–9:00am Sun Bridge closed Manhattan-bound. No closure Labor Day Weekend Sat-Sun-Mon. No closure Saturday, September 11.

12/11 – 12/31: 11:00pm–6:00am Sun-Fri 1 w/b lane closed as needed.

From October 30 to November 17, The Centre Street and Park Place entrances to the Brooklyn-bound roadway were closed overnight Monday to Saturday mornings from 1:00am to 6:00am

Manhattan Bridge

Manhattan Bridge Operation: All 2010 Except as Noted.

North bikeway and south walkway open.

• 6:00am - 10:00am Weekdays.

- Four or five lanes open westbound: two lanes on the north upper roadway (no trucks), and two or three lanes on the lower roadway for all vehicle types.
- Left lane of the north upper roadway reserved for buses and HOVs.
- Two lanes open eastbound on the south upper roadway.

• 10:00am – 2:00pm Weekdays.

- Between three and five lanes open westbound: one or two lanes on the north upper roadway (no trucks), and one to three lanes on the lower roadway for all vehicle types.
- Two lanes open eastbound on the south upper roadway.

• 2:00pm – 3:00pm Weekdays.

- Two lanes open westbound on the north upper roadway.
- Two lanes open eastbound on the south upper roadway.
- Lower roadway closed for reversal.

• 3:00pm – 5:00am Weekdays.

- Two lanes open westbound on the north upper roadway.
- Four or five lanes open eastbound: two lanes on the south upper roadway, and two or three lanes on the lower roadway.

• 9:00pm Friday – 10:00am Monday.

- Four or five lanes open westbound: two lanes on the north upper roadway, and two or three lanes on the lower roadway.
- Two lanes open eastbound on the south upper roadway.

- Five lanes open westbound: two lanes on the north upper roadway, and three lanes on the lower roadway.
- Two lanes open eastbound on the south upper roadway.
- NOTE: When the Brooklyn Bridge was closed to Manhattan-bound traffic there were 5 lanes eastbound and 2 lanes westbound from 3pm to 9pm Monday to Friday. From 9pm to 10am weekdays there were 5 lanes westbound and 2 lanes eastbound.

Lower Roadway.

- Available to all vehicle types at all times.
- Manhattan—bound 5:00am 2:00pm weekdays, and 9:00pm Friday to 5:00am Monday.
- Closed for reversal approximately 2:00pm 3:00pm weekdays.
- Brooklyn-bound 3:00pm 5:00am weekdays.
- Manhattan-bound trucks required to use the lower roadway weekdays 5:00am 2:00pm.
- Access to westbound Canal Street in Manhattan.
- Off-peak lane closures as needed on the lower roadway.

North Upper Roadway.

- Manhattan-bound all hours.
- No trucks weekdays 5:00am 2:00pm.
- Left lane reserved for **buses and HOVs** weekdays 6:00am –10:00am. Access to the HOV lane is from Brooklyn–Queens Expressway eastbound exit 29A, from Nassau Street, and from Flatbush Avenue–Tillary Street.
- Single—occupant cars permitted only in the right lane weekdays 6:00am—10:00am, with access from Brooklyn—Queens Expressway eastbound exit 29A and from Nassau Street. Single—occupant cars are not permitted to access the north upper roadway from Flatbush Avenue—Tillary Street during these hours.
- When the lower roadway is Manhattan—bound, access in Manhattan from the north upper roadway is to northbound Chrystie Street and eastbound Canal Street only, with no access to westbound Canal Street from the north upper roadway during these hours. Drivers seeking access to westbound Canal Street during these hours must use the lower roadway.
- From January 1 to July 30, the right turn lane from the North Upper Roadway (Manhattan-bound) onto eastbound Canal Street was closed 9pm to 2pm Sunday night to Friday afternoon, and was also closed as needed 9pm Friday to 5am Monday (passenger cars were allowed to turn right from the center lane onto eastbound Canal Street). Trucks and buses were prohibited from turning right onto eastbound Canal Street and were advised to follow the posted detour via Chrystie Street, Grand Street, and Allen Street for access to eastbound Canal Street.
- The North Upper Roadway was closed as follows.

```
06/07 - 06/17: 12:01am-5:00am Weeknights. 06/05 - 06/28 12:01am Sat. -5:00am Mon.
```

- Overnight and weekend lane closures as needed on the Manhattan-bound north upper roadway.

