

# 2011 New York City Bridge Traffic Volumes



Michael R. Bloomberg  
Mayor



Janette Sadik-Khan  
Commissioner

A member of the New York Metropolitan Transportation Council

# 2011 New York City Bridge Traffic Volumes

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Prepared by:  
New York City Department of Transportation

Janette Sadik-Khan  
Commissioner

Lori A. Ardito  
First Deputy Commissioner

Bruce Schaller  
Deputy Commissioner

Ryan Russo  
Assistant Commissioner

Naim Rasheed  
Director, Traffic Planning

Ann Marie Doherty  
Chief, Research, Implementation & Safety

Richard P. Roan  
Research, Implementation & Safety

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**2011**  
**NEW YORK CITY**  
**BRIDGE TRAFFIC VOLUMES**

**2,648,300**

vehicles per day used the 47 toll-free bridges monitored by the New York City Department of Transportation in 2011.

**1.8% Decrease**

from the 2,696,900 daily vehicles recorded in 2010.

**3.2% Decrease**

In daily volume on the ten bridges in Brooklyn, to 317,500 in 2011 from 328,000 in 2010. Largest percentage decrease of any sector.

**14.4% Decrease**

**Brooklyn Bridge over the East River**

Largest decrease on bridges carrying more than 50,000 daily vehicles: 105,800 daily vehicles in 2011, down from 123,600 in 2010. Bridge closed weeknights to Manhattan-bound traffic for reconstruction during 2011.

**14.2% Increase**

**Manhattan Bridge over the East River**

Largest increase on bridges carrying more than 50,000 daily vehicles: 85,400 daily vehicles in 2011, up from 74,800 in 2010. Diversion from Brooklyn Bridge which was closed weeknights Manhattan-bound for reconstruction in 2011.



## **Whitestone Expressway Bridge over the Flushing River in Queens**

199,800 vehicles per day, the most heavily-utilized toll-free bridge in New York City.

## **Ed Koch Queensboro Bridge over the East River**

183,400 vehicles per day, the most heavily-utilized of the four East River bridges.

## **Alexander Hamilton Bridge over Harlem River**

182,200 vehicles per day, the most heavily-utilized of the nine Harlem River bridges.

## **Kosciuszko Bridge over Newtown Creek**

191,600 vehicles per day, the most heavily-utilized of the four bridges between Brooklyn and Queens.

## **Eastern Boulevard Bridge over the Bronx River**

175,000 vehicles per day, the most heavily-utilized of the eight bridges in The Bronx.

## **Mill Basin Bridge along Belt Parkway**

139,800 vehicles per day, the most heavily-utilized of the ten bridges in Brooklyn.





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# Introduction



3<sup>rd</sup> Street Bridge ~ Brooklyn





## INTRODUCTION

The 2011 *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 2011 *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 63 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. Principal Arterial - serves major centers of activity of an urban area and carries a high proportion of the total urban area travel on a minimum of mileage.
3. Minor Arterial - interconnects with and augments urban principal arterials; provides service for trips of moderate length at a somewhat lower level of travel mobility than principal arterials; distributes travel to geographic areas smaller than those identified with the higher system.
4. Collector Street - provides both land access service and traffic circulation within residential neighborhoods, and commercial and industrial areas. Differs from the arterial systems in that facilities on the collector system may penetrate residential neighborhoods, distributing trips from arterials to the ultimate destination. Conversely,

collector streets also collect traffic from local streets in residential neighborhoods and channel it into the arterial system.

5. Local Street - comprises all facilities not on one of the higher systems. Serves primarily to provide direct access to abutting land and access to the higher order systems. Offers the lowest level of mobility and usually contains no bus or truck routes.

# Summary



**Bronx-Whitestone Bridge between Queens and The Bronx**



## SUMMARY

### 2011 Volumes

- In 2011, daily traffic on the 47 bridges operated by the New York City Department of Transportation decreased 1.8%, to 2,648,300 from 2,696,900 in 2010.
- Daily traffic on the four East River bridges decreased 1.9%, to 478,200 in fall 2011 from 487,300 in fall 2010.
- Daily volume using the nine Harlem River bridges decreased 0.9%, to 544,600 in fall 2011 from 549,600 in fall 2010.
- Daily traffic using the four bridges over Newtown Creek between Queens and Brooklyn was unchanged (267,100 daily vehicles in both 2010 and 2011).
- On the eight bridges in The Bronx, daily traffic decreased 3.0%, to 447,200 in 2011 from 461,100 in 2010.
- On the ten bridges in Brooklyn, daily traffic decreased 3.2%, to 317,500 from 328,000.
- On the eleven bridges in Queens, daily traffic decreased 1.0%, to 533,000 from 538,200.
- Daily traffic on the Fresh Kills Bridge in Staten Island decreased 7.5%, to 60,700 from 65,600.

### Most Heavily Used City-Operated Bridges in 2011

- Whitestone Expressway Bridge over the Flushing River in Queens (199,800 vehicles per day).
- Kosciuszko Bridge over Newtown Creek between Brooklyn and Queens (191,600 vehicles per day).
- Ed Koch Queensboro Bridge over the East River between Manhattan and Queens (183,400 vehicles per day).
- Alexander Hamilton Bridge over the Harlem River between Manhattan and The Bronx (182,200 vehicles per day).
- Eastern Boulevard Bridge over the Bronx River in The Bronx (175,000 vehicles per day).
- Mill Basin Bridge along Belt Parkway in Brooklyn (139,800 vehicles per day).
- Hutchinson River Parkway Bridge over the Hutchinson River in The Bronx (115,600 vehicles per day).
- Brooklyn Bridge over the East River between Manhattan and Brooklyn (105,800 vehicles per day).
- Williamsburg Bridge over the East River between Manhattan and Brooklyn (103,600 vehicles per day).

## **Major Increases**

- Manhattan Bridge over the East River between Manhattan and Brooklyn: up 10,600 daily vehicles, to 85,400 in 2011 from 74,800 in 2010 (+14.2%).
- Whitestone Expressway Bridge over the Flushing River in Queens: up 7,700 daily vehicles, to 199,800 from 192,100 (+4.0%).
- Ed Koch Queensboro Bridge over the East River between Manhattan and Queens: up 5,700 daily vehicles, to 183,400 from 177,700 (+3.2%).
- Macombs Dam Bridge over the Harlem River between Manhattan and The Bronx: up 4,700 daily vehicles, to 44,300 from 39,600 (+11.8%).
- University Heights Bridge over the Harlem River between Manhattan and The Bronx: up 4,400 daily vehicles, to 43,600 from 39,200 (+11.1%).

## **Major Decreases**

- Brooklyn Bridge over the East River between Manhattan and Brooklyn: down 17,800 daily vehicles, to 105,800 in 2011 from 123,600 in 2010 (-14.4%). This bridge was closed to Manhattan-bound traffic during overnight hours in 2011.
- Alexander Hamilton Bridge over the Harlem River between Manhattan and The Bronx: down 10,000 daily vehicles, to 182,200 in 2011 from 192,200 in 2010 (-5.2%).
- Williamsburg Bridge over the East River between Manhattan and Brooklyn: down 7,600 daily vehicles, to 103,600 from 111,200 (-6.8%).
- Hunters Point Bridge over the Dutch Kills in Queens: down 7,100 daily vehicles, to 8,700 from 15,800 (-44.8%). The nearby Borden Avenue Bridge had been closed for reconstruction during 2010, which caused diversion to the Hunters Point Bridge.
- Hutchinson River Parkway Bridge over the Hutchinson River in The Bronx: down 6,800 daily vehicles, to 115,600 from 122,400 (-5.6%).
- Cropsy Avenue Bridge over Coney Island Creek in Brooklyn: down 5,800 daily vehicles, to 31,600 from 37,400 (-15.4%).
- Fresh Kills Bridge along Richmond Avenue over Richmond Creek in Staten Island: down 4,900 daily vehicles, to 60,700 from 65,600 (-7.5%).
- Little Neck Bridge along Northern Boulevard over Alley Creek in Queens: down 4,400 daily vehicles, to 45,300 from 49,700 (-8.8%).
- Eastchester Bridge along Boston Road over the Hutchinson River in The Bronx: down 4,100 daily vehicles, to 21,300 from 25,400 (-16.1%).
- Midtown Highway Bridge on Long Island Expressway over Dutch Kills in Queens: down 3,600 daily vehicles, to 84,100 from 87,700 (-4.0%).

**2010-2011 Traffic Volume Trends**  
**N.Y.C. Bridges and Tunnels**  
**Both Directions**  
**Page 1 of 3**

<b><i>EAST RIVER BRIDGES</i></b>	<b>Highway Functional Classification</b>	<b>2010</b>	<b>2011</b>	<b>Percent Change</b>
Brooklyn Bridge	Principal Arterial	123,640	105,820	- 14.4 %
Ed Koch Queensboro Bridge *	Principal Arterial	177,695	183,401	3.2 %
Manhattan Bridge	Principal Arterial	74,777	85,392	14.2 %
Williamsburg Bridge	Principal Arterial	111,189	103,590	- 6.8 %
<b>Total, 4 East River Bridges</b>		<b>487,301</b>	<b>478,203</b>	<b>- 1.9 %</b>

<b><i>HARLEM RIVER BRIDGES</i></b>				
Alexander Hamilton Bridge	Interstate	192,213	182,174	- 5.2 %
Broadway Bridge	Principal Arterial	37,292	35,770	- 4.1 %
Macombs Dam Bridge	Principal Arterial	39,627	44,311	11.8 %
Madison Avenue Bridge	Principal Arterial	42,966	41,423	- 3.6 %
Third Avenue Bridge	Principal Arterial	60,549	59,603	- 1.6 %
University Heights Bridge	Principal Arterial	39,230	43,601	11.1 %
Washington Bridge	Minor Arterial	52,014	52,373	0.7 %
Willis Avenue Bridge	Principal Arterial	56,934	57,710	1.4 %
145th Street Bridge	Minor Arterial	28,749	27,677	- 3.7 %
<b>Total, 9 Harlem River Bridges</b>		<b>549,574</b>	<b>544,642</b>	<b>- 0.9 %</b>

<b><i>BROOKLYN-QUEENS BRIDGES</i></b>				
Grand Street Bridge	Principal Arterial	12,662	12,320	- 2.7 %
J.J. Byrne Memorial Bridge **	Principal Arterial	26,716	25,709	- 3.8 %
Kosciuszko Bridge	Interstate	190,753	191,624	0.5 %
Pulaski Bridge	Principal Arterial	36,981	37,422	1.2 %
<b>Total, 4 Brooklyn-Queens Bridges (Over Newtown Creek)</b>		<b>267,112</b>	<b>267,075</b>	<b>- 0.0 %</b>

<b><i>BRONX BRIDGES</i></b>				
City Island Bridge	Minor Arterial	15,380	14,480	- 5.9 %
East 174th Street Bridge	Minor Arterial	16,499	15,940	- 3.4 %
Eastchester Bridge	Principal Arterial	25,374	21,292	- 16.1 %
Eastern Boulevard Bridge	Interstate	174,168	175,020	0.5 %
Hutchinson River Parkway Bridge	Principal Arterial	122,416	115,574	- 5.6 %
Pelham Bridge	Minor Arterial	17,159	16,966	- 1.1 %
Unionport Bridge	Principal Arterial	64,098	61,619	- 3.9 %
Westchester Avenue Bridge	Principal Arterial	25,978	26,287	1.2 %
<b>Total, 8 Bronx Bridges</b>		<b>461,072</b>	<b>447,178</b>	<b>- 3.0 %</b>

\* Queensboro Bridge renamed April 11, 2011.

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

**2010-2011 Traffic Volume Trends**  
**N.Y.C. Bridges and Tunnels**  
**Both Directions**  
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<b>BROOKLYN BRIDGES</b>	<b>Highway Functional Classification</b>	<b>2010</b>	<b>2011</b>	<b>Percent Change</b>
Carroll Street Bridge	Local	994	992	- 0.2 %
Cropsey Avenue Bridge	Principal Arterial	37,411	31,643	- 15.4 %
Hamilton Avenue Bridge	Principal Arterial	55,252	54,663	- 1.1 %
Metropolitan Avenue Bridge	Principal Arterial	38,279	38,613	0.9 %
Mill Basin Bridge	Principal Arterial	140,800	139,835	- 0.7 %
Ninth Street Bridge	Minor Arterial	12,567	12,404	- 1.3 %
Stillwell Avenue Bridge	Principal Arterial	9,884	7,548	- 23.6 %
Third Avenue Bridge	Principal Arterial	18,088	17,895	- 1.1 %
Third Street Bridge	Minor Arterial	10,390	9,776	- 5.9 %
Union Street Bridge	Minor Arterial	4,319	4,147	- 4.0 %
<b>Total, 10 Brooklyn Bridges</b>		<b>327,984</b>	<b>317,516</b>	<b>- 3.2 %</b>

<b>QUEENS BRIDGES</b>	<b>Highway Functional Classification</b>	<b>2010</b>	<b>2011</b>	<b>Percent Change</b>
Borden Avenue Bridge	Minor Arterial	<i>Closed</i>	8,696	
Flushing Bridge	Principal Arterial	54,690	52,173	- 4.6 %
Hook Creek Bridge	Principal Arterial	74,064	74,717	0.9 %
Hunters Point Bridge	Collector	15,792	8,722	- 44.8 %
Joseph P. Addabbo Bridge *	Principal Arterial	23,882	21,636	- 9.4 %
Little Neck Bridge	Principal Arterial	49,731	45,345	- 8.8 %
Midtown Highway Bridge	Interstate	87,692	84,148	- 4.0 %
Rikers Island Bridge	Collector	13,186	12,580	- 4.6 %
Roosevelt Avenue Bridge	Principal Arterial	17,268	16,084	- 6.9 %
Roosevelt Island Bridge	Collector	9,800	9,103	- 7.1 %
Whitestone Expwy Bridge	Interstate	192,092	199,803	4.0 %
<b>Total, 11 Queens Bridges</b>		<b>538,197</b>	<b>533,007</b>	<b>- 1.0 %</b>

<b>STATEN ISLAND</b>	<b>Highway Functional Classification</b>	<b>2010</b>	<b>2011</b>	<b>Percent Change</b>
Fresh Kills Bridge	Principal Arterial	65,612	60,678	- 7.5 %

<b>TOLL-FREE GRAND TOTALS</b>		<b>2,696,852</b>	<b>2,648,299</b>	<b>- 1.8 %</b>
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\* Joseph P. Addabbo Bridge also known as North Channel Bridge.



**2010-2011 Traffic Volume Trends**  
**N.Y.C. Bridges and Tunnels**  
**Both Directions**  
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<b>MTABT Manhattan Facilities</b>	<b>Highway Functional Classification</b>	<b>2010</b>	<b>2011</b>	<b>Percent Change</b>
Henry Hudson Bridge	Principal Arterial	69,641	63,433	- 8.9 %
Hugh L. Carey Tunnel *	Interstate	54,187	54,481	0.5 %
Queens-Midtown Tunnel	Interstate	88,014	87,662	- 0.4 %
R.F.K. Memorial Bridge Manhattan Plaza **	Principal Arterial	93,455	88,717	- 5.1 %
<b>Total, 4 MTABT Manhattan Crossings</b>		<b>305,297</b>	<b>294,293</b>	<b>- 3.6 %</b>

<b>PANYNJ Manhattan Facilities</b>				
George Washington Bridge	Interstate	292,047	279,896	- 4.2 %
Holland Tunnel	Interstate	94,667	93,560	- 1.2 %
Lincoln Tunnel	Principal Arterial	119,832	117,653	- 1.8 %
<b>Total, 3 PANYNJ Manhattan - New Jersey Crossings</b>		<b>506,546</b>	<b>491,109</b>	<b>- 3.0 %</b>

<b>MTABT Outer Borough Bridges</b>				
Bronx-Whitestone Bridge	Interstate	103,366	100,666	- 2.6 %
Cross Bay Bridge	Minor Arterial	21,135	20,566	- 2.7 %
Marine Parkway Gil Hodges Memorial Bridge	Minor Arterial	22,215	21,812	- 1.8 %
R.F.K. Memorial Bridge Bronx Plaza **	Interstate	82,189	77,242	- 6.0 %
Throgs Neck Bridge	Interstate	112,712	111,384	- 1.2 %
Verrazano-Narrows Bridge	Interstate	204,181	194,758	- 4.6 %
<b>Total, 6 MTABT Outer Borough Bridges</b>		<b>545,798</b>	<b>526,428</b>	<b>- 3.5 %</b>

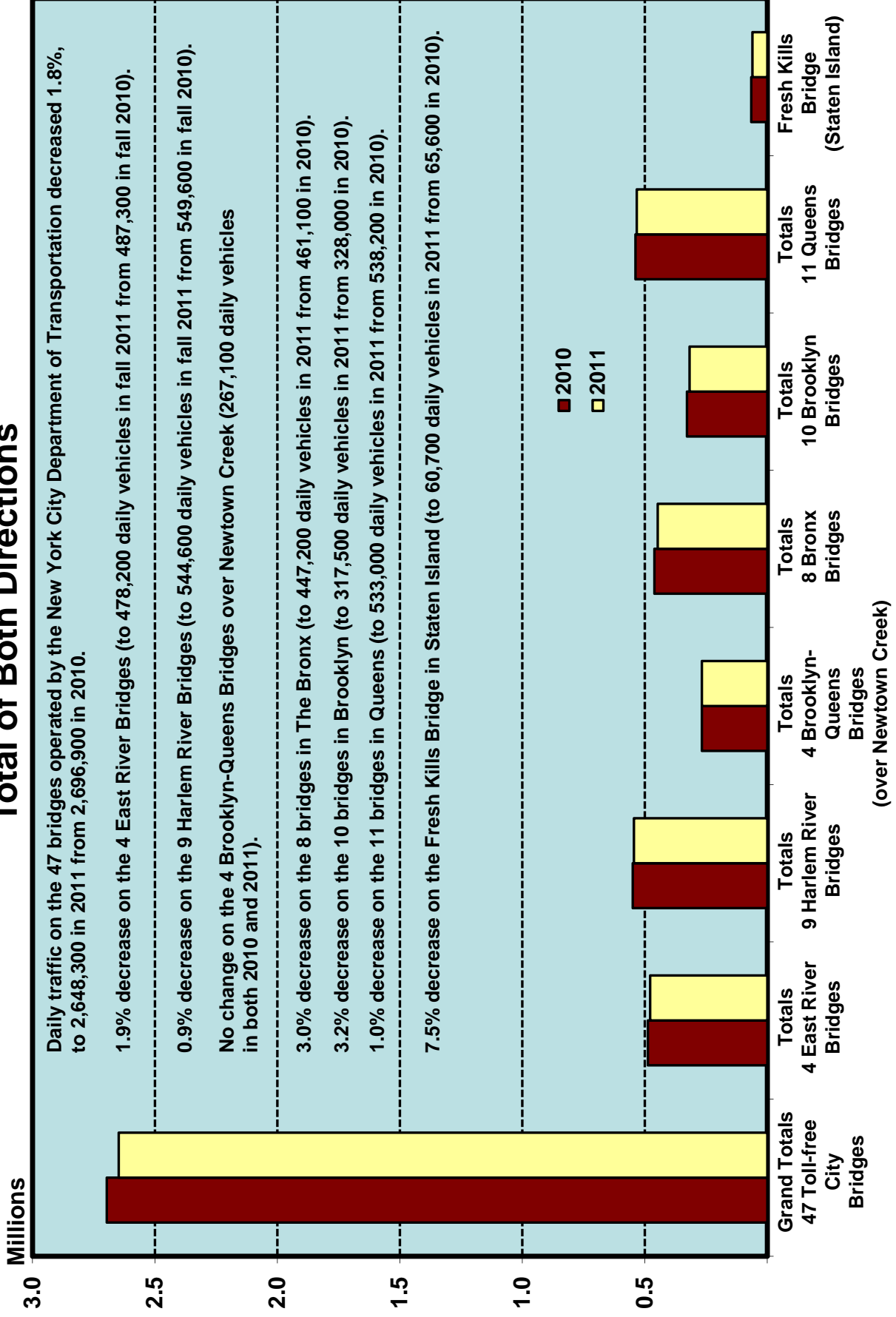
<b>PANYNJ Staten Island Bridges</b>				
Bayonne Bridge	Principal Arterial	19,981	18,665	- 6.6 %
Goethals Bridge	Interstate	73,486	75,580	2.8 %
Outerbridge Crossing	Principal Arterial	74,665	75,291	0.8 %
<b>Total, 3 PANYNJ Staten Island - New Jersey Bridges</b>		<b>168,132</b>	<b>169,536</b>	<b>0.8 %</b>

\* Formerly Brooklyn-Battery Tunnel, renamed December 2010.

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

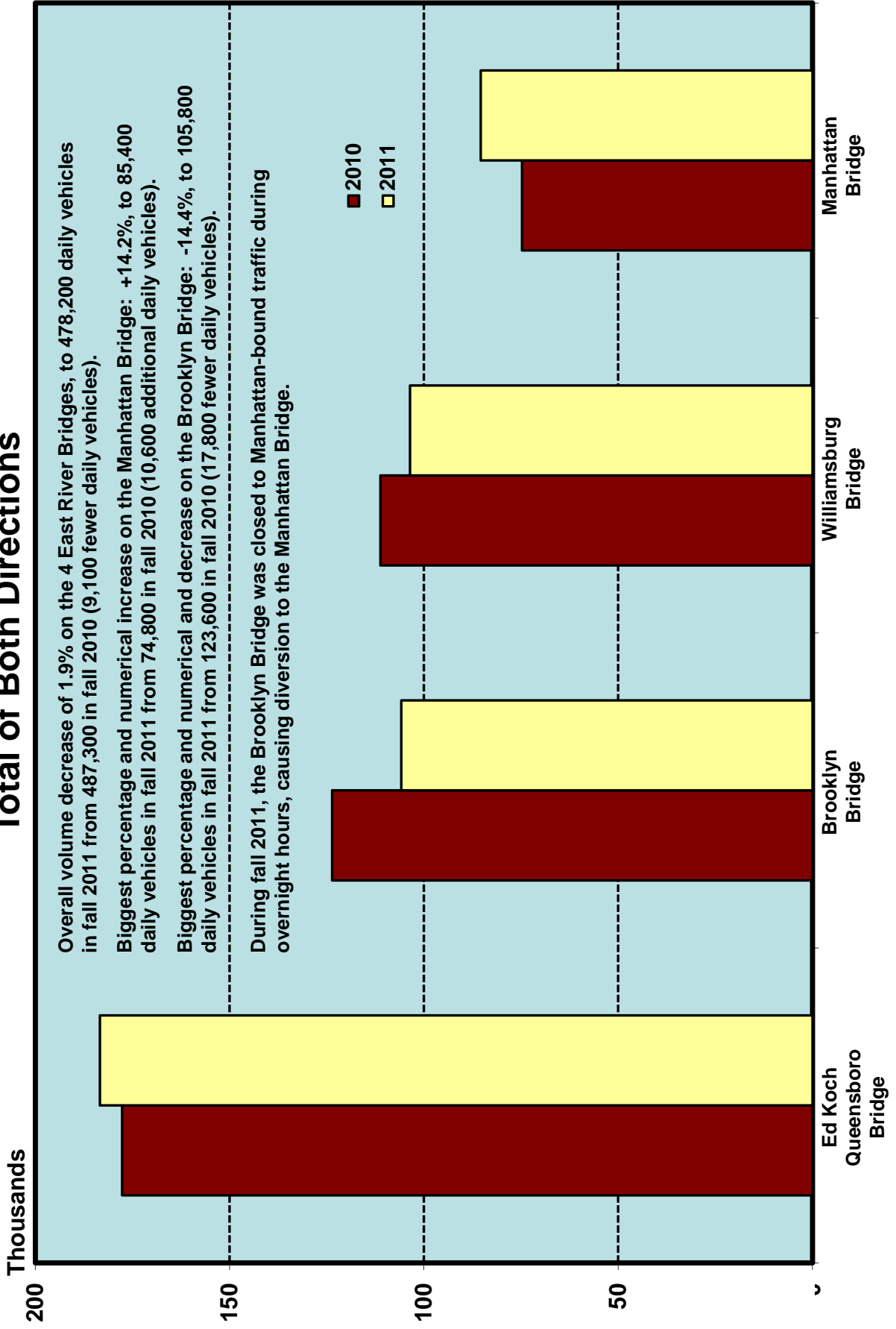
# New York City Toll-free Bridges Daily Volumes 2011 vs. 2010

## Total of Both Directions



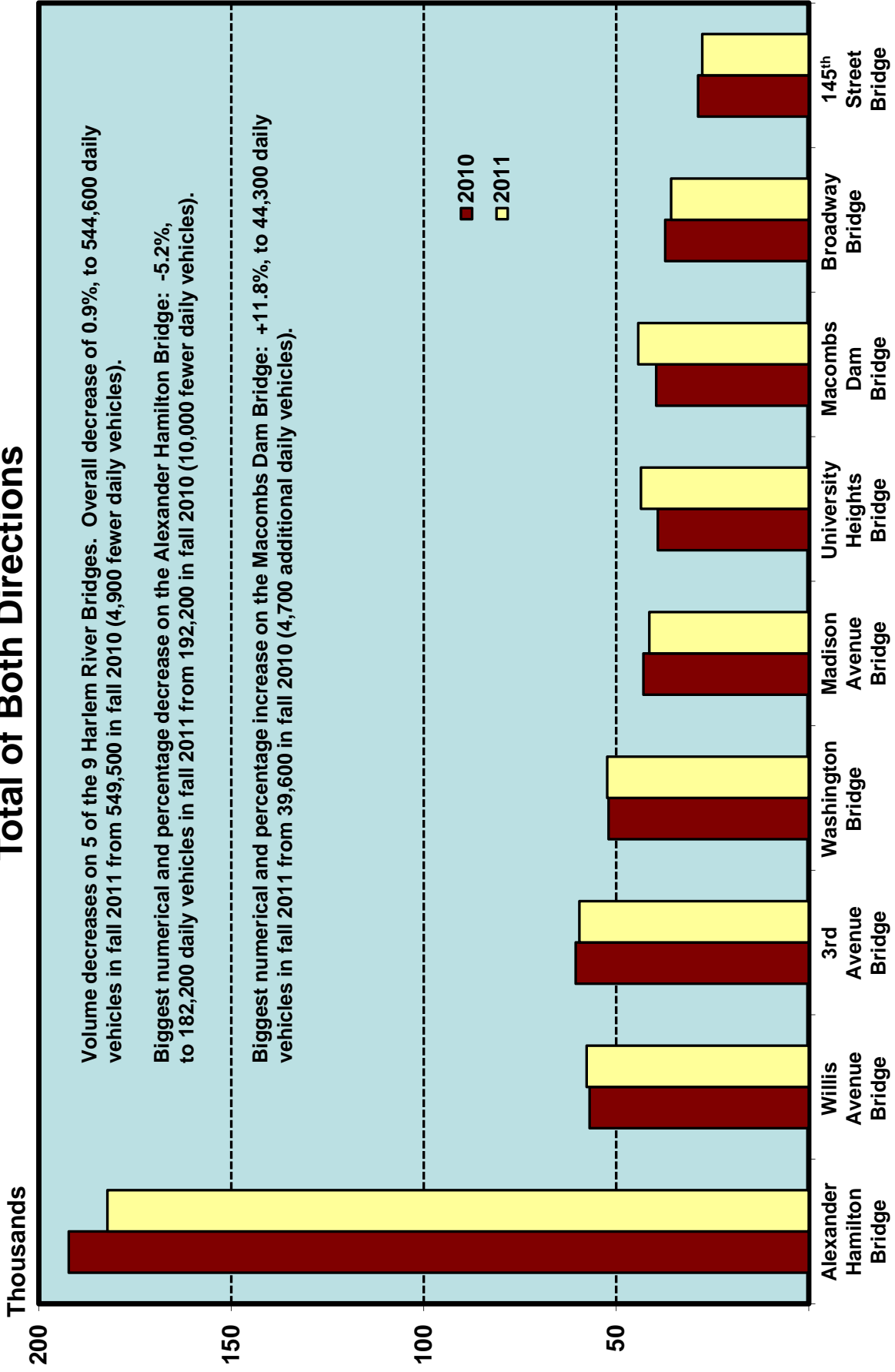
# East River Bridges Daily Volumes 2011 vs. 2010

## Total of Both Directions



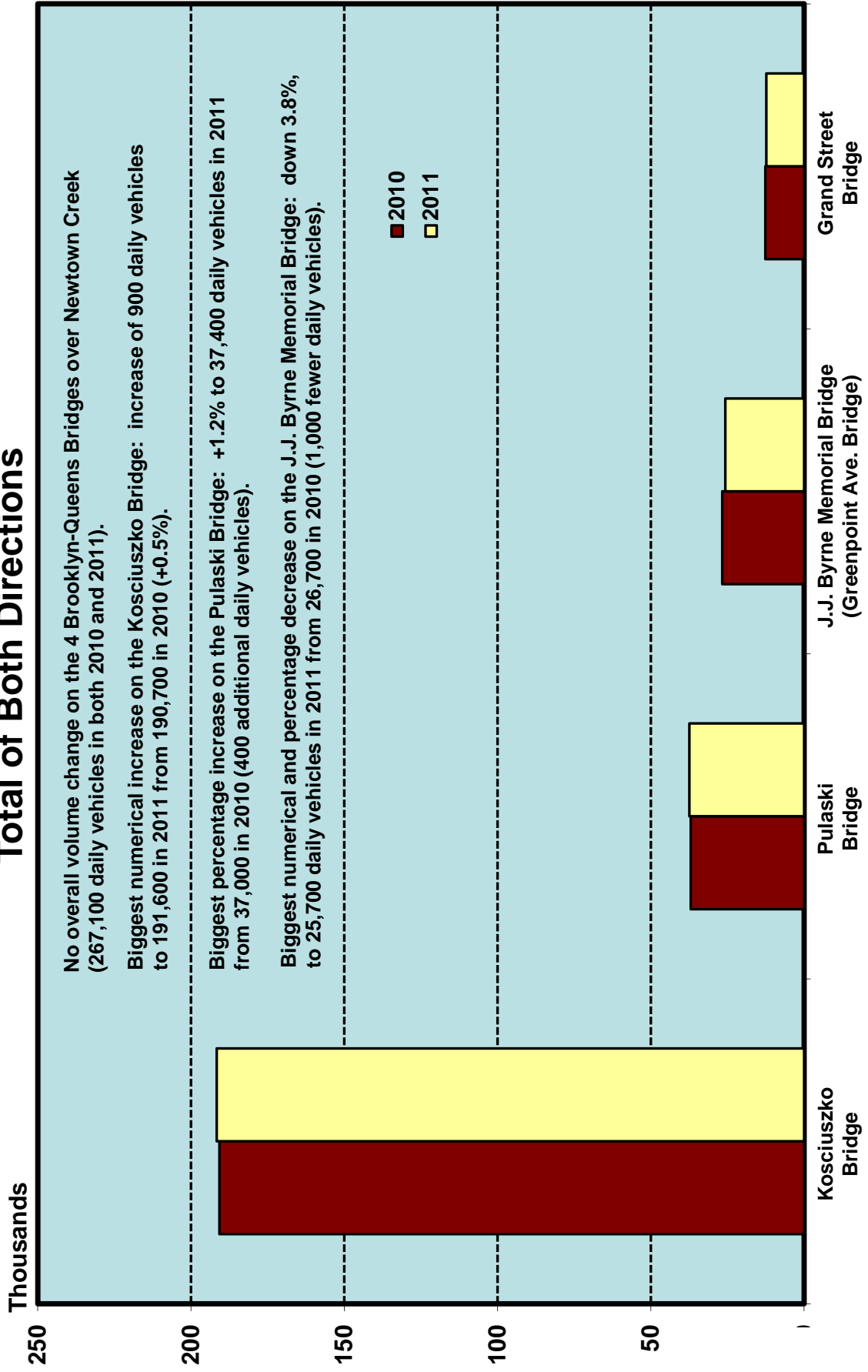
# Harlem River Bridges Daily Volumes 2011 vs. 2010

## Total of Both Directions



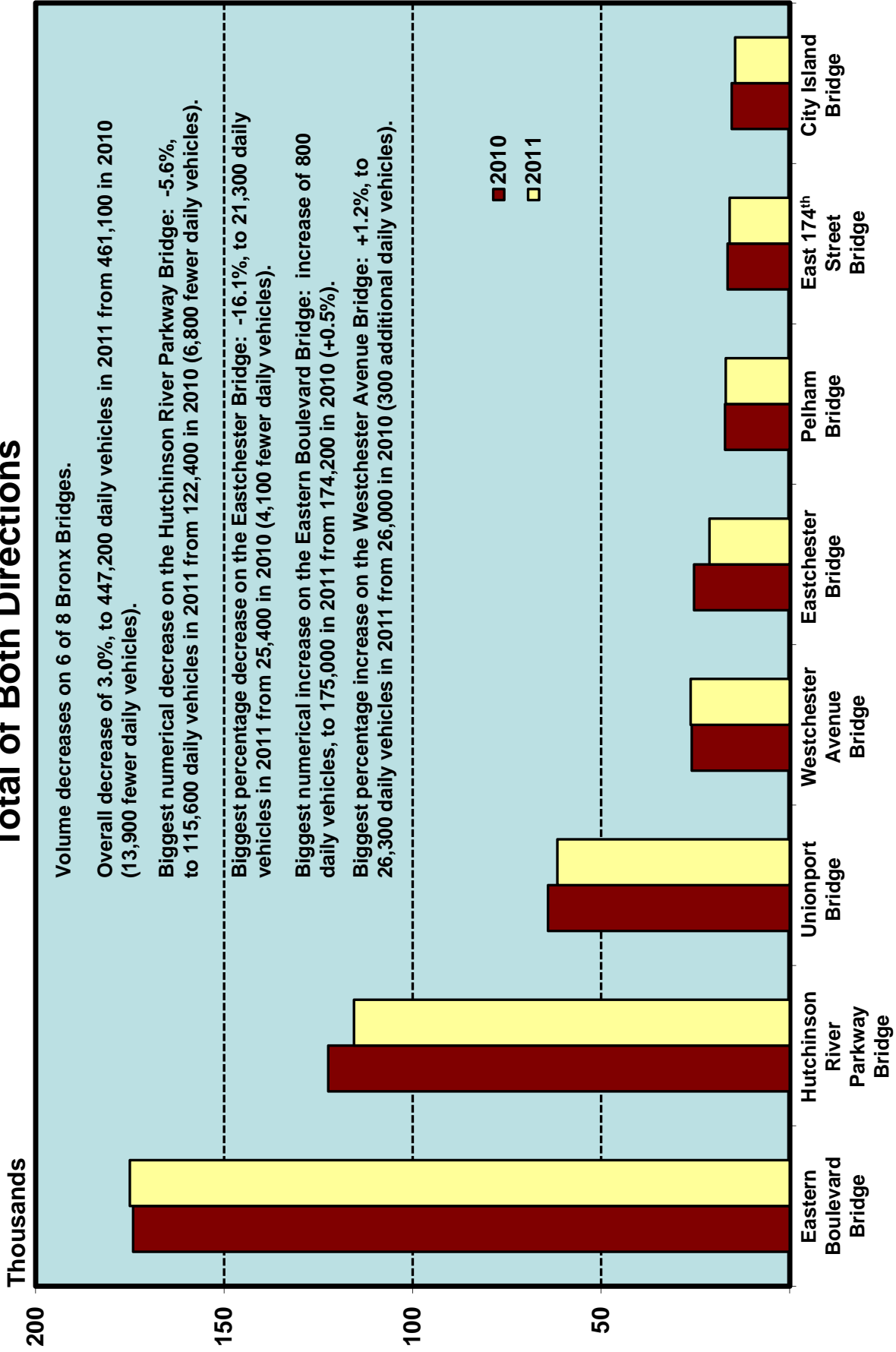
# Brooklyn-Queens (Newtown Creek) Bridges Daily Volumes 2011 vs. 2010

## Total of Both Directions



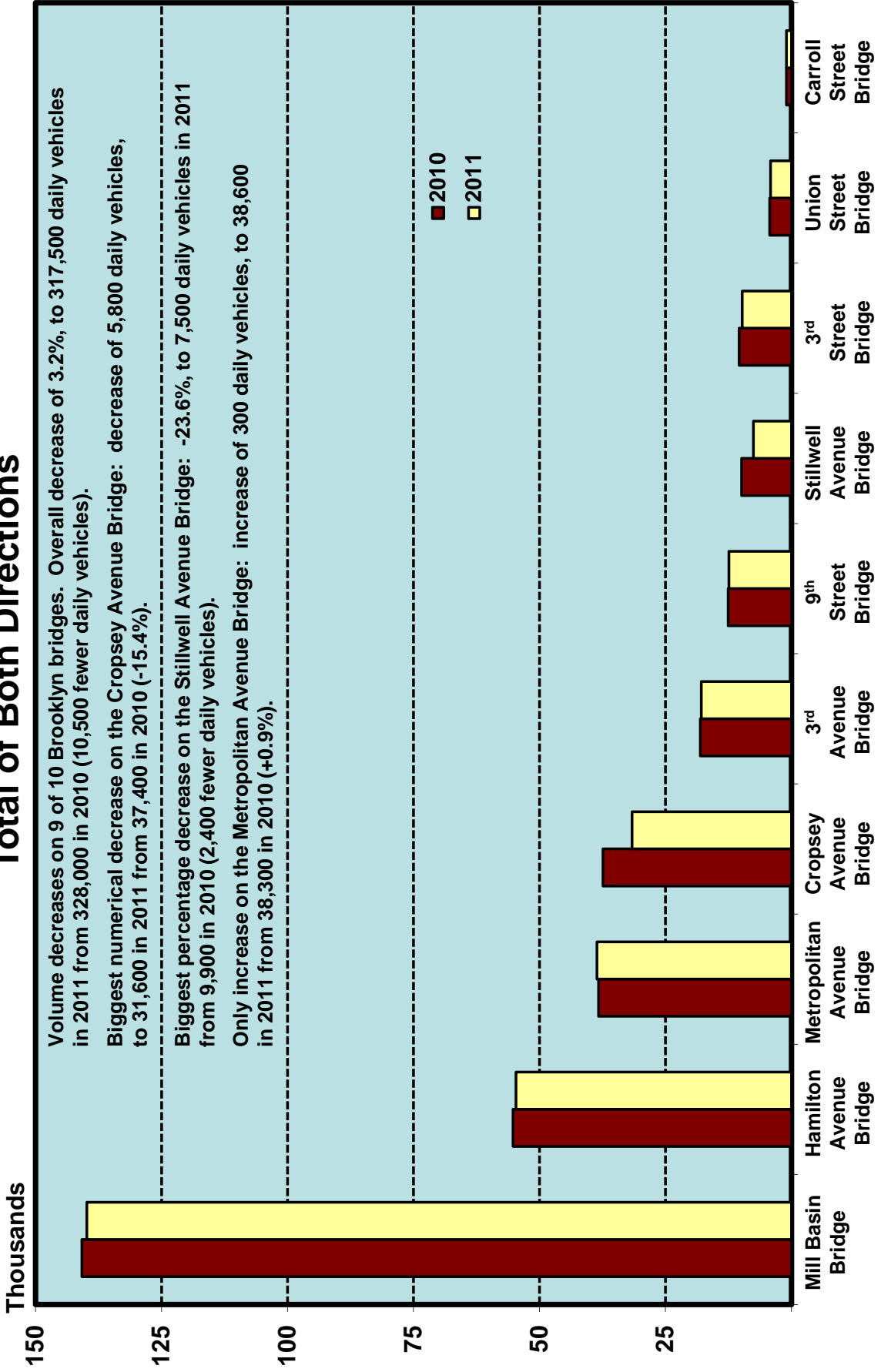
# Bronx Bridges Daily Volumes 2011 vs. 2010

## Total of Both Directions



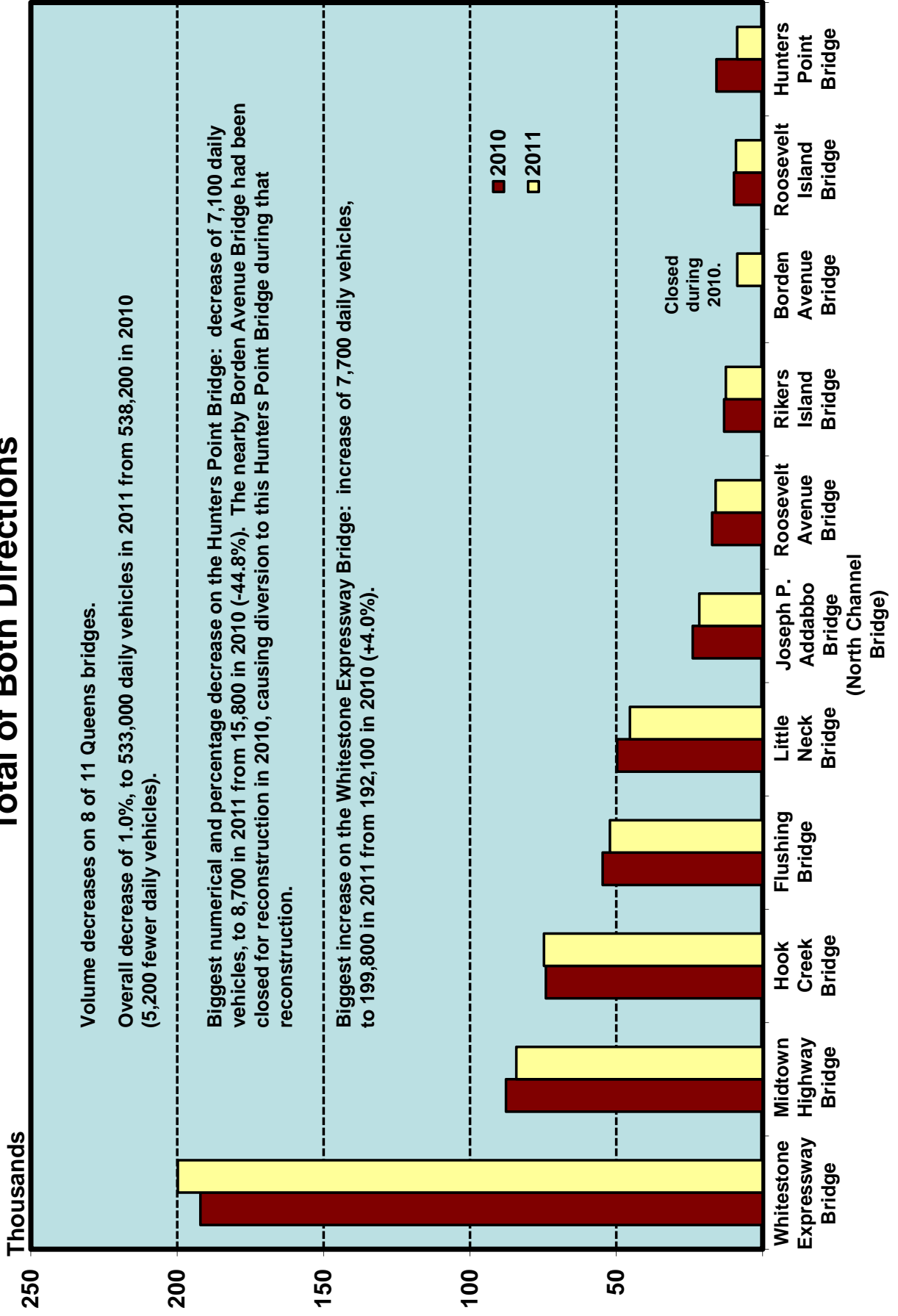
# Brooklyn Bridges Daily Volumes 2011 vs. 2010

## Total of Both Directions



# Queens Bridges Daily Volumes 2011 vs. 2010

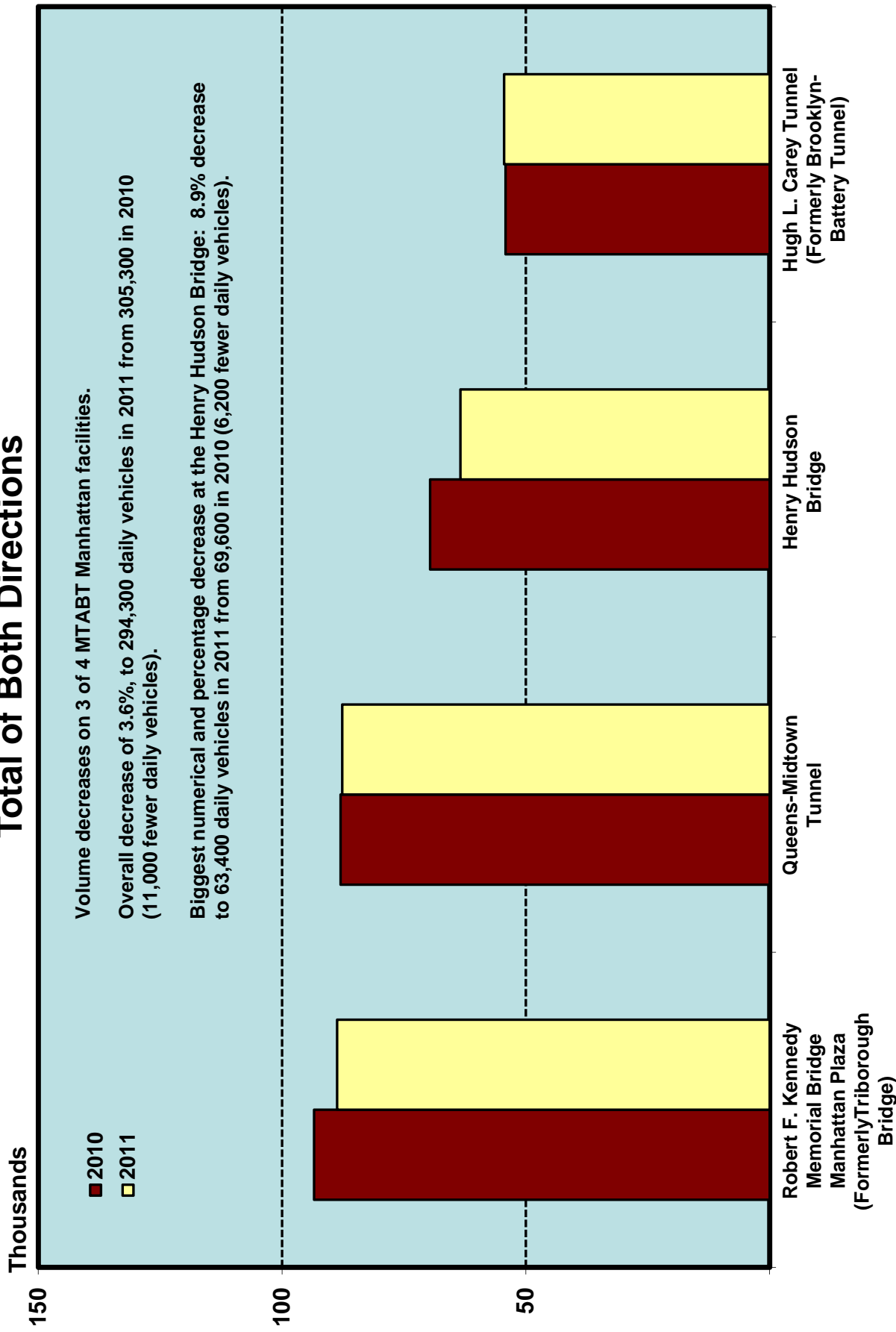
## Total of Both Directions



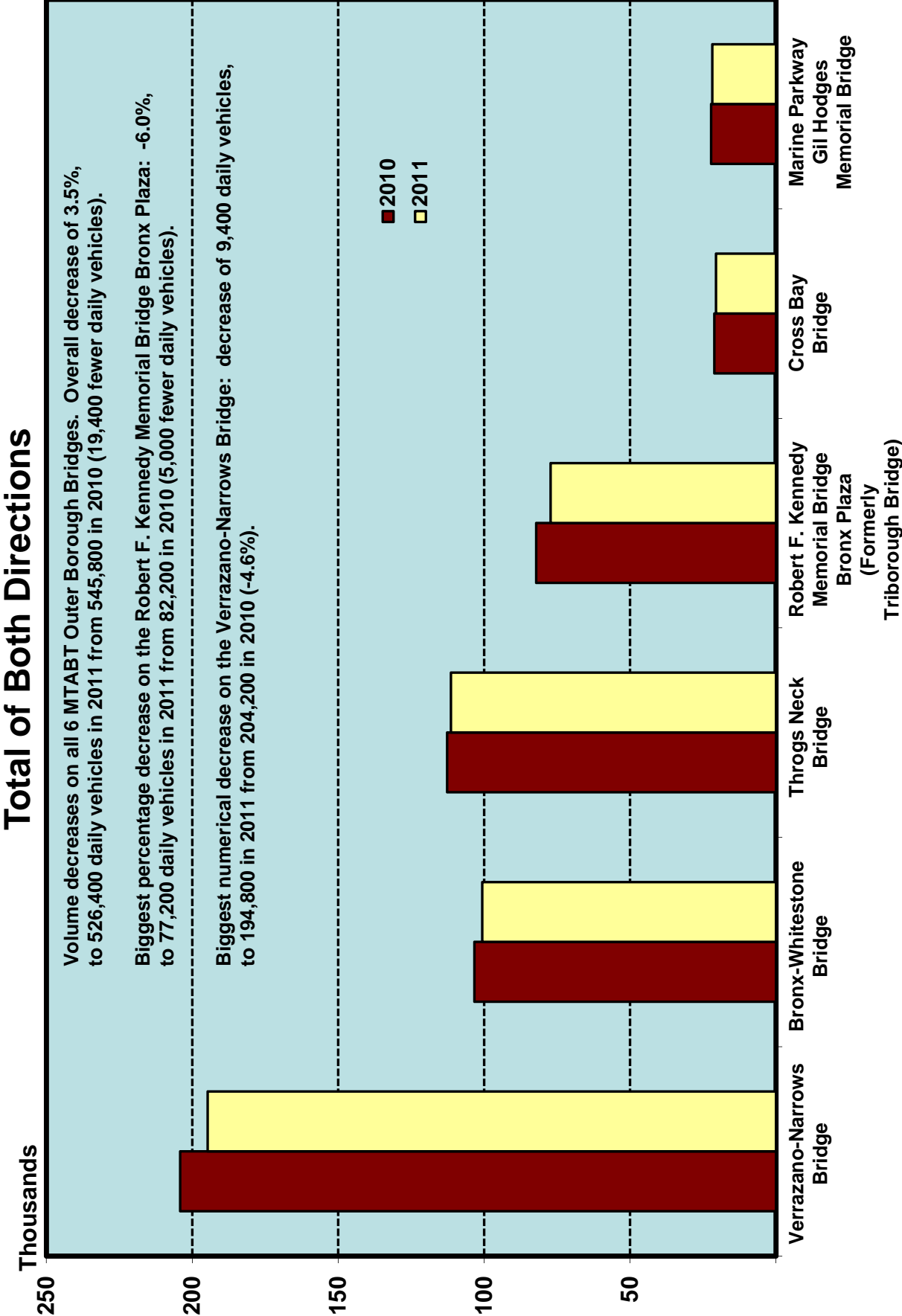


# Metropolitan Transportation Authority Bridges & Tunnels (MTABT) Manhattan Facilities Daily Volumes 2011 vs. 2010

## Total of Both Directions



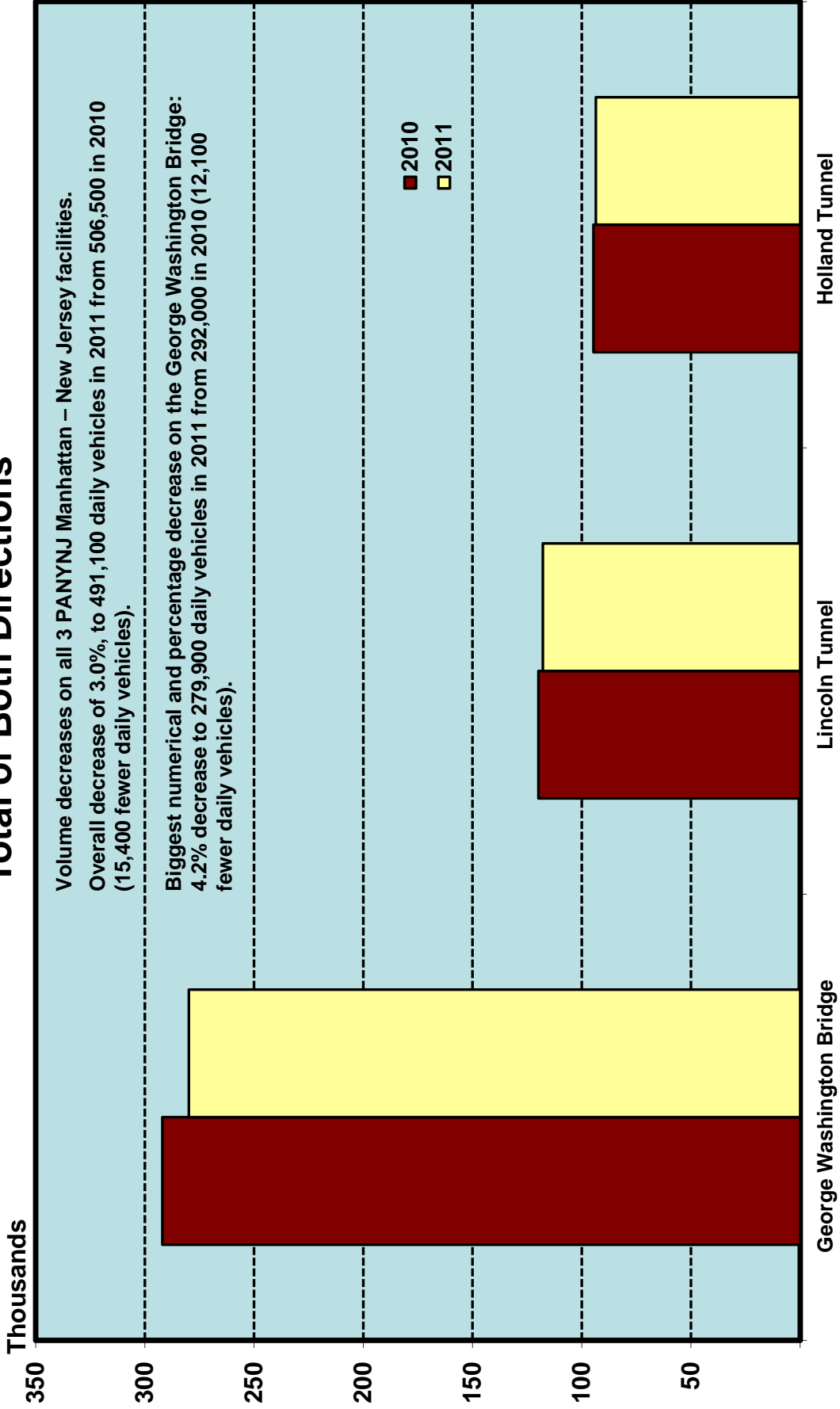
# Metropolitan Transportation Authority Bridges & Tunnels (MTABT) Outer Borough Bridges Daily Volumes 2011 vs. 2010