- South Upper Roadway.
 - Brooklyn-bound all hours for all vehicle types.
 - Off-peak lane closures as needed on the south upper roadway.
- NOTE: When the Brooklyn Bridge was closed to Manhattan-bound traffic there were 5 lanes eastbound and 2 lanes westbound on the Manhattan Bridge from 3pm to 9pm Monday to Friday. From 9pm to 10am weekdays there were 5 lanes westbound and 2 lanes eastbound.

Queensboro Bridge

Throughout 2010, trucks were permitted only on the two Lower Inner Roadways.

Throughout 2010, a **High Occupancy Vehicle (HOV) facility** was in effect on the Queensboro Bridge. The normally Queens—bound South Upper Roadway was reversed between 6:00am and 10:00am on weekdays to accommodate Manhattan—bound HOVs (no trucks) carrying two or more occupants.

Throughout 2010, the North Outer Roadway was reserved for bicyclists and pedestrians.

The North Upper Roadway was closed as follows:

06/12 – 06/27: 5:00am – 2:00pm Sat-Sun. Roadway closed. 07/10 – 07/11: 5:00am – 2:00pm Sat-Sun. Roadway closed.

South Upper Roadway reversed to W/B and all Lower Roadway lanes open during these hours.

The South Outer Roadway was closed intermittently as follows:

04/03 – 04/16: 1:00am – 5:30am Mon–Fri. Roadway closed as needed.

07/17 – 09/30: 1:00am – 5:00am Mon–Fri. Roadway closed as needed.

10/01 – 12/15: 1:00am – 6:00am Mon–Fri. Roadway closed as needed.

Throughout 2010, there were additional intermittent closings of single lanes on individual roadways of the Queensboro Bridge during off-peak hours.

Queensboro Bridge Operation: All 2010 except as noted.

North Inner Roadway: W/B all times; W/B trucks required to use this roadway. South Inner Roadway: E/B all times; E/B trucks required to use this roadway.

North Upper Roadway: W/B all times.

South Upper Roadway: Closed for reversal 5:30–6:00am weekdays,

W/B HOVs 6:00-10:00am weekdays,

Closed for reversal 10:00-11:00am weekdays,

E/B all other times.

North Outer Roadway: Bicyclists and pedestrians all times. South Outer Roadway: E/B all times (passenger cars only).

Williamsburg Bridge

Throughout 2010, trucks were permitted only on the outer roadways.

Pedestrian and bicycle access was maintained on the bridge at all times throughout 2010.

Williamsburg Bridge Operation: All 2010, Except certain weekends as noted below.

• Mon-Fri 6:00am - 10:00am.

Manhattan-bound: 4 lanes. Brooklyn-bound: 2 lanes.

• Mon-Fri 10:00am - 3:00pm.

Manhattan-bound: 3 lanes. Brooklyn-bound: 2 lanes.

All other times.

Manhattan-bound: 4 lanes. Brooklyn-bound: 4 lanes.

Weekend Operation: Jan. 23 – Feb. 6, Feb. 20, 2010.

• Sat. 5:00am – 8:00pm.

Manhattan-bound: 4 lanes. Brooklyn-bound: 2 lanes.

One lane closed on South Inner & South Outer Roadways;

Weekend Operation: June 26-27, 2010.

Sat-Sun 2:00am – Noon.

Manhattan-bound: 4 lanes.

Brooklyn-bound: 2 lanes. South Inner Roadway closed.

Weekend Operation: July 10-18, 2010.

• Sat-Sun 3:00am – 3:00pm.

Manhattan-bound: 3 lanes. Brooklyn-bound: 2 lanes.

North Outer Rdwy closed and 1 North Inner Rdwy lane closed.

South Inner Roadway reversed to Manhattan-bound. Manhattan-bound trucks banned from the bridge.

3:00pm - 8:00pm.

Manhattan-bound: 2 lanes. Brooklyn-bound: 4 lanes.

One lane closed on North Inner & North Outer Roadways.

Weekend Operation: July 24 – August 1, 2010.

• Sat-Sun 3:00am – 3:00pm.

Manhattan-bound: 2 lanes. Brooklyn-bound: 3 lanes.

South Inner Rdwy closed and 1 South Outer Rdwy lane closed.

North Inner Roadway reversed to Brooklyn-bound. Brooklyn-bound trucks banned from the bridge.

3:00pm - 8:00pm.

Manhattan-bound: 4 lanes. Brooklyn-bound: 2 lanes.

One lane closed on South Inner & South Outer Roadways.

Weekend Operation: August 7-8, 2010.

• Sat-Sun 3:00am - 3:00pm.

Manhattan-bound: 2 lanes. Brooklyn-bound: 3 lanes.

South Outer Rdwy closed and 1 South Inner Rdwy lane closed.

North Inner Roadway reversed to Brooklyn-bound. Brooklyn-bound trucks banned from the bridge.

3:00pm - 8:00pm.

Manhattan-bound: 4 lanes. Brooklyn-bound: 2 lanes.

One lane closed on South Inner & South Outer Roadways.

Weekend Operation: August 14-15, 2010.

• Sat-Sun 3:00am – 3:00pm.

Manhattan-bound: 4 lanes. Brooklyn-bound: 2 lanes. South Outer Rdwy closed.

Brooklyn-bound trucks banned from the bridge.

Third Avenue Bridge (Harlem River)

The bridge was closed overnight from 1:00am to 6:00am on Saturday morning, December 18, 2010.

Washington Bridge

Throughout 2010, the ramp from the eastbound Trans-Manhattan Expressway (I-95) to the Washington Bridge was closed round-the-clock.

From July 17 to December 31, one lane in each direction was closed weeknights from 12:01am to 6:00am.

Willis Avenue Bridge

From January 1 to August 27, the left lane on the north side of the bridge was closed round-the-clock. The right and center lanes continued to Willis Avenue or Bruckner Boulevard.

From January 26 to March 12, the right lane on the north side of the bridge was also closed round-the-clock. The right and center lanes continued to Willis Avenue or Bruckner Boulevard.

On Saturday, October 2, the entire bridge was closed from 2:00am to 7:00am to complete construction activities necessary for the transfer of traffic onto the **new bridge structure**. Motorists were detoured to the Madison Avenue Bridge during this period.

Two of four lanes on the main bridge were closed intermittently as follows.

```
01/01-10/02: 12:01am – 6:00am Weeknights;
1:00am – 7:00am Sat.
```

Throughout 2010, the pedestrian access at First Avenue and East 125th Street was closed, and a temporary access stairway was available at First Avenue and East 127th Street. The temporary staircase was not accessible to disabled persons unable to climb or descend stairs; they were encouraged to use the Third Avenue Bridge as an alternate.

145th Street Bridge

The entire bridge was fully closed as needed according to the following schedule for testing operations to complete the NYC DOT bridge reconstruction project:

```
01/05-06/30: 10:00pm - 6:00am Weeknights;
12:01am - 7:00am Sat-Sun.
```

No closures on this bridge during closures on the Macombs Dam Bridge, or within 2 hours of Yankee home games.

```
08/02–12/17: 10:00pm – 6:00am Weeknights;
12:01am – 7:00am Sat-Sun.
```

No closures on this bridge during closures on the Macombs Dam Bridge, or within 2 hours of Yankee home games.

Throughout 2010, there were additional closures of single lanes in each direction on the 145th Street Bridge and its approach ramps during off—peak hours.

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

From July 18 to August 15, one lane in each direction was maintained round-the-clock to facilitate phase I of bridge rehabilitation by NYCDOT Bridges.

From September 11 to November 26, half the roadway was closed round-the-clock and one lane in each direction was maintained on the open portion to facilitate NYCDOT bridge rehabilitation.

Kosciuszko Bridge

From March 20 to July 2, there were intermittent closures of one or two of three westbound lanes on weeknights between 10:00pm and 5:00am.

Cropsey Avenue Bridge

From August 28 to December 31, one lane in either direction was closed as needed during offpeak hours.