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

2011 vs. 2010

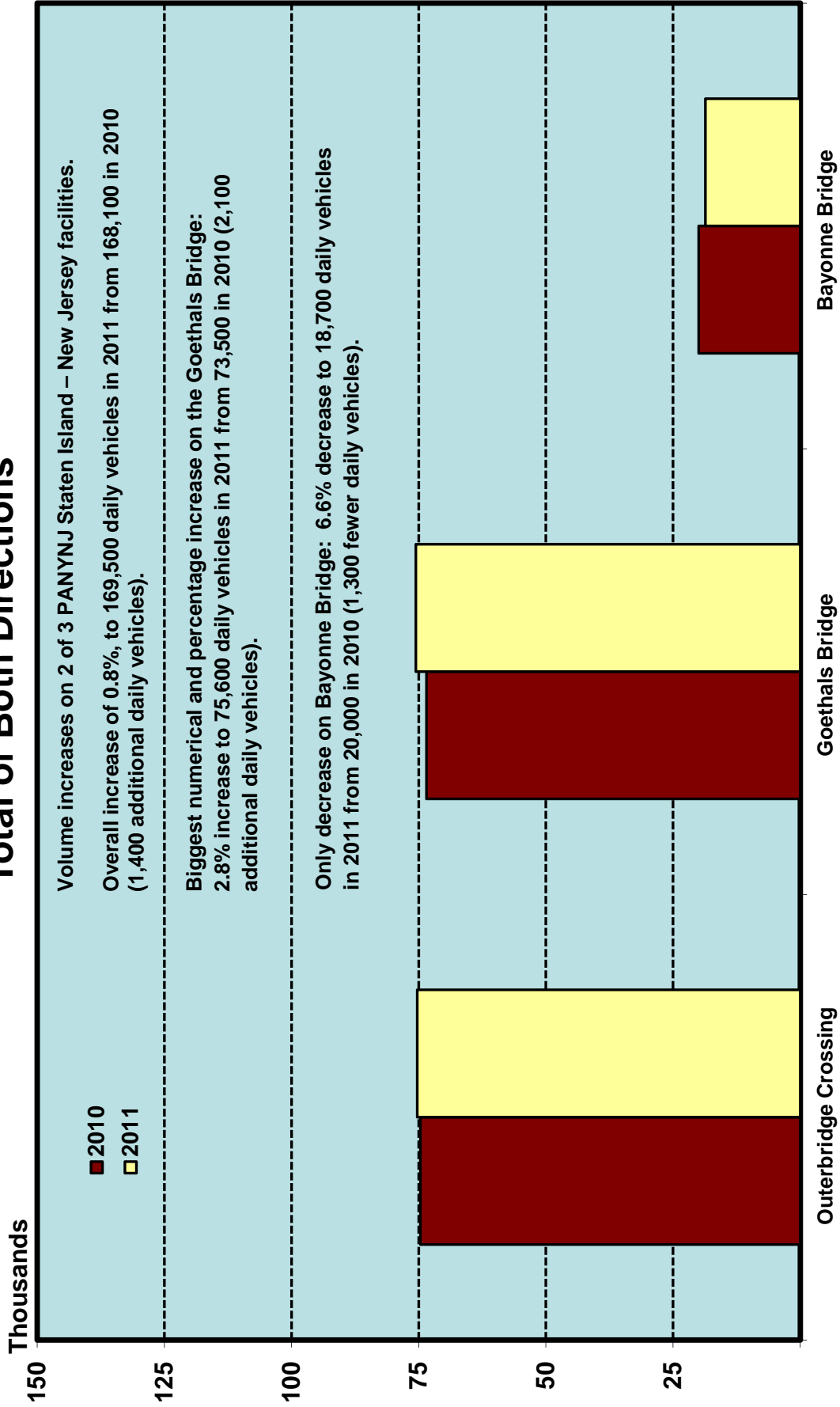
## Total of Both Directions



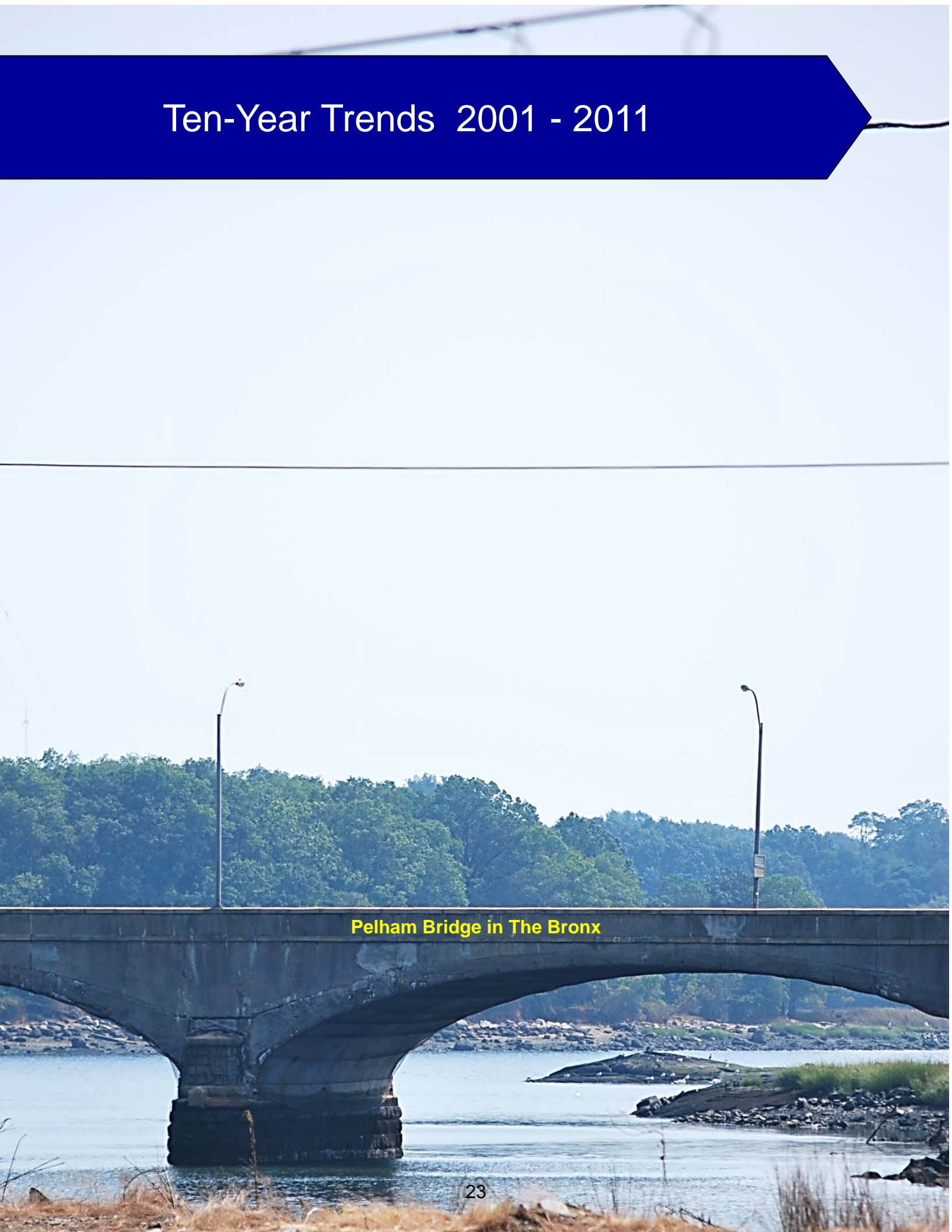
# Port Authority of New York & New Jersey (PANYNJ) Staten Island – N.J. Facilities Daily Volumes

## 2011 vs. 2010

### Total of Both Directions



# Ten-Year Trends 2001 - 2011



Pelham Bridge in The Bronx



## Ten-Year Trends: 2001 - 2011

From 2001 to 2011, total traffic on the 47 City-operated bridges decreased 0.6%, to 2,648,300 daily vehicles in 2011 from 2,665,600 in 2001.

### East River Bridges

- Total traffic on the four East River Bridges increased 11.9%, to 478,200 daily vehicles in 2011 from 427,300 in 2001 (50,900 additional daily vehicles).
- Increases on all four East River Bridges.
- Biggest percentage and numerical increase on the Williamsburg Bridge: +26.0%, to 103,600 daily vehicles in fall 2011 from 82,200 in fall 2001 (21,400 additional daily vehicles).
- Manhattan Bridge up 16.9% to 85,400 from 73,100.
- Brooklyn Bridge up 10.7% to 105,800 from 95,600.
- Volumes on Lower Manhattan crossings had declined significantly in fall 2001 after the events of 9/11/2001 when compared to year-earlier volumes in fall 2000.

### Harlem River Bridges

- Total traffic on the nine Harlem River Bridges decreased 4.2%, to 544,600 daily vehicles in 2011 from 568,700 in 2001 (24,100 fewer daily vehicles).
- Volume decreases on six of the nine Harlem River bridges.
- Biggest percentage and numerical decrease on the Willis Avenue Bridge: -20.8%, to 57,700 daily vehicles in 2011 from 72,900 in 2001 (15,200 fewer daily vehicles).
- Third Avenue Bridge down 18.1% to 59,600 from 72,800 (13,200 fewer daily vehicles).
- Biggest numerical increase on the Alexander Hamilton Bridge: increase of 13,600 daily vehicles, to 182,200 in 2011 from 168,600 in 2001 (+8.0%).
- Biggest percentage increase on the Macombs Dam Bridge: +11.9%, to 44,300 daily vehicles in 2011 from 39,600 in 2001 (4,700 additional daily vehicles).

### Brooklyn-Queens Bridges

- Total traffic on the four bridges over Newtown Creek between Brooklyn and Queens decreased 3.3%, to 267,100 daily vehicles in 2011 from 276,300 in 2001 (9,200 fewer daily vehicles).
- Volume decreases on all four Brooklyn-Queens bridges.
- Biggest numerical decrease on the Kosciuszko Bridge along the Brooklyn-Queens Expressway: decrease of 4,900 daily vehicles, to 191,600 in 2011 from 196,500 in 2001 (-2.5%).
- Biggest percentage decrease on the Grand Street Bridge: -11.3%, to 12,300 daily vehicles in 2011 from 13,900 in 2001 (1,600 fewer daily vehicles).

### Bronx Bridges

- Total traffic on the eight bridges in The Bronx increased 1.8%, to 447,200 daily vehicles in 2011 from 439,300 in 2001 (7,900 additional daily vehicles).
- Increases on four of the bridges in The Bronx; decreases on the other four.
- Biggest numerical increase on the Unionport Bridge: increase of 9,200 daily vehicles, to 61,600 in 2011 from 52,400 in 2001 (+17.6%).

- Biggest percentage increase on the East 174th Street Bridge: +31.8%, to 15,900 daily vehicles in 2011 from 12,100 in 2001 (3,800 additional daily vehicles).
- Biggest numerical decrease on the Pelham Bridge: decrease of 5,700 daily vehicles, to 17,000 in 2011 from 22,700 in 2001 (-25.2%).
- Biggest percentage decrease on the City Island Bridge: -27.6%, to 14,500 daily vehicles in 2011 from 20,000 in 2001 (5,500 fewer daily vehicles).

### **Brooklyn Bridges**

- Total traffic on the ten bridges in Brooklyn decreased 5.3%, to 317,500 daily vehicles in 2011 from 335,400 in 2001 (17,900 fewer daily vehicles).
- Decreases on nine of the ten bridges in Brooklyn.
- Biggest numerical decrease on the Mill Basin Bridge along Belt Parkway: decrease of 6,800 daily vehicles, to 139,800 in 2011 from 146,600 in 2001 (-4.6%).
- Biggest percentage decrease on the Carroll Street Bridge: -22.5%, to 1,000 daily vehicles in 2011 from 1,300 in 2001 (300 fewer daily vehicles).
- Only increase on the 9<sup>th</sup> Street Bridge: Increase of 4,500 daily vehicles, to 12,400 in 2011 from 7,900 in 2001 (+57.1%).

### **Queens Bridges**

- Total traffic on the eleven bridges in Queens decreased 3.3%, to 533,000 daily vehicles in 2011 from 551,100 in 2001 (18,100 fewer daily vehicles).
- Volume decreases on six of the eleven Queens bridges, increases on the other five.
- Biggest numerical decrease on the Flushing Bridge: decrease of 10,200 daily vehicles, to 52,200 in 2011 from 62,400 in 2001 (-16.3%).
- Biggest percentage decrease on the Borden Avenue Bridge: -44.9%, to 8,700 daily vehicles in 2011 from 15,800 in 2001 (7,100 fewer daily vehicles). The Borden Avenue Bridge had been closed during 2009 and 2010. Traffic has not yet returned to normal full level in 2011 following reopening of the bridge in 2011.
- Biggest numerical and percentage increase on the Whitestone Expressway Bridge: increase of 10,800 daily vehicles, to 199,800 in 2011 from 189,000 in 2001 (+5.7%).

### **Staten Island**

- Total traffic on the Fresh Kills Bridge decreased 10.1%, to 60,700 daily vehicles in 2011 from 67,500 in 2001 (6,800 fewer daily vehicles).



**10-Year Traffic Volume Trends ~ 2001-2011**  
**N.Y.C. Bridges and Tunnels**  
**Both Directions**  
**Page 1 of 3**

<b>EAST RIVER BRIDGES</b>	<b>Highway Functional Classification</b>	<b>2001</b>	<b>2011</b>	<b>Percent Change</b>
Brooklyn Bridge	Principal Arterial	95,586	105,820	10.7 %
Ed Koch Queensboro Bridge *	Principal Arterial	176,469	183,401	3.9 %
Manhattan Bridge	Principal Arterial	73,064	85,392	16.9 %
Williamsburg Bridge	Principal Arterial	82,202	103,590	26.0 %
<b>Total, 4 East River Bridges</b>		<b>427,321</b>	<b>478,203</b>	<b>11.9 %</b>

<b>HARLEM RIVER BRIDGES</b>				
Alexander Hamilton Bridge	Interstate	168,605	182,174	8.0 %
Broadway Bridge	Principal Arterial	41,175	35,770	- 13.1 %
Macombs Dam Bridge	Principal Arterial	39,615	44,311	11.9 %
Madison Avenue Bridge	Principal Arterial	43,331	41,423	- 4.4 %
Third Avenue Bridge	Principal Arterial	72,756	59,603	- 18.1 %
University Heights Bridge	Principal Arterial	46,381	43,601	- 6.0 %
Washington Bridge	Minor Arterial	57,443	52,373	- 8.8 %
Willis Avenue Bridge	Principal Arterial	72,901	57,710	- 20.8 %
145th Street Bridge	Minor Arterial	26,552	27,677	4.2 %
<b>Total, 9 Harlem River Bridges</b>		<b>568,759</b>	<b>544,642</b>	<b>- 4.2 %</b>

<b>BROOKLYN-QUEENS BRIDGES</b>				
Grand Street Bridge	Principal Arterial	13,895	12,320	- 11.3 %
J.J. Byrne Memorial Bridge **	Principal Arterial	26,766	25,709	- 3.9 %
Kosciuszko Bridge	Interstate	196,565	191,624	- 2.5 %
Pulaski Bridge	Principal Arterial	39,062	37,422	- 4.2 %
<b>Total, 4 Brooklyn-Queens Bridges (Over Newtown Creek)</b>		<b>276,288</b>	<b>267,075</b>	<b>- 3.3 %</b>

<b>BRONX BRIDGES</b>				
City Island Bridge	Minor Arterial	20,012	14,480	- 27.6 %
East 174th Street Bridge	Minor Arterial	12,093	15,940	31.8 %
Eastchester Bridge	Principal Arterial	22,810	21,292	- 6.7 %
Eastern Boulevard Bridge	Interstate	169,437	175,020	3.3 %
Hutchinson River Parkway Bridge	Principal Arterial	108,191	115,574	6.8 %
Pelham Bridge	Minor Arterial	22,694	16,966	- 25.2 %
Unionport Bridge	Principal Arterial	52,418	61,619	17.6 %
Westchester Avenue Bridge	Principal Arterial	31,584	26,287	- 16.8 %
<b>Total, 8 Bronx Bridges</b>		<b>439,239</b>	<b>447,178</b>	<b>1.8 %</b>

\* Queensboro Bridge renamed April 11, 2011.

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

**10-Year Traffic Volume Trends ~ 2001-2011**  
**N.Y.C. Bridges and Tunnels**  
**Both Directions**  
**Page 2 of 3**

<b>BROOKLYN BRIDGES</b>	<b>Highway Functional Classification</b>	<b>2001</b>	<b>2011</b>	<b>Percent Change</b>
Carroll Street Bridge	Local	1,280	992	- 22.5 %
Cropsey Avenue Bridge	Principal Arterial	33,725	31,643	- 6.2 %
Hamilton Avenue Bridge	Principal Arterial	60,808	54,663	- 10.1 %
Metropolitan Avenue Bridge	Principal Arterial	39,930	38,613	- 3.3 %
Mill Basin Bridge	Principal Arterial	146,602	139,835	- 4.6 %
Ninth Street Bridge	Minor Arterial	7,898	12,404	57.1 %
Stillwell Avenue Bridge	Principal Arterial	9,246	7,548	- 18.4 %
Third Avenue Bridge	Principal Arterial	21,461	17,895	- 16.6 %
Third Street Bridge	Minor Arterial	9,855	9,776	- 0.8 %
Union Street Bridge	Minor Arterial	4,599	4,147	- 9.8 %
<b>Total, 10 Brooklyn Bridges</b>		<b>335,404</b>	<b>317,516</b>	<b>- 5.3 %</b>

<b>QUEENS BRIDGES</b>	<b>Highway Functional Classification</b>	<b>2001</b>	<b>2011</b>	<b>Percent Change</b>
Borden Avenue Bridge	Minor Arterial	15,780	8,696	- 44.9 %
Flushing Bridge	Principal Arterial	62,364	52,173	- 16.3 %
Hook Creek Bridge	Principal Arterial	72,027	74,717	3.7 %
Hunters Point Bridge	Collector	8,261	8,722	5.6 %
Joseph P. Addabbo Bridge *	Principal Arterial	20,785	21,636	4.1 %
Little Neck Bridge	Principal Arterial	53,423	45,345	- 15.1 %
Midtown Highway Bridge	Interstate	82,431	84,148	2.1 %
Rikers Island Bridge	Collector	14,503	12,580	- 13.3 %
Roosevelt Avenue Bridge	Principal Arterial	22,856	16,084	- 29.6 %
Roosevelt Island Bridge	Collector	9,655	9,103	- 5.7 %
Whitestone Expwy Bridge	Interstate	189,031	199,803	5.7 %
<b>Total, 11 Queens Bridges</b>		<b>551,116</b>	<b>533,007</b>	<b>- 3.3 %</b>

<b>STATEN ISLAND</b>	<b>Highway Functional Classification</b>	<b>2001</b>	<b>2011</b>	<b>Percent Change</b>
Fresh Kills Bridge	Principal Arterial	67,465	60,678	- 10.1 %

<b>TOLL-FREE GRAND TOTALS</b>		<b>2,665,592</b>	<b>2,648,299</b>	<b>- 0.6 %</b>
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\* Also known as North Channel Bridge.

**10-Year Traffic Volume Trends ~ 2001-2011**  
**N.Y.C. Bridges and Tunnels**  
**Both Directions**  
**Page 3 of 3**

<b>MTABT Manhattan Facilities</b>	<b>Highway Functional Classification</b>	<b>2001</b>	<b>2011</b>	<b>Percent Change</b>
Henry Hudson Bridge	Principal Arterial	69,087	63,433	- 8.2 %
Hugh L. Carey Tunnel *	Interstate	13,762	54,481	295.9 %
Queens-Midtown Tunnel	Interstate	72,864	87,662	20.3 %
R.F.K. Memorial Bridge Manhattan Plaza **	Principal Arterial	102,224	88,717	- 13.2 %
<b>Total, 4 MTABT Manhattan Crossings</b>		<b>257,937</b>	<b>294,293</b>	<b>14.1 %</b>

<b>PANYNJ Manhattan Facilities</b>				
George Washington Bridge	Interstate	309,310	279,896	- 9.5 %
Holland Tunnel	Interstate	43,377	93,560	115.7 %
Lincoln Tunnel	Principal Arterial	106,257	117,653	10.7 %
<b>Total, 3 PANYNJ Manhattan - New Jersey Crossings</b>		<b>458,944</b>	<b>491,109</b>	<b>7.0 %</b>

<b>MTABT Outer Borough Bridges</b>				
Bronx-Whitestone Bridge	Interstate	111,764	100,666	- 9.9 %
Cross Bay Bridge	Minor Arterial	19,626	20,566	4.8 %
Marine Parkway Gil Hodges Memorial Bridge	Minor Arterial	19,527	21,812	11.7 %
R.F.K. Memorial Bridge Bronx Plaza **	Interstate	77,631	77,242	- 0.5 %
Throgs Neck Bridge	Interstate	104,429	111,384	6.7 %
Verrazano-Narrows Bridge	Interstate	218,971	194,758	- 11.1 %
<b>Total, 6 MTABT Outer Borough Bridges</b>		<b>551,948</b>	<b>526,428</b>	<b>- 4.6 %</b>

<b>PANYNJ Staten Island Bridges</b>				
Bayonne Bridge	Principal Arterial	23,631	18,665	- 21.0 %
Goethals Bridge	Interstate	78,196	75,580	- 3.3 %
Outerbridge Crossing	Principal Arterial	75,424	75,291	- 0.2 %
<b>Total, 3 PANYNJ Staten Island - New Jersey Bridges</b>		<b>177,251</b>	<b>169,536</b>	<b>- 4.4 %</b>

\* Formerly Brooklyn-Battery Tunnel, renamed December 2010.

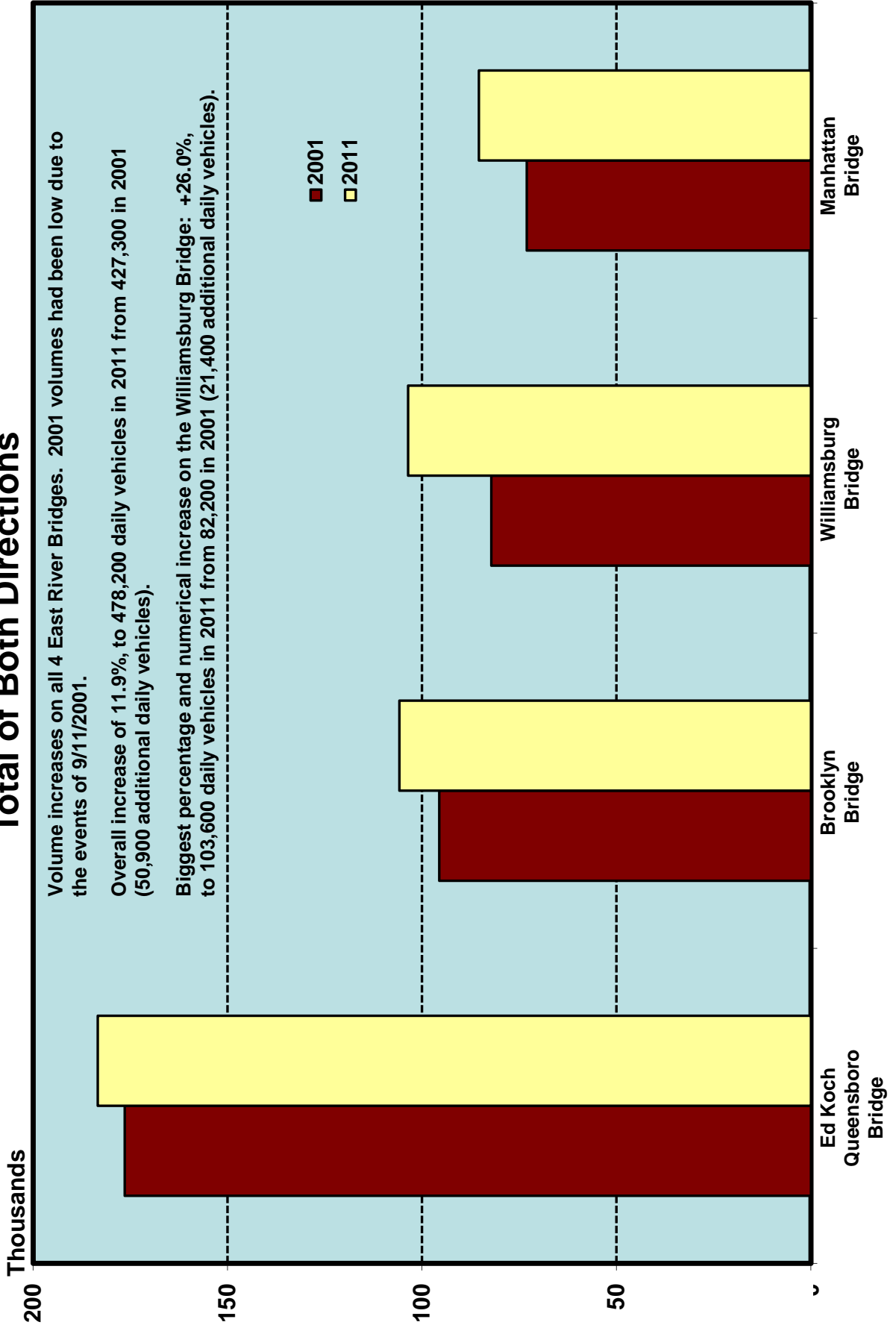
\*\* Formerly Triborough Bridge, renamed November 19, 2008.