Hamilton Avenue Bridge

From August 28 to September 3, only one lane was open in each direction 9:00pm to 5:00am Monday nights to Saturday mornings.

Throughout 2010, there were additional intermittent closures of single lanes as needed during off-peak hours.

Mill Basin Bridge

From January 1 to February 5, one of three westbound lanes was closed 11:00pm to 1:00am weeknights, and two of three westbound lanes closed 1:00am to 5:00am weeknights.

From February 6 to December 31, one of three lanes in each direction was closed 10:00pm to 1:00am Mondays to Thursdays, and two of three lanes in each direction closed 1:00am to 5:00am Mondays to Thursdays. On Fridays, one of three lanes in each direction was closed 11:00pm to 1:00am, and two of three lanes in each direction closed 1:00am to 5:00am. One lane in each direction remained closed until 6:00am.

Union Street Bridge

The bridge was closed overnight one night per week from 9:00pm to 3:00am, September 15/16, September 22/23, September 29/30, October 6/7, October 13/14, and October 20/21.

Borden Avenue Bridge

This bridge was closed for repairs on December 31, 2008 and remained closed through December 23, 2010. The bridge was reopened on December 24, 2010.

Roosevelt Avenue Bridge

From January 1 to August 6, the bridge was closed as needed in either or both directions 9:00pm to 5:00am nightly. There were no closures during New York Mets home games.

Roosevelt Island Bridge

From August 3 to August 21, the bridge was closed overnight 1:00am to 5:00am on Tuesdays to Fridays.

From August 23 to August 27, the bridge was closed intermittently for 15-minute intervals on weekdays between 10:00am to 2:00pm.

Whitestone Expressway Bridge

From January 1 to February 5, intermittent lane closures were in effect on the Whitestone Expressway and the bridge during off-peak hours.

Brooklyn-Battery Tunnel

Throughout 2010, the inbound **exit to Trinity Place** was closed weekdays between 6:00-10:00am, and between 3:00–7:00pm.

Throughout 2010, between 6:00am and 10:00am on weekdays, there were three lanes inbound and one lane outbound.

Throughout 2010, on weekdays between 4:00pm and 7:00pm, there were two lanes outbound to Brooklyn in the south tube, plus one outbound contra–flow lane in the north tube.

Throughout 2010, one tube was closed intermittently as needed during the following hours:

Sun-Thu 10:00pm - 5:30am the following morning,

Mon-Fri 10:00am – 2:00pm, Sun 5:00am - noon.

2-way traffic maintained was in the open tube during these times.

Throughout 2010, there were additional intermittent closures of single lanes in both directions during off-peak hours.

Henry Hudson Bridge

Southbound (Manhattan-bound) lane closures were in effect as follows.

01/01-01/08: Round–the–clock All Days. 1 of 4 Manhattan–bound lanes closed.

11:00pm – 5:00am Mon-Fri 3 of 4 Manhattan–bound lanes closed.

01/09-02/19: Round-the-clock All Days. 1 of 4 Manhattan-bound lanes closed.

 2^{nd} Southbound lane closed as needed 10:00am – 3:00pm weekdays as

needed.

02/20-12/31: 10:00am – 3:00pm Mon-Fri. 1 of 4 Manhattan–bound lanes closed.

Northbound (Bronx-bound) lane closures were in effect as follows.

All 2010: 7:00am – 2:00pm Weekdays 1 Bronx–bound lane closed as needed.

Throughout 2010, there were additional intermittent lane closures in both directions during off-peak hours.

Queens-Midtown Tunnel

Throughout 2010, there were intermittent closures of single lanes in both directions during off-peak hours.

Robert F. Kennedy Memorial Bridge (formerly Triborough Bridge)

From January 1 to February 19, 2010, the following closures were in effect.

At the Harlem lift span, one lane closed as needed to Manhattan 10:00am to 2:30pm daily, and two lanes closed as needed 10:00pm to 5:00am Monday to Friday. One lane closed as needed to Bronx/Queens 6:00am to 2:30pm daily, and two lanes closed as needed 10:00pm to 5:00am.