# 10-Year Volume Changes ~ 2001 – 2011

## East River Bridges Daily Volumes

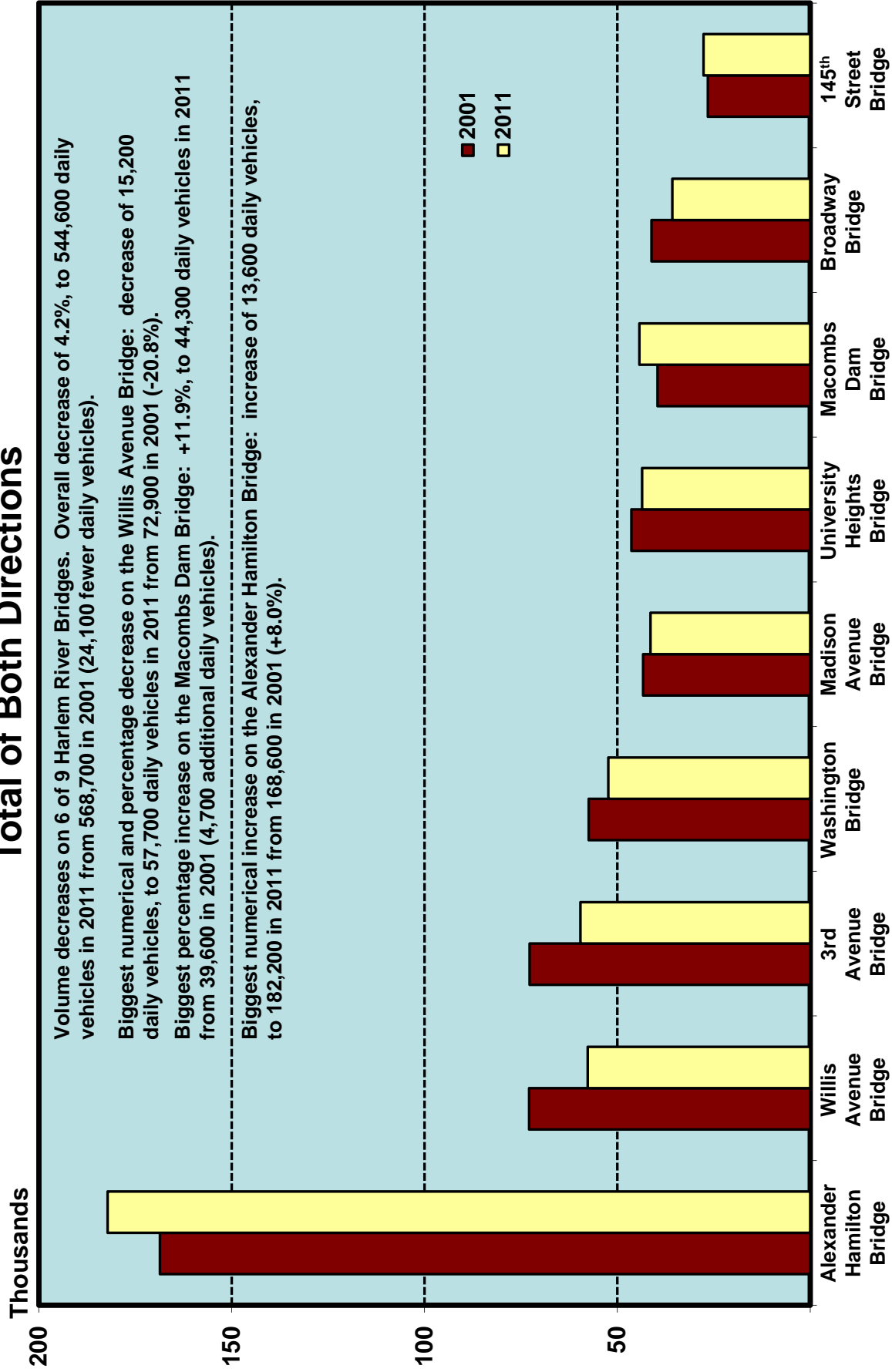
### Total of Both Directions



# 10-Year Volume Changes ~ 2001 – 2011

## Harlem River Bridges Daily Volumes

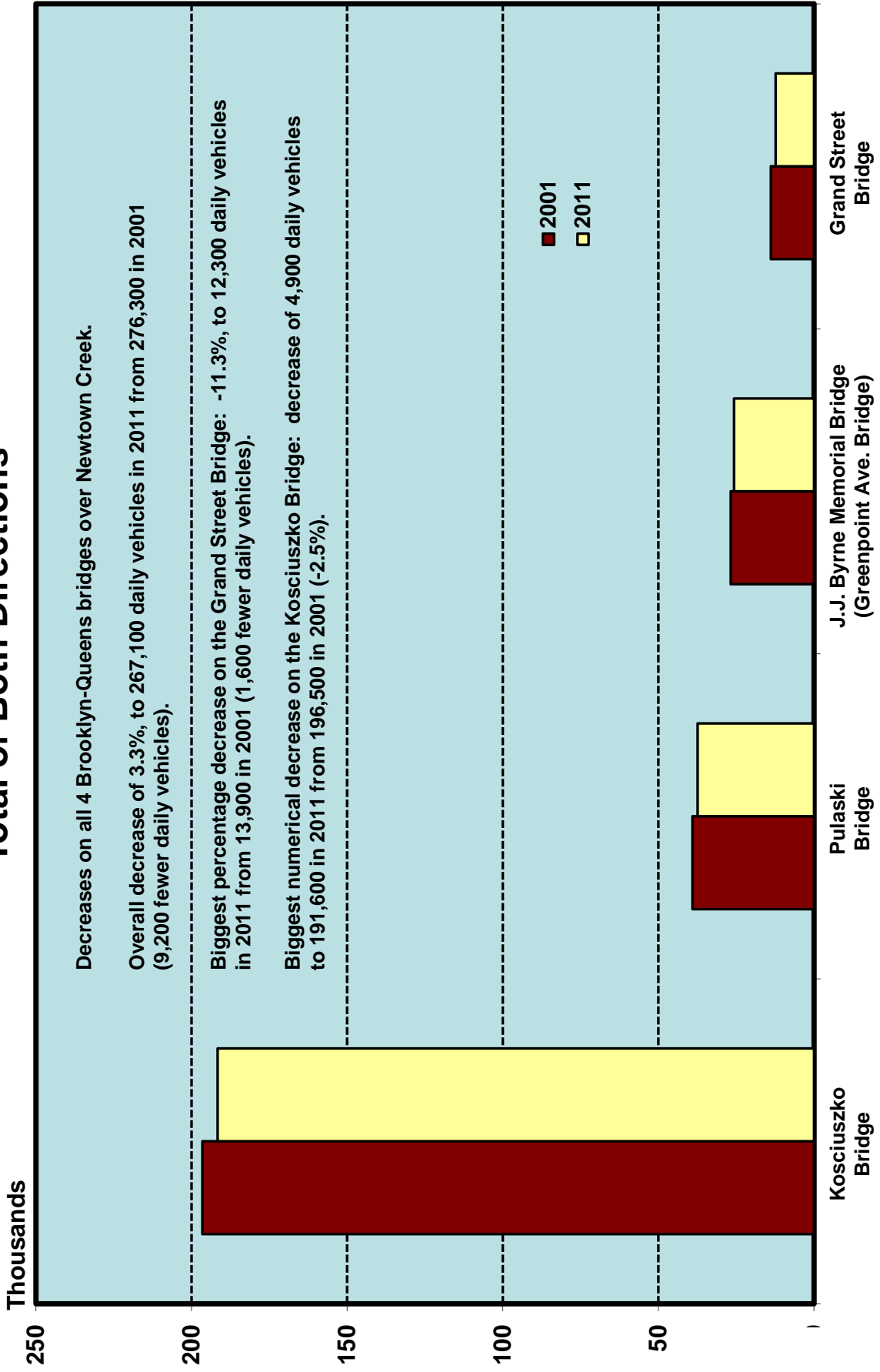
### Total of Both Directions



# 10-Year Volume Changes ~ 2001 – 2011

## Brooklyn-Queens (Newtown Creek) Bridges Daily Volumes

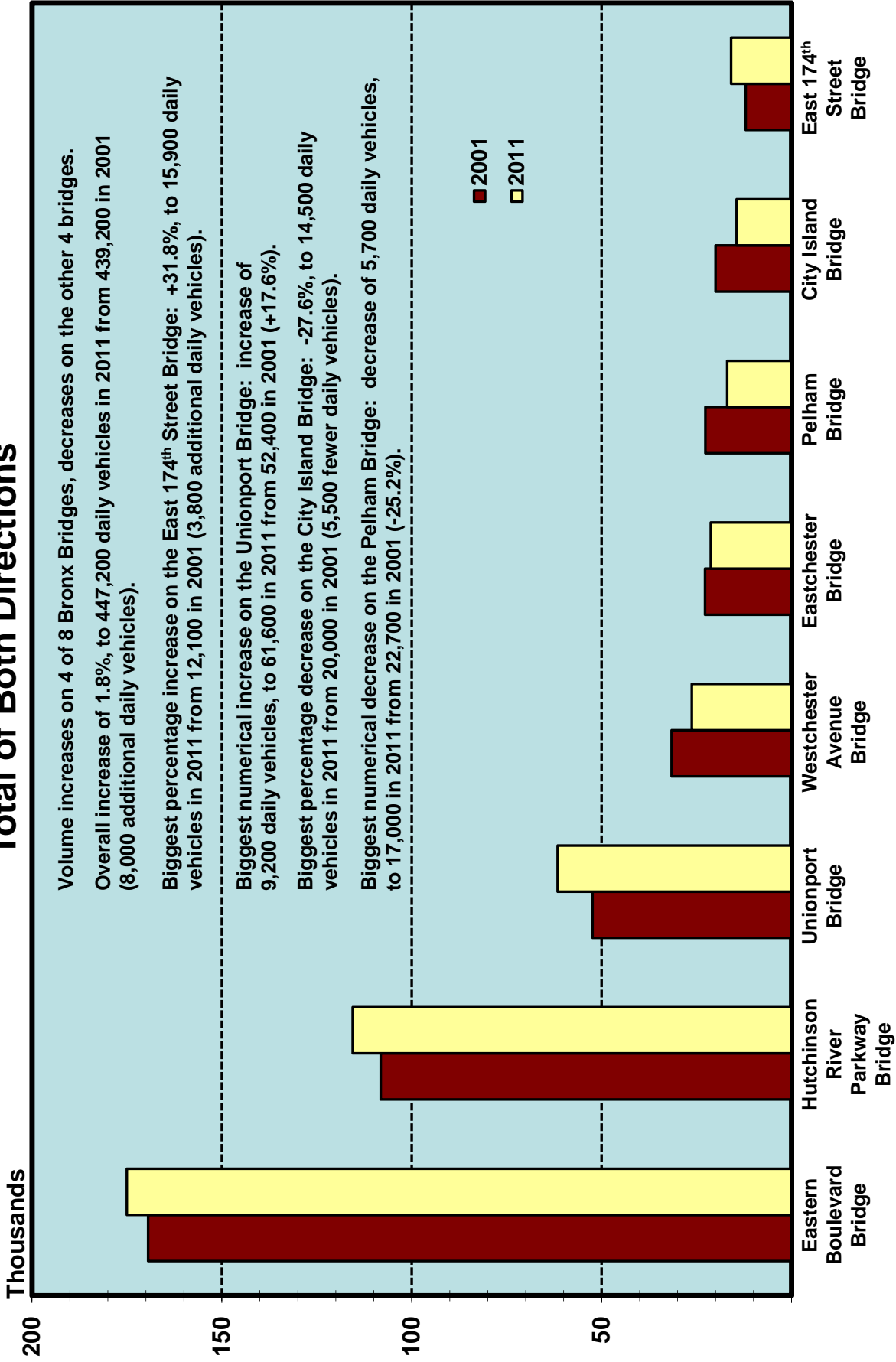
### Total of Both Directions



# 10-Year Volume Changes ~ 2001 – 2011

## Bronx Bridges Daily Volumes

### Total of Both Directions

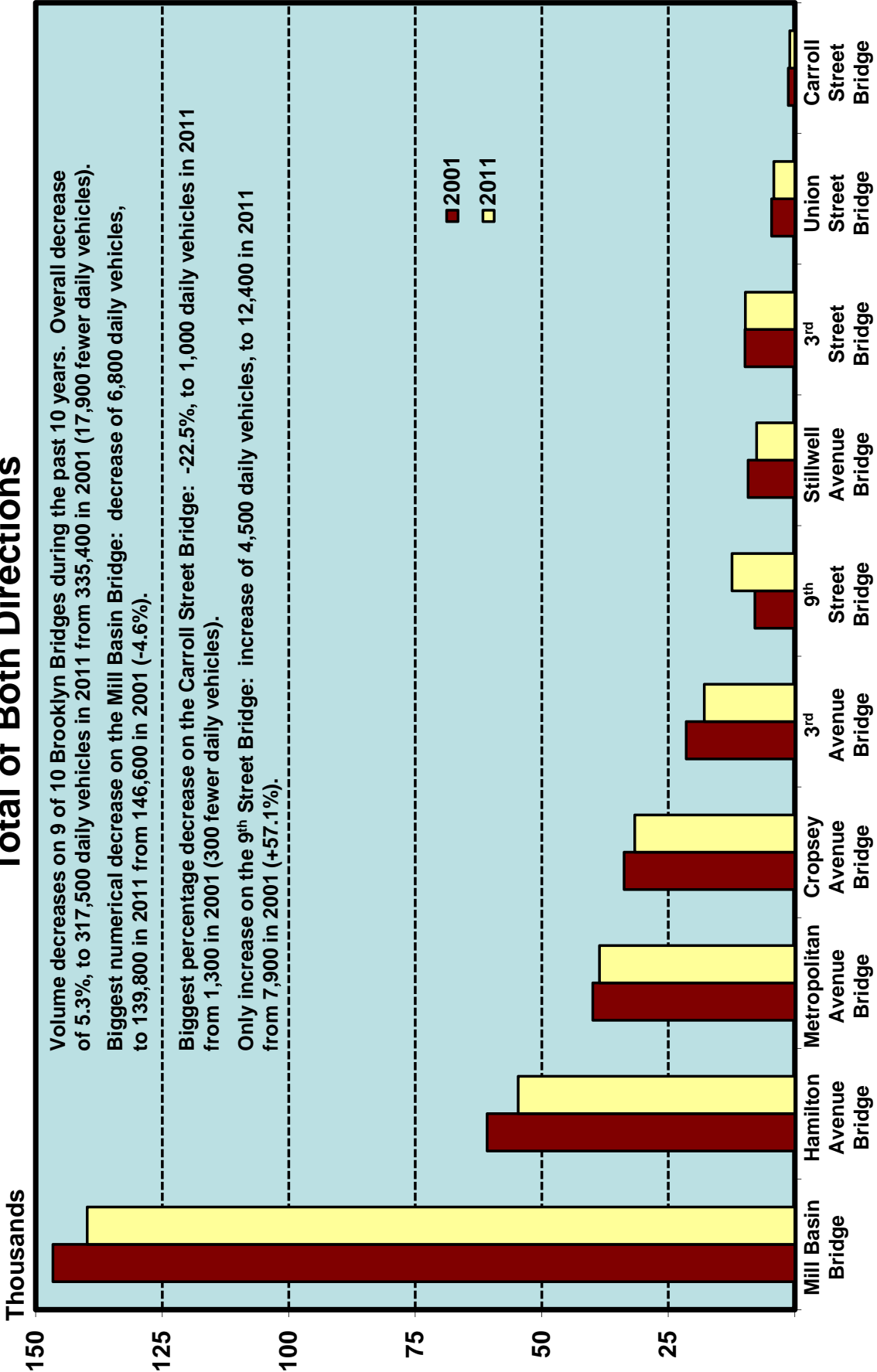




# 10-Year Volume Changes ~ 2001 – 2011

## Brooklyn Bridges Daily Volumes

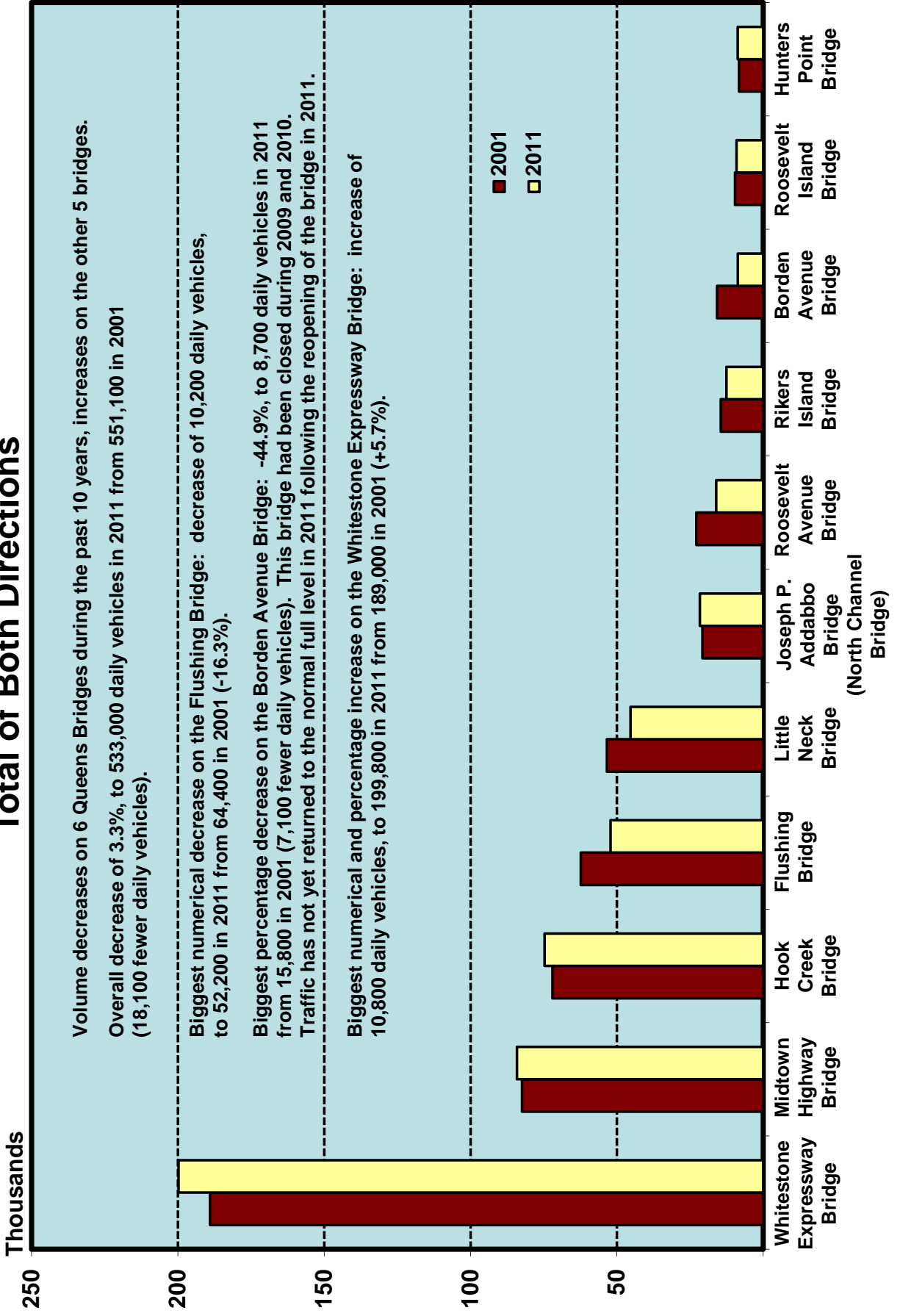
### Total of Both Directions



# 10-Year Volume Changes ~ 2001 – 2011

## Queens Bridges Daily Volumes

### Total of Both Directions

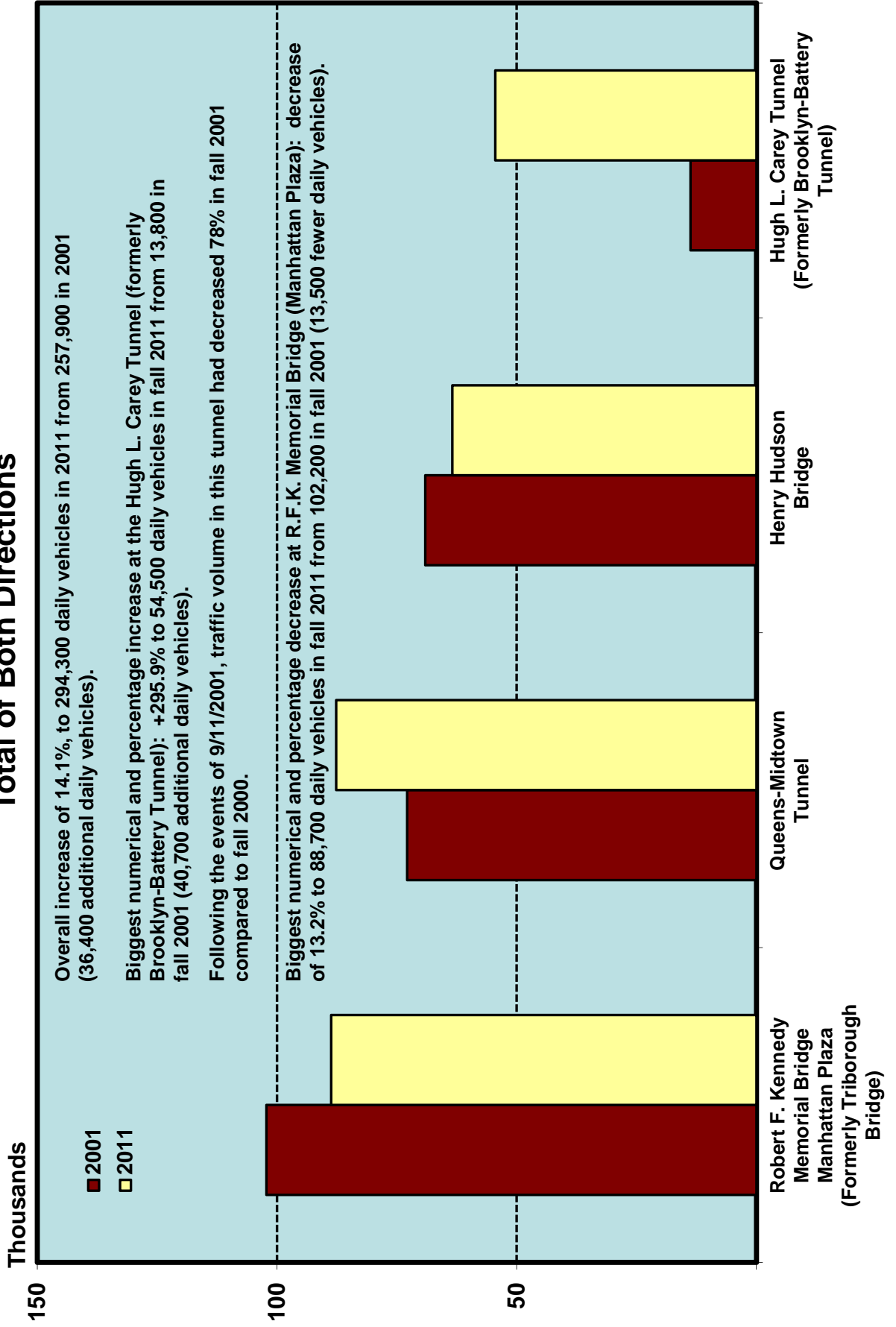


# 10-Year Volume Changes ~ 2001 – 2011

## Metropolitan Transportation Authority Bridges & Tunnels (MTABT)

### Manhattan Facilities Daily Volumes

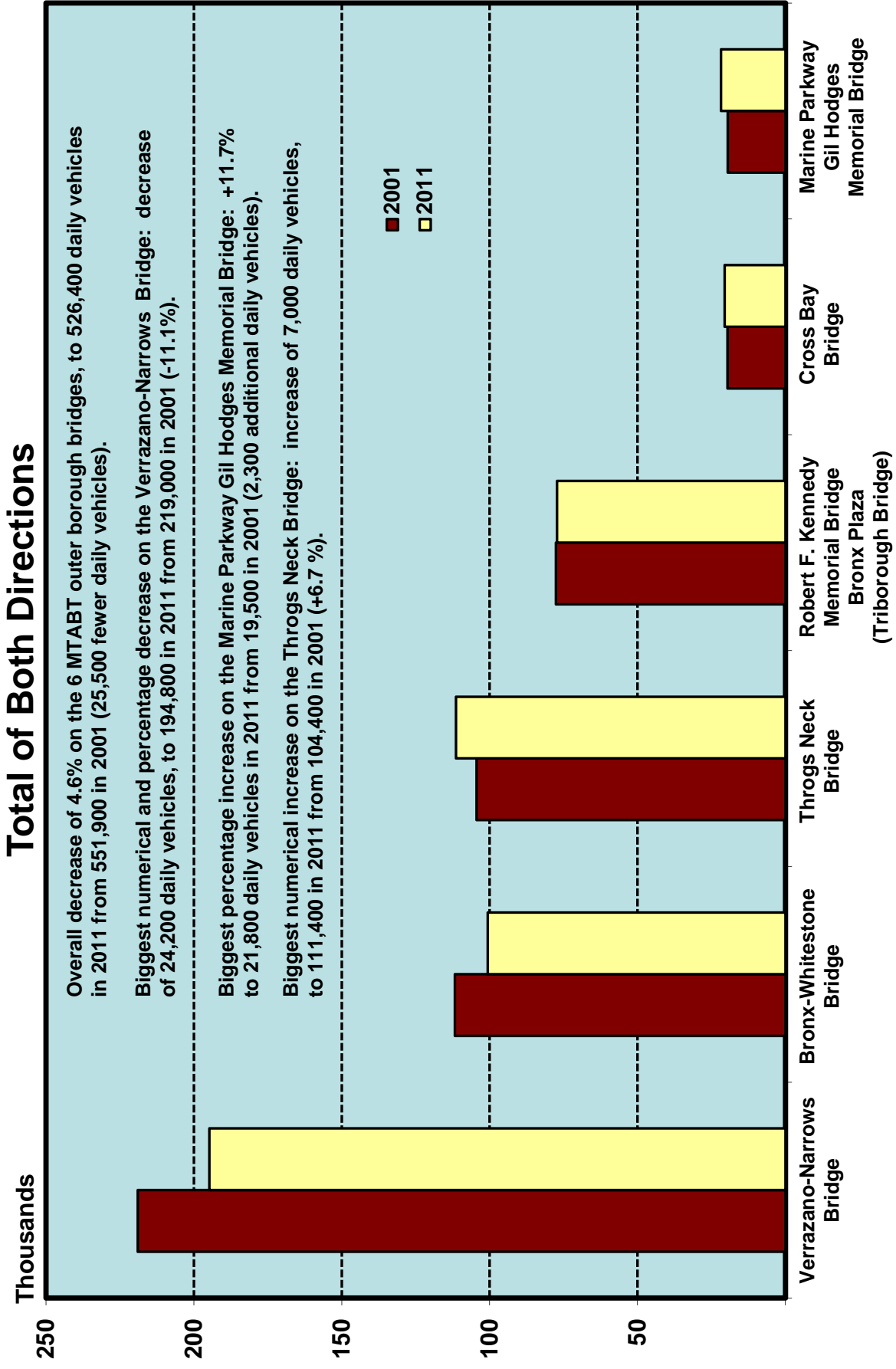
#### Total of Both Directions



# 10-Year Volume Changes ~ 2001 – 2011

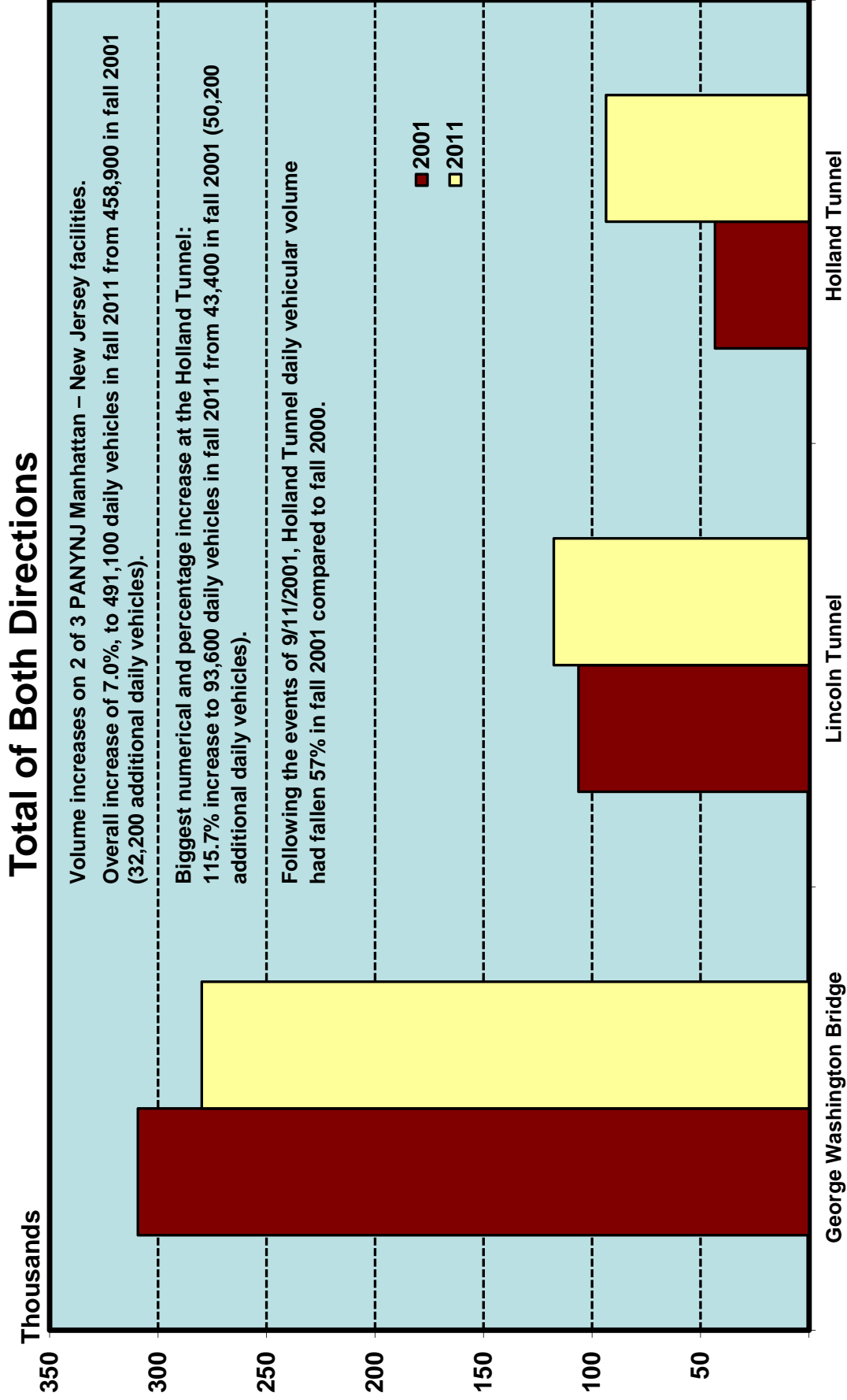
## Metropolitan Transportation Authority Bridges & Tunnels (MTABT)

### Outer Borough Bridges Daily Volumes



# 10-Year Volume Changes ~ 2001 – 2011

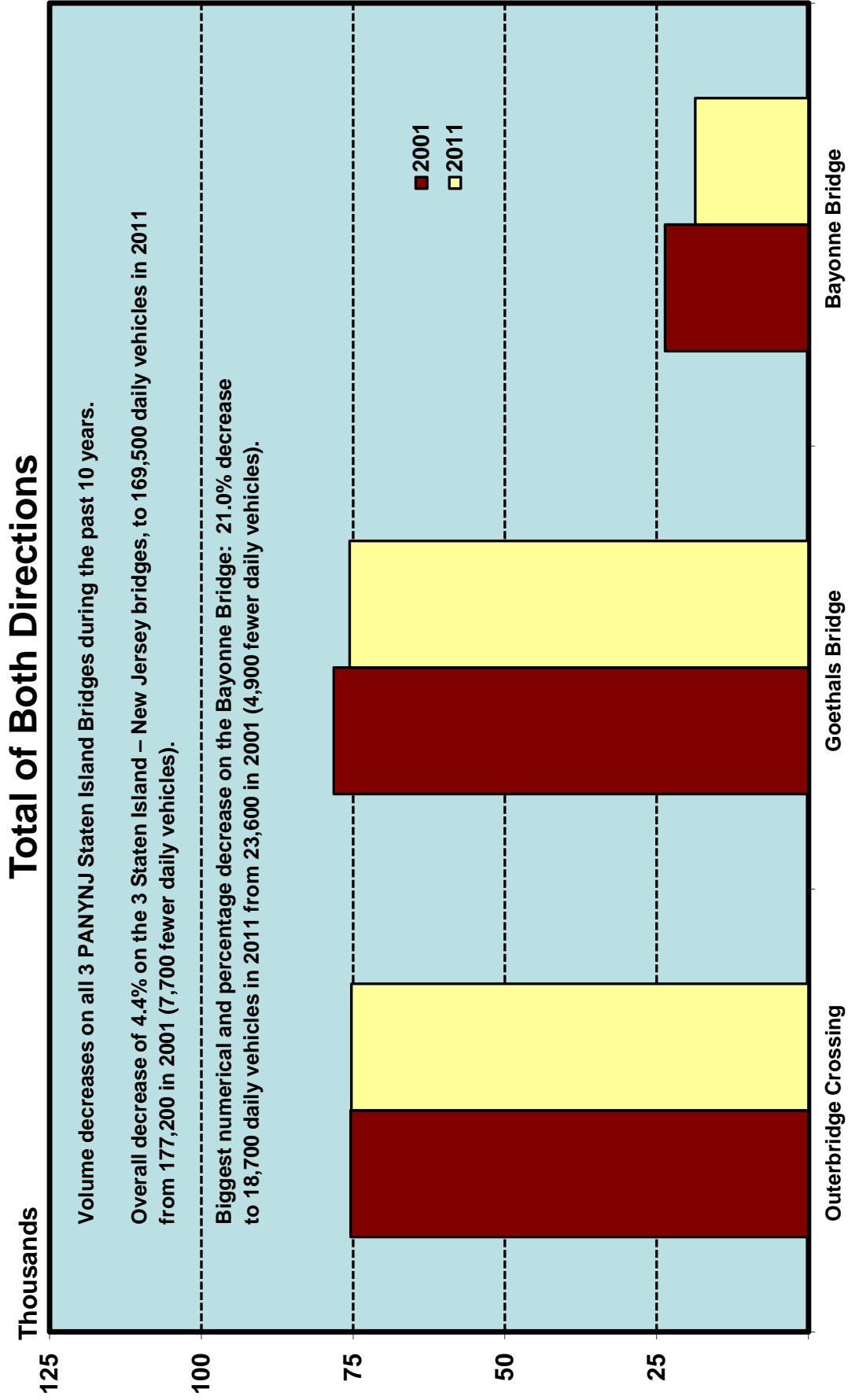
## Port Authority of New York & New Jersey (PANYNJ) Manhattan – N.J. Facilities Daily Volumes



# 10-Year Volume Changes ~ 2001 – 2011

## Port Authority of New York & New Jersey (PANYNJ)

### Staten Island – N.J. Bridges Daily Volumes



# Historic Trends



**City Island Bridge**





## Historic Trends

In 1948, traffic on the City-operated bridges was 924,000 daily trips. By 1968, that figure had more than doubled, to 1,911,800. In 2011, it stood at 2,648,300 daily trips, nearly three times the 1948 volume.

Traffic crossing the Harlem River increased significantly following the opening of the Alexander Hamilton Bridge in 1963. By 1965, daily traffic on the Alexander Hamilton Bridge 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 2,058,600 vehicles per day. This was followed by a downward trend between 1971 and 1979. Daily bridge traffic in 1979 was 64,500 below the 1969 level. Thereafter, bridge traffic increased in most years, with 681,900 more daily vehicles crossing the bridges in 2011 than in 1979.

### 1948 - 1961

- Between 1948 and 1961, bridge traffic increased 66.6% on the 44 City bridges open during that time, to 1,539,400 daily vehicles in 1961 from 924,000 in 1948.
- Large increases in daily traffic occurred at the following bridges:
  - Brooklyn Bridge over the East River (up 86.4% to 69,000 daily vehicles in 1961 from 37,000 in 1948).
  - Williamsburg Bridge over the East River (up 70.8% to 80,500 from 47,100).
  - 3<sup>rd</sup> Avenue Bridge over the Harlem River (up 96.1% to 61,600 from 31,400).
  - University Heights Bridge over the Harlem River (up 101.6% to 43,700 from 21,700).
  - Washington Bridge over the Harlem River (up 109.5% to 61,500 from 29,400).
  - Willis Avenue Bridge over the Harlem River (up 71.7% to 50,900 from 29,600).
  - Kosciuszko Bridge along the Brooklyn-Queens Expressway over Newtown Creek (up 184.0% to 93,100 from 32,800).
  - Eastern Boulevard Bridge in The Bronx (up 61.0% to 71,700 from 44,600).
  - Hutchinson River Parkway Bridge in The Bronx (up 131.1% to 34,900 from 15,100).
  - Unionport Bridge in The Bronx (up 186.7% to 107,100 from 37,400).
  - Hamilton Avenue Bridge in Brooklyn (up 256.3% to 43,200 from 12,100).
  - Mill Basin Bridge along Belt Parkway in Brooklyn (up 194.6% to 64,100 from 21,800).
  - Hook Creek Bridge in Queens (up 259.6% to 34,600 from 9,600).
  - Midtown Highway Bridge on the Long Island Expressway in Queens (up 117.4% to 62,500 daily vehicles in 1961 from 28,800 in 1948).
  - Whitestone Expressway Bridge in Queens (up 96.2% to 53,500 from 27,300).
- The most notable decrease occurred on the Manhattan Bridge over the East River (down 27.6%, to 62,800 daily vehicles in 1961 from 86,700 in 1948).

### 1961 - 1971

- Between 1961 and 1971, bridge traffic increased 33.7% on the 45 City bridges open during that time, to 2,058,600 daily vehicles from 1,539,400.

- Significant increases in daily traffic occurred the following bridges:
  - Brooklyn Bridge over the East River (up 48.6% to 102,500 daily vehicles in 1971 from 69,000 in 1961).
  - Kosciuszko Bridge along the Brooklyn-Queens Expressway over Newtown Creek (up 50.4% to 139,900 from 93,100).
  - Eastern Boulevard Bridge in The Bronx (up 76.7% to 126,800 daily vehicles from 71,700).
  - Mill Basin Bridge along Belt Parkway in Brooklyn (up 72.8% to 110,800 from 64,100).
  - Little Neck Bridge in Queens (up 79.2% to 44,500 from 24,900).
  - Whitestone Expressway Bridge in Queens (up 119.7% to 117,600 from 53,500).
  - Fresh Kills Bridge in Staten Island (up 160.4% to 26,700 from 10,300).
- Significant decreases in daily traffic occurred the following bridges:
  - 3<sup>rd</sup> Avenue Bridge over the Harlem River (down 17.9% to 50,500 daily vehicles in 1971 from 61,600 in 1961).
  - University Heights Bridge over the Harlem River (down 32.3% to 29,600 from 43,700).
  - Washington Bridge over the Harlem River (down 37.4% to 38,500 from 61,500).
  - Hamilton Avenue Bridge in Brooklyn (down 21.7% to 33,800 from 43,200).

### **1971 - 1981**

- From 1971 to 1981, total traffic on the 47 City bridges decreased 0.3%, to 2,052,800 daily vehicles from 2,058,600.
- The most dramatic decrease was on the Unionport Bridge over Westchester Creek in The Bronx, a decrease of 100,800 daily vehicles, to 34,500 in 1981 from 135,300 in 1971 (-74.5%), as the Bruckner Interchange was completed in 1972.
- The most significant increases occurred on the following bridges:
  - Midtown Highway Bridge in Queens (up 32.3% to 100,200 daily vehicles in 1981 from 75,700 in 1971).
  - Fresh Kills Bridge in Staten Island (up 75.5% to 46,900 from 26,700).

### **1981 - 1991**

- Between 1981 and 1991, daily traffic increased 14.3% on the 47 City bridges, to 2,345,700 from 2,052,800.
- Significant increases in daily traffic occurred on the following bridges:
  - Brooklyn Bridge over the East River (up 25.3%, to 128,500 daily vehicles in 1991 from 102,600 in 1981).
  - Williamsburg Bridge over the East River (up 35.5%, to 115,300 from 85,100).
  - Alexander Hamilton Bridge over the Harlem River (up 26.0% to 187,300 from 148,600).
  - Washington Bridge over the Harlem River (up 51.1%, to 57,500 from 38,100). The nearby University Heights Bridge was closed to Bronx-bound traffic in 1991.
  - Hutchinson River Parkway Bridge in The Bronx (up 28.4%, to 76,800 from 59,800).
  - Mill Basin Bridge along Belt Parkway in Brooklyn (up 26.4% to 134,400 from 106,400).

- Significant decreases occurred on the following bridges:
  - University Heights Bridge over the Harlem River (down 47.1%, to 18,200 daily vehicles in 1991 from 34,500 in 1981). This bridge was closed to Bronx-bound traffic in 1991.
  - Midtown Highway Bridge on the Long Island Expressway in Queens (down 25.8% to 74,300 daily vehicles in 1991 from 100,200 in 1981).

## **1991 - 2001**

- Between 1991 and 2001, bridge traffic increased 13.6%, to 2,665,600 daily vehicles from 2,345,700.
- Significant increases in daily traffic occurred on the following bridges:
  - Ed Koch Queensboro Bridge over the East River (up 34.3%, to 176,500 daily vehicles in 2001 from 131,400 in 1991).
  - University Heights Bridge over the Harlem River (up 154.6%, to 46,400 daily vehicles in 2001 from 18,200 in 1991). Due to reconstruction work, this bridge had been closed to Bronx-bound traffic during 1991.
  - Kosciuszko Bridge along the Brooklyn-Queens Expressway over Newtown Creek (up 18.2% to 196,600 from 166,300).
  - Eastern Boulevard Bridge in The Bronx (up 38.4% to 169,400 from 122,400).
  - Hutchinson River Parkway Bridge in The Bronx (up 40.9% to 108,200 from 76,800).
  - Unionport Bridge in The Bronx (up 38.5% to 52,400 from 37,800).
  - Whitestone Expressway Bridge in Queens (up 33.3% to 189,000 from 141,800).
  - Fresh Kills Bridge in Staten Island (up 37.1% to 67,500 from 49,200).
- Significant decreases occurred on the following bridges:
  - Brooklyn Bridge over the East River (down 25.6%, to 95,600 daily vehicles in 2001 from 128,500 in 1991).
  - Williamsburg Bridge over the East River (down 28.7%, to 82,200 from 115,300).
  - These decreases may be attributable to restrictions on vehicles entering Lower Manhattan following the events of 9/11/2001.

**Total NYC Toll Free Bridges  
Average Daily Traffic Volumes  
1948 - 2011**

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

**Total NYC Toll Free Bridges (continued)**  
**Average Daily Traffic Volumes**  
**1948 - 2011**

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

**NYC Tolled Facilities**  
**Average Daily Traffic Volumes**  
**1948 - 2011**

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

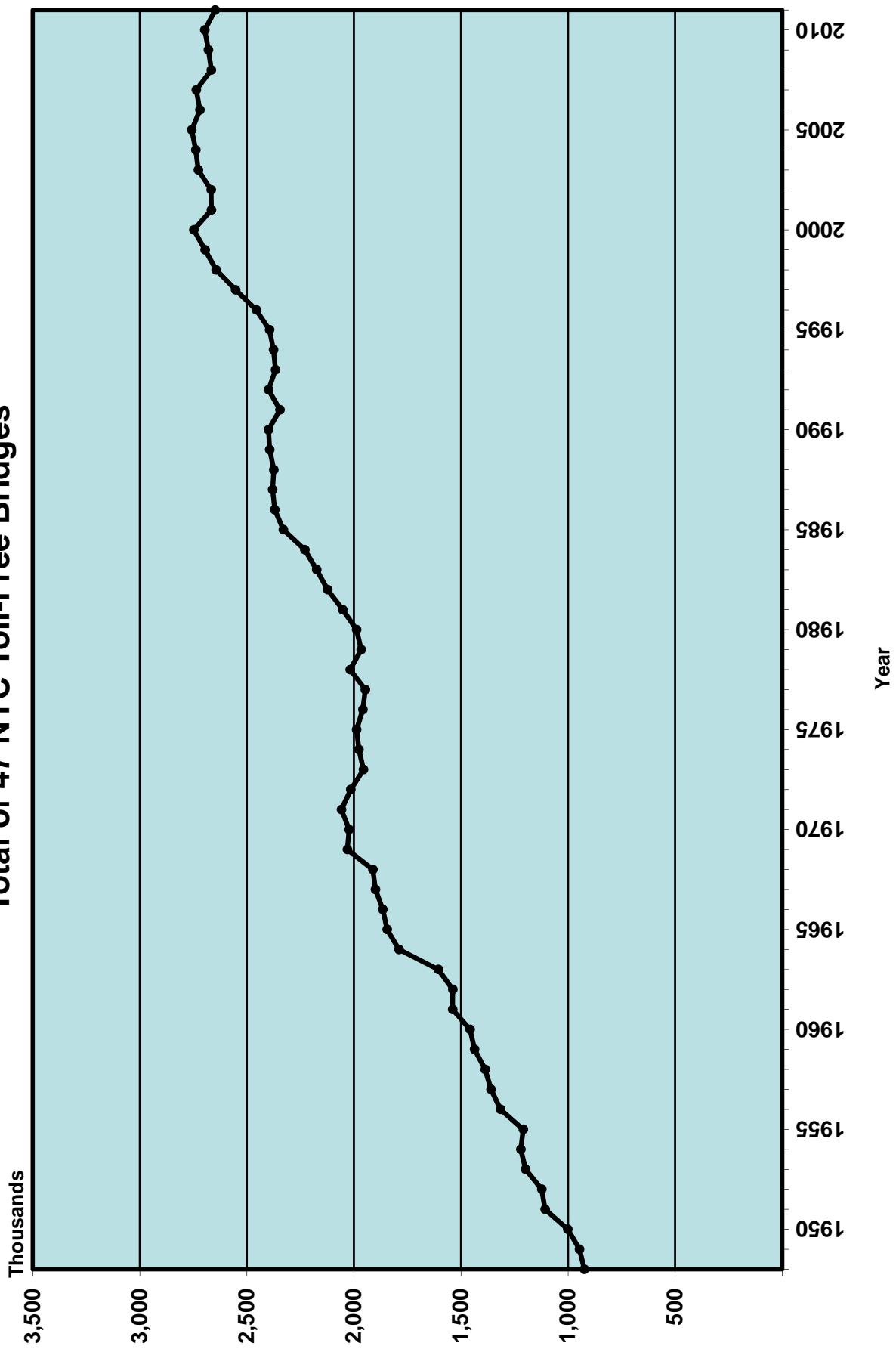
PANYNJ one-way tolls initiated 8/12/1970.

PANYNJ toll increases May 1975, Jan. 1984, April 1987, April 1991, March 2001, March 2008 & Sept. 2011.

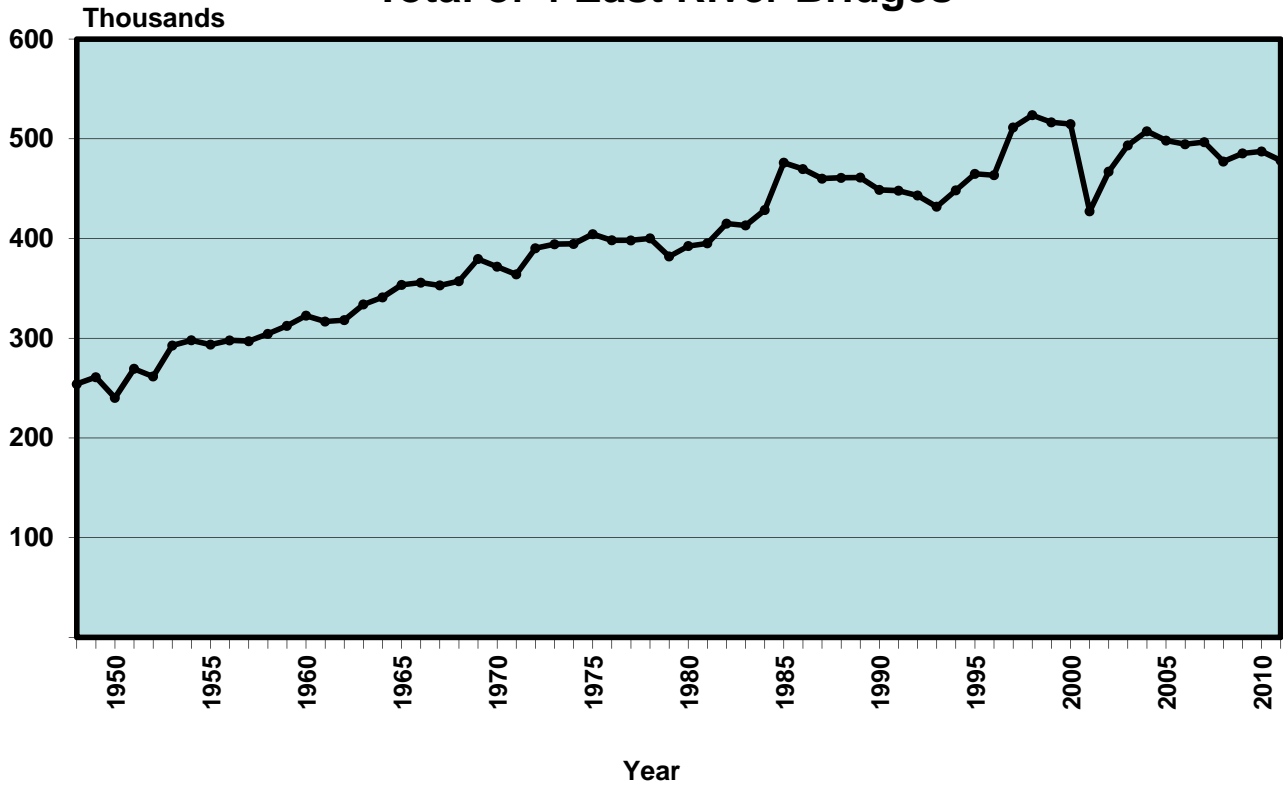
MTABT toll increases Jan. 1972, Sep. 1975, May 1980, April 1982, Jan. 1984, Jan. 1986, Feb. 1987, July 198

Jan. 1993, March 1996, May 2003, March 2005, March 2008, July 2009, & Dec. 2010.

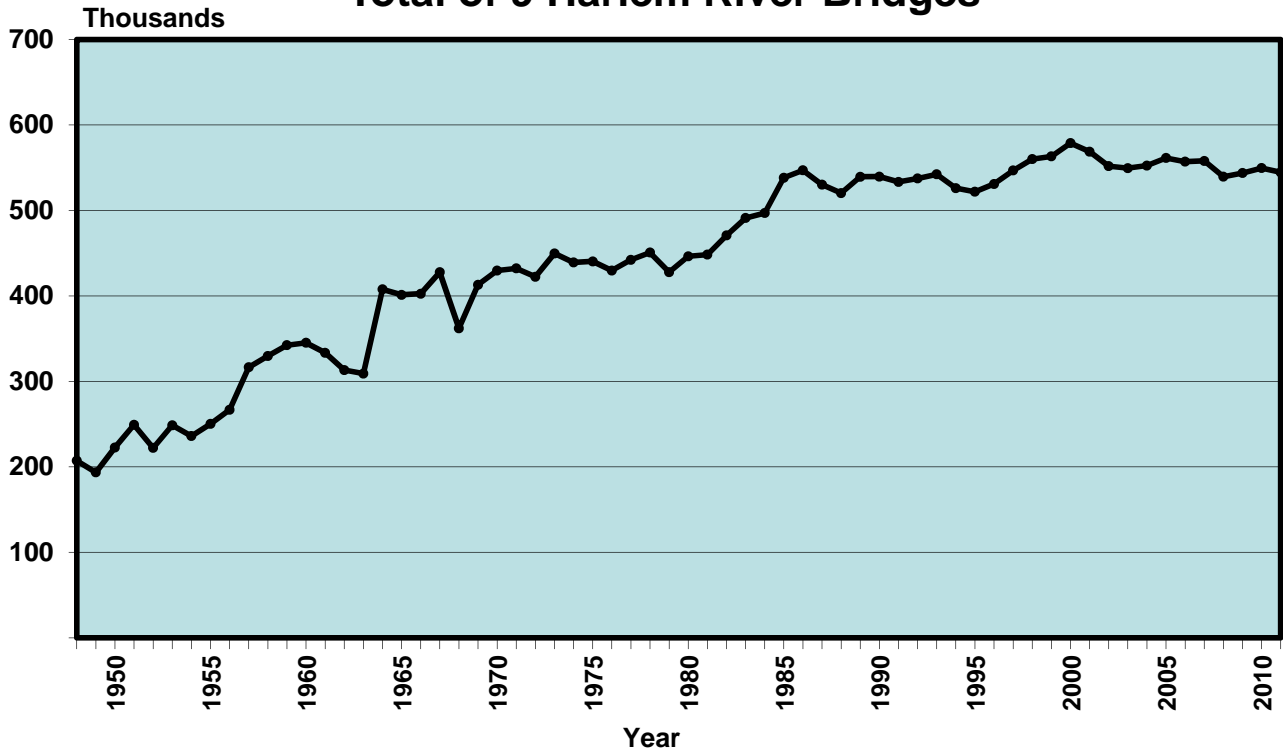
# Average Daily Traffic Volumes ~ Total of Both Directions Total of 47 NYC Toll-Free Bridges



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

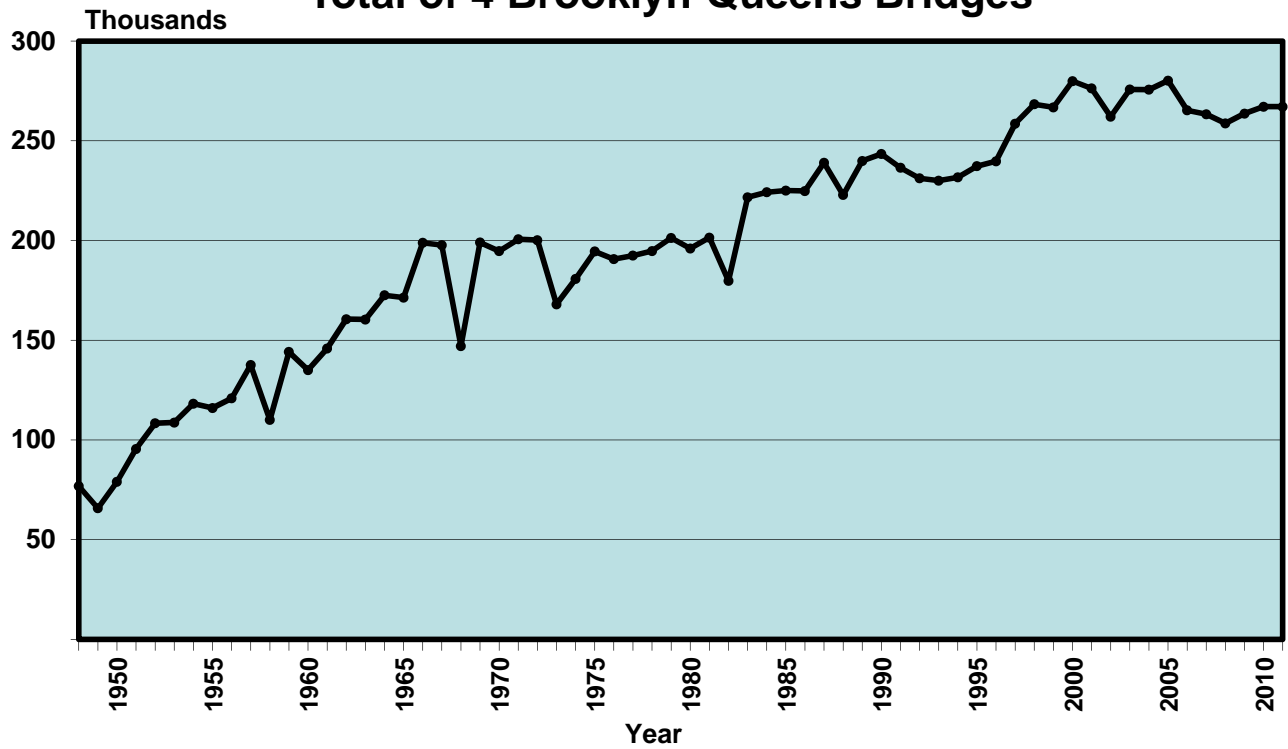


## Average Daily Traffic Volumes ~ Total of Both Directions Total of 9 Harlem River Bridges

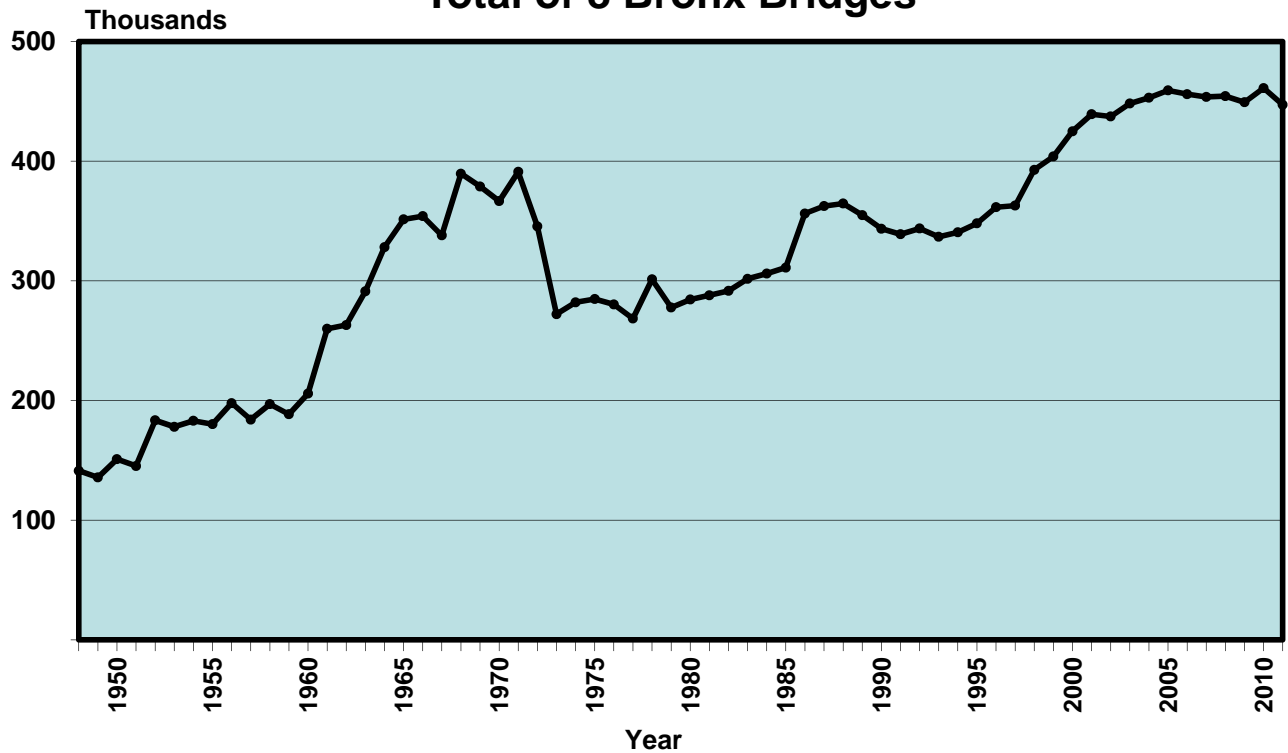




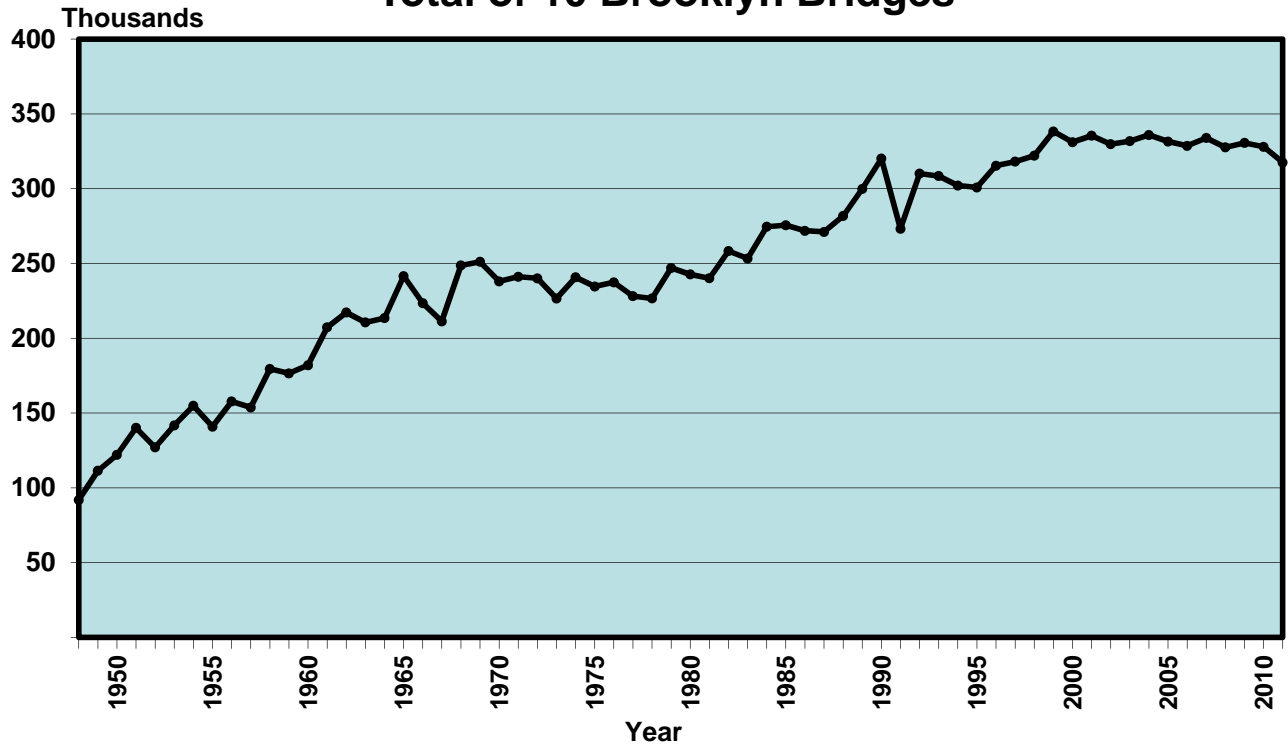
## Average Daily Traffic Volumes ~ Total of Both Directions Total of 4 Brooklyn-Queens Bridges



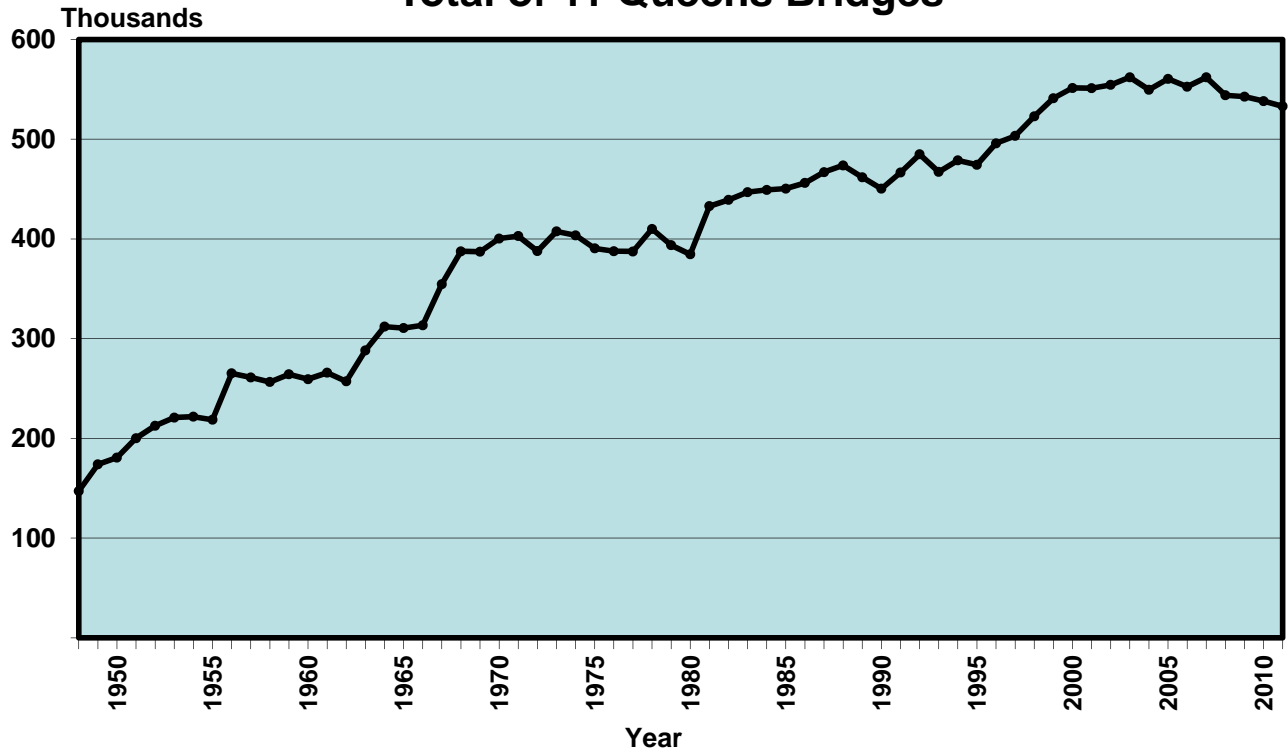
## Average Daily Traffic Volumes ~ Total of Both Directions Total of 8 Bronx Bridges



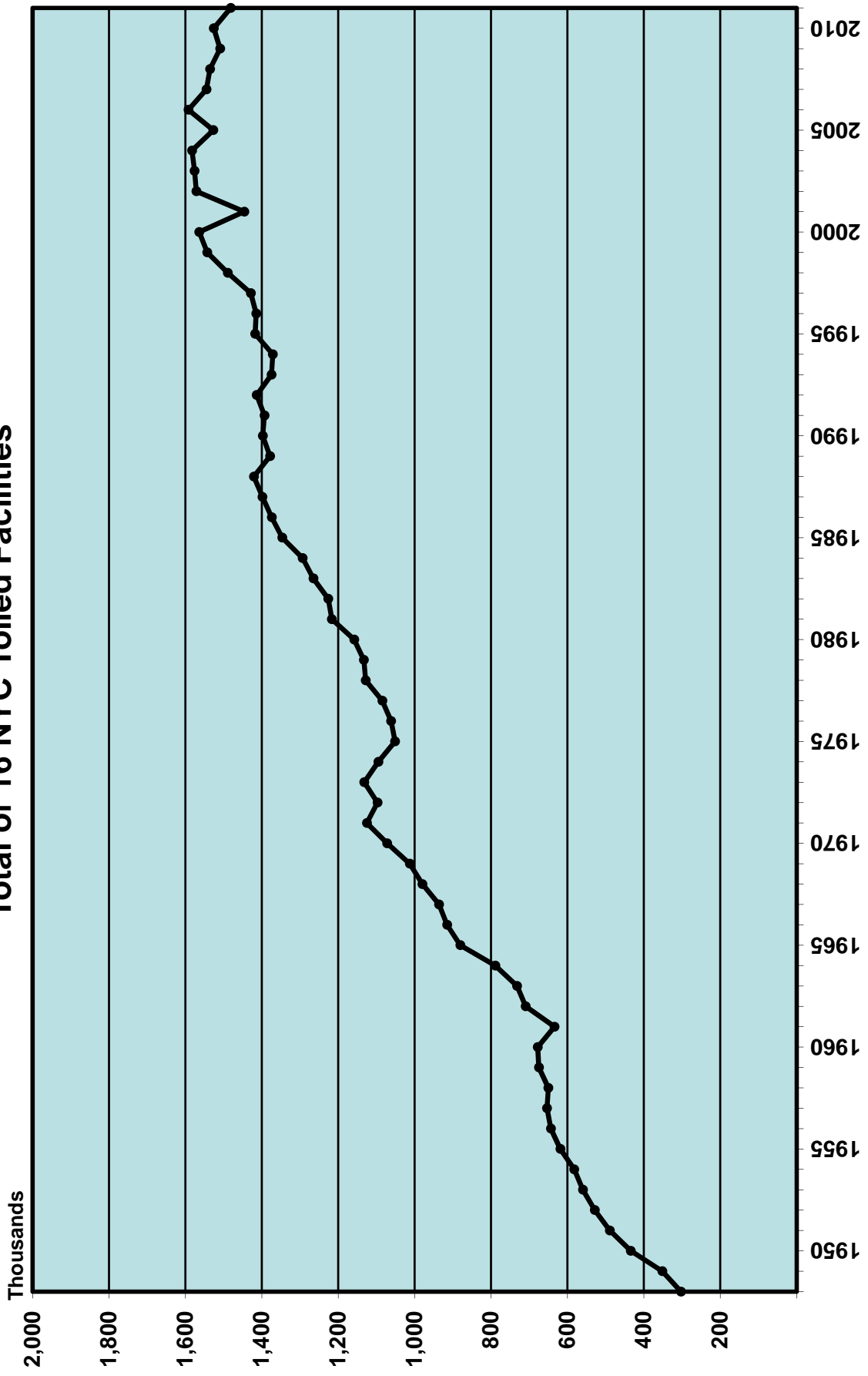
### Average Daily Traffic Volumes ~ Total of Both Directions Total of 10 Brooklyn Bridges



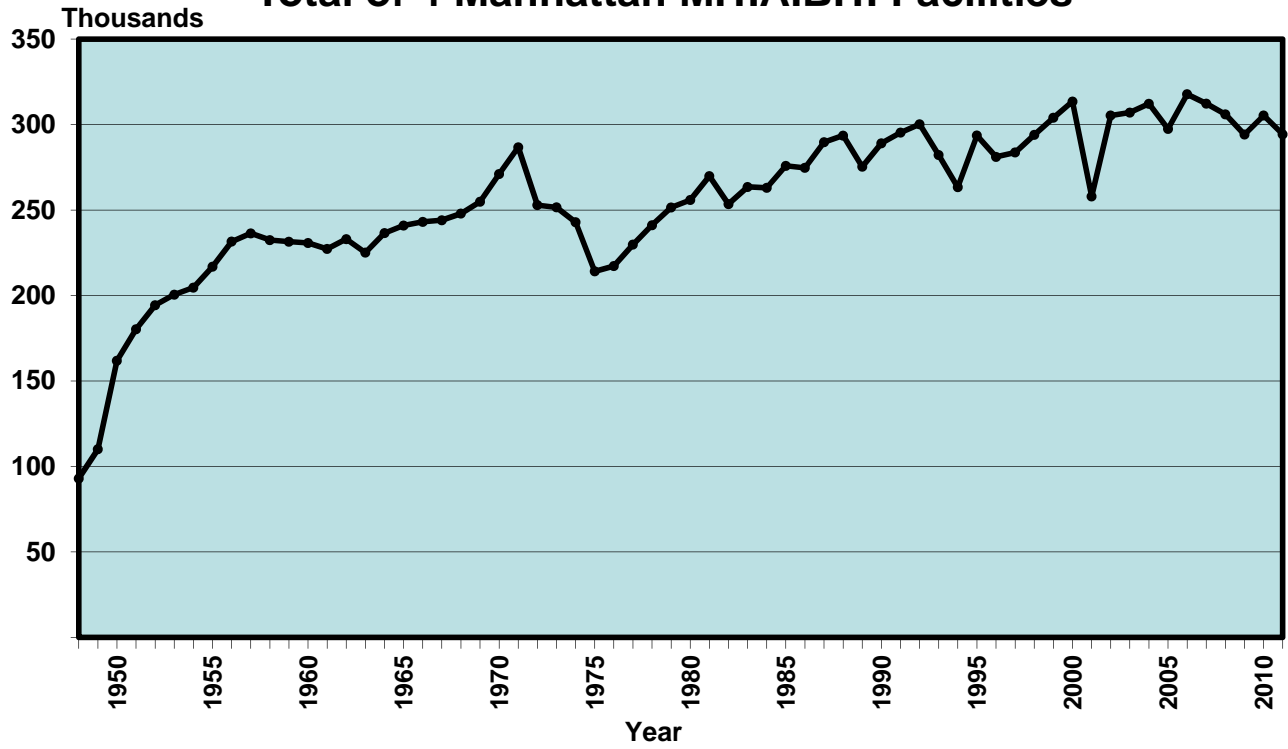
### Average Daily Traffic Volumes ~ Total of Both Directions Total of 11 Queens Bridges



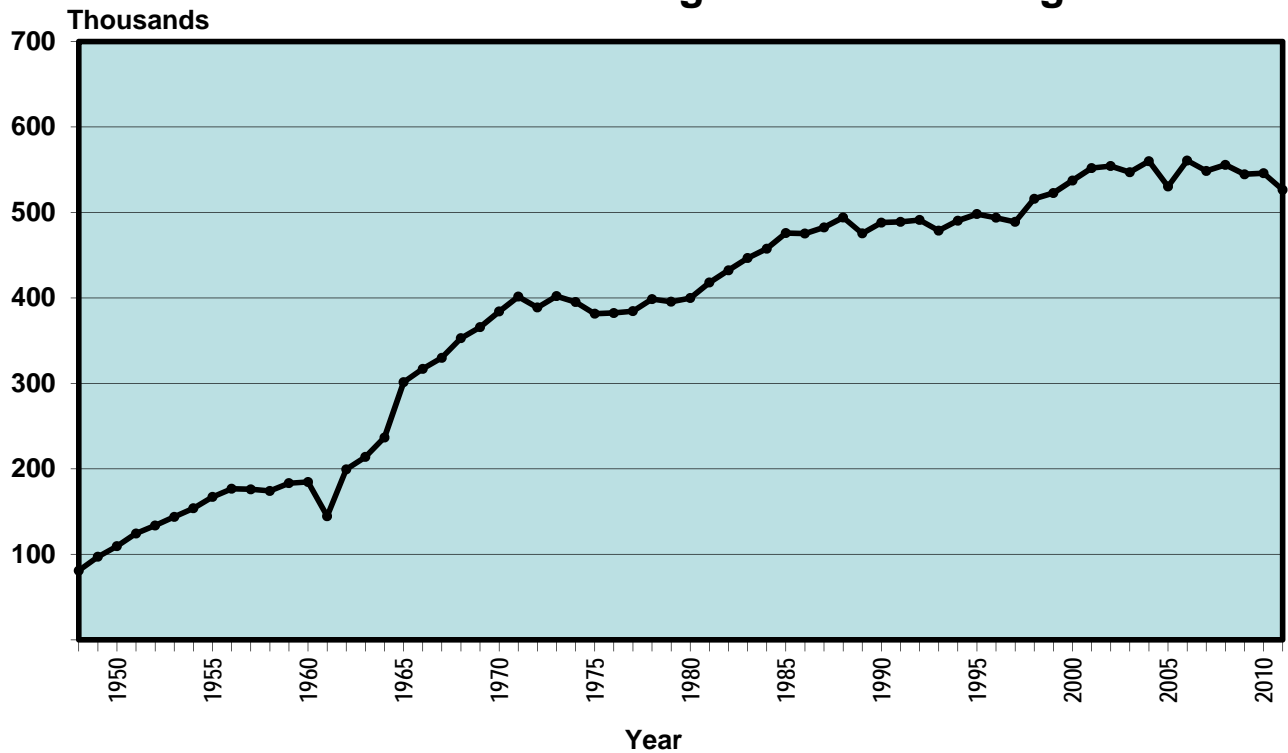
# Average Daily Traffic Volumes ~ Total of Both Directions Total of 16 NYC Tolled Facilities



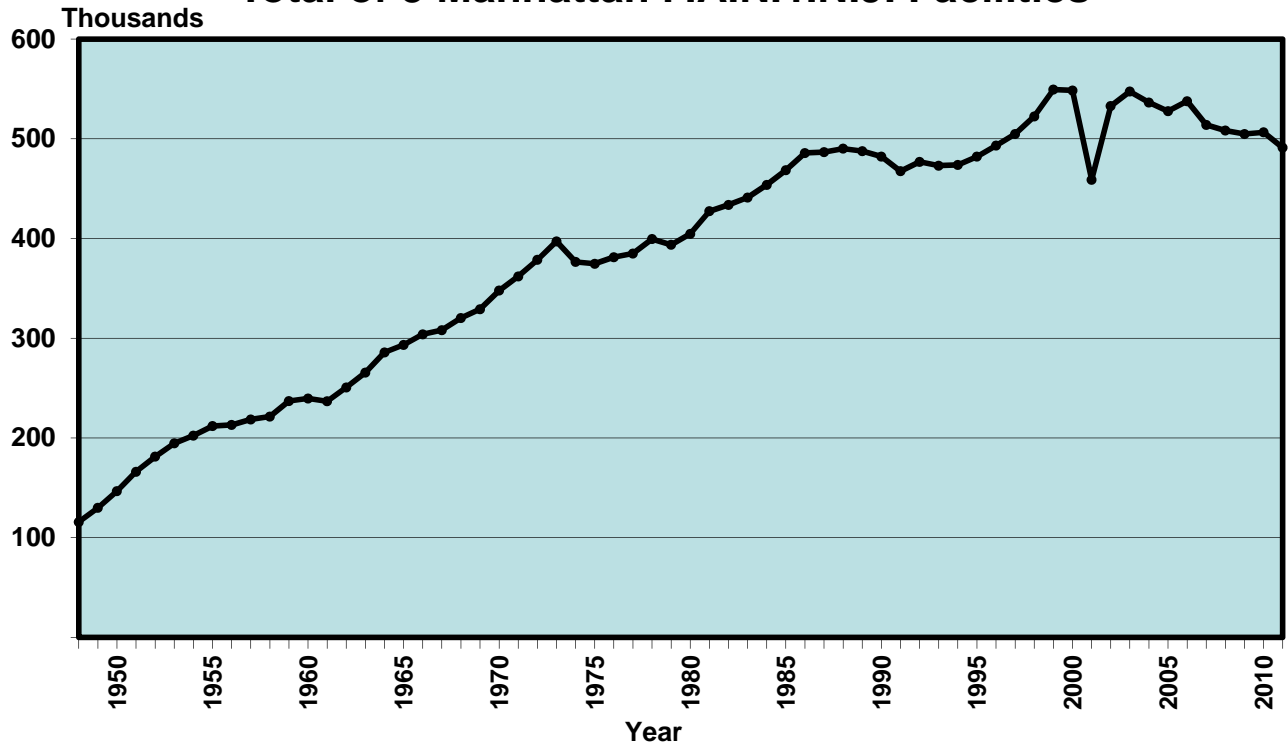
## Average Daily Traffic Volumes ~ Total of Both Directions Total of 4 Manhattan M.T.A.B.T. Facilities



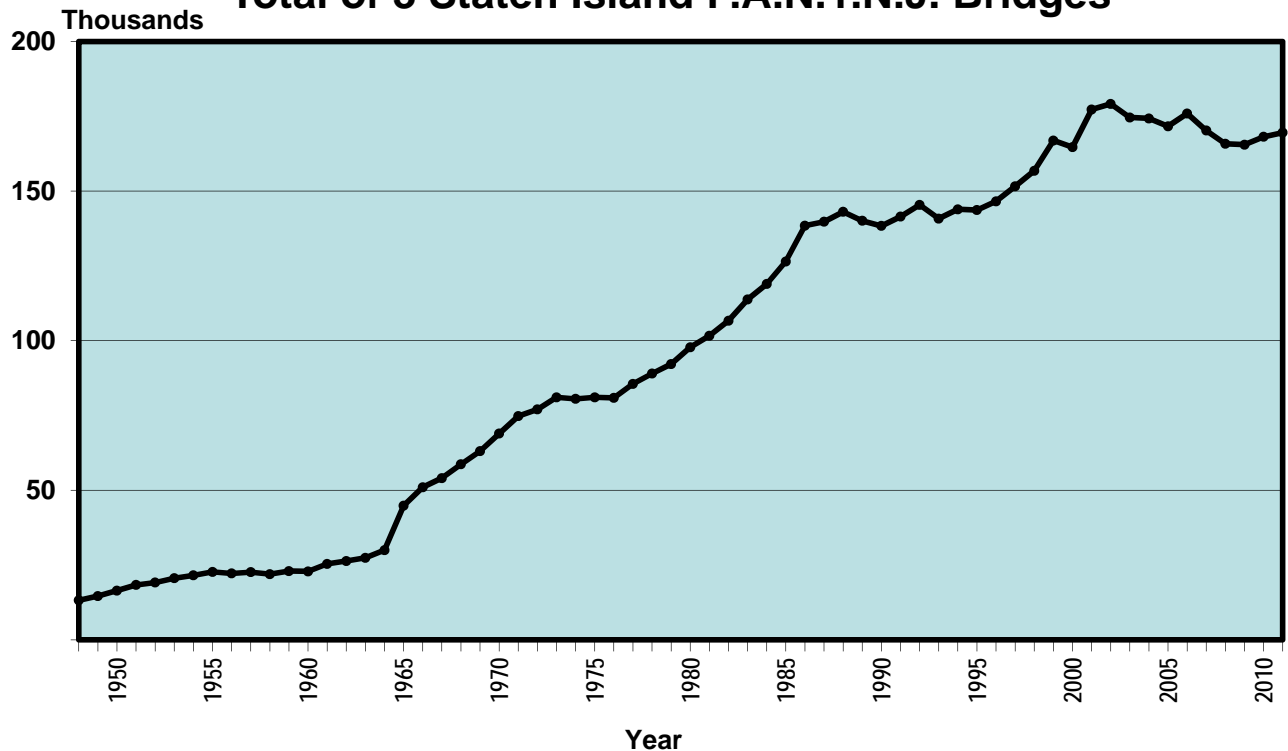
## Average Daily Traffic Volumes ~ Total of Both Directions Total of 6 Outer Borough M.T.A.B.T. Bridges



### 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





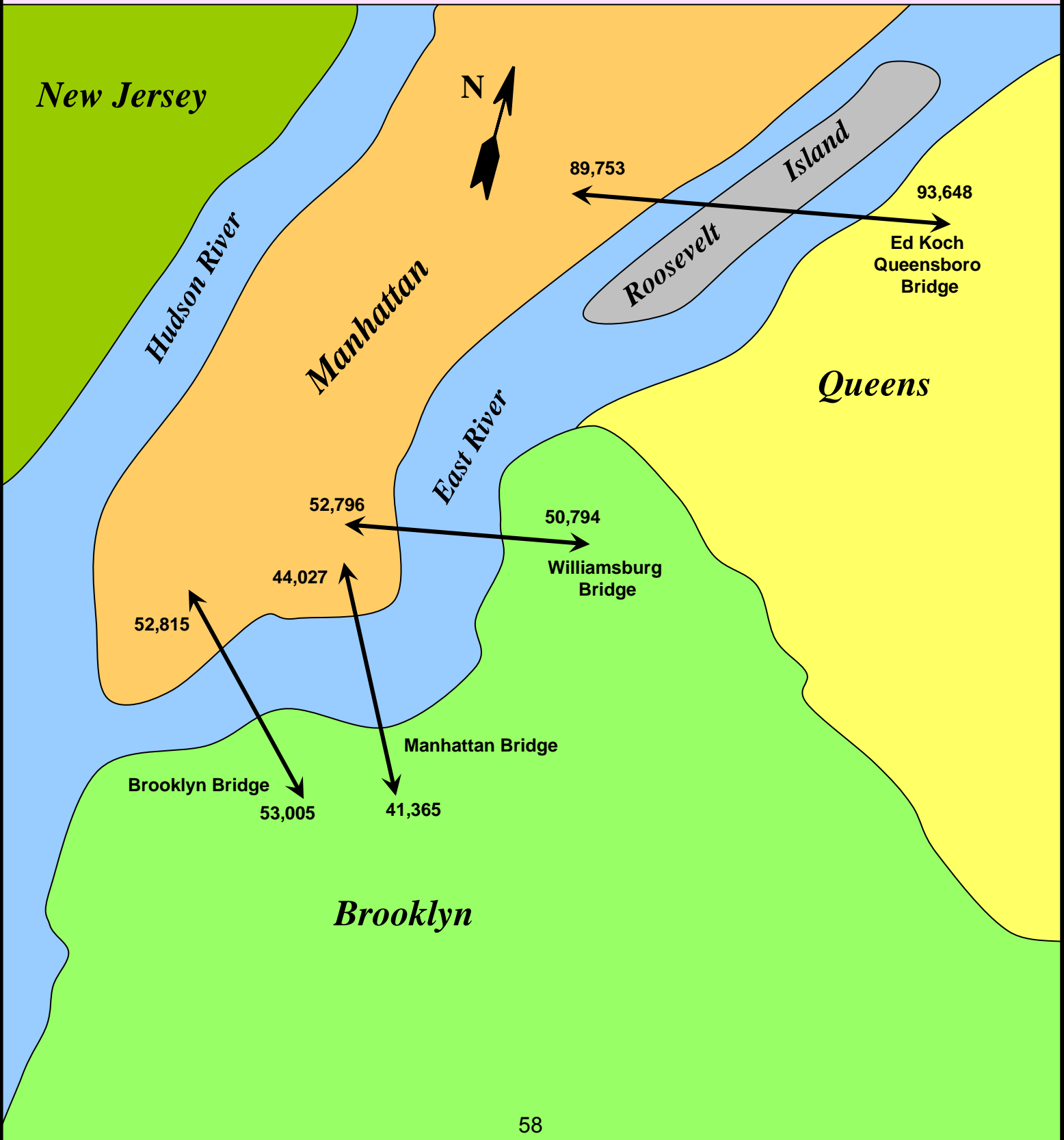
# East River Bridges



Brooklyn Bridge

# East River Bridges

2011 Daily Volumes





**East River Bridges**  
**Average Daily Traffic Volumes**  
**1948 - 2011**

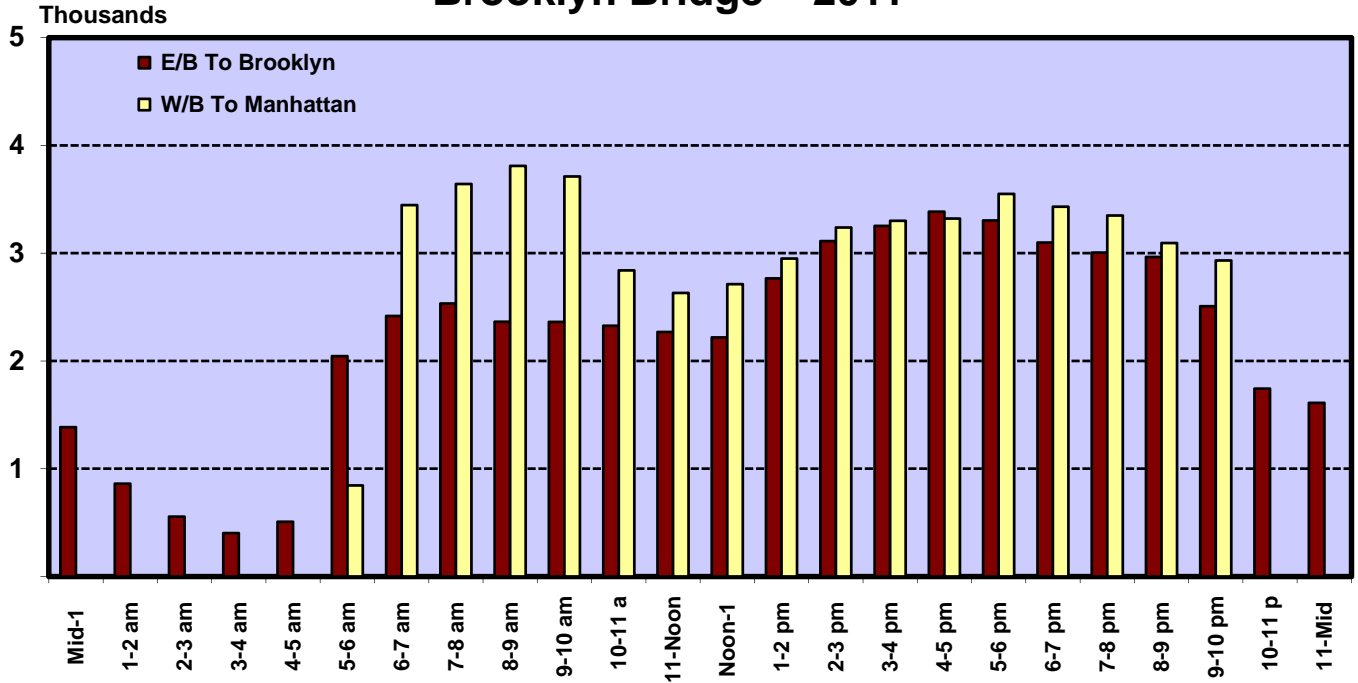
<i>Year</i>	<i>Brooklyn Bridge</i>	<i>Ed Koch Queensboro Bridge</i>	<i>Manhattan Bridge</i>	<i>Williamsburg Bridge</i>	<i>Totals</i>
1948	37,011	83,201	86,717	47,139	254,068
1949	37,244	88,821	80,420	54,448	260,933
1950	13,397	84,863	84,027	57,940	240,227
1951	14,865	90,922	100,826	62,739	269,352
1952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

## Hourly Vehicular Volumes Brooklyn Bridge - 2011

FHWA Classes ▲	Eastbound to Brooklyn										Westbound to Manhattan								2-Way Grand Totals
	Commuter Vans					Total Vehicles	Commuter Vans					Total Vehicles							
	Autos & Motorcycles	Large SUVs	Buses	Single Unit Trucks	Tractor Trailers		Autos & Motorcycles	Large SUVs	Buses	Single Unit Trucks	Tractor Trailers								
1 & 2	3	4	5-7	8-13		1 & 2	3	4	5-7	8-13									
12-1am	1,385	1	0	0	0	1,386	0	0	0	0	0	0	0	0	0	1,386			
1-2am	858	3	1	0	0	862	0	0	0	0	0	0	0	0	0	862			
2-3am	554	2	0	0	0	556	0	0	0	0	0	0	0	0	0	556			
3-4am	400	3	0	0	0	403	0	0	0	0	0	0	0	0	0	403			
4-5am	501	6	1	0	0	508	0	0	0	0	0	0	0	0	0	508			
5-6am	2,018	25	2	0	0	2,045	817	15	11	2	0	0	0	0	845	2,890			
6-7am	2,372	35	10	1	0	2,418	3,326	40	79	2	0	0	0	0	3,447	5,865			
7-8am	2,481	32	19	1	0	2,533	3,579	24	38	2	0	0	0	0	3,643	6,176			
8-9am	2,307	37	19	1	0	2,364	3,767	30	10	3	0	0	0	0	3,810	6,174			
9-10am	2,293	42	26	1	0	2,362	3,662	30	12	8	0	0	0	0	3,712	6,074			
10-11am	2,282	28	17	0	0	2,327	2,800	23	12	6	0	0	0	0	2,841	5,168			
11-12am	2,205	42	22	0	0	2,269	2,579	33	13	7	0	0	0	0	2,632	4,901			
12-1pm	2,158	39	21	0	0	2,218	2,664	23	24	2	0	0	0	0	2,713	4,931			
1-2pm	2,695	40	30	1	0	2,766	2,851	38	52	10	0	0	0	0	2,951	5,717			
2-3pm	3,024	41	45	2	0	3,112	3,171	33	32	3	0	0	0	0	3,239	6,351			
3-4pm	3,182	34	37	0	0	3,253	3,226	37	37	1	0	0	0	0	3,301	6,554			
4-5pm	3,327	35	23	1	0	3,386	3,268	34	18	2	0	0	0	0	3,322	6,708			
5-6pm	3,249	36	19	0	0	3,304	3,509	24	16	2	0	0	0	0	3,551	6,855			
6-7pm	3,037	47	14	1	0	3,099	3,391	26	13	2	0	0	0	0	3,432	6,531			
7-8pm	2,969	32	5	0	0	3,006	3,327	16	6	1	0	0	0	0	3,350	6,356			
8-9pm	2,949	14	2	0	0	2,965	3,069	21	2	2	0	0	0	0	3,094	6,059			
9-10pm	2,497	10	1	0	0	2,508	2,905	23	3	1	0	0	0	0	2,932	5,440			
10-11pm	1,741	3	0	0	0	1,744	0	0	0	0	0	0	0	0	1,744	1,744			
11-12pm	1,607	3	1	0	0	1,611	0	0	0	0	0	0	0	0	1,611	1,611			
<b>Totals</b>	<b>52,091</b>	<b>590</b>	<b>315</b>	<b>9</b>	<b>0</b>	<b>53,005</b>	<b>51,911</b>	<b>470</b>	<b>378</b>	<b>56</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>52,815</b>	<b>105,820</b>			
7-10am	7,081	111	64	3	0	7,259	11,008	84	60	13	0	0	0	0	11,165	18,424			
10am-1pm	6,645	109	60	0	0	6,814	8,043	79	49	15	0	0	0	0	8,186	15,000			
1-4pm	8,901	115	112	3	0	9,131	9,248	108	121	14	0	0	0	0	9,491	18,622			
4-7pm	9,613	118	56	2	0	9,789	10,168	84	47	6	0	0	0	0	10,305	20,094			
7am-7pm	32,240	453	292	8	0	32,993	38,467	355	277	48	0	0	0	0	39,147	72,140			
6-10am	9,453	146	74	4	0	9,677	14,334	124	139	15	0	0	0	0	14,612	24,289			
3-7pm	12,795	152	93	2	0	13,042	13,394	121	84	7	0	0	0	0	13,606	26,648			
6am-7pm	34,612	488	302	9	0	35,411	41,793	395	356	50	0	0	0	0	42,594	78,005			

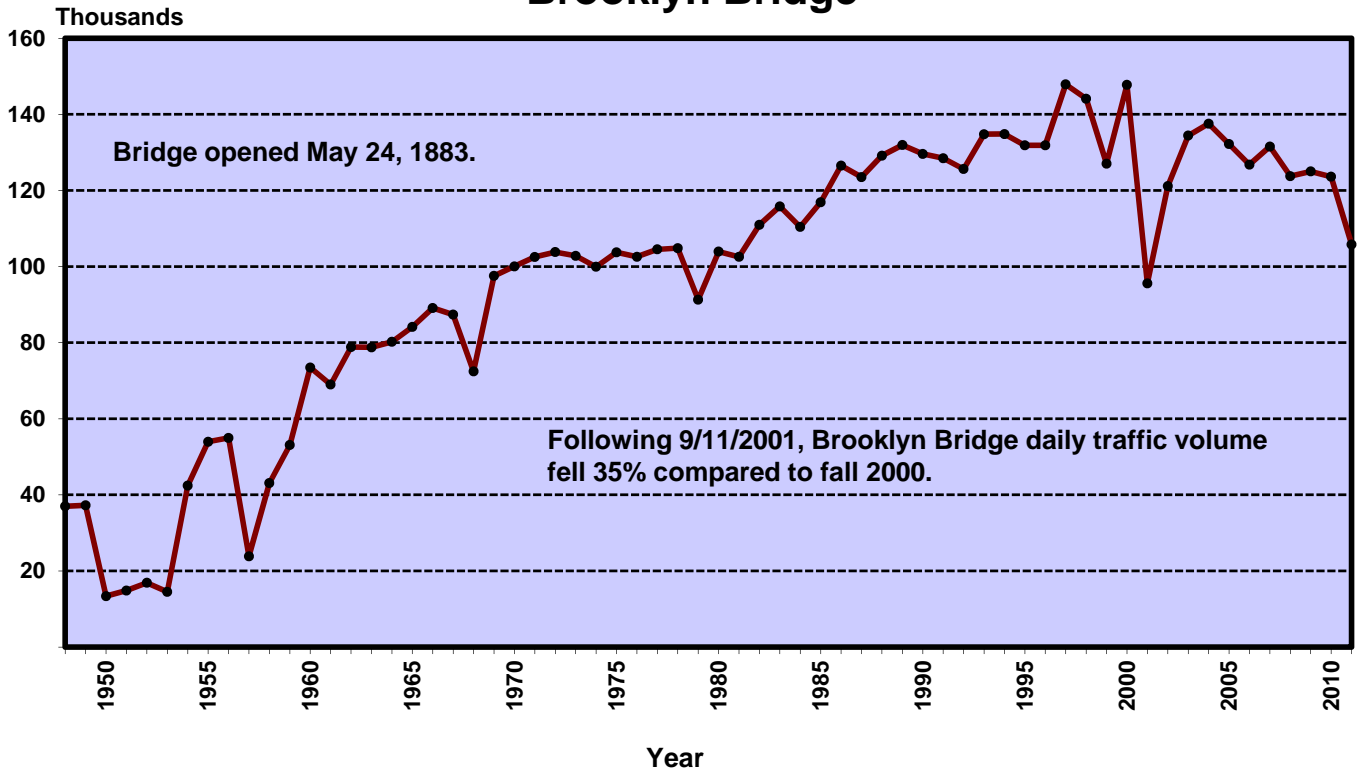
Based on March 2006 Classification Survey Data \*\* Peak Volumes

## Hourly Vehicular Volumes Brooklyn Bridge ~ 2011



Note: Bridge closed overnight Manhattan-bound during 2011.

## Average Daily Traffic Volumes ~ Total of Both Directions Brooklyn Bridge



## Hourly Vehicular Volumes Ed Koch Queensboro Bridge - 2011

### Eastbound to Queens

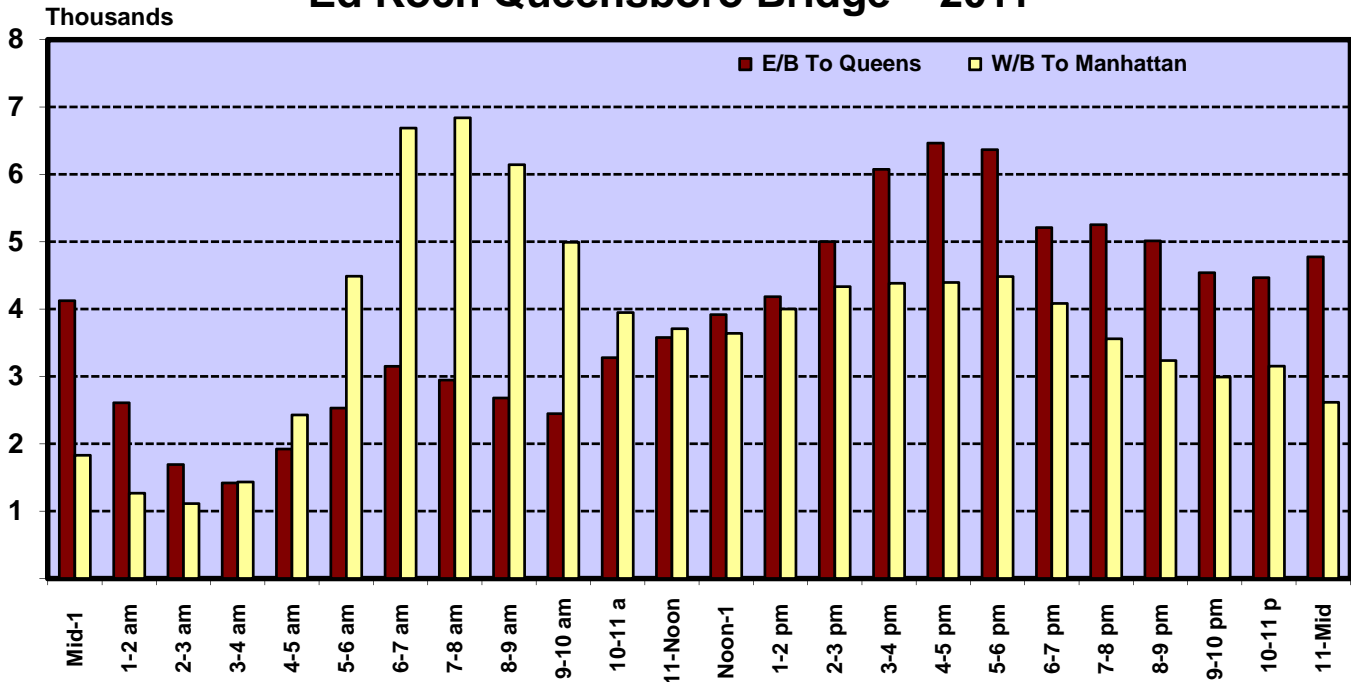
### Westbound to Manhattan

FHWA Classes ▲	Commuter Vans							Total Vehicles	Commuter Vans							Total Vehicles
	Autos & Motorcycles			Commercial Vans			Single Unit Trucks		Autos & Motorcycles			Commercial Vans			Single Unit Trucks	
	1 & 2	3	4	1 & 2	3	4			1 & 2	3	4	5 - 7	8 - 13			
12-1am	4,022	50	15	38	0	4,125	1,790	17	12	10	1	1,830				
1-2am	2,560	20	9	19	1	2,609	1,231	15	6	13	1	1,266				
2-3am	1,652	10	4	25	1	1,692	1,059	11	5	37	0	1,112				
3-4am	1,370	8	3	37	0	1,418	1,347	8	12	65	1	1,433				
4-5am	1,837	17	12	56	0	1,922	2,248	28	19	134	0	2,429				
5-6am	2,383	38	16	92	1	2,530	4,170	54	27	214	23	4,488				
6-7am	2,920	32	24	174	1	3,151	6,317	83	40	232	15	6,687				
7-8am	2,666	49	27	201	4	2,947	6,413	73	53	270	30	6,839				
8-9am	2,389	48	36	201	6	2,680	5,727	77	67	250	24	6,145				
9-10am	2,170	38	34	201	5	2,448	4,622	76	53	207	33	4,991				
10-11am	2,889	60	56	264	10	3,279	3,609	66	33	210	31	3,949				
11-12am	3,233	53	43	246	4	3,579	3,407	56	26	185	36	3,710				
12-1pm	3,523	70	44	275	6	3,918	3,348	38	37	182	34	3,639				
1-2pm	3,759	85	48	288	5	4,185	3,738	52	36	137	39	4,002				
2-3pm	4,575	91	58	269	7	5,000	4,055	69	42	132	35	4,333				
3-4pm	5,630	92	63	284	7	6,076	4,131	51	41	139	21	4,383				
4-5pm	6,054	95	47	261	7	6,464	4,191	50	32	109	13	4,395				
5-6pm	5,980	81	50	246	10	6,367	4,324	37	33	69	21	4,484				
6-7pm	4,914	64	50	177	6	5,211	3,974	31	24	43	13	4,085				
7-8pm	4,942	81	62	158	9	5,252	3,465	24	26	33	11	3,559				
8-9pm	4,720	85	70	134	4	5,013	3,148	29	20	30	8	3,235				
9-10pm	4,311	64	51	111	3	4,540	2,916	25	14	32	4	2,991				
10-11pm	4,257	56	47	107	0	4,467	3,084	23	19	27	0	3,153				
11-12pm	4,635	57	30	52	1	4,775	2,562	15	15	22	1	2,615				
<b>Totals</b>	<b>87,391</b>	<b>1,344</b>	<b>899</b>	<b>3,916</b>	<b>98</b>	<b>93,648</b>	<b>84,876</b>	<b>1,008</b>	<b>692</b>	<b>2,782</b>	<b>395</b>	<b>89,753</b>				
7-10am	7,225	135	97	603	15	8,075	16,762	226	173	727	87	17,975				
10am-1pm	9,645	183	143	785	20	10,776	10,364	160	96	577	101	11,298				
1-4pm	13,964	268	169	841	19	15,261	11,924	172	119	408	95	12,718				
4-7pm	16,948	240	147	684	23	18,042	12,489	118	89	221	47	12,964				
7am-7pm	47,782	826	556	2,913	77	52,154	51,539	676	477	1,933	330	54,955				
6-10am	10,145	167	121	777	16	11,226	23,079	309	213	959	102	24,662				
3-7pm	22,578	332	210	968	30	24,118	16,620	169	130	360	68	17,347				
6am-7pm	50,702	858	580	3,087	78	55,305	57,856	759	517	2,165	345	61,642				

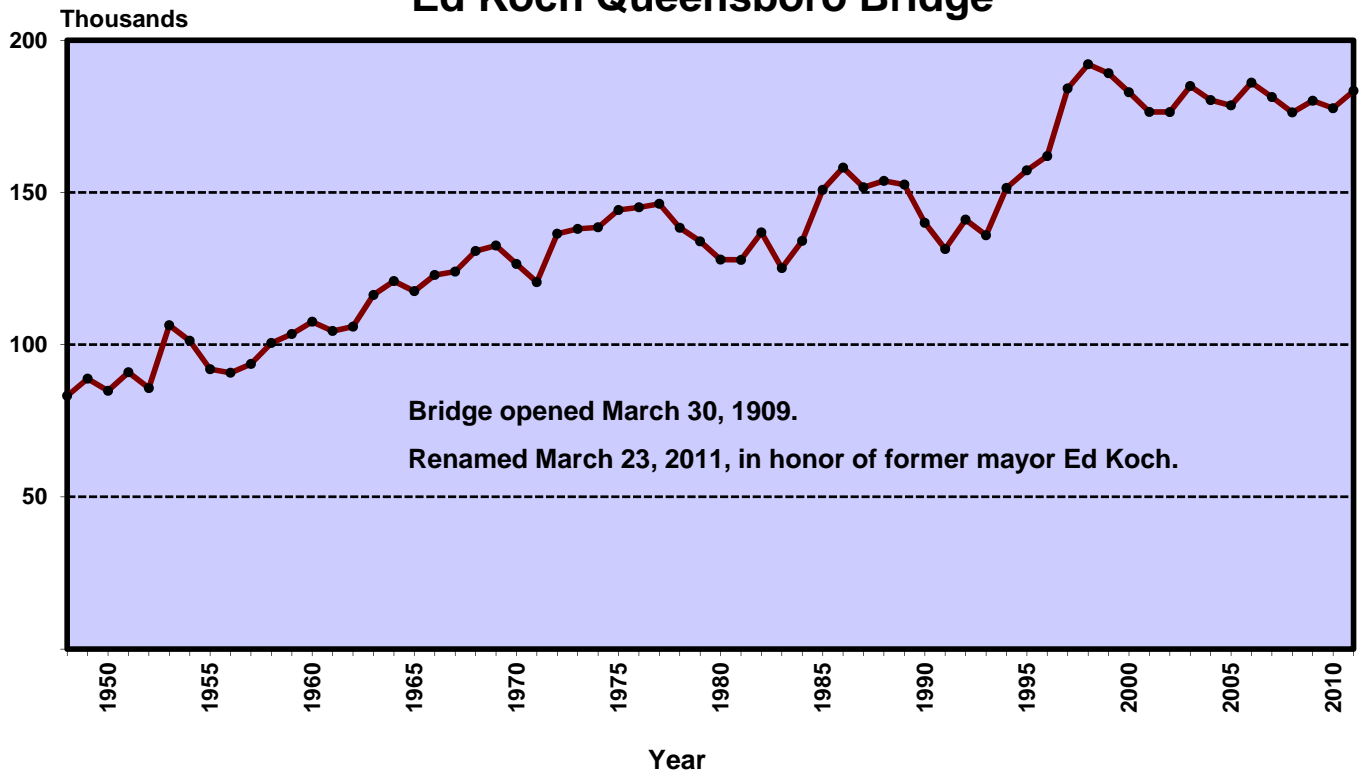
Based on April 2006 Classification Survey Data.

\*\* Peak Volumes

## Hourly Vehicular Volumes Ed Koch Queensboro Bridge ~ 2011



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



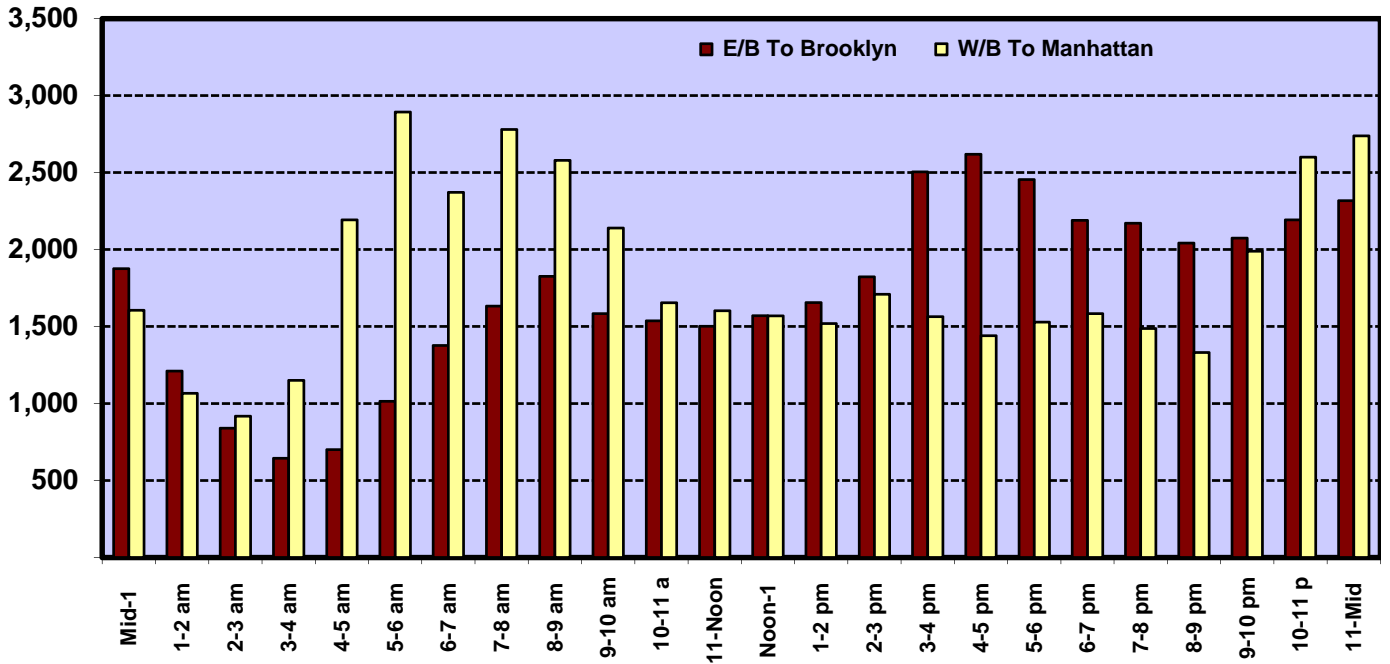
## Hourly Vehicular Volumes Manhattan Bridge - 2011

FHWA Classes ▲	Eastbound to Brooklyn							Westbound to Manhattan							2-Way Grand Totals
	Commuter Vans			Commercial Vans				Commuter Vans			Commercial Vans				
	Autos & Motorcycles	Large SUVs	Pickups	Buses	Single Unit Trucks	Tractor Trailers	Total Vehicles	Autos & Motorcycles	Large SUVs	Pickups	Buses	Single Unit Trucks	Tractor Trailers	Total Vehicles	
1 & 2	3	4	5-7	8-13	1 & 2	3	4	5-7	8-13	1 & 2	3	4	5-7	8-13	
12-1am	1,807	35	12	19	3	1,876	1,590	11	1	4	0	1,606			
1-2am	1,176	23	4	7	1	1,211	1,054	10	1	2	0	1,067			
2-3am	809	19	4	6	2	840	907	5	1	5	0	918			
3-4am	614	17	4	6	4	645	1,134	8	3	5	1	1,151			
4-5am	681	9	3	7	1	701	1,948	41	6	190	8	2,193			
5-6am	977	8	9	20	1	1,015	2,438	46	55	302	53	2,894			
6-7am	1,225	31	35	77	9	1,377	1,871	59	70	326	46	2,372			
7-8am	1,378	47	54	145	9	1,633	2,225	58	70	408	19	2,780			
8-9am	1,540	35	60	177	14	1,826	2,131	44	50	337	18	2,580			
9-10am	1,280	35	62	195	12	1,584	1,694	42	40	342	22	2,140			
10-11am	1,258	23	53	190	13	1,537	1,261	34	35	300	25	1,655			
11-12am	1,218	33	51	187	13	1,502	1,222	40	29	297	15	1,603			
12-1pm	1,224	41	53	240	13	1,571	1,150	42	36	327	15	1,570			
1-2pm	1,298	45	57	245	11	1,656	1,085	38	44	339	14	1,520			
2-3pm	1,508	34	54	212	15	1,823	1,465	25	33	180	7	1,710			
3-4pm	2,132	54	105	207	7	2,505	1,357	28	32	136	11	1,564			
4-5pm	2,370	57	69	115	8	2,619	1,231	27	32	144	7	1,441			
5-6pm	2,261	44	62	79	9	2,455	1,335	26	42	123	3	1,529			
6-7pm	2,044	30	54	57	5	2,190	1,406	13	58	104	3	1,584			
7-8pm	2,029	27	59	49	7	2,171	1,346	20	42	80	0	1,488			
8-9pm	1,938	22	39	40	3	2,042	1,228	13	21	68	2	1,332			
9-10pm	1,967	33	35	35	5	2,075	1,945	7	10	28	0	1,990			
10-11pm	2,108	28	26	28	3	2,193	2,561	9	6	25	0	2,601			
11-12pm	2,250	22	19	24	3	2,318	2,711	5	4	18	1	2,739			
<b>Totals</b>	<b>37,092</b>	<b>752</b>	<b>983</b>	<b>2,367</b>	<b>171</b>	<b>41,365</b>	<b>38,295</b>	<b>651</b>	<b>721</b>	<b>4,090</b>	<b>270</b>	<b>44,027</b>			
7-10am	4,198	117	176	517	35	5,043	6,050	144	160	1,087	59	7,500			
10am-1pm	3,700	97	157	617	39	4,610	3,633	116	100	924	55	4,828			
1-4pm	4,938	133	216	664	33	5,984	3,907	91	109	655	32	4,794			
4-7pm	6,675	131	185	251	22	7,264	3,972	66	132	371	13	4,554			
7am-7pm	19,511	478	734	2,049	129	22,901	17,562	417	501	3,037	159	21,676			
6-10am	5,423	148	211	594	44	6,420	7,921	203	230	1,413	105	9,872			
3-7pm	8,807	185	290	458	29	9,769	5,329	94	164	507	24	6,118			
6am-7pm	20,736	509	769	2,126	138	24,278	19,433	476	571	3,363	205	24,048			

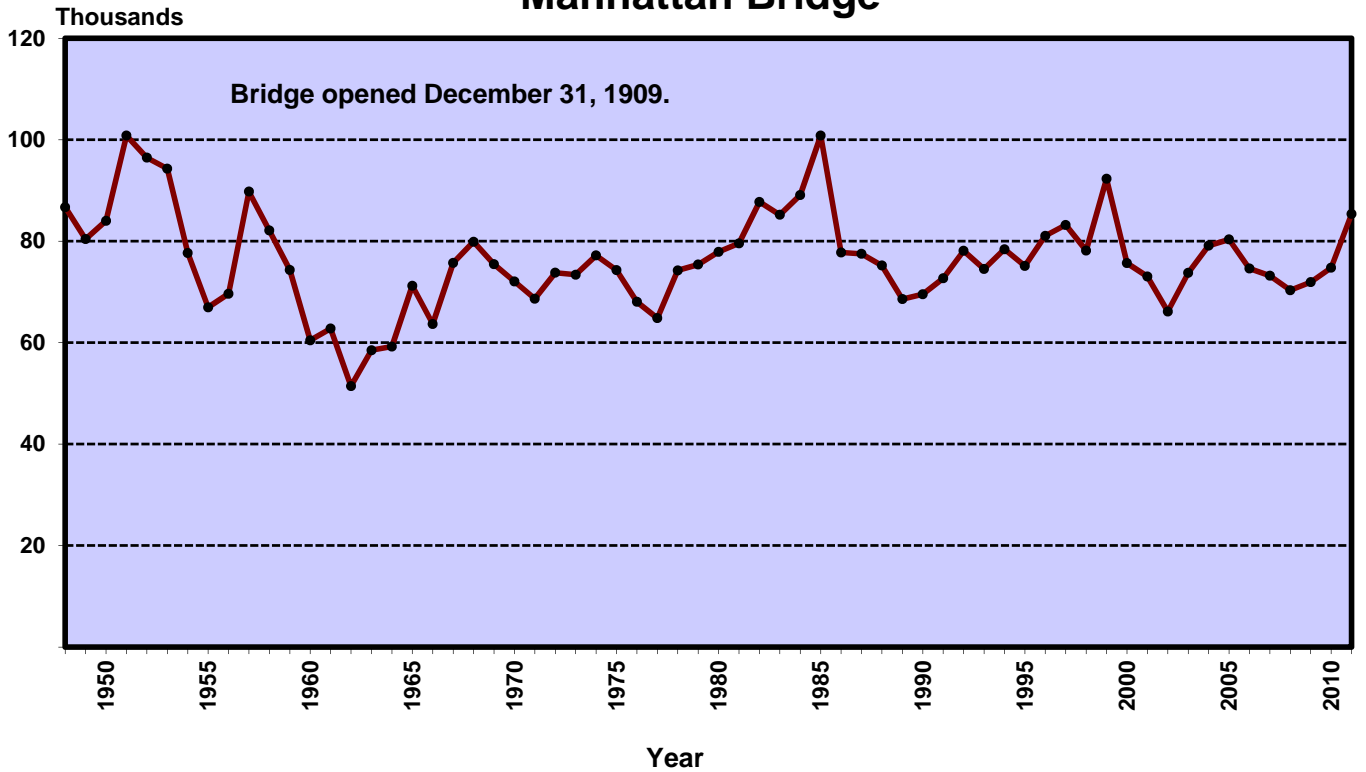
Based on April 2006 Classification Survey Data.

\*\* Peak Volumes

## Hourly Vehicular Volumes Manhattan Bridge ~ 2011



## Average Daily Traffic Volumes ~ Total of Both Directions Manhattan Bridge



## Hourly Vehicular Volumes Williamsburg Bridge - 2011

### Eastbound to Brooklyn

### Westbound to Manhattan

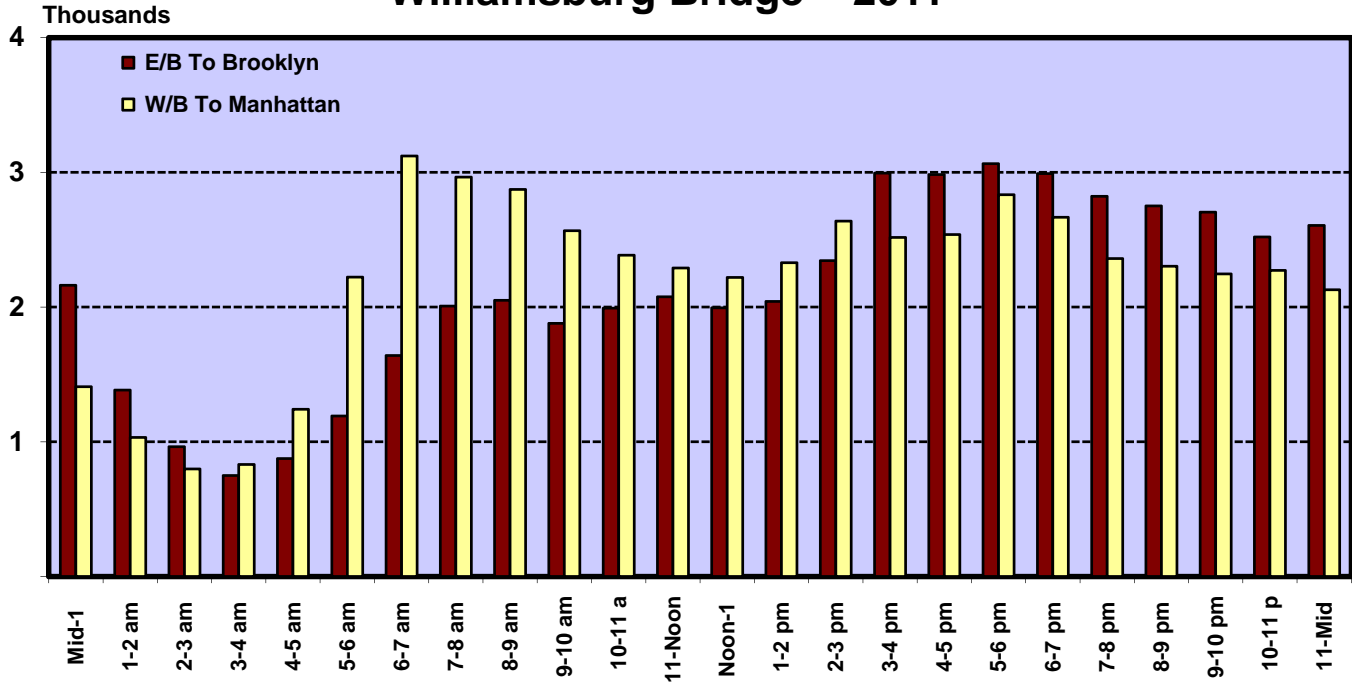
FHWA Classes ▲	Commuter Vans						Commuter Vans						Total Vehicles	Tractor Trailers	8 - 13	Total Vehicles	2-Way Grand Totals
	Commercial Vans			Autos & Motorcycles			Commercial Vans			Autos & Motorcycles							
	Large SUVs	Pickups	Single Unit Trucks	Buses	4	5 - 7	8 - 13	Large SUVs	Pickups	Single Unit Trucks	Buses	4					
12-1am	2,152	7	1	1	2	0	2,162	1,404	4	1	0	0	0	0	1,409	3,571	
1-2am	1,379	3	1	1	0	1	1,384	1,028	3	1	1	0	0	0	1,033	2,417	
2-3am	952	5	3	3	2	1	963	790	6	1	2	0	0	0	799	1,762	
3-4am	735	7	3	3	3	2	750	826	4	0	1	1	1	1	832	1,582	
4-5am	863	7	3	3	3	0	876	1,232	6	1	1	1	1	1	1,241	2,117	
5-6am	1,171	6	9	9	6	0	1,192	2,207	6	7	1	2	2	2	2,223	3,415	
6-7am	1,578	12	27	27	22	2	1,641	3,086	14	15	7	0	0	0	3,122	4,763	
7-8am	1,901	22	48	48	36	1	2,008	2,915	24	15	11	0	0	0	2,965	4,973	
8-9am	1,950	22	44	44	31	3	2,050	2,815	28	17	13	1	1	1	2,874	4,924	
9-10am	1,775	27	44	44	31	2	1,879	2,519	21	15	10	2	2	2	2,567	4,446	
10-11am	1,848	38	64	64	41	1	1,992	2,335	26	14	7	3	3	3	2,385	4,377	
11-12am	1,939	33	58	58	44	2	2,076	2,245	23	14	7	1	1	1	2,290	4,366	
12-1pm	1,867	51	23	23	51	2	1,994	2,163	28	14	14	1	1	1	2,220	4,214	
1-2pm	1,910	58	26	26	45	3	2,042	2,270	28	17	14	1	1	1	2,330	4,372	
2-3pm	2,216	51	34	34	41	3	2,345	2,578	29	14	15	2	2	2	2,638	4,983	
3-4pm	2,839	64	37	37	52	3	2,995	2,450	26	19	20	2	2	2	2,517	5,512	
4-5pm	2,845	56	34	34	44	5	2,984	2,467	35	18	18	1	1	1	2,539	5,523	
5-6pm	2,944	56	33	33	31	1	3,065	2,751	40	24	24	1	1	1	2,834	5,899	
6-7pm	2,904	38	24	24	23	2	2,991	2,601	32	16	16	2	2	2	2,667	5,658	
7-8pm	2,749	29	24	24	19	1	2,822	2,311	24	14	11	0	0	0	2,360	5,182	
8-9pm	2,693	24	19	19	13	2	2,751	2,282	13	5	4	0	0	0	2,304	5,055	
9-10pm	2,672	14	12	12	5	2	2,705	2,225	13	4	3	1	1	1	2,246	4,951	
10-11pm	2,500	11	4	4	4	2	2,521	2,253	13	2	3	1	1	1	2,272	4,793	
11-12pm	2,594	7	2	2	3	0	2,606	2,117	8	2	2	0	0	0	2,129	4,735	
Totals	48,976	648	577	577	552	41	50,794	51,870	454	250	199	23	23	23	52,796	103,590	
7-10am	5,626	71	136	136	98	6	5,937	8,249	73	47	34	3	3	3	8,406	14,343	
10am-1pm	5,654	122	145	145	136	5	6,062	6,743	77	42	28	5	5	5	6,895	12,957	
1-4pm	6,965	173	97	97	138	9	7,382	7,298	83	50	49	5	5	5	7,485	14,867	
4-7pm	8,693	150	91	91	98	8	9,040	7,819	107	58	52	4	4	4	8,040	17,080	
7am-7pm	26,938	516	469	469	470	28	28,421	30,109	340	197	163	17	17	17	30,826	59,247	
6-10am	7,204	83	163	163	120	8	7,578	11,335	87	62	41	3	3	3	11,528	19,106	
3-7pm	11,532	214	128	128	150	11	12,035	10,269	133	77	72	6	6	6	10,557	22,592	
6am-7pm	28,516	528	496	496	492	30	30,062	33,195	354	212	170	17	17	17	33,948	64,010	

Based on March 2006 Classification Survey Data.