At the suspension bridge and viaduct, two of four lanes closed as needed to Queens 9:00pm to midnight Monday to Friday. Three of four lanes to Queens closed as needed 12:01am to 6:00am Tuesday, and 12:01am to 5:00am Friday and Saturday.

One of four lanes to Bronx and Manhattan closed as needed 10:00am to 3:00pm weekdays, and two of four lanes closed as needed 9:00pm to midnight Monday to Friday, and three of four lanes 12:01am to 6:00am.

From February 20 to December 31, 2010, the following closures were in effect.

At the Harlem River lift span, one of three lanes closed as needed to Manhattan 10:00am to 2:30pm weekdays, and one of two lanes closed as needed on the Manhattan FDR Drive and 125th Street exit ramps during the same hours.

At the Harlem lift span, one of three lanes closed as needed to Queens/Bronx 10:00am to 2:30pm weekdays, and one of two lanes closed as needed on the Manhattan FDR Drive and 124th Street entrance ramps during the same hours.

At the Queens suspended span/viaduct, one of four lanes to Bronx/Manhattan closed 10:00am to 3:00pm weekdays and two lanes closed as needed 9:00pm to 5:00am weekdays. Also one of four lanes closed to Queens 6:00am to 3:00pm weekdays and two of four lanes closed to Queens 9:00pm to 5:00am weekdays. One of two lanes on the ramp to Randall's Island closed 7:00am to 4:00pm weekdays.

On the Bronx span, one of fours lanes closed to The Bronx 10:00am to 3:00pm weekdays, and two of four lanes to The Bronx closed 10:00pm to 5:00am weekdays. One of four lanes to Manhattan/Queens closed 10:00am to 3:00pm weekdays, and two of four lanes closed 10:00pm to 5:00am weekdays.

Bronx-Whitestone Bridge

Northbound (Bronx-bound) lane closures were in effect as follows.

```
01/01-02/19: 9:30am - 2:30pm
                                  Mon-Thu
                                              1 N/B lane closed as needed;
                                              1 N/B lane closed as needed:
              9:30am - 2:00pm
                                  Fri
             11:00pm – 5:00am
                                              1 N/B lane closed as needed.
                                  Mon-Fri
              6:00am – noon
                                  Sat-Sun
                                              1 N/B lane closed as needed.
             11:00pm – 5:00am
                                  Sun-Thu
                                              2 N/B lanes closed as needed,
             12:01am - 6:00am
                                  Sat-Sun
                                              2 N/B lanes closed as needed.
02/20-12/31: 10:00am - 3:00pm
                                  Mon-Thu
                                              1 N/B lane closed as needed:
             10:00am - 2:30pm
                                  Fri
                                              1 N/B lane closed as needed:
             11:00pm - 5:30am
                                  Sat-Sun
                                              2 N/B lanes closed as needed,
                                  Sat-Sun
                                              1 N/B lane closed as needed.
              6:00am – noon
```

Southbound (Queens-bound) lane closures were in effect as follows.

```
01/01-02/19: 9:30am - 2:30pm
                                              1 S/B lane closed as needed:
                                  Mon- Fri
                                              1 S/B lane closed as needed,
             11:00pm - 5:00am
                                  Mon-Fri
              6:00am – Noon
                                  Sat-Sun
                                              1 S/B lane closed as needed.
              11:00pm – 5:00am
                                  Sun-Thu
                                              2 S/B lanes closed as needed,
             12:01am – 6:00am
                                              2 S/B lanes closed as needed.
                                  Sat-Sun
                                              1 S/B lane closed as needed:
02/20-12/31: 10:00am - 3:00pm
                                  Mon-Thu
              10:00am - 2:30pm
                                  Fri
                                              1 S/B lane closed as needed:
             11:00pm - 5:30am
                                              2 S/B lanes closed as needed,
                                  Sat-Sun
              6:00am – noon
                                  Sat-Sun
                                              1 S/B lane closed as needed.
```

From October 30 to November 26, two of three lanes were closed weeknights from 11:00pm to 5:00am on the southbound Cross Parkway from the bridge to Northern Boulevard.