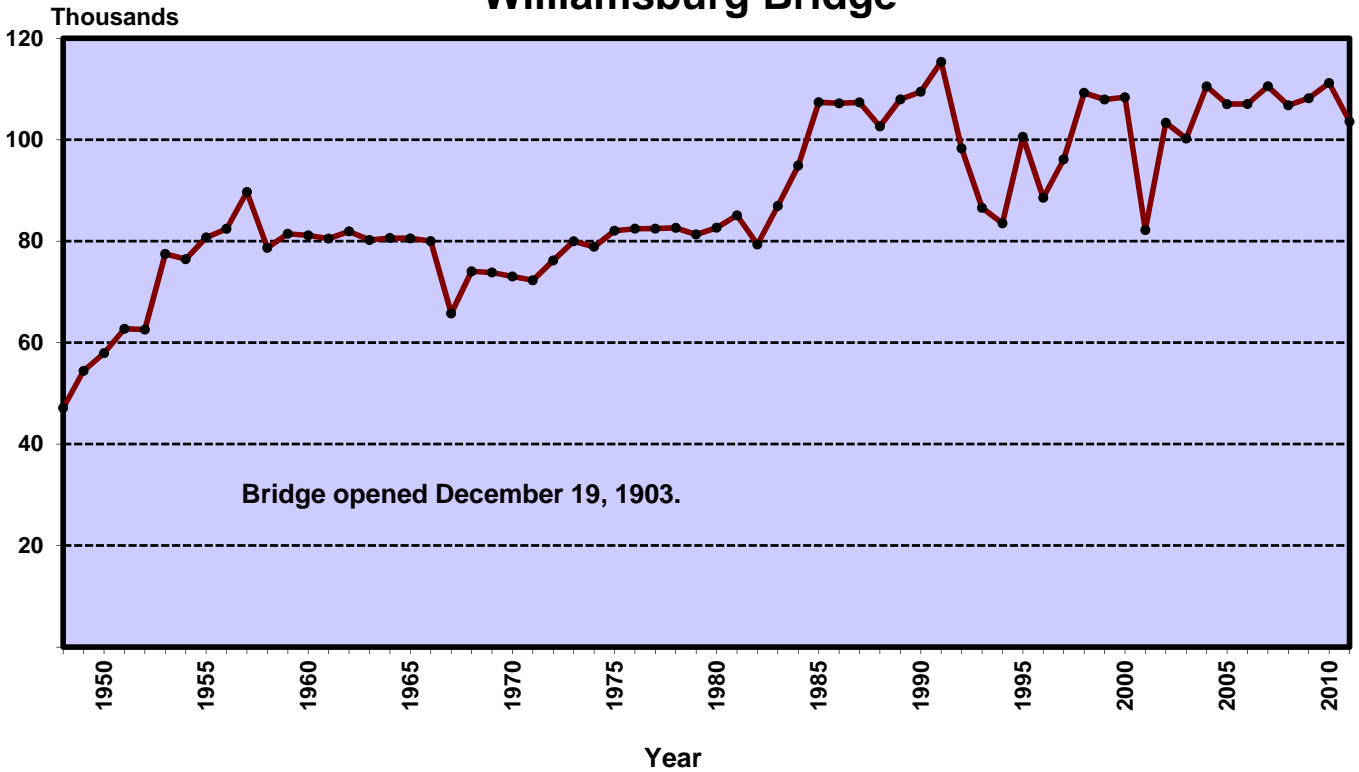
\*\* Peak Volumes



## Hourly Vehicular Volumes Williamsburg Bridge ~ 2011



## Average Daily Traffic Volumes ~ Total of Both Directions Williamsburg Bridge





# Harlem River Bridges

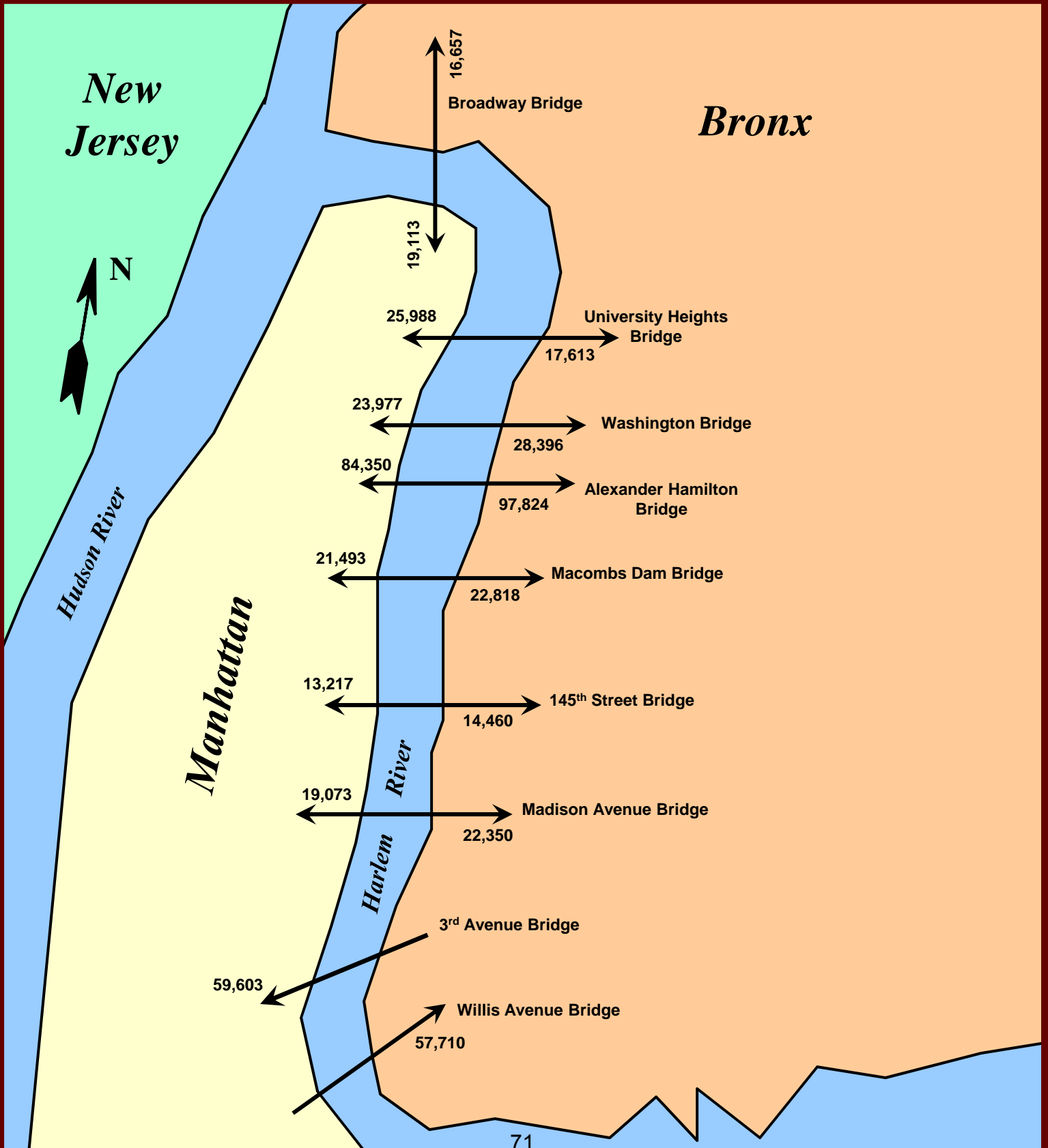


University Heights Bridge



# Harlem River Bridges

## 2011 Daily Volumes



**Harlem River Bridges**  
**Average Daily Traffic Volumes**  
**1948 - 2011**

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

**Harlem River Bridges (cont'd)**  
**Average Daily Traffic Volumes**  
**1948 - 2011**

<i>Year</i>	<i>University Heights</i>	<i>Washington</i>	<i>Willis Avenue</i>	<i>145th Street</i>	<i>Totals</i>
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	25,270	28,599	35,958	26,872	249,199
1952	21,527	28,270	33,207	24,189	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	36,763	54,008	59,050	30,868	345,199
1961	43,749	61,542	50,902	33,767	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	29,941	19,136	60,192	24,200	412,992
1970	26,718	33,661	61,433	23,580	429,690
1971	29,622	38,522	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	35,883	37,690	54,335	21,484	450,758
1979	31,796	37,348	44,851	21,566	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	36,192	54,935	66,824	26,181	546,896
1987	37,223	46,094	67,558	24,895	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	38,134	57,009	67,344	23,299	526,044
1995	21,238	56,372	67,716	25,749	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	44,938	58,019	66,708	25,802	561,392
2006	42,118	57,689	66,212	21,733	557,043
2007	41,422	56,945	65,113	21,147	557,925
2008	39,340	52,768	62,167	23,148	539,434
2009	39,165	52,420	58,548	24,364	543,736
2010	39,230	52,014	56,934	28,749	549,574
2011	43,601	52,373	57,710	27,677	544,642

### Hourly Vehicular Volumes Alexander Hamilton Bridge - 2011

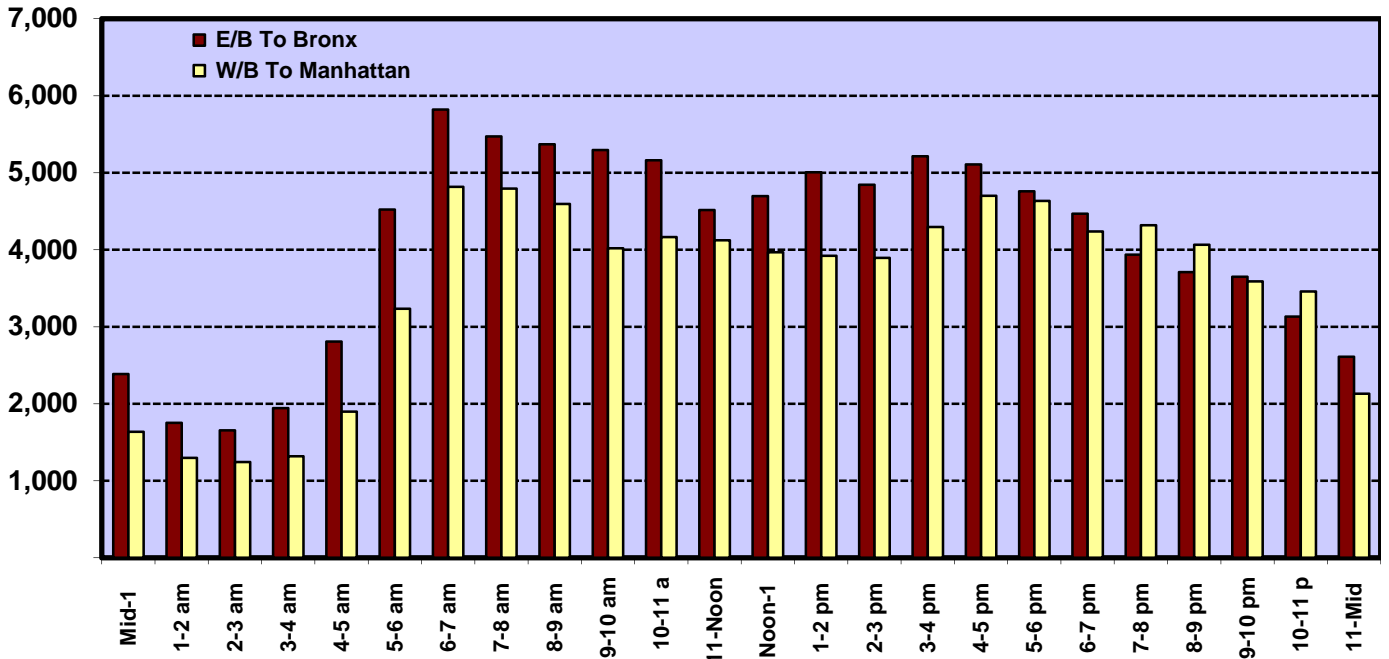
	Eastbound to Bronx					Westbound to Manhattan					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	2,386	---	---	---	---	---	1,637
1-2am	---	---	---	---	---	1,752	---	---	---	---	---	1,297
2-3am	---	---	---	---	---	1,655	---	---	---	---	---	1,243
3-4am	---	---	---	---	---	1,943	---	---	---	---	---	1,319
4-5am	---	---	---	---	---	2,807	---	---	---	---	---	1,898
5-6am	---	---	---	---	---	4,521	---	---	---	---	---	3,233
6-7am	---	---	---	---	---	5,820 **	---	---	---	---	---	4,816 **
7-8am	4,270	14	247	816	124	5,471	4,056	9	86	431	213	4,795
8-9am	3,902	5	255	980	228	5,370	3,929	32	32	456	145	4,594
9-10am	3,706	5	237	1,214	133	5,295	3,091	44	26	678	180	4,019
10-11am	4,635	3	110	362	52	5,162	3,603	25	16	389	131	4,164
11-12am	3,384	10	243	753	125	4,515	2,921	13	19	911	259	4,123
12-1pm	4,072	0	115	459	50	4,696	3,362	9	8	469	119	3,967
1-2pm	3,816	8	182	910	91	5,007	2,930	10	21	762	199	3,922
2-3pm	3,749	6	200	778	110	4,843	2,908	16	36	779	156	3,895
3-4pm	4,646	8	94	363	102	5,213	3,741	20	15	440	80	4,296
4-5pm	4,283	6	161	535	123	5,108	3,545	4	41	894	216	4,700
5-6pm	4,149	5	117	390	97	4,758	3,633	2	30	810	159	4,634
6-7pm	3,755	9	197	430	76	4,467	3,645	2	21	442	127	4,237
7-8pm	---	---	---	---	---	3,935	---	---	---	---	---	4,318
8-9pm	---	---	---	---	---	3,709	---	---	---	---	---	4,065
9-10pm	---	---	---	---	---	3,649	---	---	---	---	---	3,589
10-11pm	---	---	---	---	---	3,132	---	---	---	---	---	3,458
11-12pm	---	---	---	---	---	2,610	---	---	---	---	---	2,131
Totals	---	---	---	---	---	97,824	---	---	---	---	---	84,350
7-10am	11,878	24	739	3,010	485	16,136	11,076	85	144	1,565	538	13,408
10am-1pm	12,091	13	468	1,574	227	14,373	9,886	47	43	1,769	509	12,254
1-4pm	12,211	22	476	2,051	303	15,063	9,579	46	72	1,981	435	12,113
4-7pm	12,187	20	475	1,355	296	14,333	10,823	8	92	2,146	502	13,571
7am-7pm	48,367	79	2,158	7,990	1,311	59,905	41,364	186	351	7,461	1,984	51,346
6-10am	---	---	---	---	---	21,956	---	---	---	---	---	18,224
3-7pm	16,833	28	569	1,718	398	19,546	14,564	28	107	2,586	582	17,867
6am-7pm	---	---	---	---	---	65,725	---	---	---	---	---	56,162

Based on 1989 Classification Survey Data

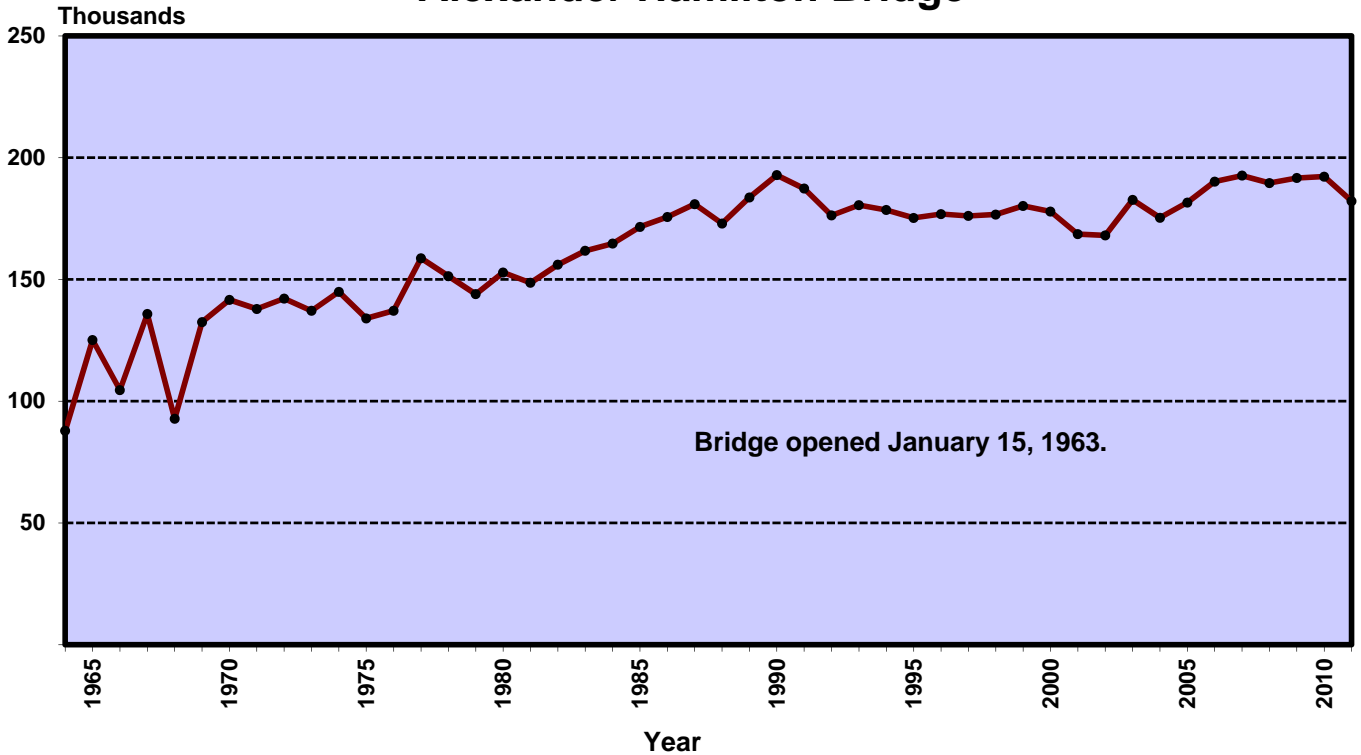
\*\* Peak Volumes



## Hourly Vehicular Volumes Alexander Hamilton Bridge ~ 2011



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



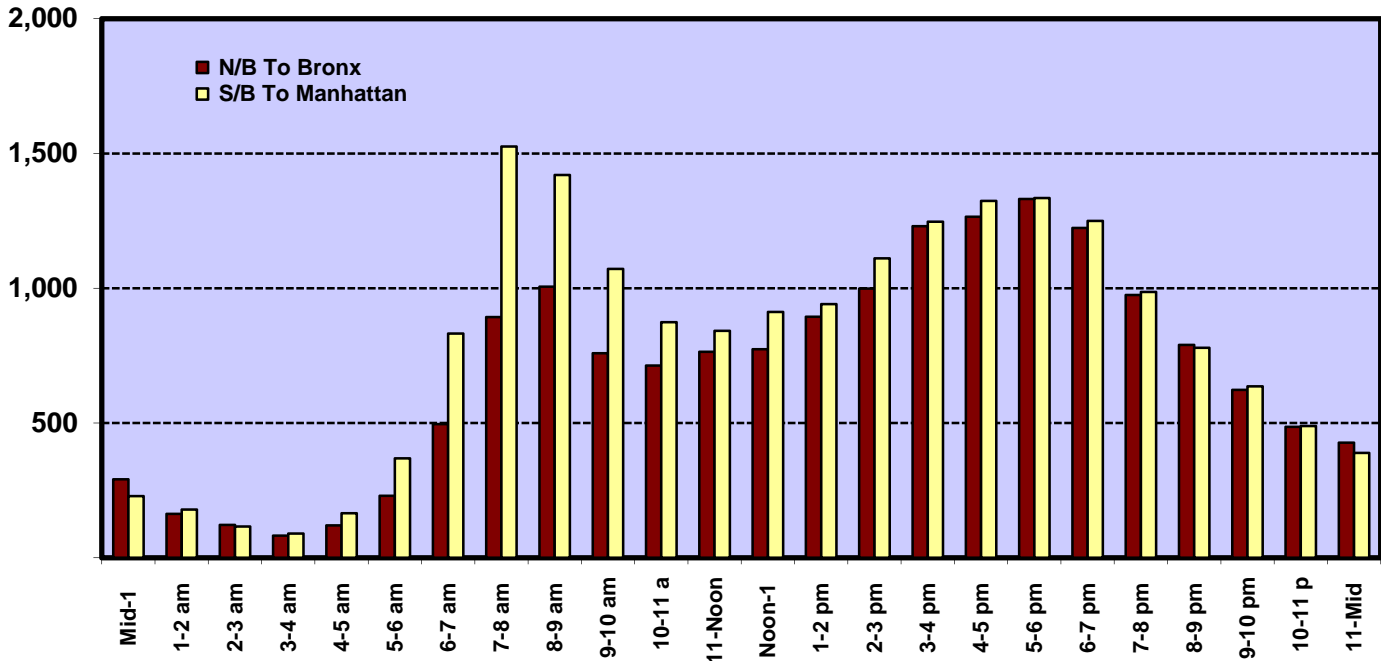
## Hourly Vehicular Volumes Broadway Bridge - 2011

	Northbound to Bronx					Southbound to Manhattan					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	291	---	---	---	---	---	229
1-2am	---	---	---	---	---	163	---	---	---	---	---	179
2-3am	---	---	---	---	---	122	---	---	---	---	---	116
3-4am	---	---	---	---	---	82	---	---	---	---	---	90
4-5am	---	---	---	---	---	120	---	---	---	---	---	165
5-6am	---	---	---	---	---	230	---	---	---	---	---	369
6-7am	---	---	---	---	---	496	---	---	---	---	---	832
7-8am	728	40	22	73	30	893	1,346	62	42	31	45	1,526 **
8-9am	856	62	22	37	29	1,006	1,261	43	29	44	43	1,420
9-10am	650	22	3	26	58	759	916	35	26	54	41	1,072
10-11am	640	16	2	33	22	713	795	21	12	37	9	874
11-12am	668	20	8	27	41	764	697	23	23	49	50	842
12-1pm	707	20	5	20	22	774	857	22	4	18	11	912
1-2pm	809	25	3	28	29	894	872	24	9	20	16	941
2-3pm	863	25	1	36	74	999	1,003	31	24	35	18	1,111
3-4pm	1,139	28	10	15	38	1,230	1,170	33	14	19	11	1,247
4-5pm	1,120	39	27	24	55	1,265	1,197	32	22	37	36	1,324
5-6pm	1,219	28	8	12	64	1,331 **	1,228	31	32	19	25	1,335
6-7pm	1,085	21	0	12	106	1,224	1,162	31	28	20	9	1,250
7-8pm	---	---	---	---	---	975	---	---	---	---	---	986
8-9pm	---	---	---	---	---	790	---	---	---	---	---	779
9-10pm	---	---	---	---	---	623	---	---	---	---	---	636
10-11pm	---	---	---	---	---	486	---	---	---	---	---	489
11-12pm	---	---	---	---	---	427	---	---	---	---	---	389
Totals	---	---	---	---	---	16,657	---	---	---	---	---	19,113
7-10am	2,234	124	47	136	117	2,658	3,523	140	97	129	129	4,018
10am-1pm	2,015	56	15	80	85	2,251	2,349	66	39	104	70	2,628
1-4pm	2,811	78	14	79	141	3,123	3,045	88	47	74	45	3,299
4-7pm	3,424	88	35	48	225	3,820	3,587	94	82	76	70	3,909
7am-7pm	10,484	346	111	343	568	11,852	12,504	388	265	383	314	13,854
6-10am	---	---	---	---	---	3,154	---	---	---	---	---	4,850
3-7pm	4,563	116	45	63	263	5,050	4,757	127	96	95	81	5,156
6am-7pm	---	---	---	---	---	12,348	---	---	---	---	---	14,686

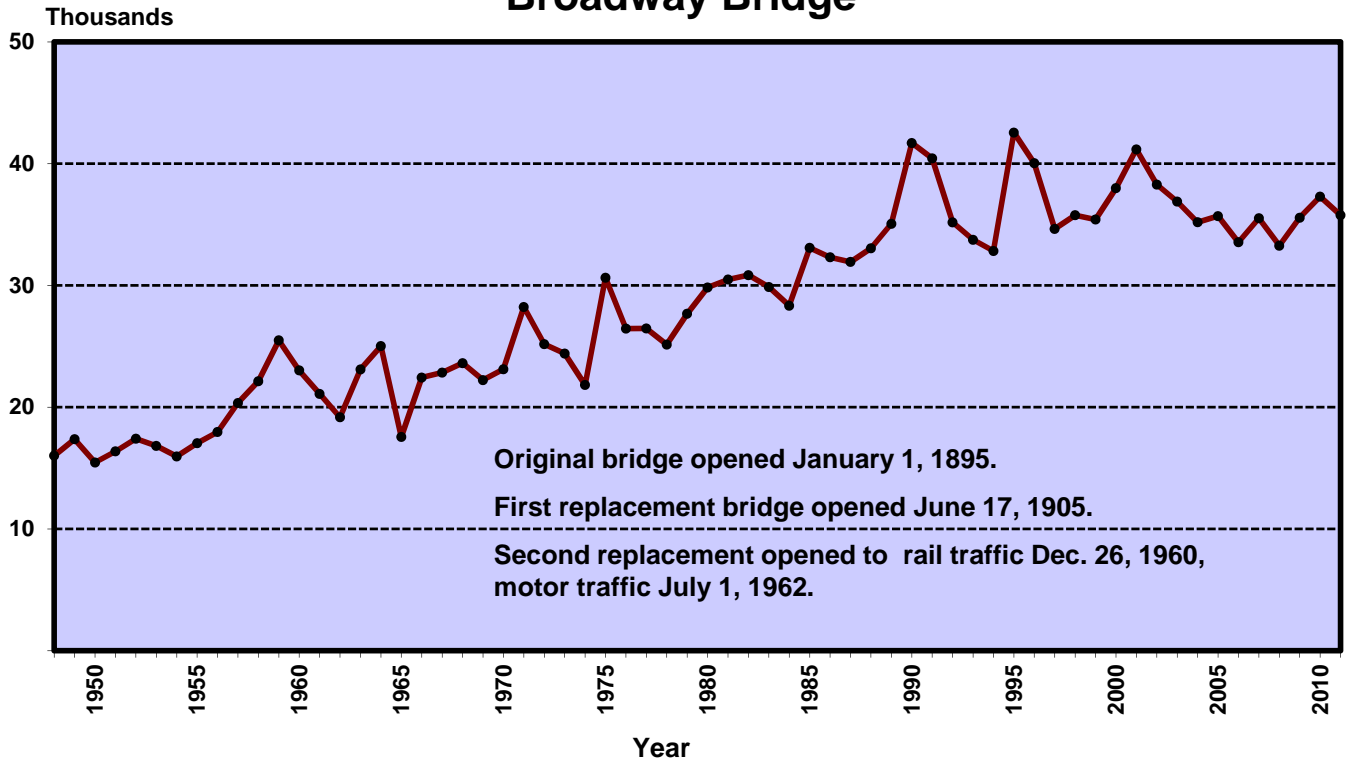
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Broadway Bridge ~ 2011



## Average Daily Traffic Volumes ~ Total of Both Directions Broadway Bridge



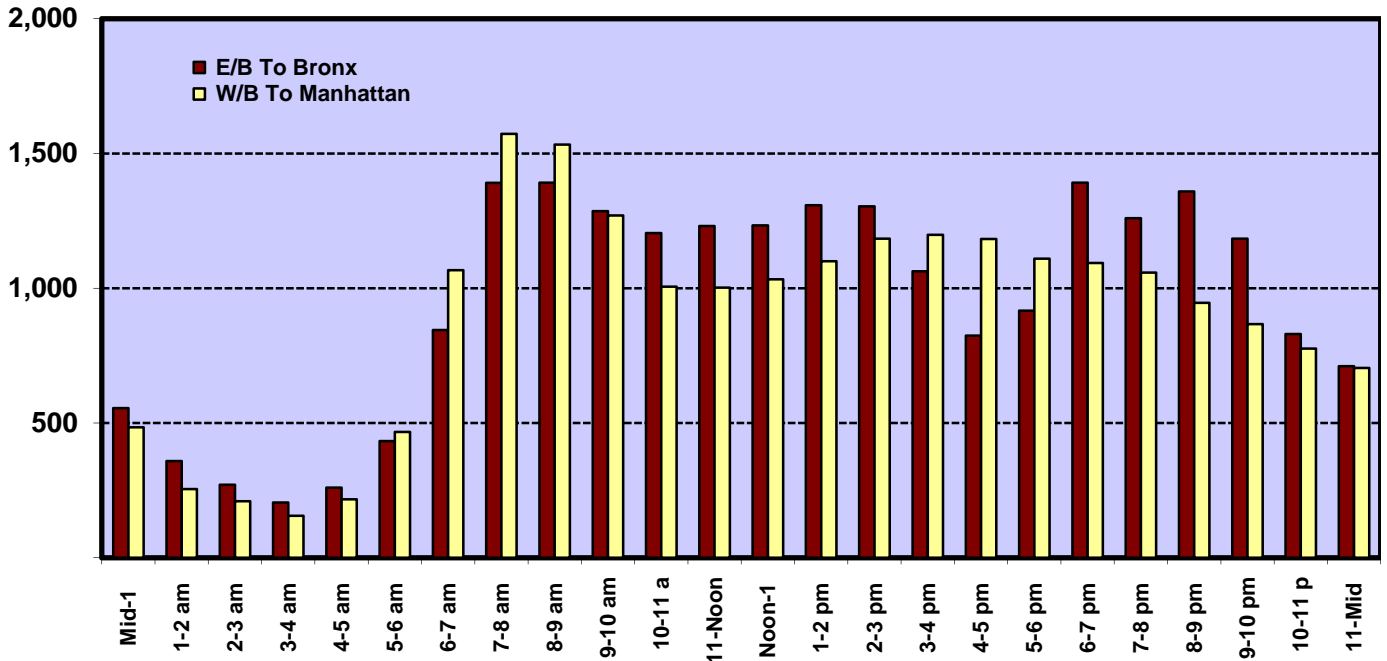
## Hourly Vehicular Volumes Macombs Dam Bridge - 2011

	Eastbound to Bronx					Westbound to Manhattan					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	555	---	---	---	---	---	484
1-2am	---	---	---	---	---	359	---	---	---	---	---	255
2-3am	---	---	---	---	---	271	---	---	---	---	---	210
3-4am	---	---	---	---	---	205	---	---	---	---	---	156
4-5am	---	---	---	---	---	260	---	---	---	---	---	217
5-6am	---	---	---	---	---	433	---	---	---	---	---	467
6-7am	---	---	---	---	---	845	---	---	---	---	---	1,067 **
7-8am	1,141	46	30	70	104	1,391	1,212	39	6	86	230	1,573 **
8-9am	1,164	16	21	71	120	1,392 **	1,246	11	2	98	176	1,533
9-10am	1,101	24	18	69	74	1,286	949	19	13	110	179	1,270
10-11am	1,088	10	4	46	57	1,205	898	8	7	39	54	1,006
11-12am	1,019	13	16	84	99	1,231	827	7	13	73	82	1,002
12-1pm	1,125	13	8	37	50	1,233	953	17	3	19	41	1,033
1-2pm	1,225	3	8	38	34	1,308	975	19	7	21	78	1,100
2-3pm	1,082	17	27	85	93	1,304	1,010	22	15	50	87	1,184
3-4pm	927	19	8	50	59	1,063	1,094	34	9	20	41	1,198
4-5pm	638	6	21	55	104	824	1,038	9	28	38	70	1,183
5-6pm	770	7	11	27	102	917	1,017	11	9	17	56	1,110
6-7pm	1,297	4	8	31	52	1,392 **	980	6	11	22	75	1,094
7-8pm	---	---	---	---	---	1,260	---	---	---	---	---	1,058
8-9pm	---	---	---	---	---	1,359	---	---	---	---	---	946
9-10pm	---	---	---	---	---	1,184	---	---	---	---	---	867
10-11pm	---	---	---	---	---	830	---	---	---	---	---	776
11-12pm	---	---	---	---	---	711	---	---	---	---	---	704
Totals	---	---	---	---	---	22,818	---	---	---	---	---	21,493
7-10am	3,406	86	69	210	298	4,069	3,407	69	21	294	585	4,376
10am-1pm	3,232	36	28	167	206	3,669	2,678	32	23	131	177	3,041
1-4pm	3,234	39	43	173	186	3,675	3,079	75	31	91	206	3,482
4-7pm	2,705	17	40	113	258	3,133	3,035	26	48	77	201	3,387
7am-7pm	12,577	178	180	663	948	14,546	12,199	202	123	593	1,169	14,286
6-10am	---	---	---	---	---	4,914	---	---	---	---	---	5,443
3-7pm	3,632	36	48	163	317	4,196	4,129	60	57	97	242	4,585
6am-7pm	---	---	---	---	---	15,391	---	---	---	---	---	15,353

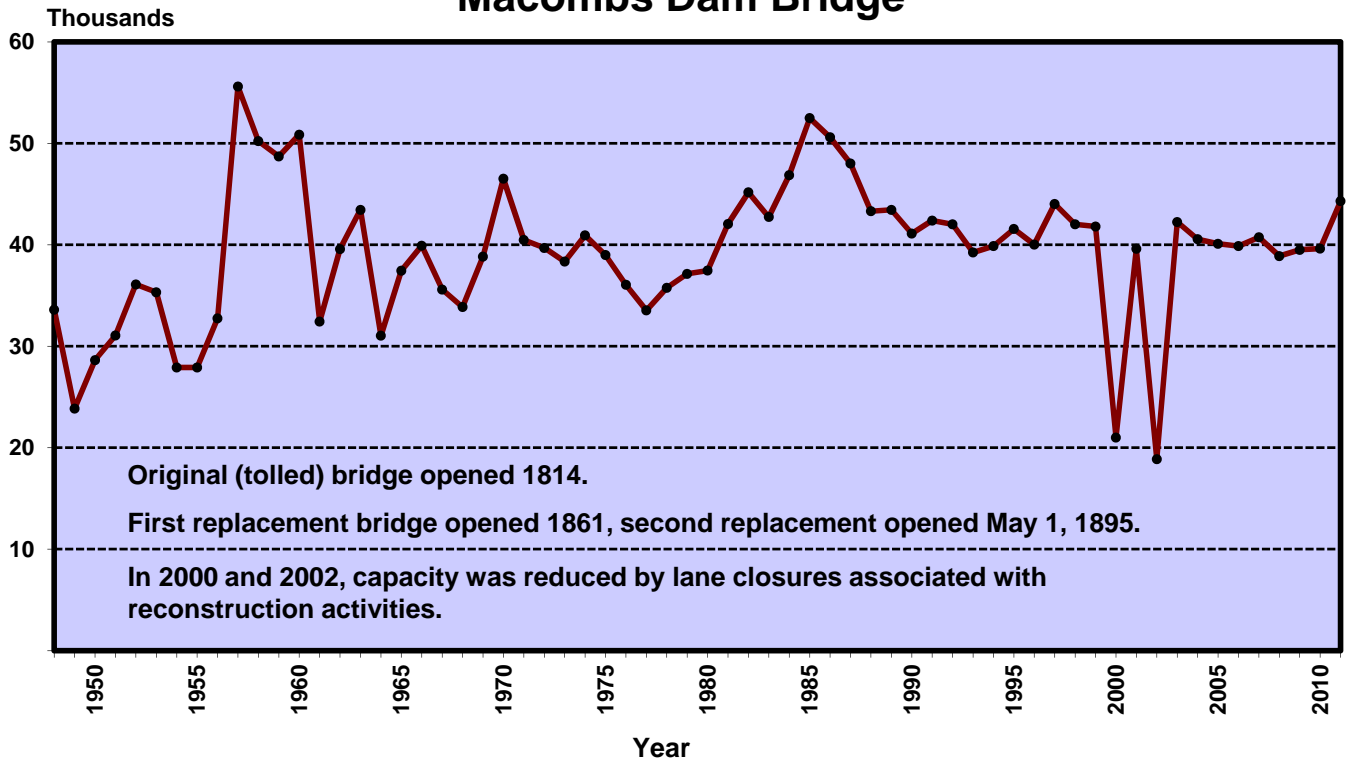
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Macombs Dam Bridge ~ 2011



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



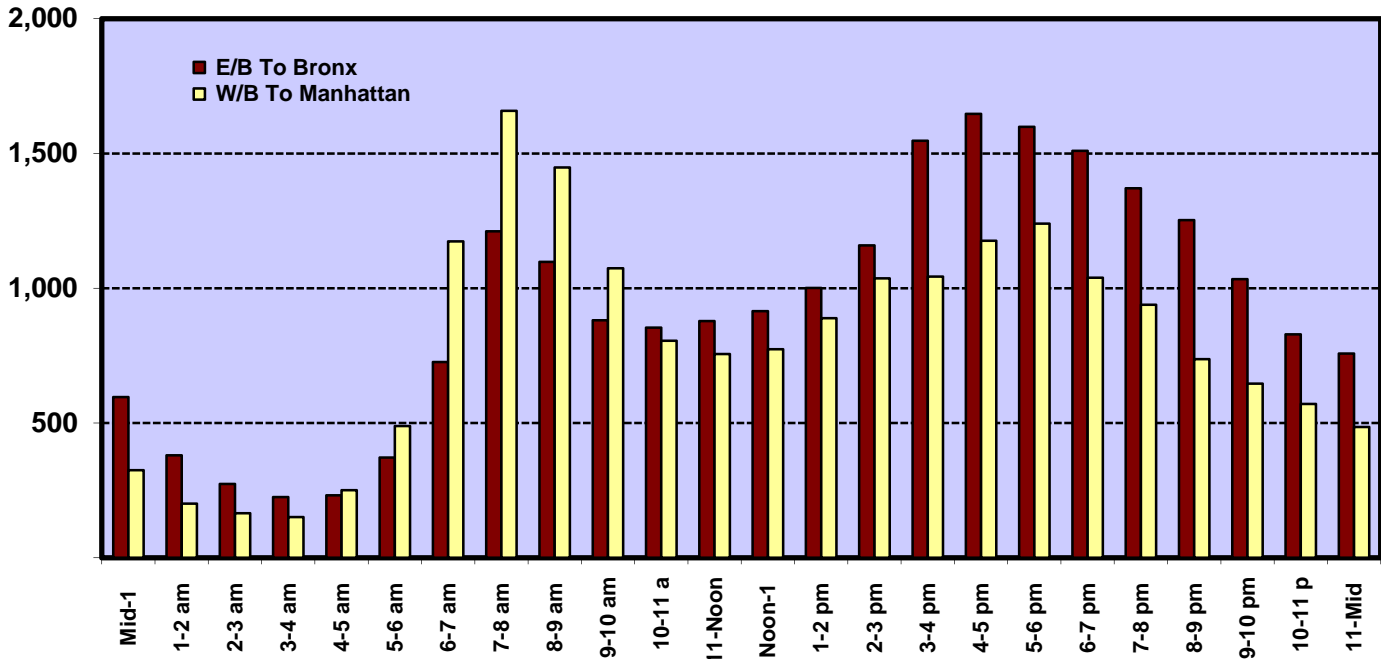
**Hourly Vehicular Volumes  
Madison Avenue Bridge - 2011**

	<b>Eastbound to Bronx</b>					<b>Westbound to Manhattan</b>					<b>2-Way Totals</b>	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	596	---	---	---	---	---	325
1-2am	---	---	---	---	---	380	---	---	---	---	---	201
2-3am	---	---	---	---	---	274	---	---	---	---	---	165
3-4am	---	---	---	---	---	225	---	---	---	---	---	151
4-5am	---	---	---	---	---	232	---	---	---	---	---	251
5-6am	---	---	---	---	---	372	---	---	---	---	---	489
6-7am	---	---	---	---	---	726	---	---	---	---	---	1,174
7-8am	944	47	104	61	55	1,211	1,358	108	15	55	122	1,658
8-9am	860	59	77	45	57	1,098	1,147	95	27	61	118	1,448
9-10am	633	56	82	68	42	881	759	54	30	131	100	1,074
10-11am	709	32	43	31	39	854	655	55	18	18	59	805
11-12am	593	24	77	96	88	878	576	22	29	57	72	756
12-1pm	780	26	31	38	40	915	650	29	22	26	47	774
1-2pm	850	29	32	43	47	1,001	757	51	26	14	41	889
2-3pm	846	32	74	103	104	1,159	827	70	29	31	80	1,037
3-4pm	1,334	27	42	75	69	1,547	898	62	18	24	41	1,043
4-5pm	1,227	31	138	114	137	1,647	1,017	63	27	24	45	1,176
5-6pm	1,279	35	110	90	85	1,599	1,089	49	34	27	41	1,240
6-7pm	1,243	72	49	63	83	1,510	942	37	21	19	20	1,039
7-8pm	---	---	---	---	---	1,371	---	---	---	---	---	939
8-9pm	---	---	---	---	---	1,253	---	---	---	---	---	737
9-10pm	---	---	---	---	---	1,034	---	---	---	---	---	646
10-11pm	---	---	---	---	---	829	---	---	---	---	---	571
11-12pm	---	---	---	---	---	758	---	---	---	---	---	485
Totals	---	---	---	---	---	22,350	---	---	---	---	---	19,073
7-10am	2,437	162	263	174	154	3,190	3,264	257	72	247	340	4,180
10am-1pm	2,082	82	151	165	167	2,647	1,881	106	69	101	178	2,335
1-4pm	3,030	88	148	221	220	3,707	2,482	183	73	69	162	2,969
4-7pm	3,749	138	297	267	305	4,756	3,048	149	82	70	106	3,455
7am-7pm	11,298	470	859	827	846	14,300	10,675	695	296	487	786	12,939
6-10am	---	---	---	---	---	3,916	---	---	---	---	---	5,354
3-7pm	5,083	165	339	342	374	6,303	3,946	211	100	94	147	4,498
6am-7pm	---	---	---	---	---	15,026	---	---	---	---	---	14,113

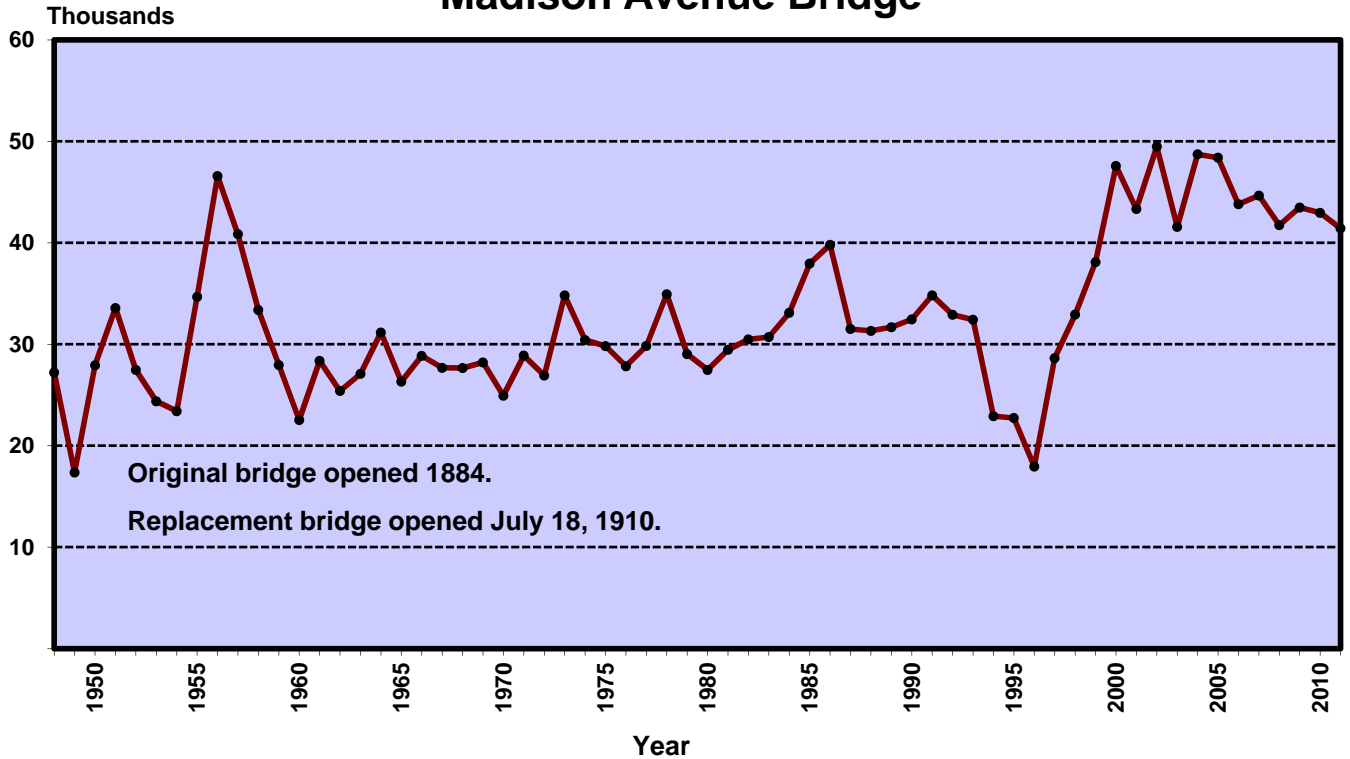
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Madison Avenue Bridge ~ 2011



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



**Hourly Vehicular Volumes  
Third Avenue Bridge - 2011**

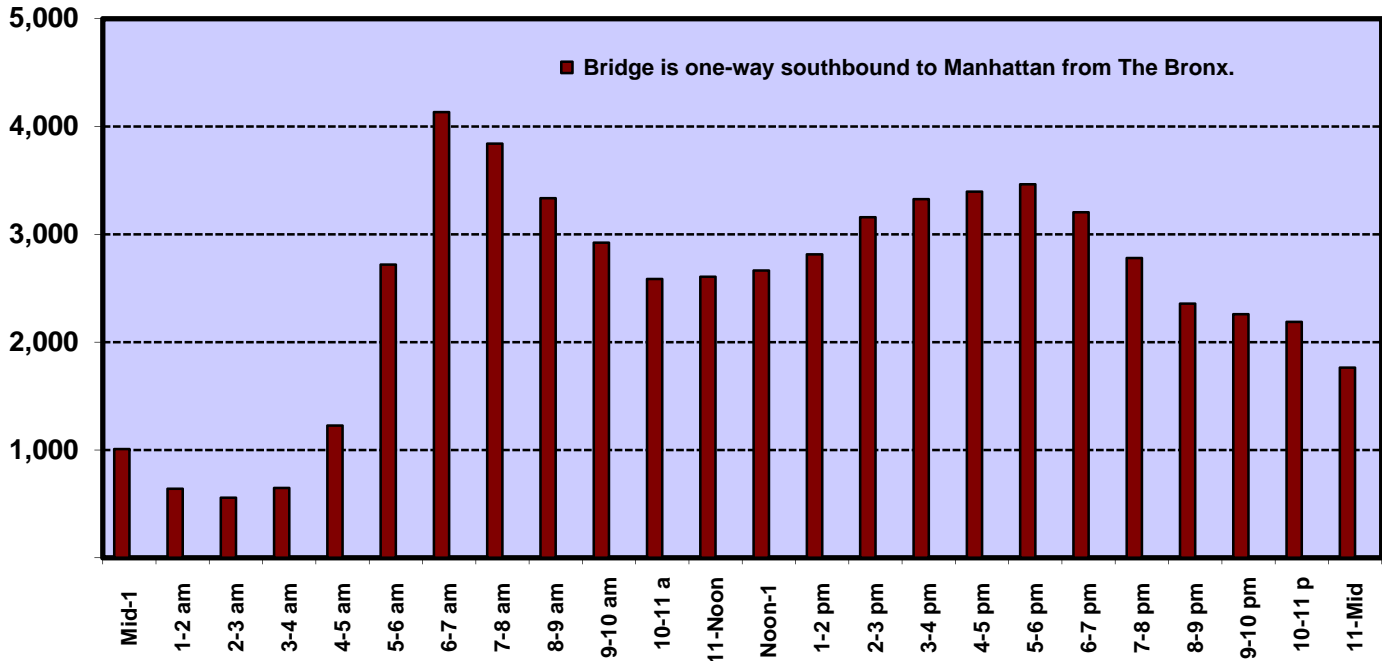
	<b>Northbound to Bronx</b>					<b>Southbound to Manhattan</b>					<b>2-Way Totals</b>	
	Autos	Buses	Commuter		Commercial Vans	Autos	Buses	Commuter		Commercial Vans		Totals
			Vans	Trucks				Vans	Trucks			
12-1am	---	---	---	---	---	---	---	---	---	---	---	1,009
1-2am	---	---	---	---	---	---	---	---	---	---	---	640
2-3am	---	---	---	---	---	---	---	---	---	---	---	557
3-4am	---	---	---	---	---	---	---	---	---	---	---	648
4-5am	---	---	---	---	---	---	---	---	---	---	---	1,226
5-6am	---	---	---	---	---	---	---	---	---	---	---	2,720
6-7am	---	---	---	---	---	---	---	---	---	---	---	4,134 **
7-8am	2,468	51	382	515	425	425	515	425	425	425	3,841	3,841
8-9am	2,187	31	216	442	460	460	442	460	460	460	3,336	3,336
9-10am	1,951	32	258	381	301	301	381	301	301	301	2,923	2,923
10-11am	2,163	26	143	139	115	115	139	115	115	115	2,586	2,586
11-12am	1,738	48	282	333	206	206	333	206	206	206	2,607	2,607
12-1pm	2,251	67	116	130	100	100	130	100	100	100	2,664	2,664
1-2pm	2,101	96	183	160	274	274	160	274	274	274	2,814	2,814
2-3pm	2,191	109	274	269	316	316	269	316	316	316	3,159	3,159
3-4pm	2,978	88	103	83	74	74	83	74	74	74	3,326	3,326
4-5pm	2,859	65	154	148	170	170	148	170	170	170	3,396	3,396
5-6pm	3,079	60	127	108	91	91	108	91	91	91	3,465	3,465
6-7pm	2,867	58	116	78	85	85	78	85	85	85	3,204	3,204
7-8pm	---	---	---	---	---	---	---	---	---	---	---	2,780
8-9pm	---	---	---	---	---	---	---	---	---	---	---	2,357
9-10pm	---	---	---	---	---	---	---	---	---	---	---	2,259
10-11pm	---	---	---	---	---	---	---	---	---	---	---	2,188
11-12pm	---	---	---	---	---	---	---	---	---	---	---	1,764
Totals	---	---	---	---	---	---	---	---	---	---	---	59,603
7-10am	6,606	114	856	1,338	1,186	1,186	1,338	1,186	1,186	1,186	10,100	10,100
10am-1pm	6,152	141	541	602	421	421	602	421	421	421	7,857	7,857
1-4pm	7,270	293	560	512	664	664	512	664	664	664	9,299	9,299
4-7pm	8,805	183	397	334	346	346	334	346	346	346	10,065	10,065
7am-7pm	28,833	731	2,354	2,786	2,617	2,617	2,786	2,617	2,617	2,617	37,321	37,321
6-10am	---	---	---	---	---	---	---	---	---	---	---	14,234
3-7pm	11,783	271	500	417	420	420	417	420	420	420	13,391	13,391
6am-7pm	---	---	---	---	---	---	---	---	---	---	---	41,455

\*\* Peak Volumes

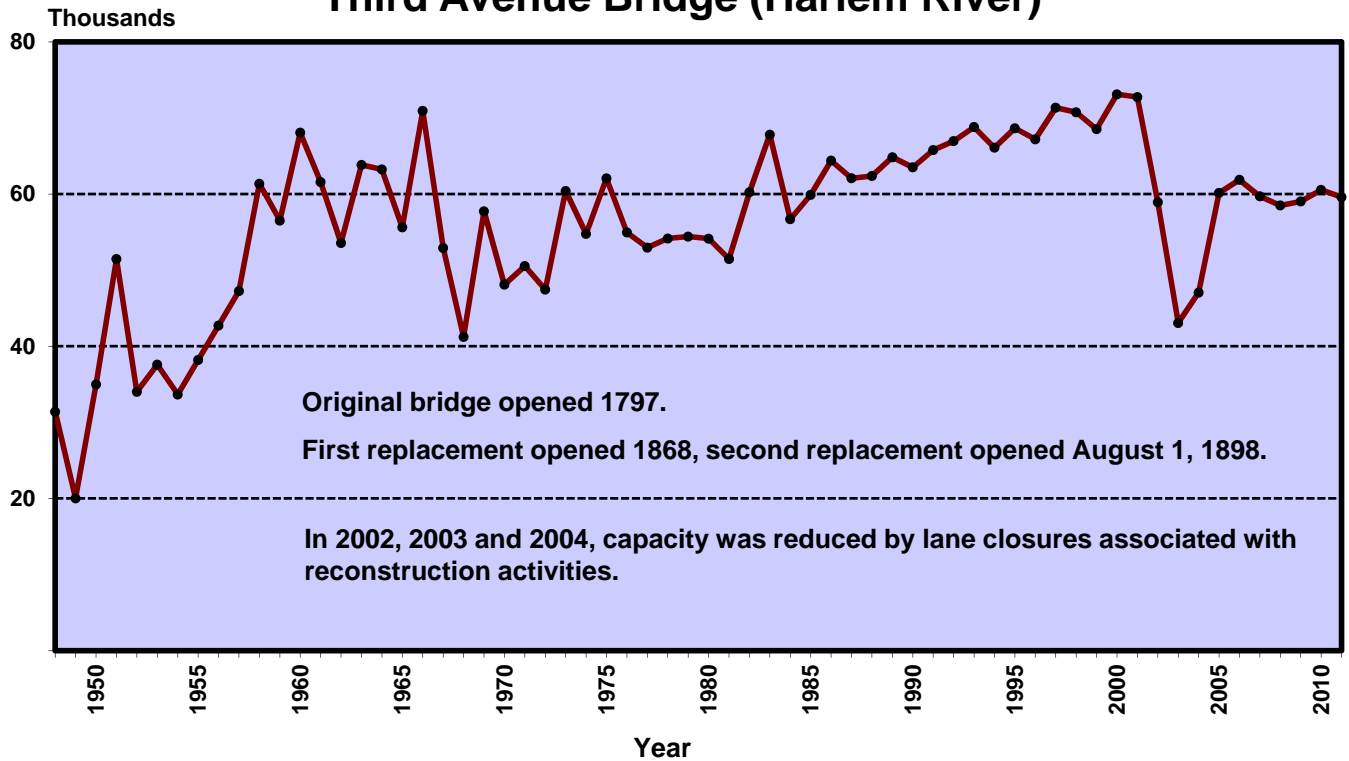
Based on 1989 Classification Survey Data



## Hourly Vehicular Volumes Third Avenue Bridge (Harlem River) ~ 2011



## Average Daily Traffic Volumes Third Avenue Bridge (Harlem River)



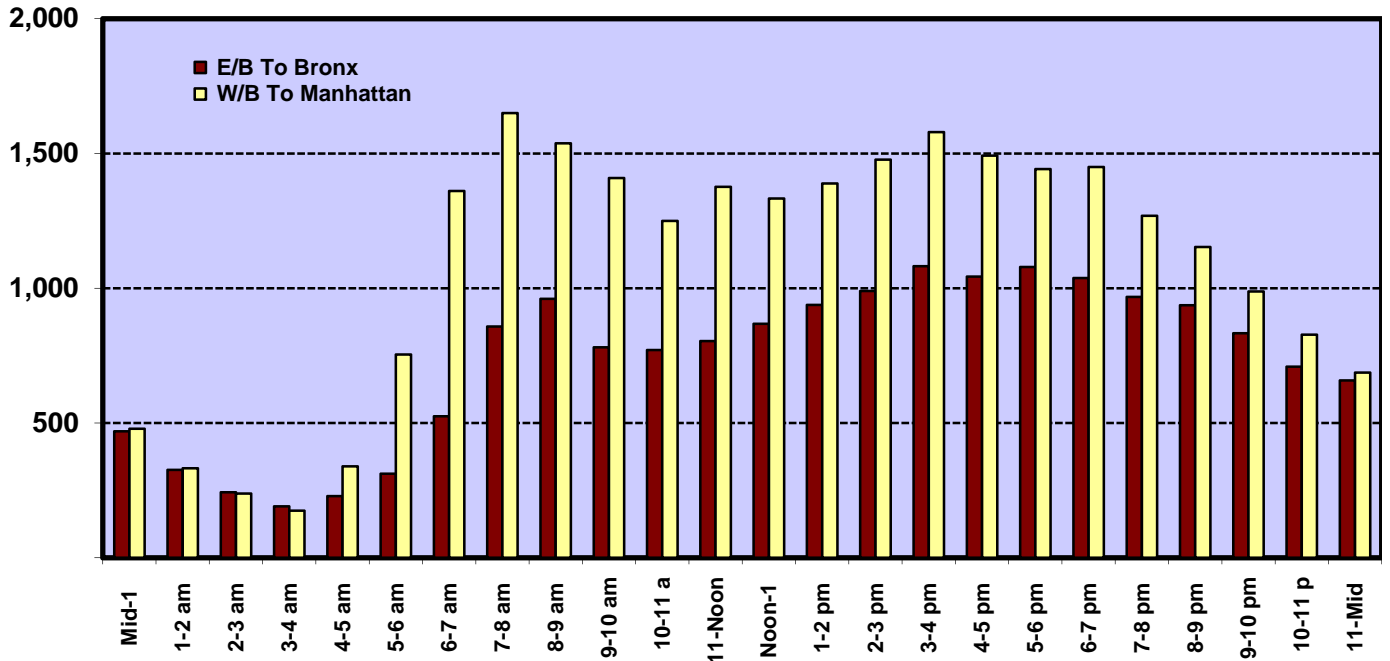
**Hourly Vehicular Volumes  
University Heights Bridge - 2011**

	<b>Eastbound to Bronx</b>					<b>Westbound to Manhattan</b>					<b>2-Way Totals</b>	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	469	---	---	---	---	---	479
1-2am	---	---	---	---	---	326	---	---	---	---	---	332
2-3am	---	---	---	---	---	243	---	---	---	---	---	238
3-4am	---	---	---	---	---	191	---	---	---	---	---	175
4-5am	---	---	---	---	---	229	---	---	---	---	---	339
5-6am	---	---	---	---	---	312	---	---	---	---	---	754
6-7am	---	---	---	---	---	525	---	---	---	---	---	1,361
7-8am	648	45	83	40	42	858	1,431	23	37	41	118	1,650 **
8-9am	746	8	79	56	72	961	1,334	13	28	54	109	1,538
9-10am	582	8	58	66	67	781	1,192	16	19	61	121	1,409
10-11am	672	4	35	33	27	771	1,143	4	4	31	68	1,250
11-12am	620	7	64	75	38	804	1,172	9	16	74	105	1,376
12-1pm	782	13	24	27	22	868	1,232	2	6	34	59	1,333
1-2pm	804	40	39	31	24	938	1,312	4	5	24	44	1,389
2-3pm	810	13	69	50	48	990	1,265	12	24	56	120	1,477
3-4pm	986	17	22	29	28	1,082 **	1,428	50	7	31	63	1,579
4-5pm	909	4	56	42	32	1,043	1,328	20	18	28	98	1,492
5-6pm	946	0	60	29	44	1,079	1,351	1	16	14	60	1,442
6-7pm	906	0	56	19	57	1,038	1,355	8	12	11	64	1,450
7-8pm	---	---	---	---	---	968	---	---	---	---	---	1,269
8-9pm	---	---	---	---	---	937	---	---	---	---	---	1,153
9-10pm	---	---	---	---	---	833	---	---	---	---	---	988
10-11pm	---	---	---	---	---	709	---	---	---	---	---	828
11-12pm	---	---	---	---	---	658	---	---	---	---	---	687
Totals	---	---	---	---	---	17,613	---	---	---	---	---	25,988
7-10am	1,976	61	220	162	181	2,600	3,957	52	84	156	348	4,597
10am-1pm	2,074	24	123	135	87	2,443	3,547	15	26	139	232	3,959
1-4pm	2,600	70	130	110	100	3,010	4,005	66	36	111	227	4,445
4-7pm	2,761	4	172	90	133	3,160	4,034	29	46	53	222	4,384
7am-7pm	9,411	159	645	497	501	11,213	15,543	162	192	459	1,029	17,385
6-10am	---	---	---	---	---	3,125	---	---	---	---	---	5,958
3-7pm	3,747	21	194	119	161	4,242	5,462	79	53	84	285	5,963
6am-7pm	---	---	---	---	---	11,738	---	---	---	---	---	18,746

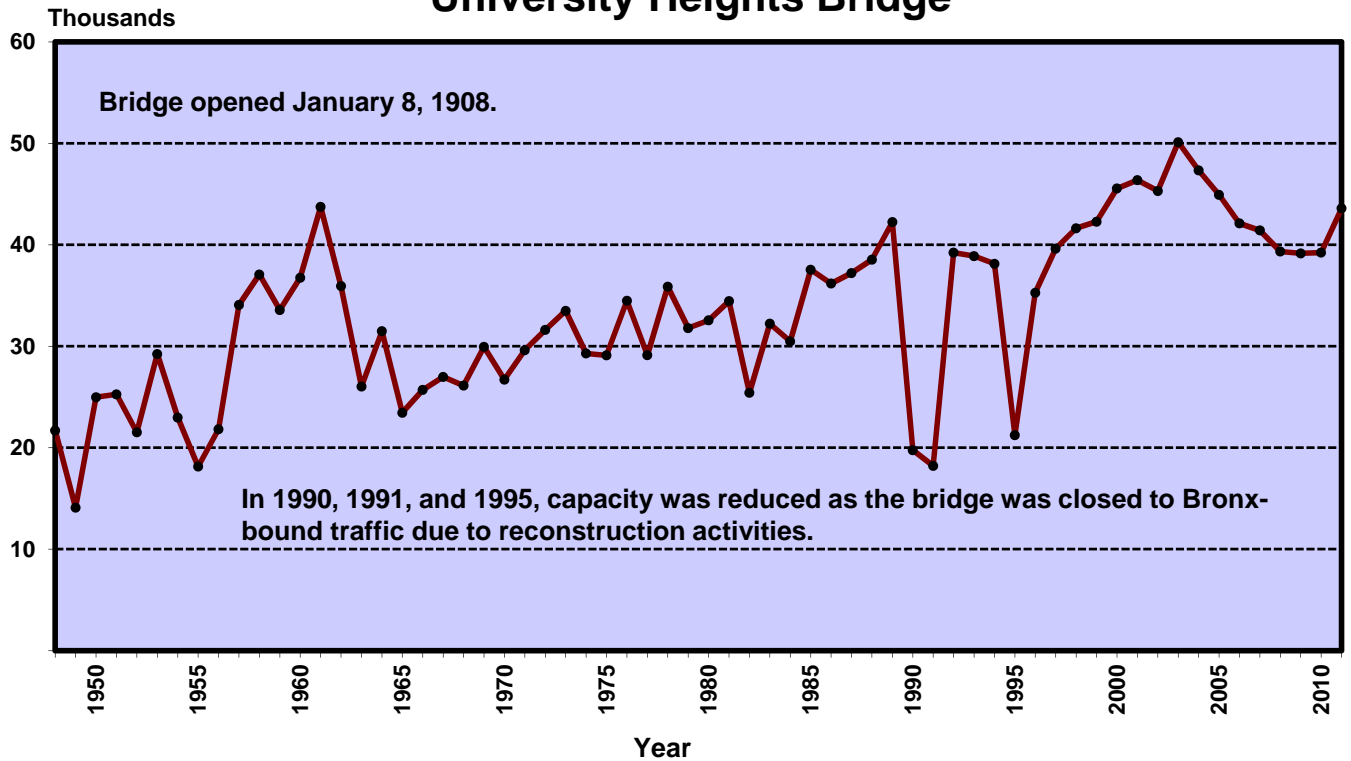
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes University Heights Bridge ~ 2011



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



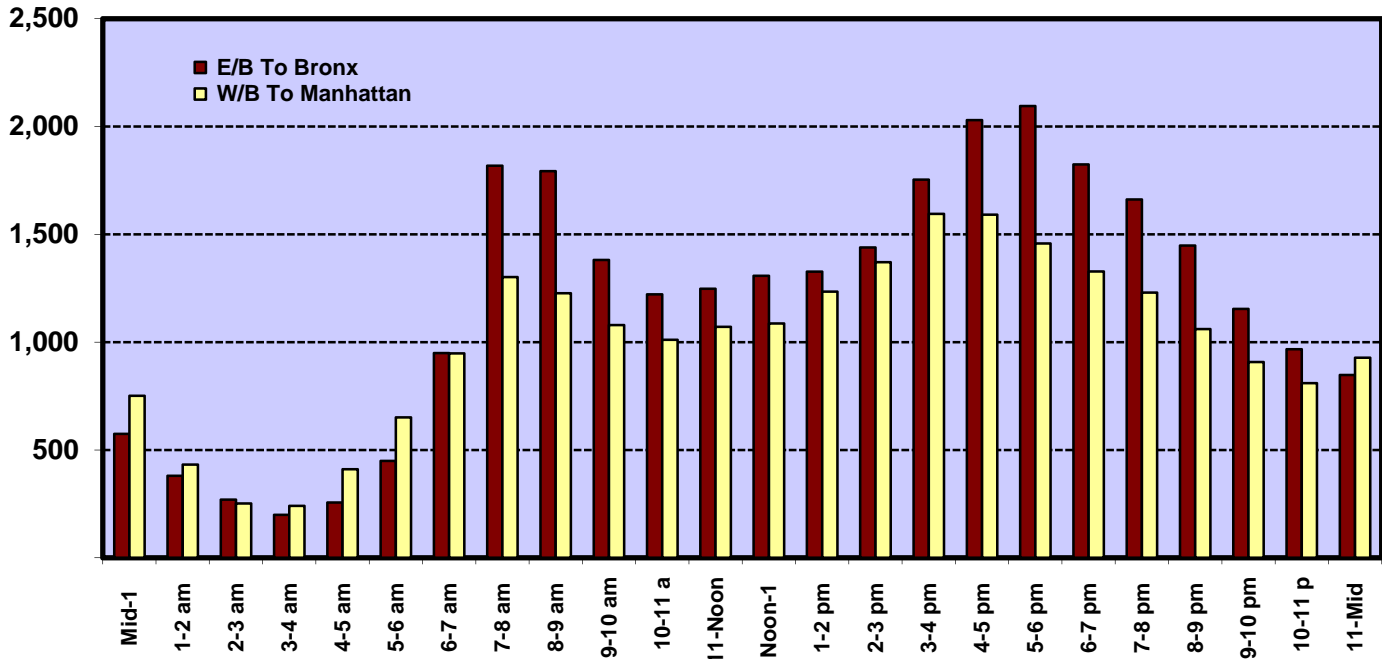
**Hourly Vehicular Volumes  
Washington Bridge - 2011**

	<b>Eastbound to Bronx</b>					<b>Westbound to Manhattan</b>					<b>2-Way Totals</b>	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	575	---	---	---	---	---	751
1-2am	---	---	---	---	---	380	---	---	---	---	---	432
2-3am	---	---	---	---	---	270	---	---	---	---	---	252
3-4am	---	---	---	---	---	199	---	---	---	---	---	241
4-5am	---	---	---	---	---	256	---	---	---	---	---	411
5-6am	---	---	---	---	---	449	---	---	---	---	---	651
6-7am	---	---	---	---	---	949	---	---	---	---	---	948
7-8am	1,558	59	33	54	114	1,818	1,099	51	98	32	22	1,302
8-9am	1,501	46	27	81	138	1,793	1,035	57	63	47	25	1,227
9-10am	1,144	37	24	90	86	1,381	939	32	47	36	25	1,079
10-11am	1,110	33	7	31	41	1,222	922	33	10	25	21	1,011
11-12am	1,079	26	15	60	68	1,248	934	44	28	30	35	1,071
12-1pm	1,171	39	18	23	57	1,308	1,018	26	9	19	15	1,087
1-2pm	1,214	30	5	31	47	1,327	1,155	29	17	19	14	1,234
2-3pm	1,252	31	23	61	72	1,439	1,183	56	42	50	40	1,371
3-4pm	1,595	37	11	31	80	1,754	1,438	45	45	45	22	1,595 **
4-5pm	1,689	40	51	62	188	2,030	1,353	39	69	84	46	1,591
5-6pm	1,872	35	52	37	99	2,095 **	1,324	26	40	30	38	1,458
6-7pm	1,675	22	30	23	74	1,824	1,204	33	48	16	27	1,328
7-8pm	---	---	---	---	---	1,662	---	---	---	---	---	1,230
8-9pm	---	---	---	---	---	1,448	---	---	---	---	---	1,061
9-10pm	---	---	---	---	---	1,154	---	---	---	---	---	908
10-11pm	---	---	---	---	---	967	---	---	---	---	---	810
11-12pm	---	---	---	---	---	848	---	---	---	---	---	928
<b>Totals</b>	---	---	---	---	---	<b>28,396</b>	---	---	---	---	---	<b>23,977</b>
7-10am	4,203	142	84	225	338	4,992	3,073	140	208	115	72	3,608
10am-1pm	3,360	98	40	114	166	3,778	2,874	103	47	74	71	3,169
1-4pm	4,061	98	39	123	199	4,520	3,776	130	104	114	76	4,200
4-7pm	5,236	97	133	122	361	5,949	3,881	98	157	130	111	4,377
7am-7pm	16,860	435	296	584	1,064	19,239	13,604	471	516	433	330	15,354
6-10am	---	---	---	---	---	5,941	---	---	---	---	---	4,556
3-7pm	6,831	134	144	153	441	7,703	5,319	143	202	175	133	5,972
6am-7pm	---	---	---	---	---	20,188	---	---	---	---	---	16,302

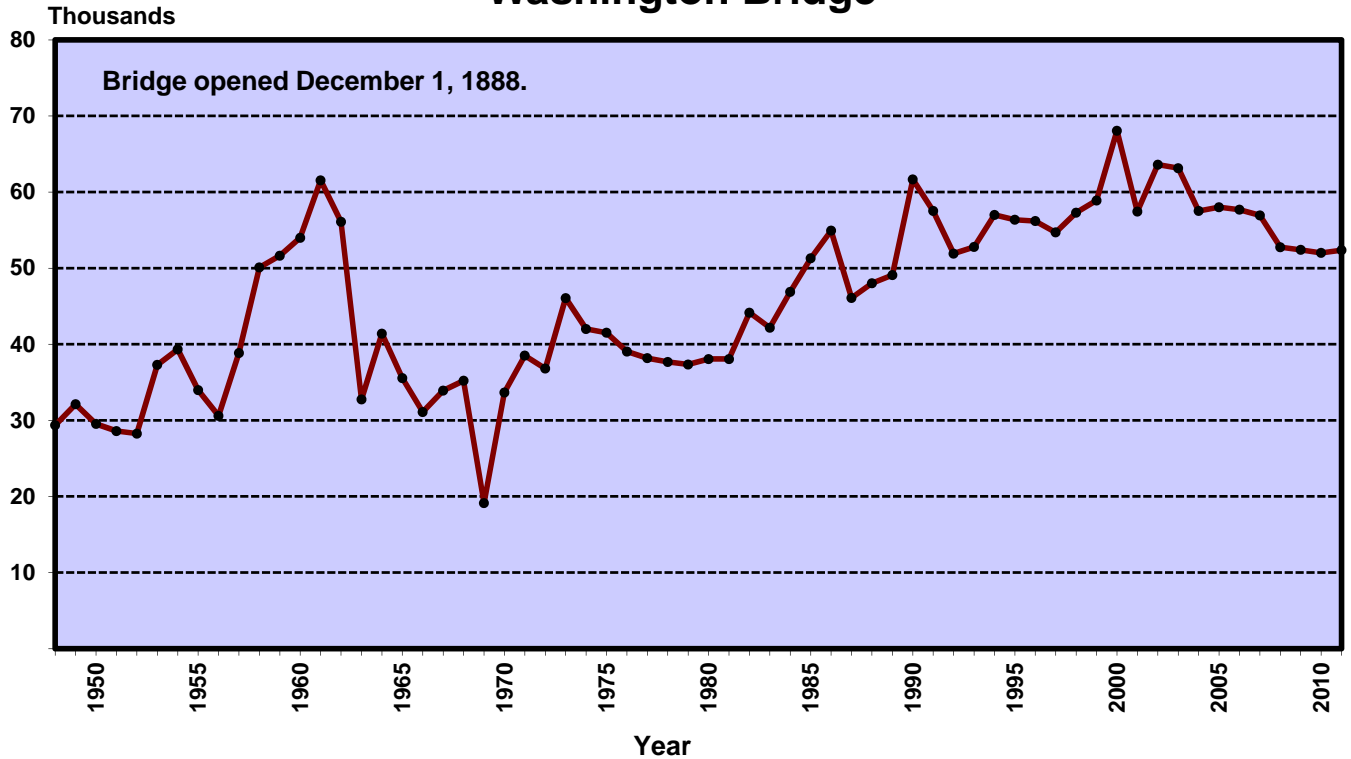
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Washington Bridge ~ 2011



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



**Hourly Vehicular Volumes  
Willis Avenue Bridge - 2011**

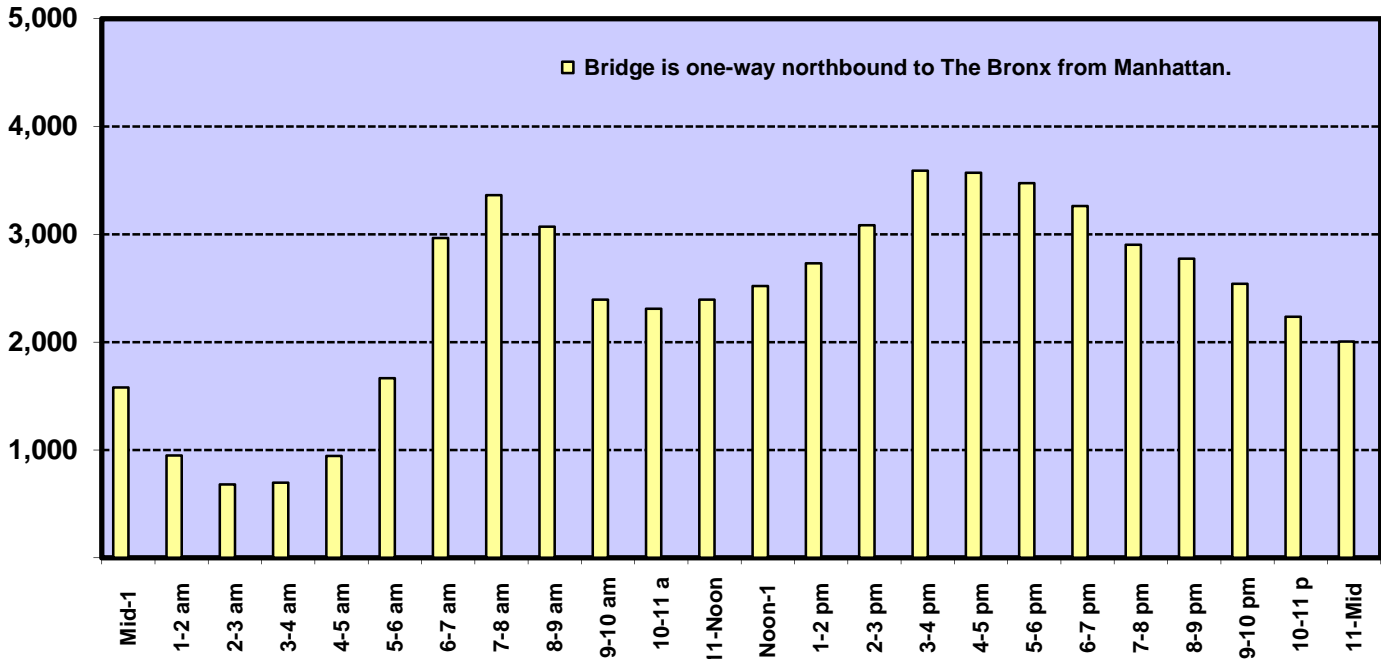
	<b>Northbound to Bronx</b>					<b>Southbound to Manhattan</b>					<b>2-Way Totals</b>	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	1,580	---	---	---	---	---	1,580
1-2am	---	---	---	---	---	949	---	---	---	---	---	949
2-3am	---	---	---	---	---	680	---	---	---	---	---	680
3-4am	---	---	---	---	---	697	---	---	---	---	---	697
4-5am	---	---	---	---	---	945	---	---	---	---	---	945
5-6am	---	---	---	---	---	1,665	---	---	---	---	---	1,665
6-7am	---	---	---	---	---	2,966	---	---	---	---	---	2,966
7-8am	2,865	85	133	166	115	3,364	---	---	---	---	---	3,364
8-9am	2,477	105	92	179	218	3,071	---	---	---	---	---	3,071
9-10am	1,789	105	88	214	198	2,394	---	---	---	---	---	2,394
10-11am	1,923	45	62	144	136	2,310	---	---	---	---	---	2,310
11-12am	1,770	31	104	254	235	2,394	---	---	---	---	---	2,394
12-1pm	2,206	38	47	136	93	2,520	---	---	---	---	---	2,520
1-2pm	2,440	22	37	103	129	2,731	---	---	---	---	---	2,731
2-3pm	2,284	28	112	329	332	3,085	---	---	---	---	---	3,085
3-4pm	3,177	58	54	153	148	3,590 **	---	---	---	---	---	3,590 **
4-5pm	2,812	33	108	241	378	3,572	---	---	---	---	---	3,572
5-6pm	2,827	50	94	157	347	3,475	---	---	---	---	---	3,475
6-7pm	2,855	27	87	100	193	3,262	---	---	---	---	---	3,262
7-8pm	---	---	---	---	---	2,903	---	---	---	---	---	2,903
8-9pm	---	---	---	---	---	2,774	---	---	---	---	---	2,774
9-10pm	---	---	---	---	---	2,541	---	---	---	---	---	2,541
10-11pm	---	---	---	---	---	2,236	---	---	---	---	---	2,236
11-12pm	---	---	---	---	---	2,006	---	---	---	---	---	2,006
Totals	---	---	---	---	---	57,710	---	---	---	---	---	57,710
7-10am	7,131	295	313	559	531	8,829	---	---	---	---	---	8,829
10am-1pm	5,899	114	213	534	464	7,224	---	---	---	---	---	7,224
1-4pm	7,901	108	203	585	609	9,406	---	---	---	---	---	9,406
4-7pm	8,494	110	289	498	918	10,309	---	---	---	---	---	10,309
7am-7pm	29,425	627	1,018	2,176	2,522	35,768	---	---	---	---	---	35,768
6-10am	---	---	---	---	---	11,795	---	---	---	---	---	11,795
3-7pm	11,671	168	343	651	1,066	13,899	---	---	---	---	---	13,899
6am-7pm	---	---	---	---	---	38,734	---	---	---	---	---	38,734

*Bridge is 1-way northbound to The Bronx*

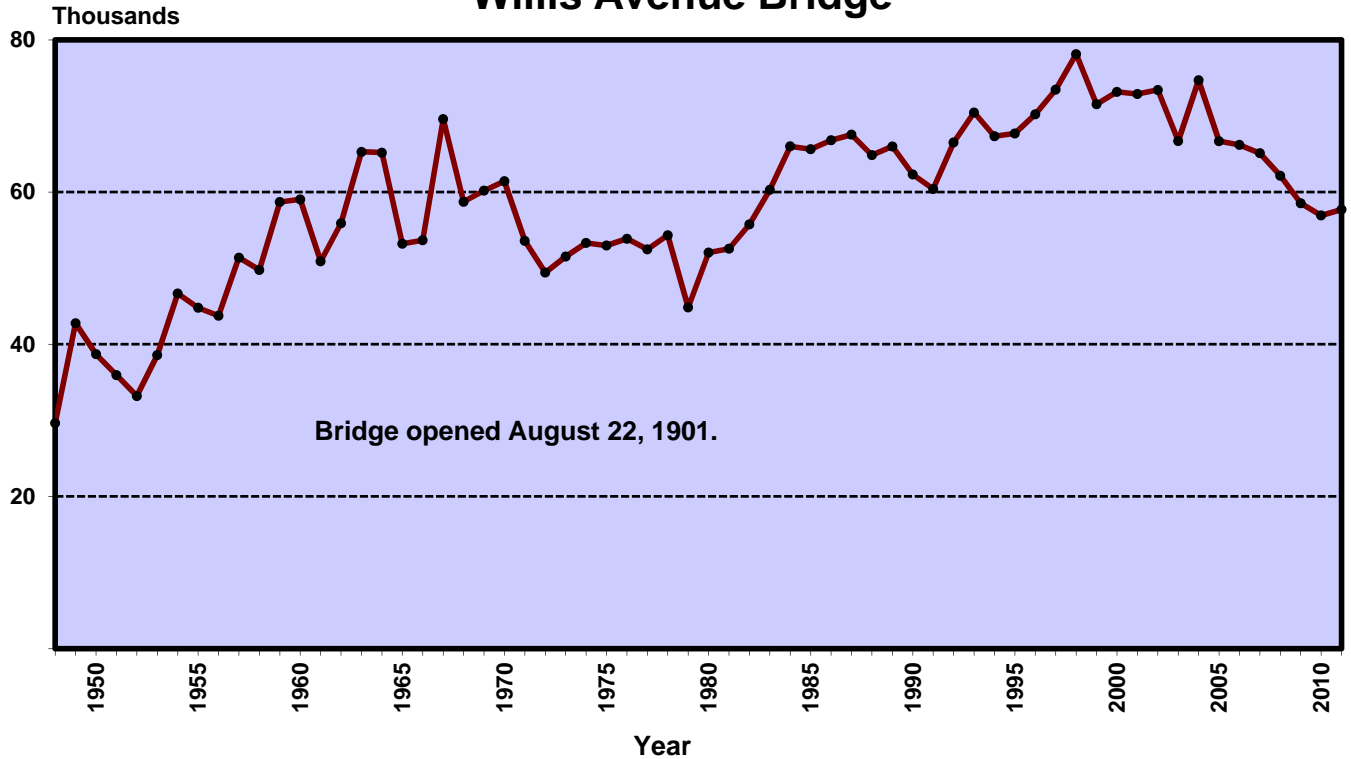
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Willis Avenue Bridge ~ 2011



## Average Daily Traffic Volumes Willis Avenue Bridge



**Hourly Vehicular Volumes  
145th Street Bridge - 2011**

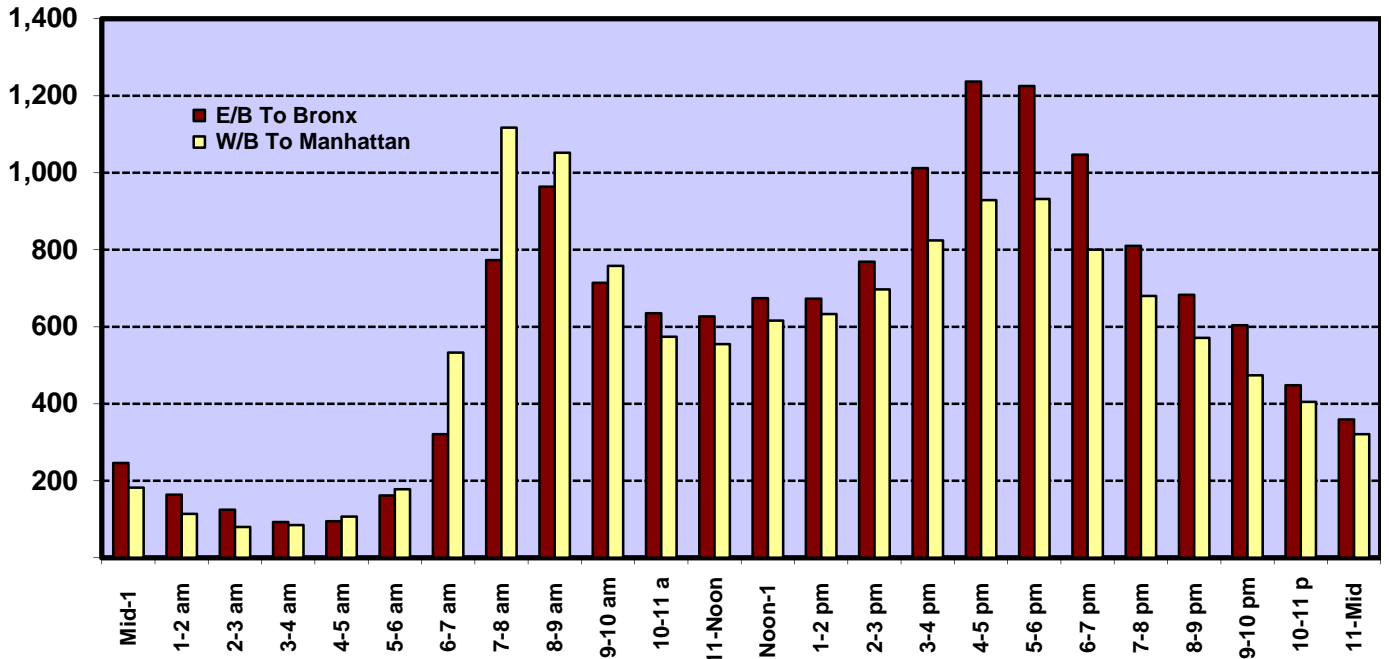
	<b>Eastbound to Bronx</b>					<b>Westbound to Manhattan</b>					<b>2-Way Totals</b>	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	246	---	---	---	---	---	182
1-2am	---	---	---	---	---	164	---	---	---	---	---	114
2-3am	---	---	---	---	---	125	---	---	---	---	---	80
3-4am	---	---	---	---	---	93	---	---	---	---	---	85
4-5am	---	---	---	---	---	95	---	---	---	---	---	107
5-6am	---	---	---	---	---	162	---	---	---	---	---	178
6-7am	---	---	---	---	---	321	---	---	---	---	---	533
7-8am	648	31	42	42	10	773	972	45	20	42	38	1,117 **
8-9am	804	29	49	52	30	964	901	31	35	30	55	1,052
9-10am	576	13	39	61	25	714	609	20	36	28	65	758
10-11am	558	9	15	26	27	635	458	16	31	23	46	574
11-12am	478	15	28	65	41	627	411	10	41	43	50	555
12-1pm	585	13	17	42	17	674	571	11	11	9	14	616
1-2pm	581	12	33	30	17	673	572	28	11	14	8	633
2-3pm	579	17	32	99	42	769	584	22	27	26	38	697
3-4pm	891	23	24	43	31	1,012	767	30	9	7	11	824
4-5pm	986	16	64	110	61	1,237 **	861	19	16	9	24	929
5-6pm	999	11	57	83	75	1,225	874	19	15	10	14	932
6-7pm	910	29	32	25	51	1,047	755	24	6	4	11	800
7-8pm	---	---	---	---	---	810	---	---	---	---	---	680
8-9pm	---	---	---	---	---	683	---	---	---	---	---	571
9-10pm	---	---	---	---	---	604	---	---	---	---	---	474
10-11pm	---	---	---	---	---	448	---	---	---	---	---	405
11-12pm	---	---	---	---	---	359	---	---	---	---	---	321
<b>Totals</b>	---	---	---	---	---	14,460	---	---	---	---	---	13,217
7-10am	2,028	73	130	155	65	2,451	2,482	96	91	100	158	2,927
10am-1pm	1,621	37	60	133	85	1,936	1,440	37	83	75	110	1,745
1-4pm	2,051	52	89	172	90	2,454	1,923	80	47	47	57	2,154
4-7pm	2,895	56	153	218	187	3,509	2,490	62	37	23	49	2,661
7am-7pm	8,595	218	432	678	427	10,350	8,335	275	258	245	374	9,487
6-10am	---	---	---	---	---	2,772	---	---	---	---	---	3,460
3-7pm	3,786	79	177	261	218	4,521	3,257	92	46	30	60	3,485
6am-7pm	---	---	---	---	---	10,671	---	---	---	---	---	10,020

Based on 1989 Classification Survey Data

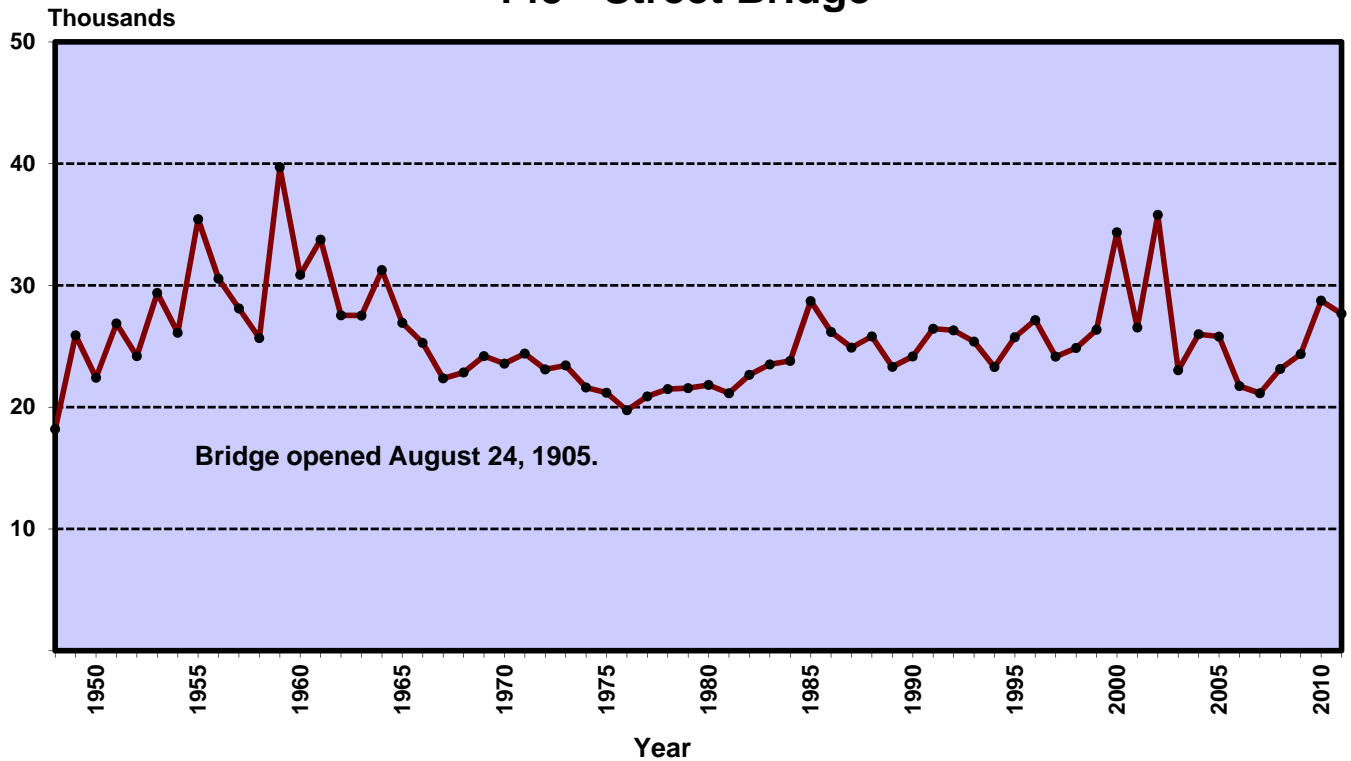
\*\* Peak Volumes



## Hourly Vehicular Volumes 145<sup>th</sup> Street Bridge ~ 2011



## Average Daily Traffic Volumes ~ Total of Both Directions 145<sup>th</sup> Street Bridge





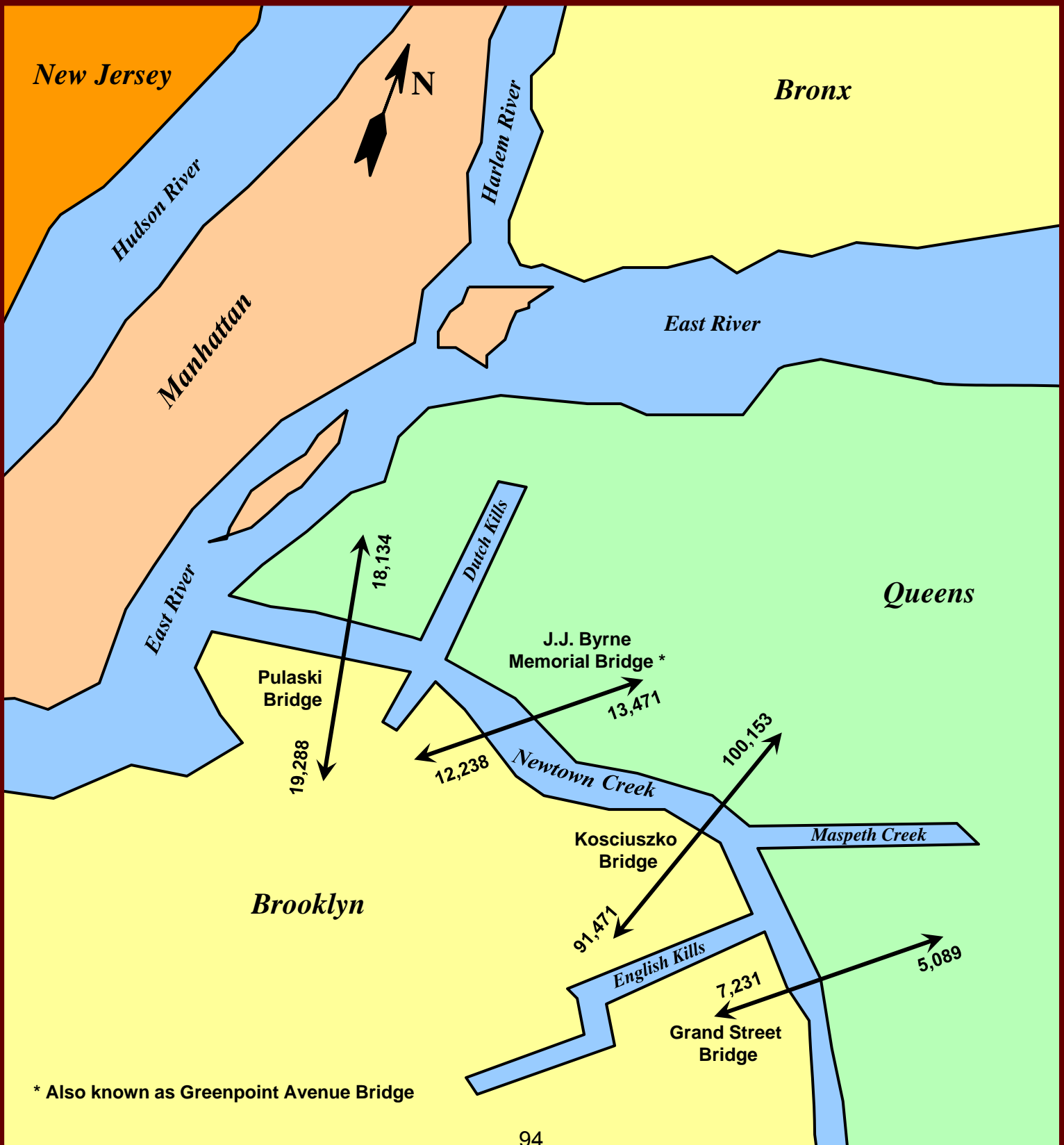
# Brooklyn-Queens Bridges



Kosciuszko Bridge

# Brooklyn-Queens Bridges

2011 Daily Volumes



\* Also known as Greenpoint Avenue Bridge

## Brooklyn - Queens Bridges ~ Average Daily Traffic Volumes

1948 - 2011

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

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

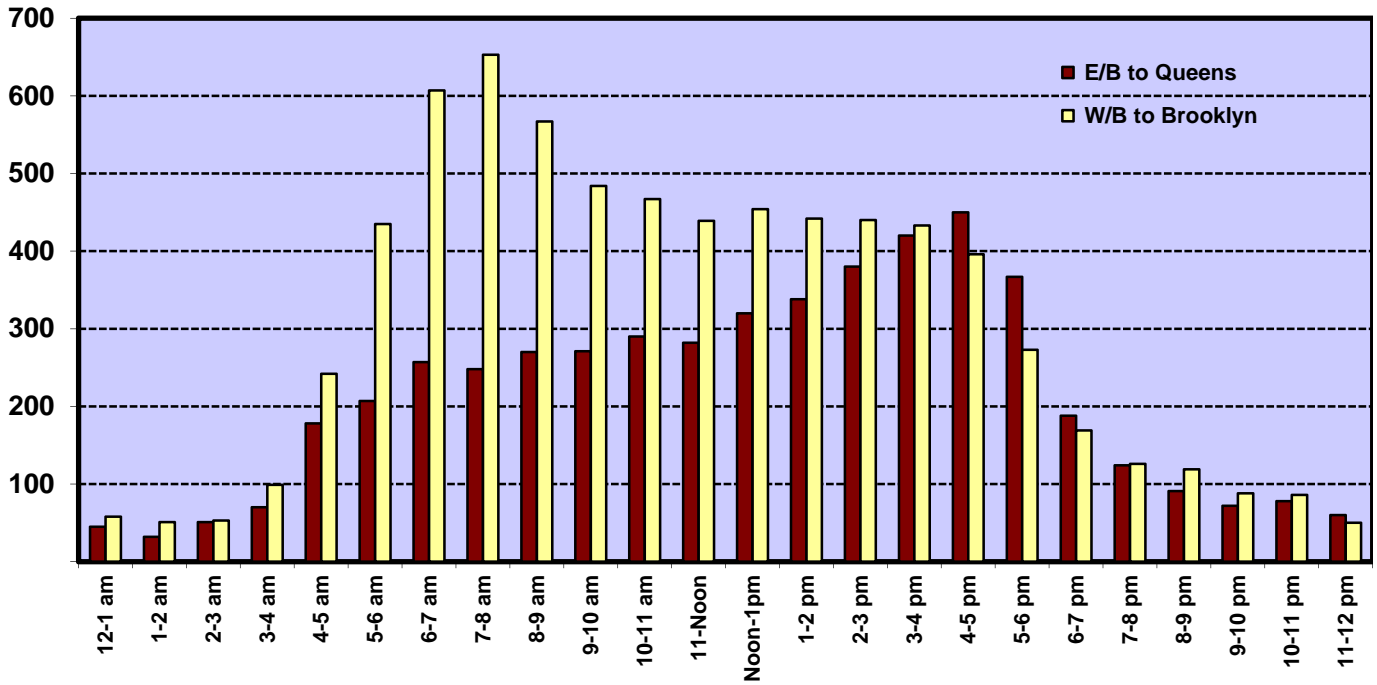
## Hourly Vehicular Volumes Grand Street Bridge - 2011