Cross Bay Bridge

Northbound lane closures (to Queens) were in effect on the bridge according to the following schedule.

```
01/01 – 02/19: Round-the-clock All Days 1 of 3 N/B lanes closed.
8:30am – 4:30pm Weekdays 2<sup>nd</sup> N/B lane closed as needed.
```

Southbound lane closures (to Rockaway) were in effect on the bridge according to the following schedule.

01/01 – 02/19: 7:00am – 4:00pm Weekdays 1 S/B lane closed as needed.

Marine Parkway Gil Hodges Memorial Bridge

From January 1 to February 19, there were almost daily multiple bridge lifts requiring full periodic closure of the bridge to vehicular traffic. The closures, approximately 15 minutes in duration, were required by the U.S. Coast guard to allow for crossing marine traffic. Whenever possible, the lifts were scheduled for off-peak hours, but timing depended on the tide because of the vessels' heavy loads.

Throughout 2010, there were additional intermittent closures of single lanes in both directions during off-peak hours.

Throgs Neck Bridge

Throughout 2010, there were intermittent closures of single lanes on the Throgs Neck Bridge during off-peak hours.

Verrazano-Narrows Bridge

Throughout 2010, trucks were required to use the upper level.

Verrazano-Narrows Bridge Operation: January 1 to January 8, 2010

One entire eastbound level (to Brooklyn) was closed as needed according to the following schedule.

```
9:00pm – 5:00am Mon – Fri, 1 entire eastbound level 12:01am – 8:00am Sat. 1 entire eastbound level closed as needed.
```

One entire westbound level (to Staten Island) was closed as needed according to the following schedule.

```
9:00pm – 6:00am Mon – Thu, 1 entire westbound level 12:01am – 8:00am Sat. 1 entire westbound level closed as needed.
```

Verrazano-Narrows Bridge Operation: January 9 to February 19, 2010

The entire eastbound lower level (to Brooklyn) was closed as needed according to the following schedule.

9:00pm – 5:00am Mon – Fri, Entire eastbound lower level

11:00pm Friday – 8:00am Saturday. closed as needed.

The entire westbound lower level (to Staten Island) was closed as needed according to the following schedule.

9:00pm – 6:00am Mon – Thu, Entire westbound lower level

11:00pm Friday – 8:00am Saturday. closed as needed.

Verrazano-Narrows Bridge Operation: February 20 to December 31, 2010

The entire eastbound lower level (to Brooklyn) was closed as needed according to the following schedule.

9:00pm – 5:00am Mon – Fri.
Entire eastbound lower level closed as needed.

The entire westbound lower level (to Staten Island) was closed as needed according to the following schedule.

9:00pm – 6:00am Mon – Fri.
Entire westbound lower level closed as needed.

Throughout 2010, there were additional intermittent closures of single lanes in both directions on the Verrazano-Narrows Bridge roadways during off-peak hours.

George Washington Bridge

Throughout 2010, there were intermittent closures of single lanes during off-peak hours to facilitate PANYNJ maintenance work.

Holland Tunnel

As of January 3, 2010, the restriction that prohibited 2-axle and 3-axle single unit trucks from using the eastbound tunnel to New York was lifted. All 4-axle, 5-axle, and 6-axle trucks, as well as 3-axle dual unit trucks, trailers, and towed vehicles remained restricted from using the tunnel in both directions.

Westbound (to New Jersey) lane closures were in effect in the Holland Tunnel as follows.

All 2010: 11:30pm – 5:30am Mon–Fri.1 w/b lane closed.

12:01am – 8:00am Sat. 1 w/b lane closed.

Lincoln Tunnel

One of the three tubes of the Lincoln Tunnel was closed as follows.

All 2010 11:00pm – 5:00am Mon–Fri. *Two tubes open, providing two*

1:00am – 9:00am Sat. traffic lanes in each direction.

1:00am - 10:00am Sun.

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Bayonne Bridge

From May 8 to December 31, there were intermittent closures of one of the two lanes in either or both directions weekdays between 6:30am and 2:00pm.

Goethals Bridge

From May 8 to December 31, there were intermittent closures of one of the two lanes in either or both directions during off—peak hours.

Outerbridge Crossing

From January 1 to May 7, there were intermittent closures of one of the two lanes in either or both directions during off—peak hours.