	<i>Eastbound to Queens</i>					<i>Westbound to Brooklyn</i>					<b>2-Way Totals</b>		
	Autos	Buses	Commuter		Commercial Vans	Totals	Autos	Buses	Commuter			Commercial Vans	Totals
			Vans	Trucks					Vans	Trucks			
12-1am	---	---	---	---	---	45	---	---	---	---	---	58	
1-2am	---	---	---	---	---	32	---	---	---	---	---	51	
2-3am	---	---	---	---	---	51	---	---	---	---	---	104	
3-4am	---	---	---	---	---	70	---	---	---	---	---	99	
4-5am	---	---	---	---	---	178	---	---	---	---	---	242	
5-6am	---	---	---	---	---	207	---	---	---	---	---	435	
6-7am	---	---	---	---	---	257	---	---	---	---	---	607	
7-8am	196	7	6	29	10	248	443	17	32	131	30	653	
8-9am	176	4	7	67	16	270	316	6	30	165	50	567	
9-10am	181	13	2	57	18	271	259	8	26	149	42	484	
10-11am	209	4	4	48	25	290	357	11	12	68	19	467	
11-12am	154	5	9	86	28	282	274	5	26	105	29	439	
12-1pm	267	8	3	33	9	320	368	10	15	48	13	454	
1-2pm	266	5	8	45	14	338	320	14	25	66	17	442	
2-3pm	237	9	10	92	32	380	232	5	31	137	35	440	
3-4pm	360	7	4	41	8	420	336	15	10	60	12	433	
4-5pm	362	12	12	47	17	450	291	8	20	60	17	396	
5-6pm	295	5	8	42	17	367	209	3	13	38	10	273	
6-7pm	148	3	4	25	8	188	141	3	8	15	2	169	
7-8pm	---	---	---	---	---	124	---	---	---	---	---	126	
8-9pm	---	---	---	---	---	91	---	---	---	---	---	119	
9-10pm	---	---	---	---	---	72	---	---	---	---	---	88	
10-11pm	---	---	---	---	---	78	---	---	---	---	---	86	
11-12pm	---	---	---	---	---	60	---	---	---	---	---	50	
<b>Totals</b>	---	---	---	---	---	<b>5,089</b>	---	---	---	---	---	<b>7,231</b>	
7-10am	553	24	15	153	44	789	1,018	31	88	445	122	1,704	
10am-1pm	630	17	16	167	62	892	999	26	53	221	61	1,360	
1-4pm	863	21	22	178	54	1,138	888	34	66	263	64	1,315	
4-7pm	805	20	24	114	42	1,005	641	14	41	113	29	838	
7am-7pm	2,851	82	77	612	202	3,824	3,546	105	248	1,042	276	5,217	
6-10am	---	---	---	---	---	1,046	---	---	---	---	---	2,311	
3-7pm	1,165	27	28	155	50	1,425	977	29	51	173	41	1,271	
6am-7pm	---	---	---	---	---	4,081	---	---	---	---	---	5,824	

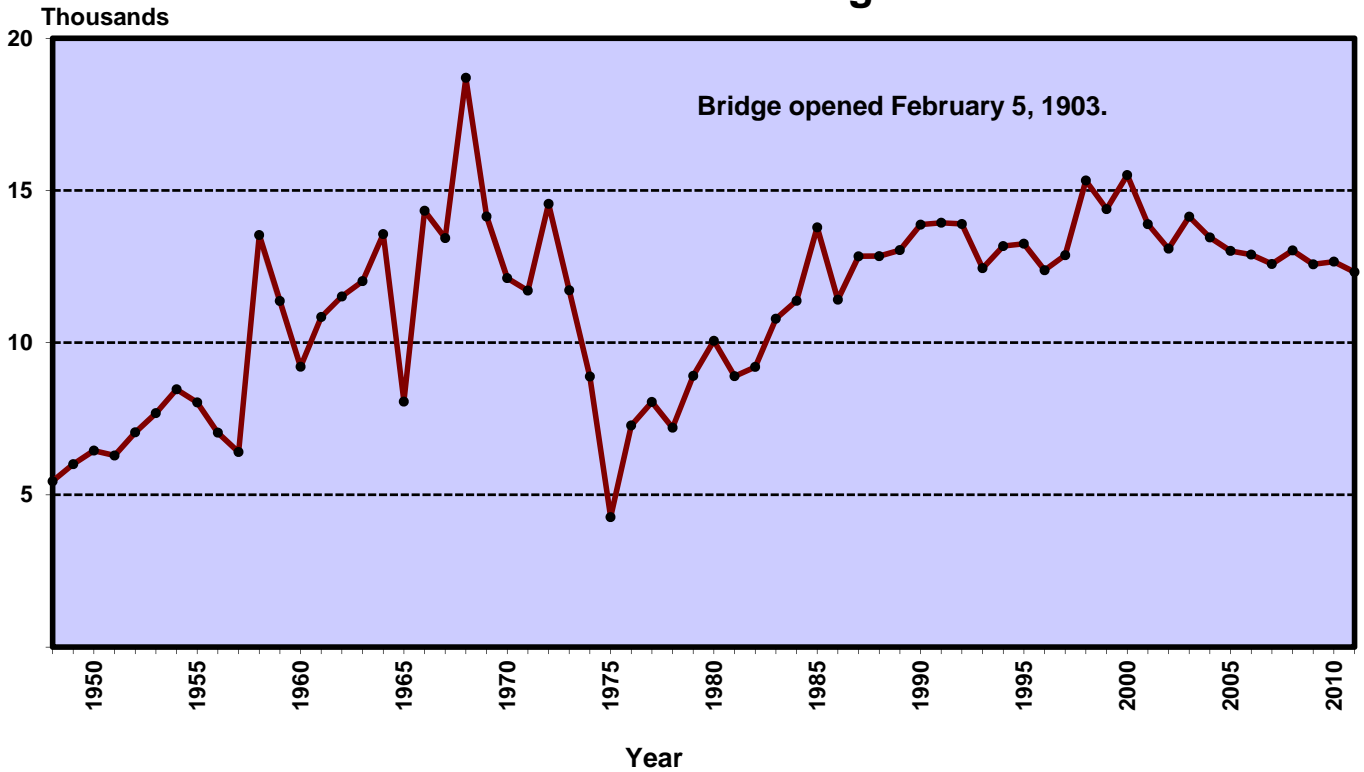
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Grand Street Bridge ~ 2011



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



**Hourly Vehicular Volumes  
J.J. Byrne Memorial Bridge - 2011  
(Greenpoint Avenue Bridge)**

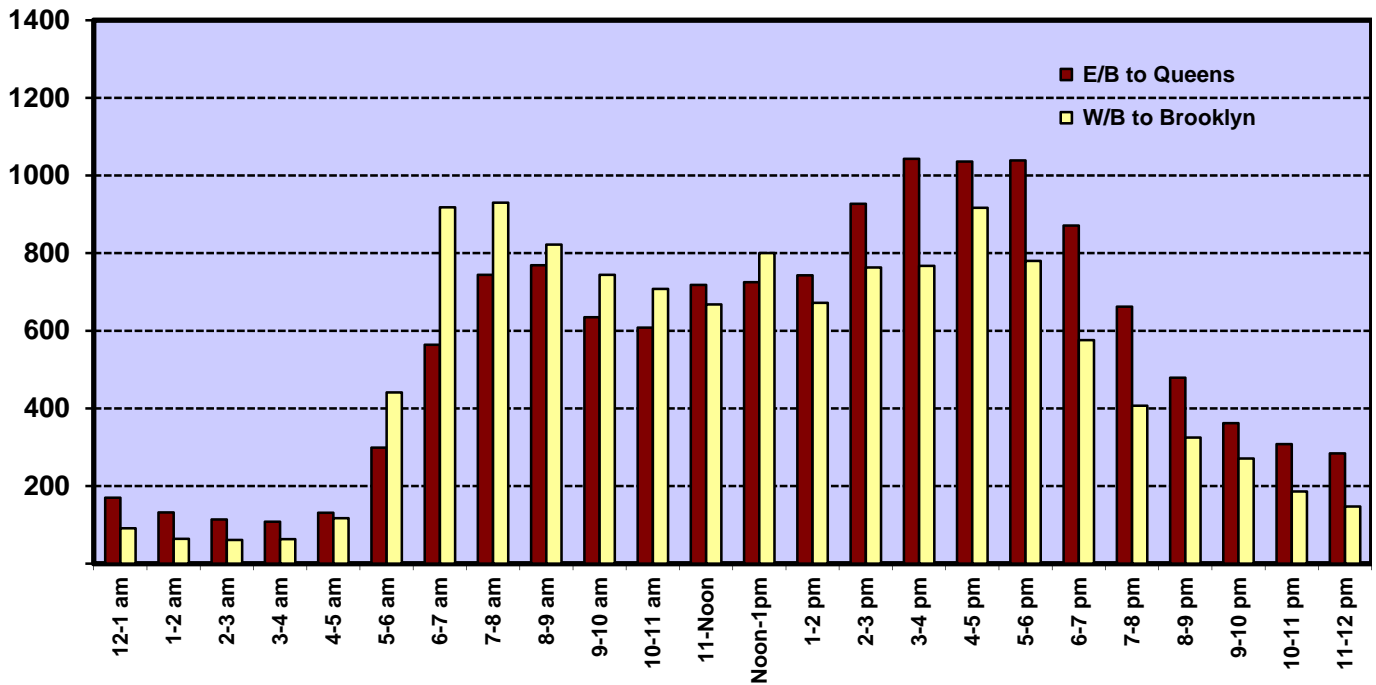
	Eastbound to Queens					Westbound to Brooklyn					2-Way Totals	
	Autos	Buses	Commuter		Commercial Vans	Autos	Buses	Commuter		Commercial Vans		
			Vans	Trucks				Vans	Trucks			
12-1am	---	---	---	---	---	---	---	---	---	---	---	91
1-2am	---	---	---	---	---	---	---	---	---	---	---	64
2-3am	---	---	---	---	---	---	---	---	---	---	---	61
3-4am	---	---	---	---	---	---	---	---	---	---	---	63
4-5am	---	---	---	---	---	---	---	---	---	---	---	117
5-6am	---	---	---	---	---	---	---	---	---	---	---	441
6-7am	---	---	---	---	---	---	---	---	---	---	---	918
7-8am	555	11	19	119	40	9	613	9	47	187	74	930 **
8-9am	500	14	22	189	44	10	556	10	28	158	70	822
9-10am	358	6	24	185	62	12	370	12	45	222	95	744
10-11am	495	3	6	72	32	5	489	5	25	141	48	708
11-12am	434	11	18	180	75	5	304	5	18	220	121	668
12-1pm	597	3	13	84	28	6	557	6	31	136	70	800
1-2pm	610	11	15	86	21	15	464	15	36	116	41	672
2-3pm	610	7	27	191	92	11	177	11	94	349	132	763
3-4pm	902	9	10	87	35	6	625	6	21	89	26	767
4-5pm	780	12	34	130	80	9	720	9	32	107	49	917
5-6pm	805	8	32	124	70	8	606	8	46	67	53	780
6-7pm	687	15	19	88	62	13	453	13	19	56	35	576
7-8pm	---	---	---	---	---	---	---	---	---	---	---	407
8-9pm	---	---	---	---	---	---	---	---	---	---	---	325
9-10pm	---	---	---	---	---	---	---	---	---	---	---	271
10-11pm	---	---	---	---	---	---	---	---	---	---	---	186
11-12pm	---	---	---	---	---	---	---	---	---	---	---	147
Totals	---	---	---	---	---	---	---	---	---	---	---	12,238
7-10am	1,413	31	65	493	146	31	1,539	31	120	567	239	2,496
10am-1pm	1,526	17	37	336	135	16	1,350	16	74	497	239	2,176
1-4pm	2,122	27	52	364	148	32	1,266	32	151	554	199	2,202
4-7pm	2,272	35	85	342	212	30	1,779	30	97	230	137	2,273
7am-7pm	7,333	110	239	1,535	641	109	5,934	109	442	1,848	814	9,147
6-10am	---	---	---	---	---	---	---	---	---	---	---	---
3-7pm	3,174	44	95	429	247	36	2,404	36	118	319	163	3,414
6am-7pm	---	---	---	---	---	---	---	---	---	---	---	---
Totals	---	---	---	---	---	---	---	---	---	---	---	25,709
7-10am	1,413	31	65	493	146	31	1,539	31	120	567	239	2,496
10am-1pm	1,526	17	37	336	135	16	1,350	16	74	497	239	2,176
1-4pm	2,122	27	52	364	148	32	1,266	32	151	554	199	2,202
4-7pm	2,272	35	85	342	212	30	1,779	30	97	230	137	2,273
7am-7pm	7,333	110	239	1,535	641	109	5,934	109	442	1,848	814	9,147
6-10am	---	---	---	---	---	---	---	---	---	---	---	---
3-7pm	3,174	44	95	429	247	36	2,404	36	118	319	163	3,414
6am-7pm	---	---	---	---	---	---	---	---	---	---	---	---
Totals	---	---	---	---	---	---	---	---	---	---	---	10,065

\*\* Peak Volumes

Based on 1989 Classification Survey Data

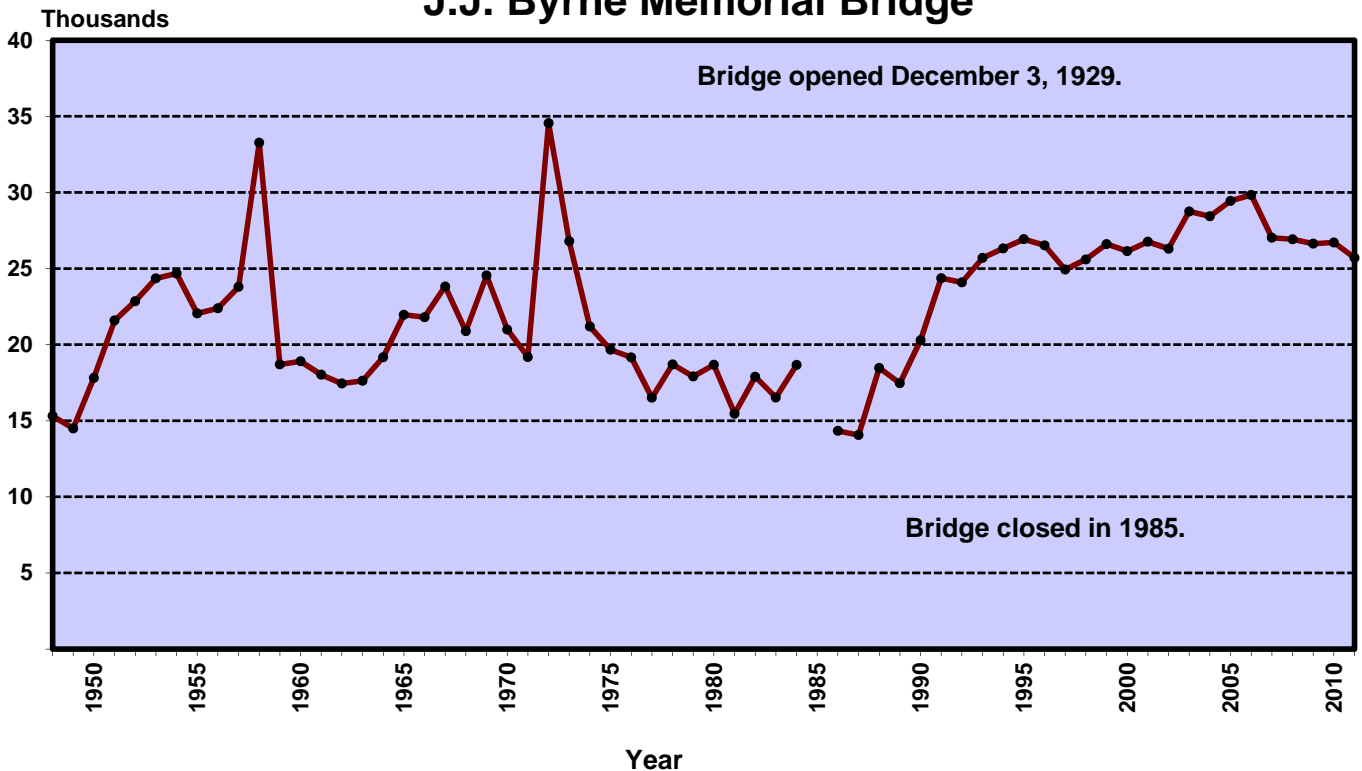


## Hourly Vehicular Volumes J.J. Byrne Memorial Bridge ~ 2011



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

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



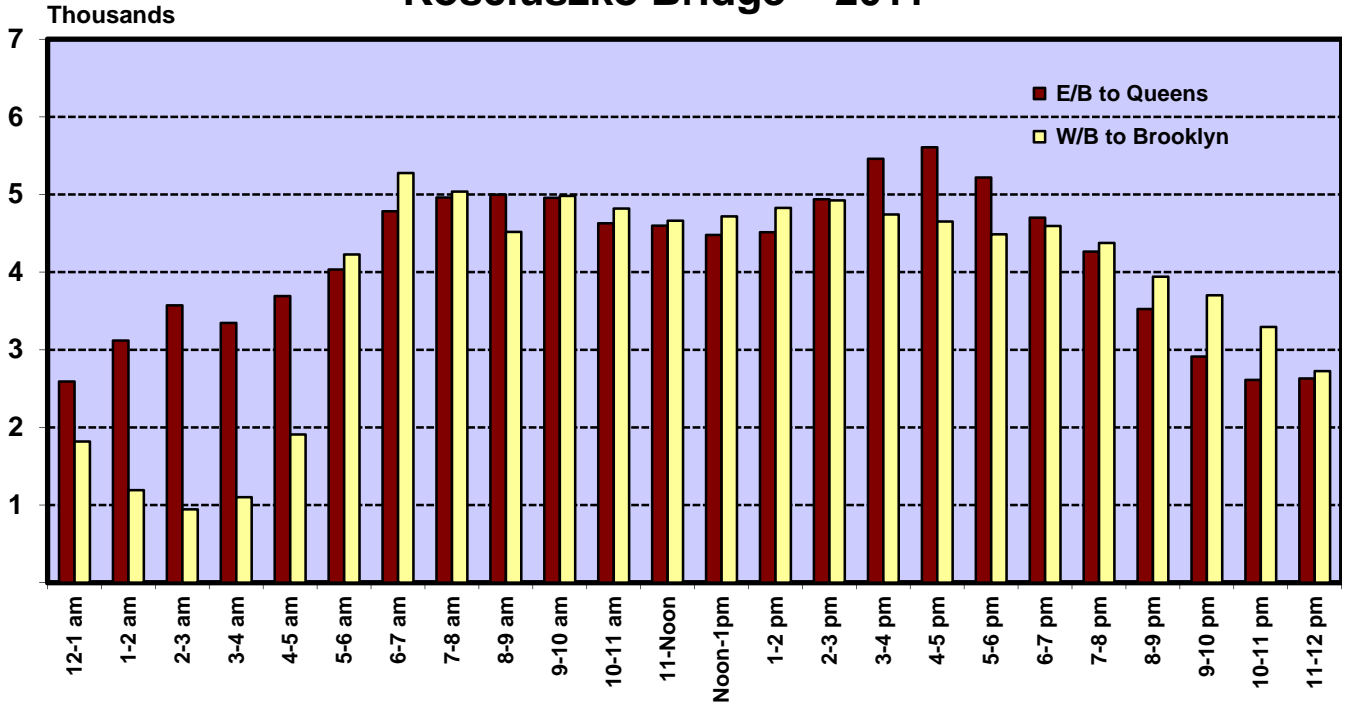
**Hourly Vehicular Volumes  
Kosciuszko Bridge - 2011**

	<i>Eastbound to Queens</i>					<i>Westbound to Brooklyn</i>					<b>2-Way Totals</b>		
	Autos	Buses	Commuter		Commercial Vans	Totals	Autos	Buses	Commuter			Commercial Vans	Totals
			Vans	Trucks					Vans	Trucks			
12-1am	---	---	---	---	---	2,592	---	---	---	---	---	1,819	
1-2am	---	---	---	---	---	3,119	---	---	---	---	---	1,191	
2-3am	---	---	---	---	---	3,573	---	---	---	---	---	944	
3-4am	---	---	---	---	---	3,346	---	---	---	---	---	1,101	
4-5am	---	---	---	---	---	3,692	---	---	---	---	---	1,909	
5-6am	---	---	---	---	---	4,033	---	---	---	---	---	4,227	
6-7am	---	---	---	---	---	4,784	---	---	---	---	---	5,276 **	
7-8am	4,091	54	110	429	277	4,961	4,305	12	58	340	322	5,037	
8-9am	4,094	19	130	454	302	4,999	3,801	12	32	359	314	4,518	
9-10am	4,023	40	116	440	339	4,958	4,008	15	63	523	373	4,982	
10-11am	4,020	22	111	267	210	4,630	4,351	7	36	256	169	4,819	
11-12am	3,417	11	185	572	414	4,599	3,708	7	72	572	304	4,663	
12-1pm	3,970	10	68	254	178	4,480	4,144	8	71	330	166	4,719	
1-2pm	3,504	35	110	472	393	4,514	3,719	10	88	607	404	4,828	
2-3pm	3,823	20	162	494	440	4,939	3,855	15	79	576	399	4,924	
3-4pm	5,009	17	81	116	237	5,460 **	4,305	18	23	230	166	4,742	
4-5pm	4,759	25	135	244	445	5,608	3,992	16	65	321	259	4,653	
5-6pm	4,513	18	89	318	281	5,219	3,859	7	44	298	279	4,487	
6-7pm	4,271	10	69	96	255	4,701	4,094	7	18	207	268	4,594	
7-8pm	---	---	---	---	---	4,265	---	---	---	---	---	4,376	
8-9pm	---	---	---	---	---	3,525	---	---	---	---	---	3,941	
9-10pm	---	---	---	---	---	2,913	---	---	---	---	---	3,702	
10-11pm	---	---	---	---	---	2,612	---	---	---	---	---	3,293	
11-12pm	---	---	---	---	---	2,631	---	---	---	---	---	2,726	
<b>Totals</b>	---	---	---	---	---	100,153	---	---	---	---	---	91,471	
7-10am	12,208	113	356	1,323	918	14,918	12,114	39	153	1,222	1,009	14,537	
10am-1pm	11,407	43	364	1,093	802	13,709	12,203	22	179	1,158	639	14,201	
1-4pm	12,336	72	353	1,082	1,070	14,913	11,879	43	190	1,413	969	14,494	
4-7pm	13,543	53	293	658	981	15,528	11,945	30	127	826	806	13,734	
7am-7pm	49,494	281	1,366	4,156	3,771	59,068	48,141	134	649	4,619	3,423	56,966	
6-10am	---	---	---	---	---	19,702	---	---	---	---	---	19,813	
3-7pm	18,552	70	374	774	1,218	20,988	16,250	48	150	1,056	972	18,476	
6am-7pm	---	---	---	---	---	63,852	---	---	---	---	---	62,242	

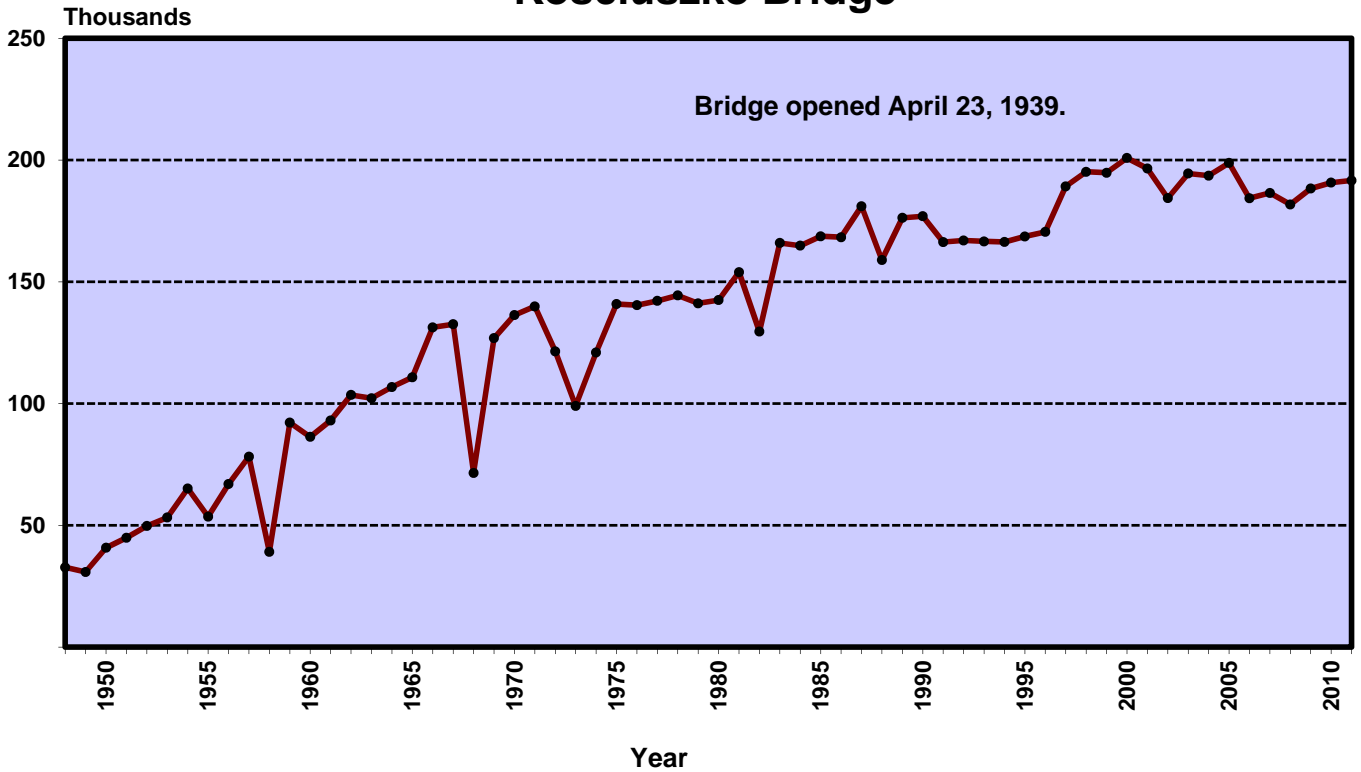
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Kosciuszko Bridge ~ 2011



## Average Daily Traffic Volumes ~ Total of Both Directions Kosciuszko Bridge



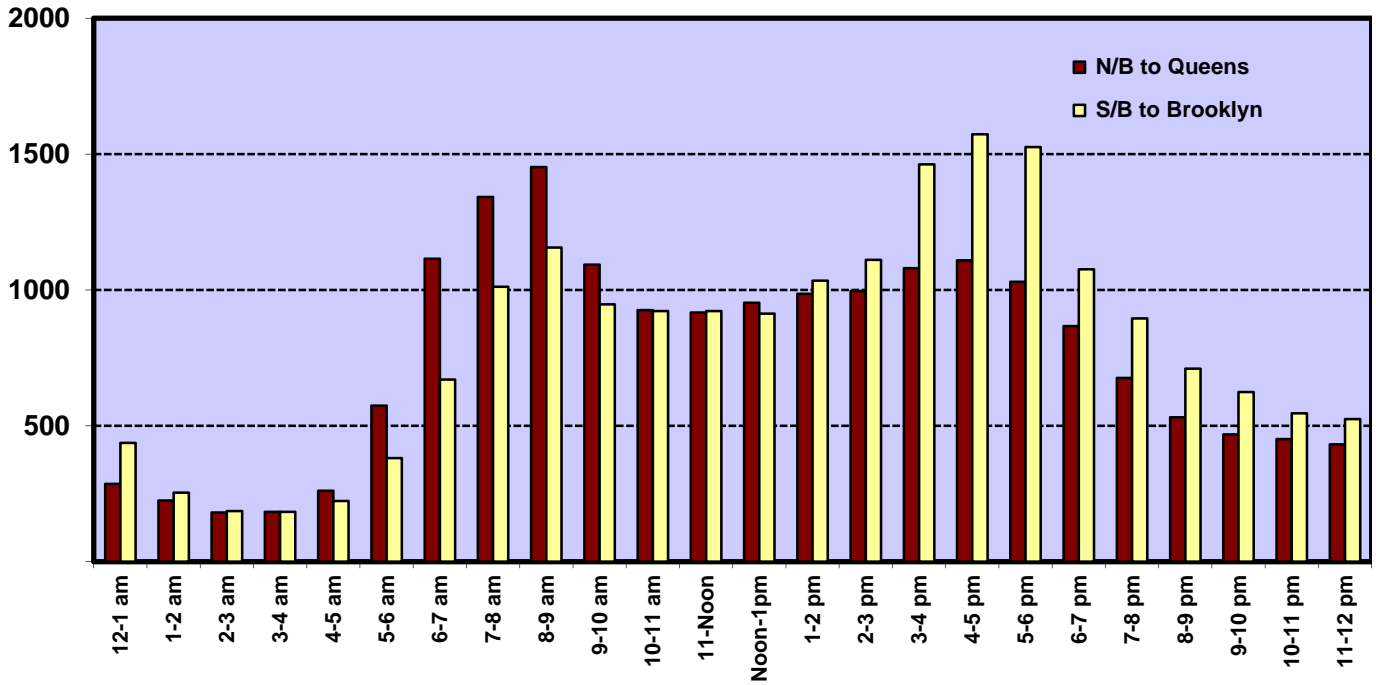
## Hourly Vehicular Volumes Pulaski Bridge - 2011

	Northbound to Queens						Southbound to Brooklyn						2-Way Totals
	Autos	Buses	Commuter		Commercial Vans	Totals	Autos	Buses	Commuter		Commercial Vans	Totals	
			Vans	Trucks					Vans	Trucks			
12-1am	---	---	---	---	---	286	---	---	---	---	---	437	723
1-2am	---	---	---	---	---	225	---	---	---	---	---	254	479
2-3am	---	---	---	---	181	---	---	---	---	---	---	186	367
3-4am	---	---	---	---	183	---	---	---	---	---	---	183	366
4-5am	---	---	---	---	261	---	---	---	---	---	---	223	484
5-6am	---	---	---	---	574	---	---	---	---	---	---	381	955
6-7am	---	---	---	---	1,115	---	---	---	---	---	---	670	1,785
7-8am	991	21	47	152	131	1,342	672	13	27	187	113	1,012	2,354
8-9am	1,051	18	41	194	148	1,452	735	14	37	207	163	1,156	2,608
9-10am	693	16	44	200	140	1,093	575	16	26	187	143	947	2,040
10-11am	709	12	23	105	77	926	730	11	20	95	66	922	1,848
11-12am	513	10	41	208	145	917	526	14	37	209	136	922	1,839
12-1pm	742	9	19	104	79	953	735	11	15	94	58	913	1,866
1-2pm	740	20	26	117	83	986	818	21	30	107	58	1,034	2,020
2-3pm	607	16	35	193	145	996	659	15	37	291	109	1,111	2,107
3-4pm	879	19	15	95	72	1,080	1,209	21	28	117	87	1,462	2,542
4-5pm	834	10	35	106	124	1,109	1,205	12	49	167	140	1,573	2,682
5-6pm	847	7	39	38	99	1,030	1,255	10	34	111	116	1,526	2,556
6-7pm	686	12	32	56	81	867	905	10	23	65	73	1,076	1,943
7-8pm	---	---	---	---	---	676	---	---	---	---	---	895	1,571
8-9pm	---	---	---	---	---	531	---	---	---	---	---	710	1,241
9-10pm	---	---	---	---	---	468	---	---	---	---	---	624	1,092
10-11pm	---	---	---	---	---	451	---	---	---	---	---	546	997
11-12pm	---	---	---	---	---	432	---	---	---	---	---	525	957
Totals	---	---	---	---	---	18,134	---	---	---	---	---	19,288	37,422
7-10am	2,735	55	132	546	419	3,887	1,982	43	90	581	419	3,115	7,002
10am-1pm	1,964	31	83	417	301	2,796	1,991	36	72	398	260	2,757	5,553
1-4pm	2,226	55	76	405	300	3,062	2,686	57	95	515	254	3,607	6,669
4-7pm	2,367	29	106	200	304	3,006	3,365	32	106	343	329	4,175	7,181
7am-7pm	9,292	170	397	1,568	1,324	12,751	10,024	168	363	1,837	1,262	13,654	26,405
6-10am	---	---	---	---	---	5,002	---	---	---	---	---	3,785	8,787
3-7pm	3,246	48	121	295	376	4,086	4,574	53	134	460	416	5,637	9,723
6am-7pm	---	---	---	---	---	13,866	---	---	---	---	---	14,324	28,190

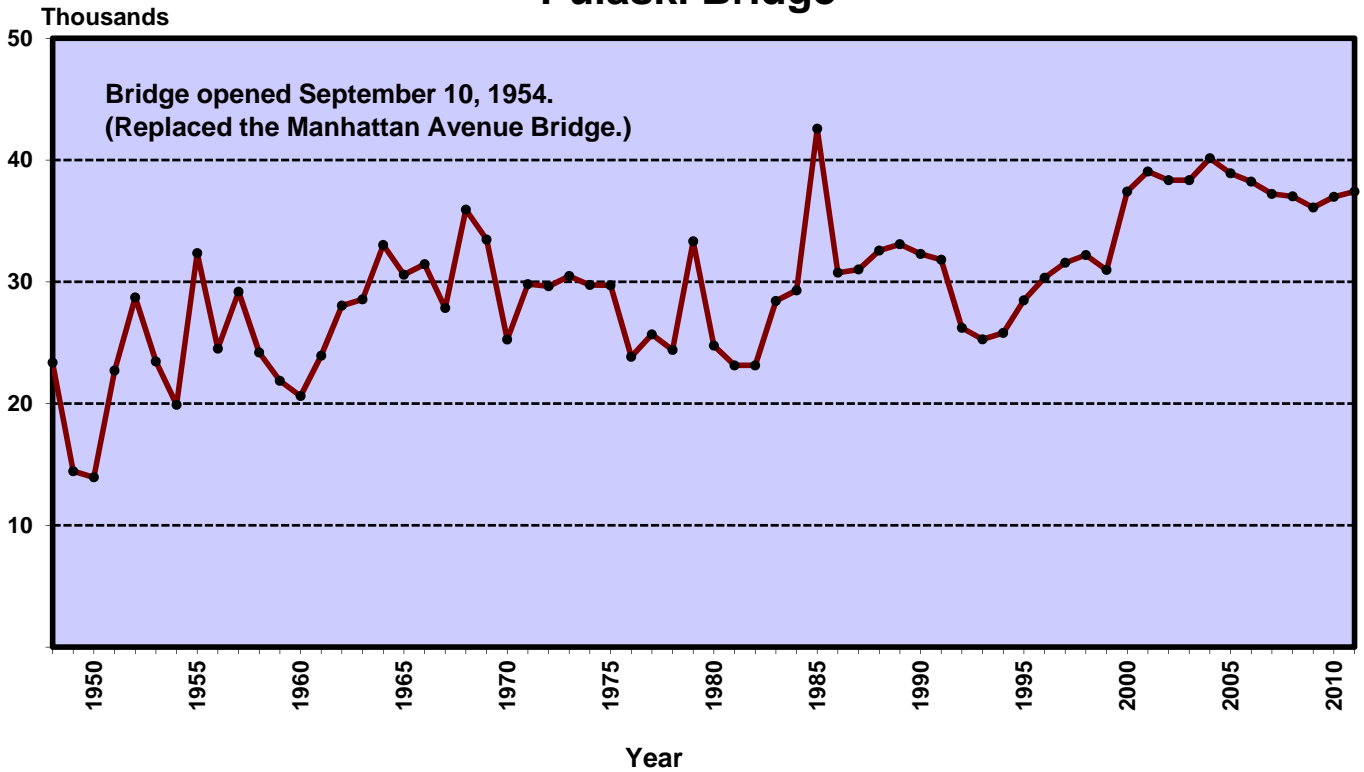
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Pulaski Bridge ~ 2011



## Average Daily Traffic Volumes ~ Total of Both Directions Pulaski Bridge





# Bronx Bridges



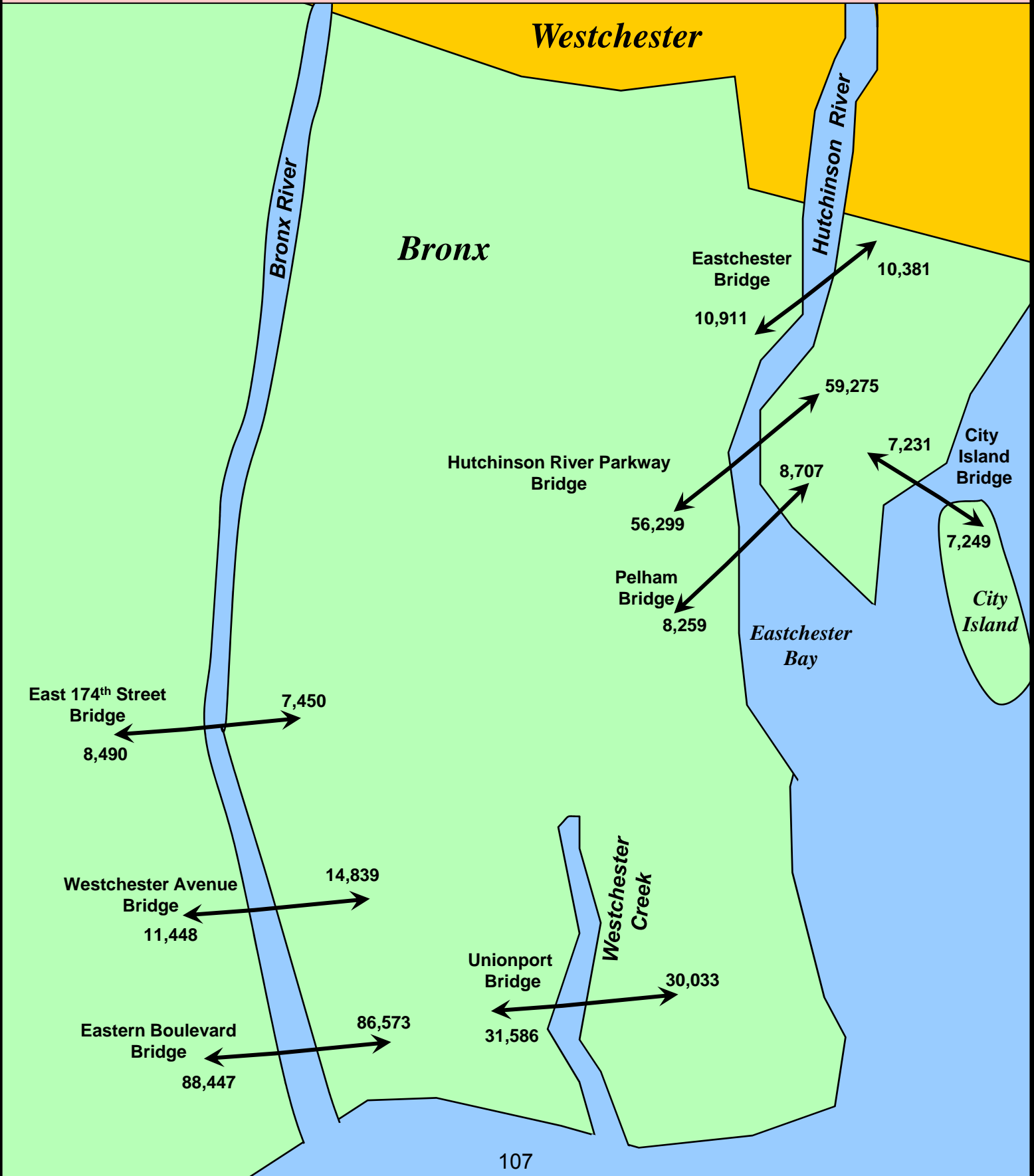
Hutchinson River Parkway Bridge





# Bronx Bridges

## 2011 Daily Volumes



**Bronx Bridges**  
**Average Daily Traffic Volumes**  
**1948 - 2011**

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

**Bronx Bridges (cont'd)**  
**Average Daily Traffic Volumes**  
**1948 - 2011**

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

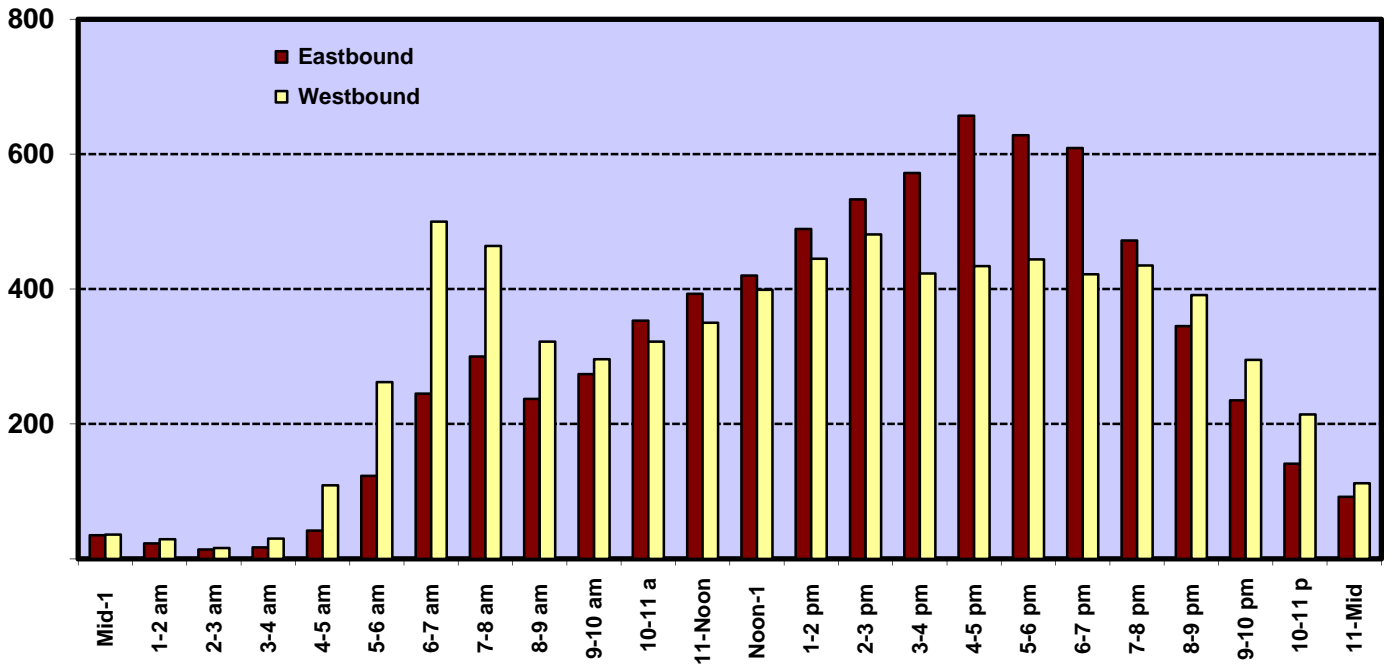
### Hourly Vehicular Volumes City Island Bridge - 2011

	Eastbound					Westbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	35	---	---	---	---	---	36
1-2am	---	---	---	---	---	23	---	---	---	---	---	29
2-3am	---	---	---	---	14	14	---	---	---	---	---	16
3-4am	---	---	---	---	17	17	---	---	---	---	---	30
4-5am	---	---	---	---	42	42	---	---	---	---	---	109
5-6am	---	---	---	---	123	123	---	---	---	---	---	262
6-7am	---	---	---	---	245	245	---	---	---	---	---	500 **
7-8am	249	10	14	6	21	300	420	9	0	17	18	464
8-9am	184	11	9	6	27	237	280	10	0	10	22	322
9-10am	230	4	4	8	28	274	268	4	0	8	16	296
10-11am	330	0	5	8	10	353	308	3	1	8	2	322
11-12am	336	5	10	7	35	393	338	6	0	2	4	350
12-1pm	388	2	8	3	19	420	383	9	0	5	2	399
1-2pm	457	3	1	6	22	489	417	2	0	6	20	445
2-3pm	446	10	14	21	42	533	414	11	2	22	32	481
3-4pm	535	11	6	7	13	572	399	12	0	4	8	423
4-5pm	572	3	24	12	46	657 **	401	2	0	7	24	434
5-6pm	582	6	12	7	21	628	414	4	0	9	17	444
6-7pm	576	4	5	9	15	609	399	6	0	7	10	422
7-8pm	---	---	---	---	---	472	---	---	---	---	---	435
8-9pm	---	---	---	---	---	345	---	---	---	---	---	391
9-10pm	---	---	---	---	---	235	---	---	---	---	---	295
10-11pm	---	---	---	---	---	141	---	---	---	---	---	214
11-12pm	---	---	---	---	---	92	---	---	---	---	---	112
Totals	---	---	---	---	---	7,249	---	---	---	---	---	7,231
7-10am	663	25	27	20	76	811	968	23	0	35	56	1,082
10am-1pm	1,054	7	23	18	64	1,166	1,029	18	1	15	8	1,071
1-4pm	1,438	24	21	34	77	1,594	1,230	25	2	32	60	1,349
4-7pm	1,730	13	41	28	82	1,894	1,214	12	0	23	51	1,300
7am-7pm	4,885	69	112	100	299	5,465	4,441	78	3	105	175	4,802
6-10am	---	---	---	---	---	1,056	---	---	---	---	---	1,582
3-7pm	2,265	24	47	35	95	2,466	1,613	24	0	27	59	1,723
6am-7pm	---	---	---	---	---	5,710	---	---	---	---	---	5,302

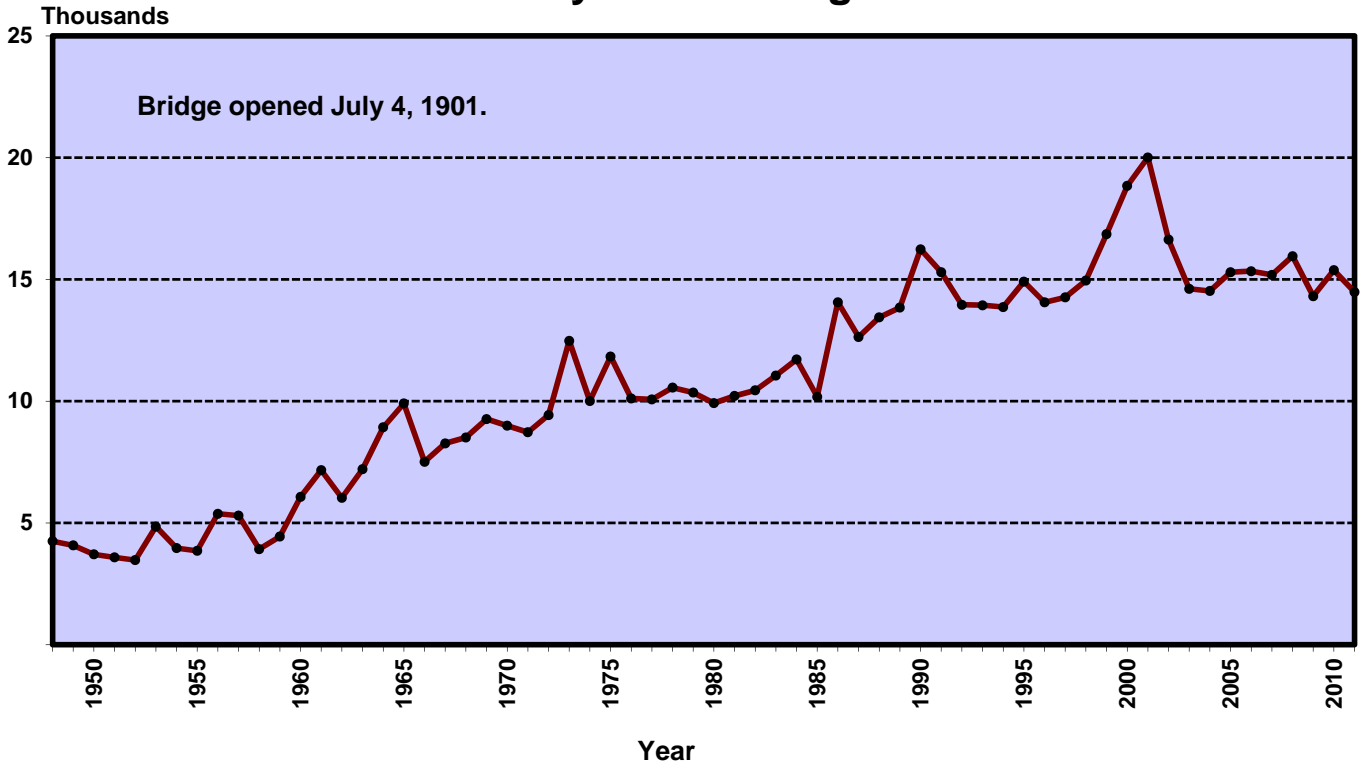
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes City Island Bridge ~ 2011



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



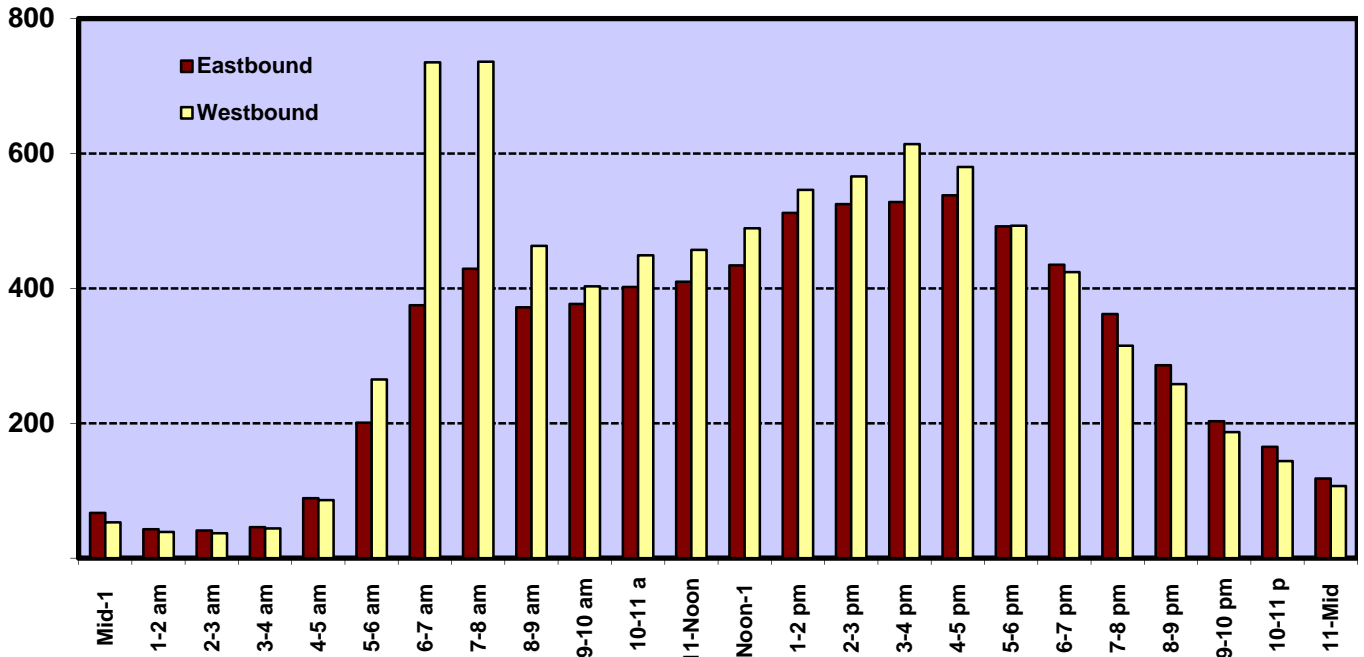
### Hourly Vehicular Volumes East 174th Street Bridge - 2011

	Eastbound					Westbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	67	---	---	---	---	---	53
1-2am	---	---	---	---	---	43	---	---	---	---	---	39
2-3am	---	---	---	---	---	41	---	---	---	---	---	37
3-4am	---	---	---	---	---	46	---	---	---	---	---	44
4-5am	---	---	---	---	---	89	---	---	---	---	---	86
5-6am	---	---	---	---	---	201	---	---	---	---	---	265
6-7am	---	---	---	---	---	375	---	---	---	---	---	735
7-8am	354	32	11	15	17	429	629	33	23	9	42	736 **
8-9am	283	42	9	27	11	372	388	20	18	9	28	463
9-10am	298	29	11	18	21	377	337	15	11	9	31	403
10-11am	345	21	7	17	12	402	401	34	6	6	2	449
11-12am	292	25	25	37	31	410	369	16	5	30	37	457
12-1pm	375	12	12	18	17	434	439	24	6	9	11	489
1-2pm	453	13	14	14	18	512	494	22	9	7	14	546
2-3pm	404	34	26	38	23	525	446	43	17	22	38	566
3-4pm	461	32	11	12	12	528	529	44	10	2	29	614
4-5pm	454	12	22	27	23	538 **	498	19	16	16	31	580
5-6pm	435	11	12	17	17	492	442	17	12	1	21	493
6-7pm	387	17	6	10	15	435	383	12	12	3	14	424
7-8pm	---	---	---	---	---	362	---	---	---	---	---	315
8-9pm	---	---	---	---	---	286	---	---	---	---	---	258
9-10pm	---	---	---	---	---	203	---	---	---	---	---	187
10-11pm	---	---	---	---	---	165	---	---	---	---	---	144
11-12pm	---	---	---	---	---	118	---	---	---	---	---	107
Totals	---	---	---	---	---	7,450	---	---	---	---	---	8,490
7-10am	935	103	31	60	49	1,178	1,354	68	52	27	101	1,602
10am-1pm	1,012	58	44	72	60	1,246	1,209	74	17	45	50	1,395
1-4pm	1,318	79	51	64	53	1,565	1,469	109	36	31	81	1,726
4-7pm	1,276	40	40	54	55	1,465	1,323	48	40	20	66	1,497
7am-7pm	4,541	280	166	250	217	5,454	5,355	299	145	123	298	6,220
6-10am	---	---	---	---	---	1,553	---	---	---	---	---	2,337
3-7pm	1,737	72	51	66	67	1,993	1,852	92	50	22	95	2,111
6am-7pm	---	---	---	---	---	5,829	---	---	---	---	---	6,955

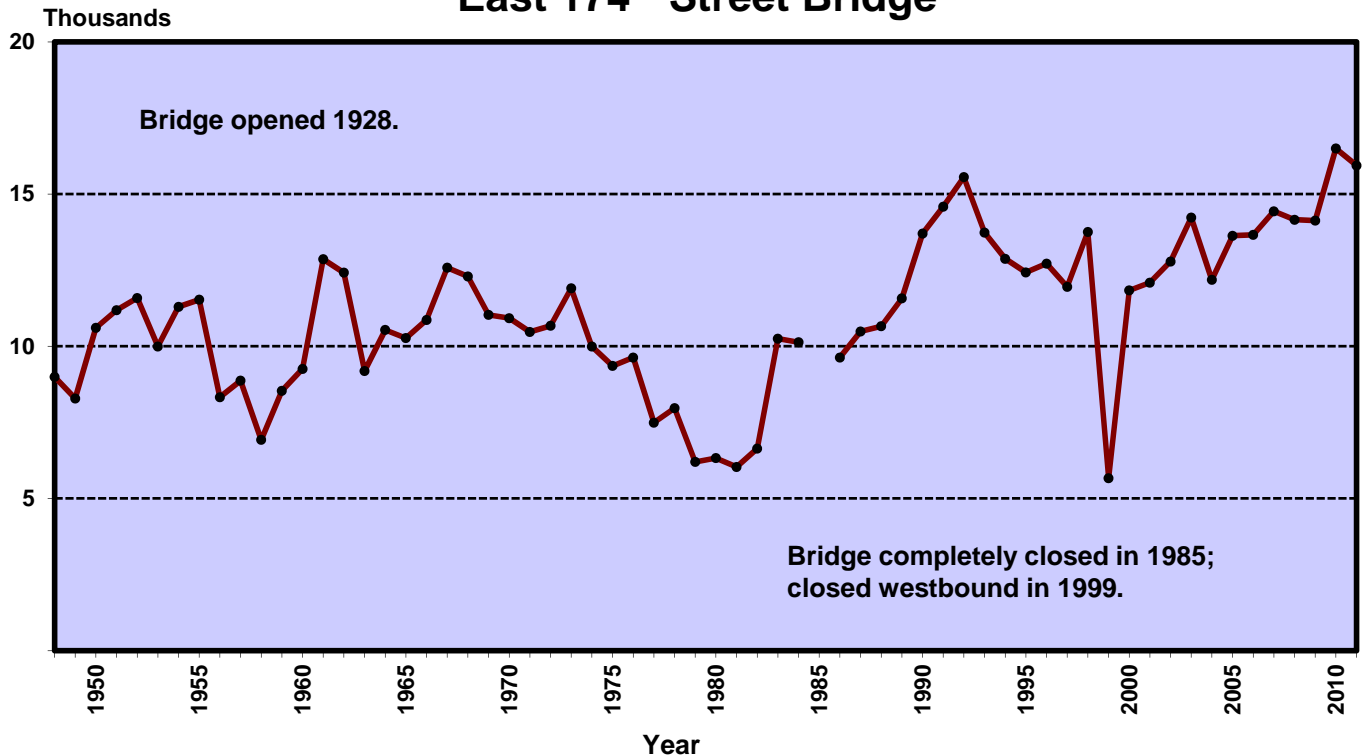
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes East 174<sup>th</sup> Street Bridge ~ 2011



## Average Daily Traffic Volumes ~ Total of Both Directions East 174<sup>th</sup> Street Bridge



### Hourly Vehicular Volumes Eastchester Bridge - 2011

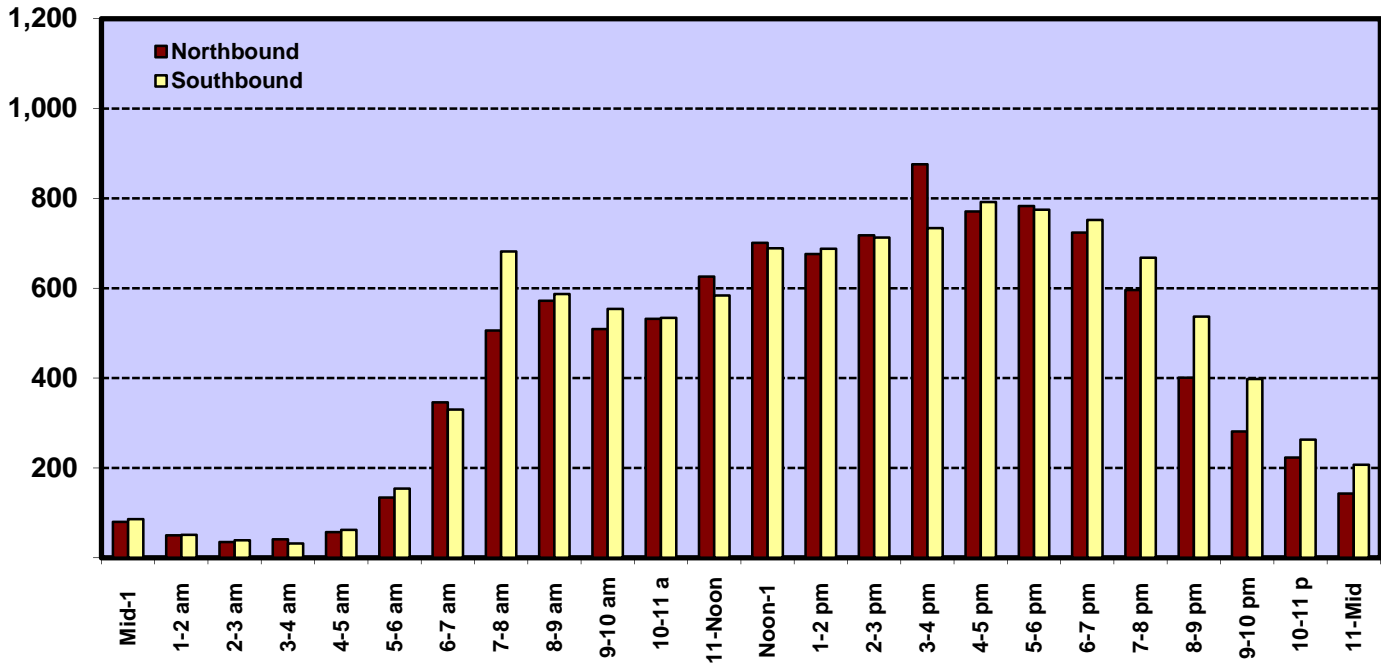
	Northbound					Southbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	80	---	---	---	---	---	86
1-2am	---	---	---	---	---	50	---	---	---	---	---	51
2-3am	---	---	---	---	---	35	---	---	---	---	---	39
3-4am	---	---	---	---	---	41	---	---	---	---	---	32
4-5am	---	---	---	---	---	57	---	---	---	---	---	62
5-6am	---	---	---	---	---	134	---	---	---	---	---	154
6-7am	---	---	---	---	---	346	---	---	---	---	---	330
7-8am	446	14	0	26	20	506	562	10	10	78	22	682
8-9am	484	12	0	42	34	572	460	12	14	76	25	587
9-10am	430	14	0	36	29	509	366	17	18	113	40	554
10-11am	487	6	0	21	18	532	463	7	13	34	17	534
11-12am	548	5	0	34	39	626	449	8	15	77	35	584
12-1pm	658	8	0	12	23	701	628	7	6	30	18	689
1-2pm	638	7	0	13	18	676	629	7	4	37	11	688
2-3pm	647	15	0	34	22	718	559	10	14	103	27	713
3-4pm	818	15	0	22	21	876	658	15	9	41	11	734
4-5pm	704	9	0	23	35	771	709	8	15	40	20	792
5-6pm	712	9	0	25	37	783	695	8	11	35	26	775
6-7pm	684	12	0	13	15	724	685	17	8	34	8	752
7-8pm	---	---	---	---	---	596	---	---	---	---	---	668
8-9pm	---	---	---	---	---	401	---	---	---	---	---	537
9-10pm	---	---	---	---	---	281	---	---	---	---	---	398
10-11pm	---	---	---	---	---	223	---	---	---	---	---	263
11-12pm	---	---	---	---	---	143	---	---	---	---	---	207
Totals	---	---	---	---	---	10,381	---	---	---	---	---	10,911
7-10am	1,360	40	0	104	83	1,587	1,388	39	42	267	87	1,823
10am-1pm	1,693	19	0	67	80	1,859	1,540	22	34	141	70	1,807
1-4pm	2,103	37	0	69	61	2,270	1,846	32	27	181	49	2,135
4-7pm	2,100	30	0	61	87	2,278	2,089	33	34	109	54	2,319
7am-7pm	7,256	126	0	301	311	7,994	6,863	126	137	698	260	8,084
6-10am	---	---	---	---	---	1,933	---	---	---	---	---	2,153
3-7pm	2,918	45	0	83	108	3,154	2,747	48	43	150	65	3,053
6am-7pm	---	---	---	---	---	8,340	---	---	---	---	---	8,414

Based on 1989 Classification Survey Data

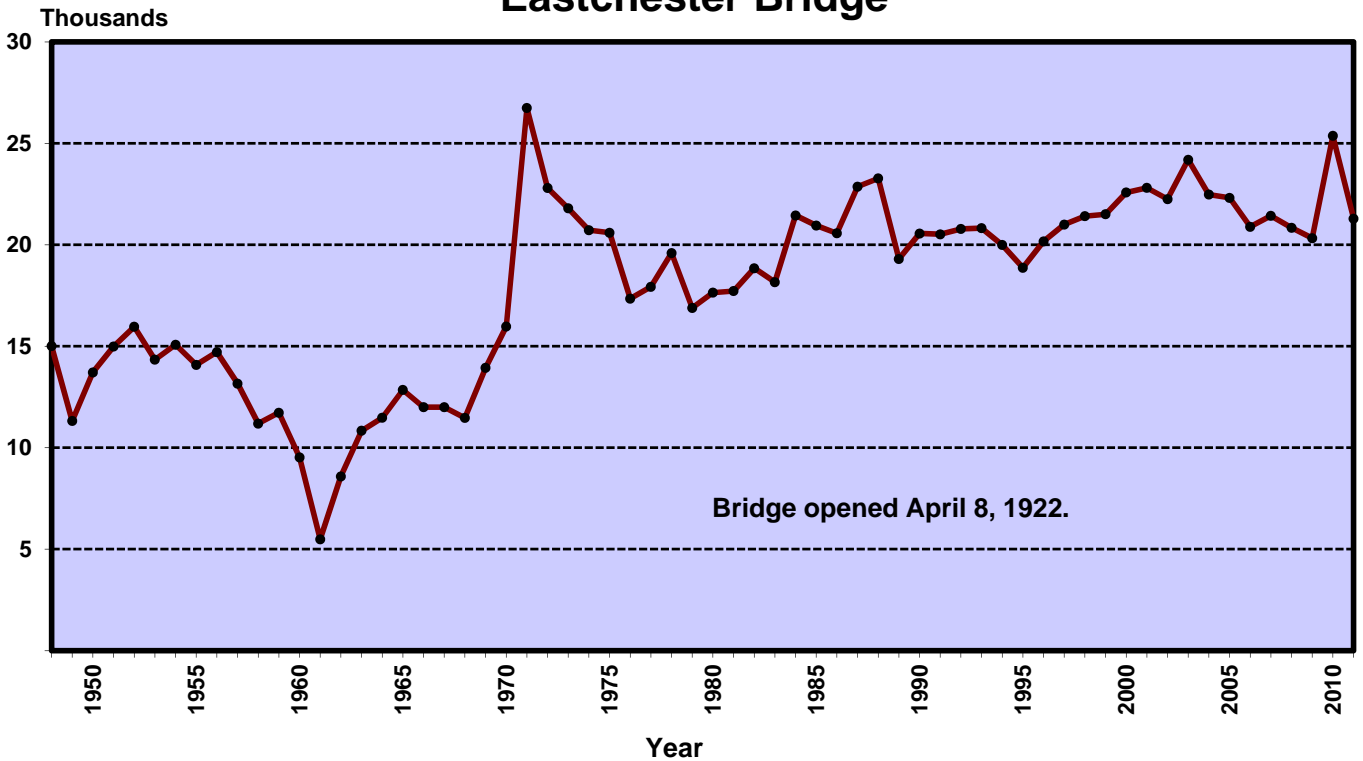
\*\* Peak Volumes



## Hourly Vehicular Volumes Eastchester Bridge ~ 2011



## Average Daily Traffic Volumes ~ Total of Both Directions Eastchester Bridge



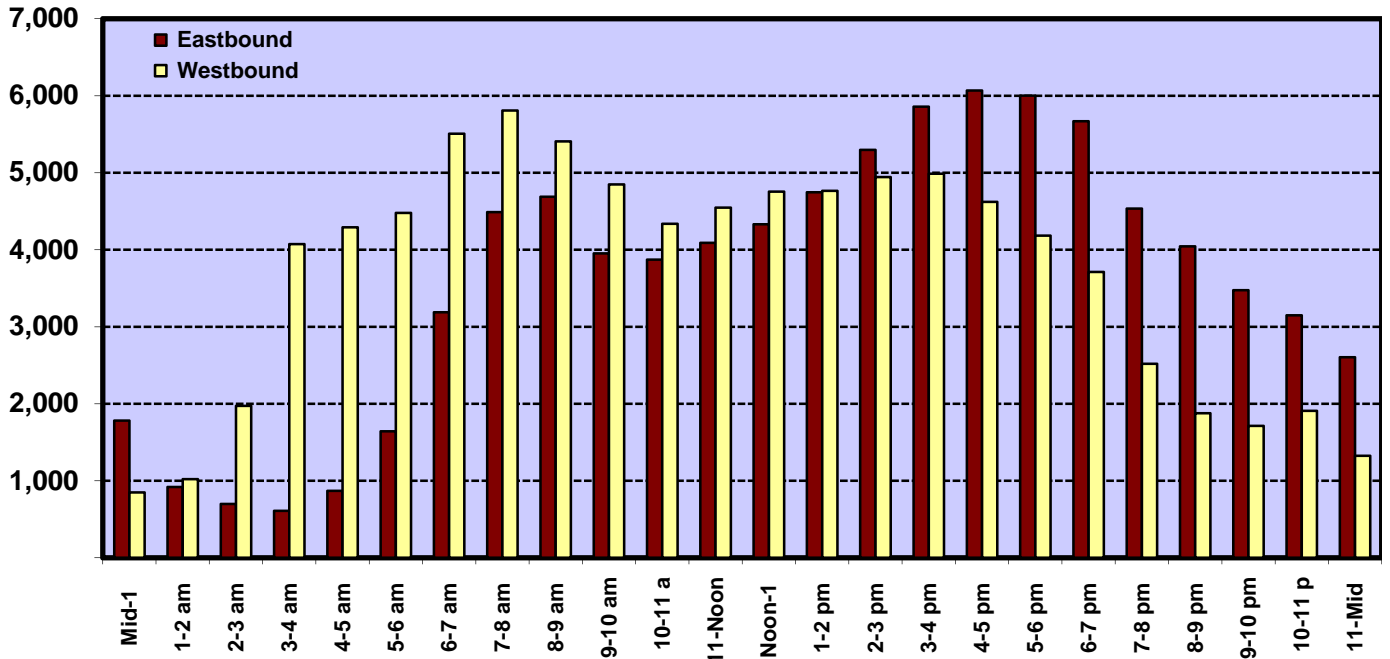
## Hourly Vehicular Volumes Eastern Boulevard Bridge - 2011

	Eastbound					Westbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	1,781	---	---	---	---	---	849
1-2am	---	---	---	---	---	919	---	---	---	---	---	1,021
2-3am	---	---	---	---	---	698	---	---	---	---	---	1,972
3-4am	---	---	---	---	---	610	---	---	---	---	---	4,074
4-5am	---	---	---	---	---	869	---	---	---	---	---	4,291
5-6am	---	---	---	---	---	1,642	---	---	---	---	---	4,478
6-7am	---	---	---	---	---	3,188	---	---	---	---	---	5,507
7-8am	3,796	57	71	426	139	4,489	5,043	92	110	324	238	5,807 **
8-9am	3,728	108	100	529	224	4,689	4,579	65	123	390	251	5,408
9-10am	3,042	96	109	509	197	3,953	4,199	43	78	306	222	4,848
10-11am	3,409	25	50	280	107	3,871	3,997	35	52	158	94	4,336
11-12am	3,234	16	147	432	261	4,090	3,898	26	109	301	212	4,546
12-1pm	3,902	21	70	214	124	4,331	4,400	29	36	184	105	4,754
1-2pm	4,469	29	1	157	90	4,746	4,405	57	60	179	63	4,764
2-3pm	4,787	43	0	269	198	5,297	4,249	116	92	352	135	4,944
3-4pm	5,575	40	0	148	94	5,857	4,646	67	42	181	52	4,988
4-5pm	5,555	36	0	293	184	6,068 **	3,990	97	115	265	155	4,622
5-6pm	5,689	58	0	90	165	6,002	3,819	29	115	147	74	4,184
6-7pm	5,334	43	0	148	143	5,668	3,499	31	63	70	49	3,712
7-8pm	---	---	---	---	---	4,535	---	---	---	---	---	2,520
8-9pm	---	---	---	---	---	4,044	---	---	---	---	---	1,876
9-10pm	---	---	---	---	---	3,474	---	---	---	---	---	1,713
10-11pm	---	---	---	---	---	3,148	---	---	---	---	---	1,908
11-12pm	---	---	---	---	---	2,604	---	---	---	---	---	1,325
Totals	---	---	---	---	---	86,573	---	---	---	---	---	88,447
7-10am	10,566	261	280	1,464	560	13,131	13,821	200	311	1,020	711	16,063
10am-1pm	10,545	62	267	926	492	12,292	12,295	90	197	643	411	13,636
1-4pm	14,831	112	1	574	382	15,900	13,300	240	194	712	250	14,696
4-7pm	16,578	137	0	531	492	17,738	11,308	157	293	482	278	12,518
7am-7pm	52,520	572	548	3,495	1,926	59,061	50,724	687	995	2,857	1,650	56,913
6-10am	---	---	---	---	---	16,319	---	---	---	---	---	21,570
3-7pm	22,153	177	0	679	586	23,595	15,954	224	335	663	330	17,506
6am-7pm	---	---	---	---	---	62,249	---	---	---	---	---	62,420

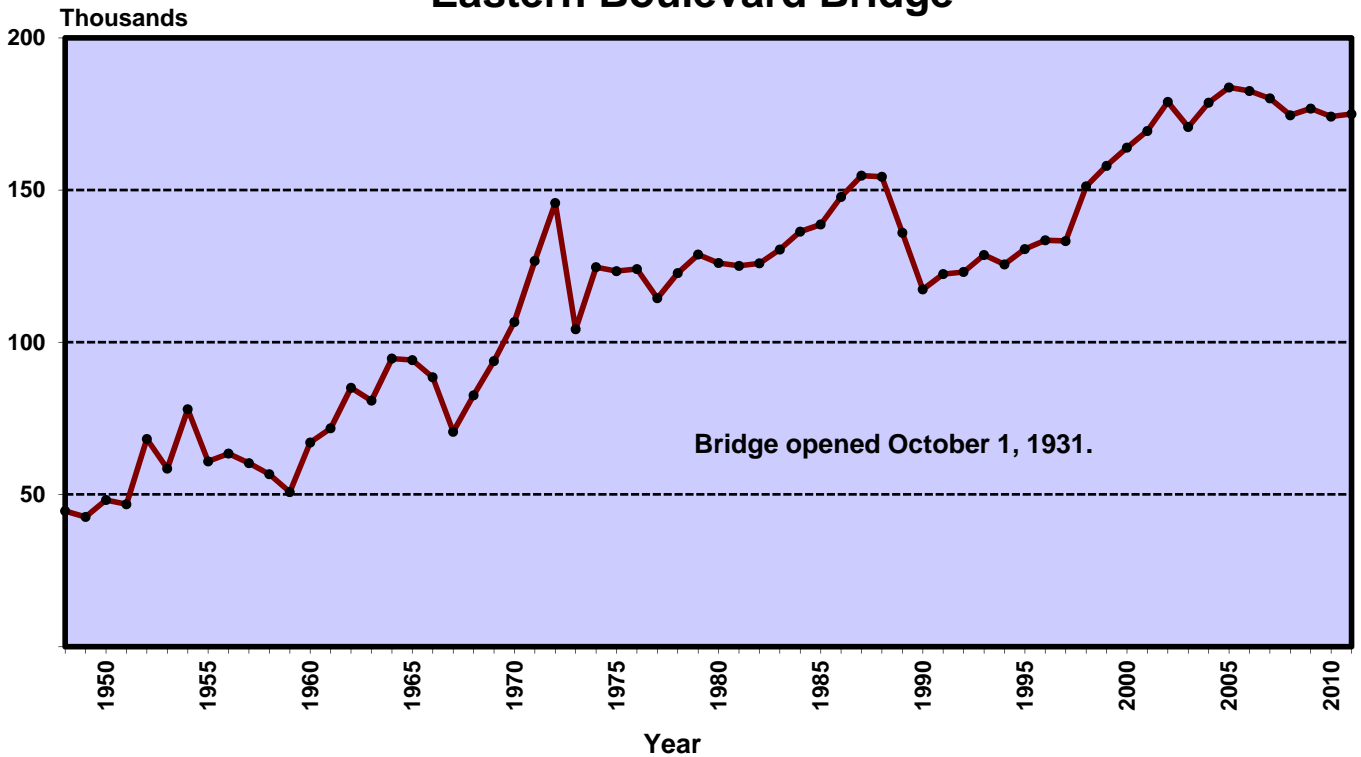
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Eastern Boulevard Bridge ~ 2011



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



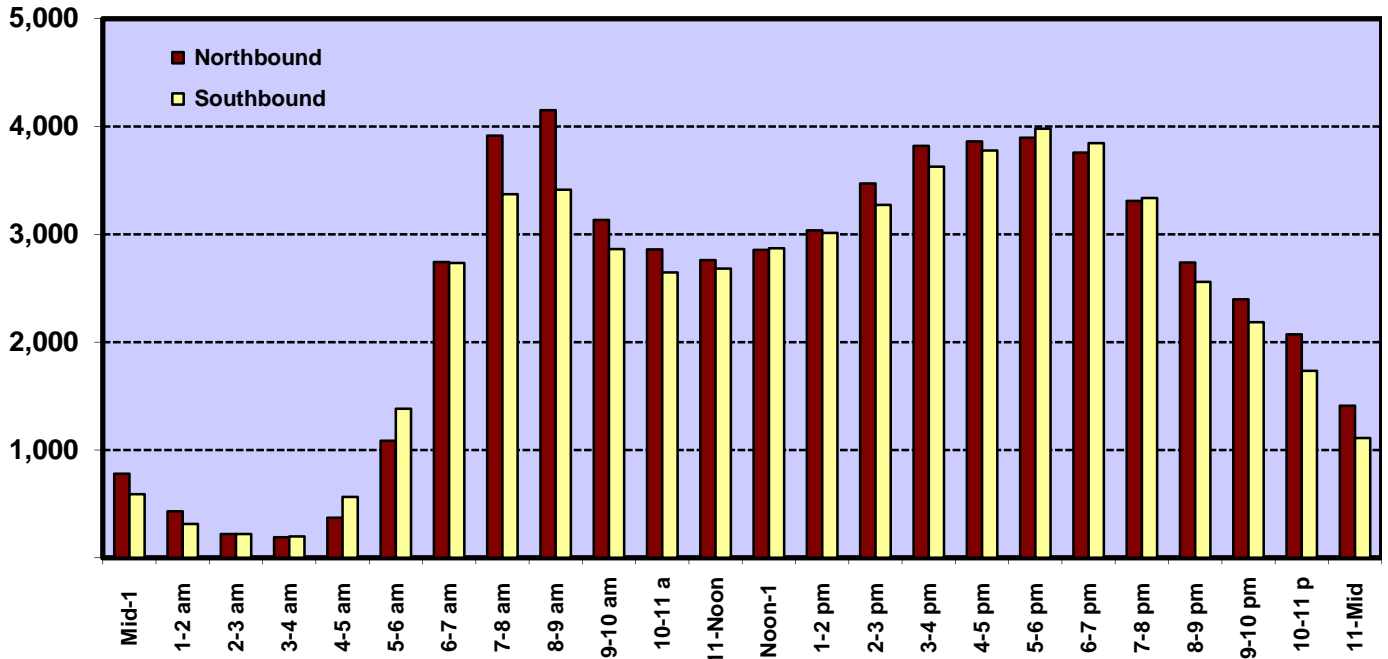
## Hourly Vehicular Volumes Hutchinson River Parkway Bridge - 2011

	Northbound						Southbound						2-Way Totals
	Autos	Buses	Commuter		Commercial		Autos	Buses	Commuter		Commercial		
			Vans	Trucks	Vans	Trucks			Vans	Trucks	Totals		
12-1am	---	---	---	---	---	---	---	---	---	---	---	---	590
1-2am	---	---	---	---	---	---	---	---	---	---	---	---	314
2-3am	---	---	---	---	---	---	---	---	---	---	---	---	220
3-4am	---	---	---	---	---	---	---	---	---	---	---	---	198
4-5am	---	---	---	---	---	---	---	---	---	---	---	---	565
5-6am	---	---	---	---	---	1,085	---	---	---	---	---	---	1,383
6-7am	---	---	---	---	---	2,743	---	---	---	---	---	---	2,735
7-8am	3,617	3	93	135	67	3,915	3,259	1	16	8	89	3,373	7,288
8-9am	3,888	7	69	134	53	4,151	3,335	2	5	6	66	3,414	7,565
9-10am	2,885	1	81	102	65	3,134	2,753	7	12	11	81	2,864	5,998
10-11am	2,723	3	37	63	34	2,860	2,605	3	6	6	27	2,647	5,507
11-12am	2,471	0	113	108	69	2,761	2,542	0	9	11	120	2,682	5,443
12-1pm	2,739	0	33	57	27	2,856	2,825	0	3	3	40	2,871	5,727
1-2pm	2,870	7	53	73	34	3,037	2,936	6	8	0	64	3,014	6,051
2-3pm	3,105	5	122	173	67	3,472	3,138	6	14	6	109	3,273	6,745
3-4pm	3,658	3	55	71	34	3,821	3,543	11	3	3	67	3,627	7,448
4-5pm	3,484	1	82	218	77	3,862	3,694	0	16	0	68	3,778	7,640
5-6pm	3,620	1	81	135	60	3,897	3,874	0	10	8	87	3,979	7,876
6-7pm	3,525	0	72	101	60	3,758	3,751	0	15	2	78	3,846	7,604
7-8pm	---	---	---	---	---	3,310	---	---	---	---	---	---	3,337
8-9pm	---	---	---	---	---	2,739	---	---	---	---	---	---	2,559
9-10pm	---	---	---	---	---	2,397	---	---	---	---	---	---	2,185
10-11pm	---	---	---	---	---	2,073	---	---	---	---	---	---	1,734
11-12pm	---	---	---	---	---	1,410	---	---	---	---	---	---	1,111
Totals	---	---	---	---	---	59,275	---	---	---	---	---	---	56,299
7-10am	10,390	11	243	371	185	11,200	9,347	10	33	25	236	9,651	20,851
10am-1pm	7,933	3	183	228	130	8,477	7,972	3	18	20	187	8,200	16,677
1-4pm	9,633	15	230	317	135	10,330	9,617	23	25	9	240	9,914	20,244
4-7pm	10,629	2	235	454	197	11,517	11,319	0	41	10	233	11,603	23,120
7am-7pm	38,585	31	891	1,370	647	41,524	38,255	36	117	64	896	39,368	80,892
6-10am	---	---	---	---	---	13,943	---	---	---	---	---	---	12,386
3-7pm	14,287	5	290	525	231	15,338	14,862	11	44	13	300	15,230	30,568
6am-7pm	---	---	---	---	---	44,267	---	---	---	---	---	---	42,103

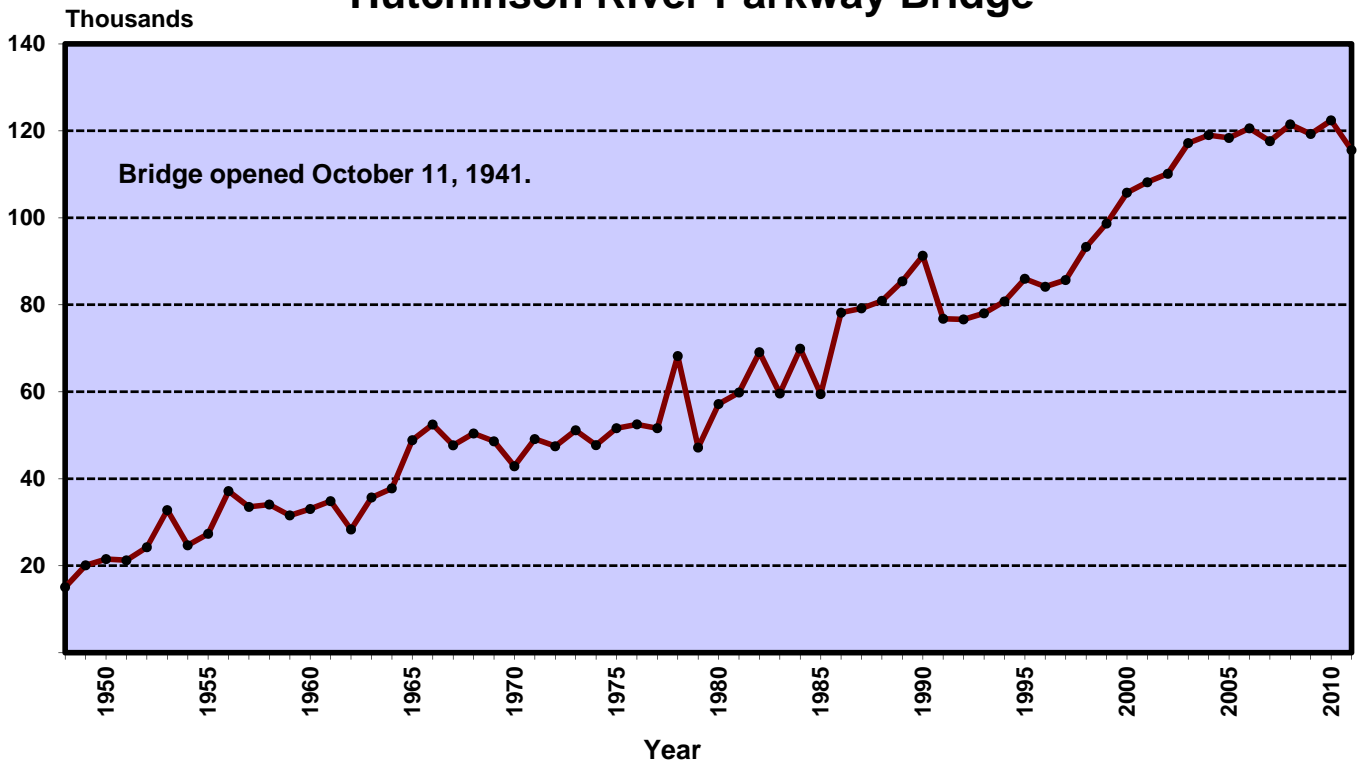
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Hutchinson River Parkway Bridge ~ 2011



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



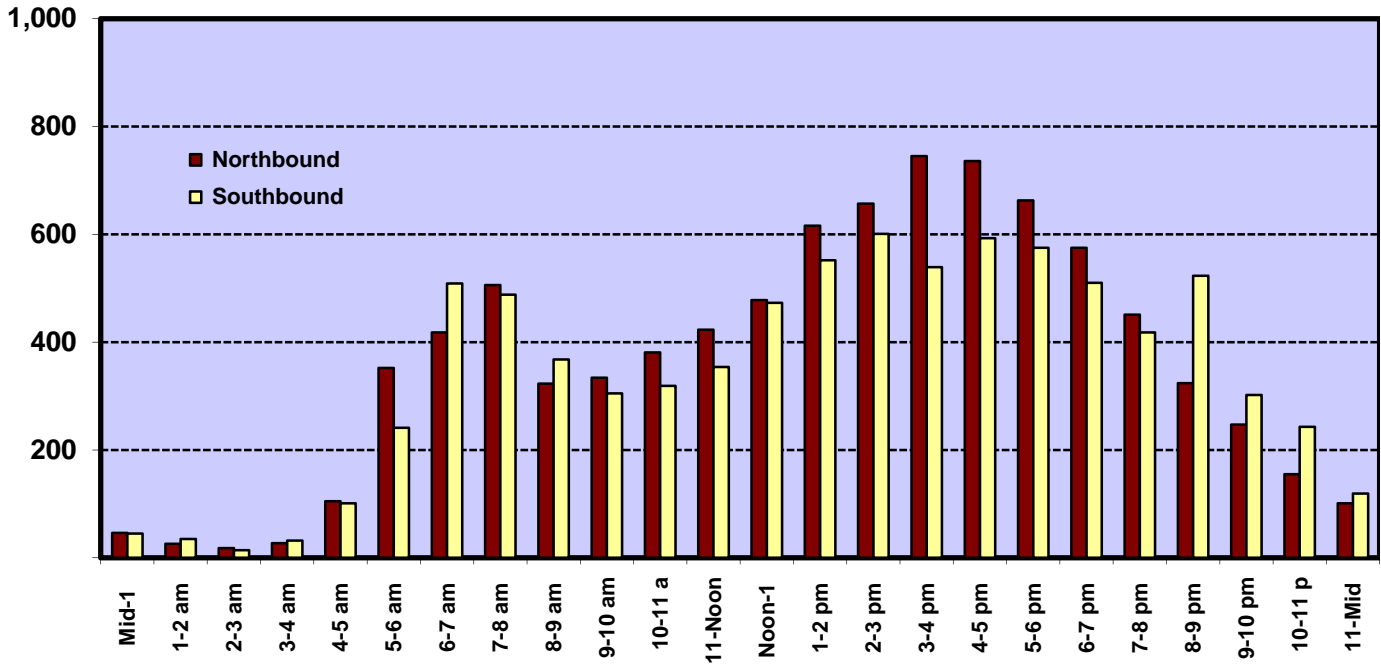
**Hourly Vehicular Volumes  
Pelham Bridge - 2011**

	<i>Northbound</i>					<i>Southbound</i>					<b>2-Way Totals</b>	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	46	---	---	---	---	---	45
1-2am	---	---	---	---	---	26	---	---	---	---	---	35
2-3am	---	---	---	---	---	18	---	---	---	---	---	14
3-4am	---	---	---	---	---	27	---	---	---	---	---	32
4-5am	---	---	---	---	---	105	---	---	---	---	---	101
5-6am	---	---	---	---	---	352	---	---	---	---	---	241
6-7am	---	---	---	---	---	418	---	---	---	---	---	509
7-8am	421	19	15	30	21	506	425	14	10	20	19	488
8-9am	264	12	4	23	20	323	296	12	9	26	25	368
9-10am	281	6	2	21	24	334	252	4	6	27	16	305
10-11am	325	2	3	29	22	381	275	6	9	9	20	319
11-12am	361	5	6	21	30	423	266	4	10	52	22	354
12-1pm	446	10	2	5	15	478	439	13	3	11	7	473
1-2pm	580	8	0	17	11	616	504	9	8	19	12	552
2-3pm	559	22	9	32	35	657	527	14	7	32	21	601
3-4pm	685	16	1	17	26	745	489	20	5	15	10	539
4-5pm	671	6	5	17	37	736	550	7	2	18	16	593
5-6pm	602	8	3	19	31	663	509	13	14	12	27	575
6-7pm	538	8	3	4	22	575	465	7	11	16	11	510
7-8pm	---	---	---	---	---	451	---	---	---	---	---	418
8-9pm	---	---	---	---	---	324	---	---	---	---	---	523
9-10pm	---	---	---	---	---	247	---	---	---	---	---	302
10-11pm	---	---	---	---	---	155	---	---	---	---	---	243
11-12pm	---	---	---	---	---	101	---	---	---	---	---	119
<b>Totals</b>	---	---	---	---	---	<b>8,707</b>	---	---	---	---	---	<b>8,259</b>
7-10am	966	37	21	74	65	1,163	973	30	25	73	60	1,161
10am-1pm	1,132	17	11	55	67	1,282	980	23	22	72	49	1,146
1-4pm	1,824	46	10	66	72	2,018	1,520	43	20	66	43	1,692
4-7pm	1,811	22	11	40	90	1,974	1,524	27	27	46	54	1,678
7am-7pm	5,733	122	53	235	294	6,437	4,997	123	94	257	206	5,677
6-10am	---	---	---	---	---	1,581	---	---	---	---	---	1,670
3-7pm	2,496	38	12	57	116	2,719	2,013	47	32	61	64	2,217
6am-7pm	---	---	---	---	---	6,855	---	---	---	---	---	6,186

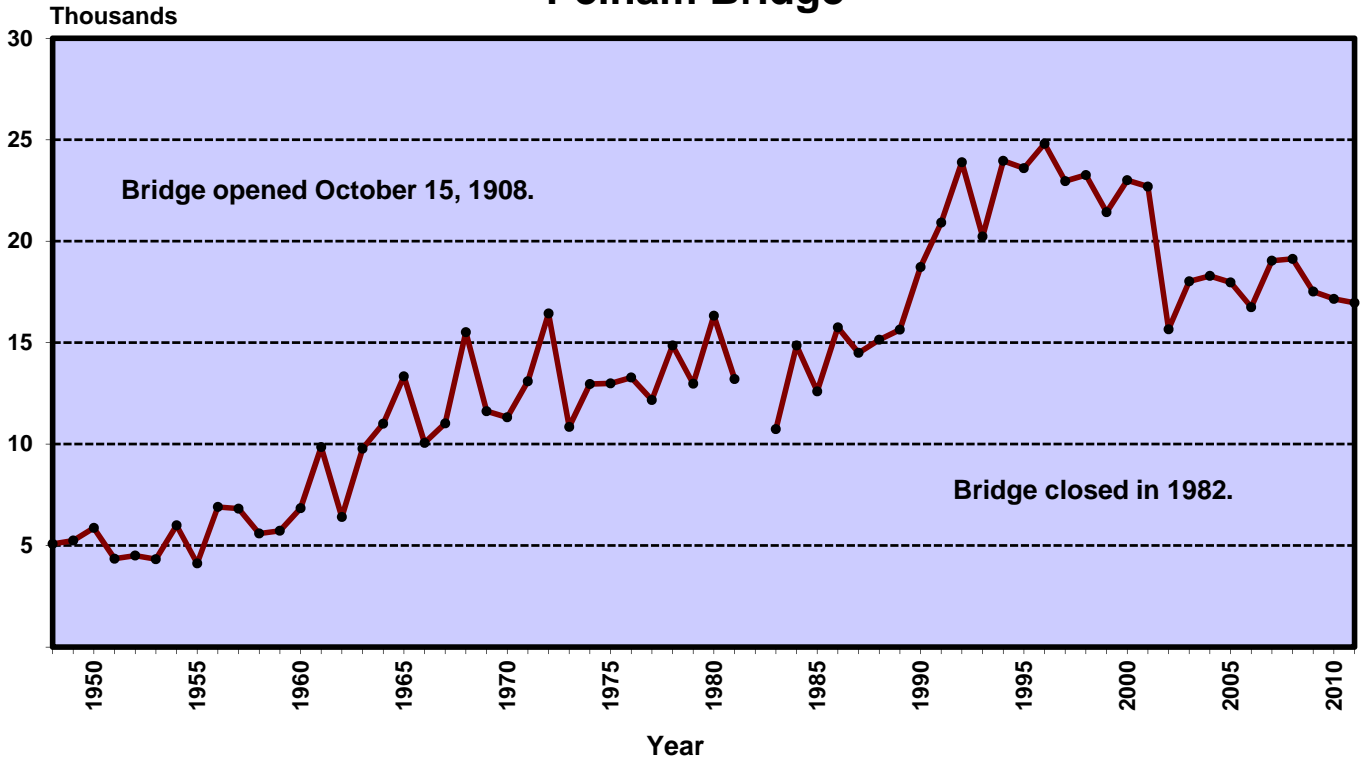
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Pelham Bridge ~ 2011



## Average Daily Traffic Volumes ~ Total of Both Directions Pelham Bridge



**Hourly Vehicular Volumes  
Unionport Bridge - 2011**

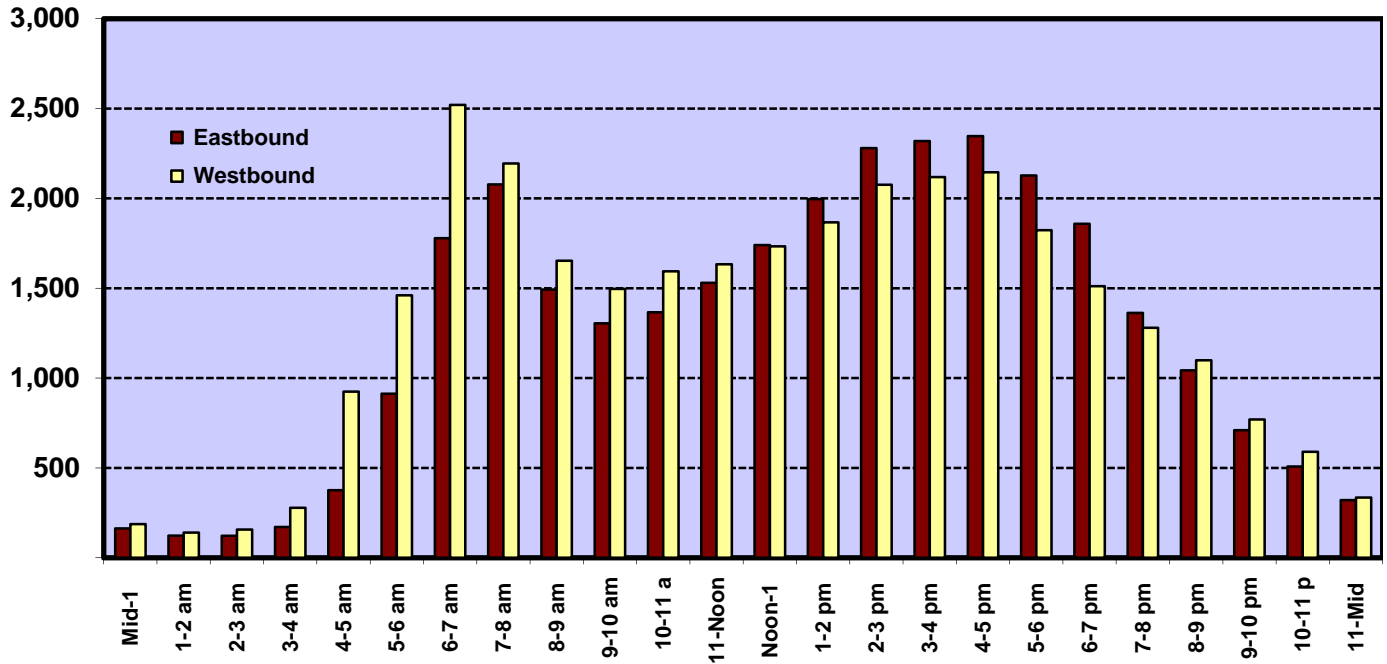
	Eastbound						Westbound						2-Way Totals
	Autos	Buses	Commuter		Commercial		Autos	Buses	Commuter		Commercial		
			Vans	Trucks	Vans	Trucks			Vans	Trucks	Vans	Trucks	
12-1am	---	---	---	---	---	163	---	---	---	---	---	---	187
1-2am	---	---	---	---	---	123	---	---	---	---	---	---	140
2-3am	---	---	---	---	---	122	---	---	---	---	---	---	157
3-4am	---	---	---	---	---	171	---	---	---	---	---	---	278
4-5am	---	---	---	---	---	376	---	---	---	---	---	---	925
5-6am	---	---	---	---	---	913	---	---	---	---	---	---	1,461
6-7am	---	---	---	---	---	1,779	---	---	---	---	---	---	2,520 **
7-8am	1,803	48	27	151	49	2,078	2,048	40	2	43	61	2,194	2,194
8-9am	1,261	30	39	107	56	1,493	1,542	19	0	53	39	1,653	1,653
9-10am	1,045	29	52	110	69	1,305	1,385	18	0	40	53	1,496	1,496
10-11am	1,206	18	19	78	45	1,366	1,501	21	0	18	54	1,594	1,594
11-12am	1,201	16	62	169	82	1,530	1,414	17	0	92	110	1,633	1,633
12-1pm	1,547	16	34	98	45	1,740	1,651	11	0	38	33	1,733	1,733
1-2pm	1,628	14	54	194	106	1,996	1,609	24	2	116	116	1,867	1,867
2-3pm	1,951	22	58	177	72	2,280	1,824	29	0	110	113	2,076	2,076
3-4pm	2,166	17	21	72	43	2,319	1,954	49	0	47	69	2,119	2,119
4-5pm	2,040	21	43	163	80	2,347 **	1,901	30	0	72	142	2,145	2,145
5-6pm	1,879	24	48	137	40	2,128	1,669	26	0	58	70	1,823	1,823
6-7pm	1,649	33	45	98	34	1,859	1,424	15	0	27	45	1,511	1,511
7-8pm	---	---	---	---	---	1,363	---	---	---	---	---	---	1,280
8-9pm	---	---	---	---	---	1,043	---	---	---	---	---	---	1,099
9-10pm	---	---	---	---	---	710	---	---	---	---	---	---	770
10-11pm	---	---	---	---	---	508	---	---	---	---	---	---	590
11-12pm	---	---	---	---	---	321	---	---	---	---	---	---	335
Totals	---	---	---	---	---	30,033	---	---	---	---	---	---	31,586
7-10am	4,109	107	118	368	174	4,876	4,975	77	2	136	153	5,343	10,219
10am-1pm	3,954	50	115	345	172	4,636	4,566	49	0	148	197	4,960	9,596
1-4pm	5,745	53	133	443	221	6,595	5,387	102	2	273	298	6,062	12,657
4-7pm	5,568	78	136	398	154	6,334	4,994	71	0	157	257	5,479	11,813
7am-7pm	19,376	288	502	1,554	721	22,441	19,922	299	4	714	905	21,844	44,285
6-10am	---	---	---	---	---	6,655	---	---	---	---	---	---	7,863
3-7pm	7,734	95	157	470	197	8,653	6,948	120	0	204	326	7,598	16,251
6am-7pm	---	---	---	---	---	24,220	---	---	---	---	---	---	24,364

Based on 1989 Classification Survey Data

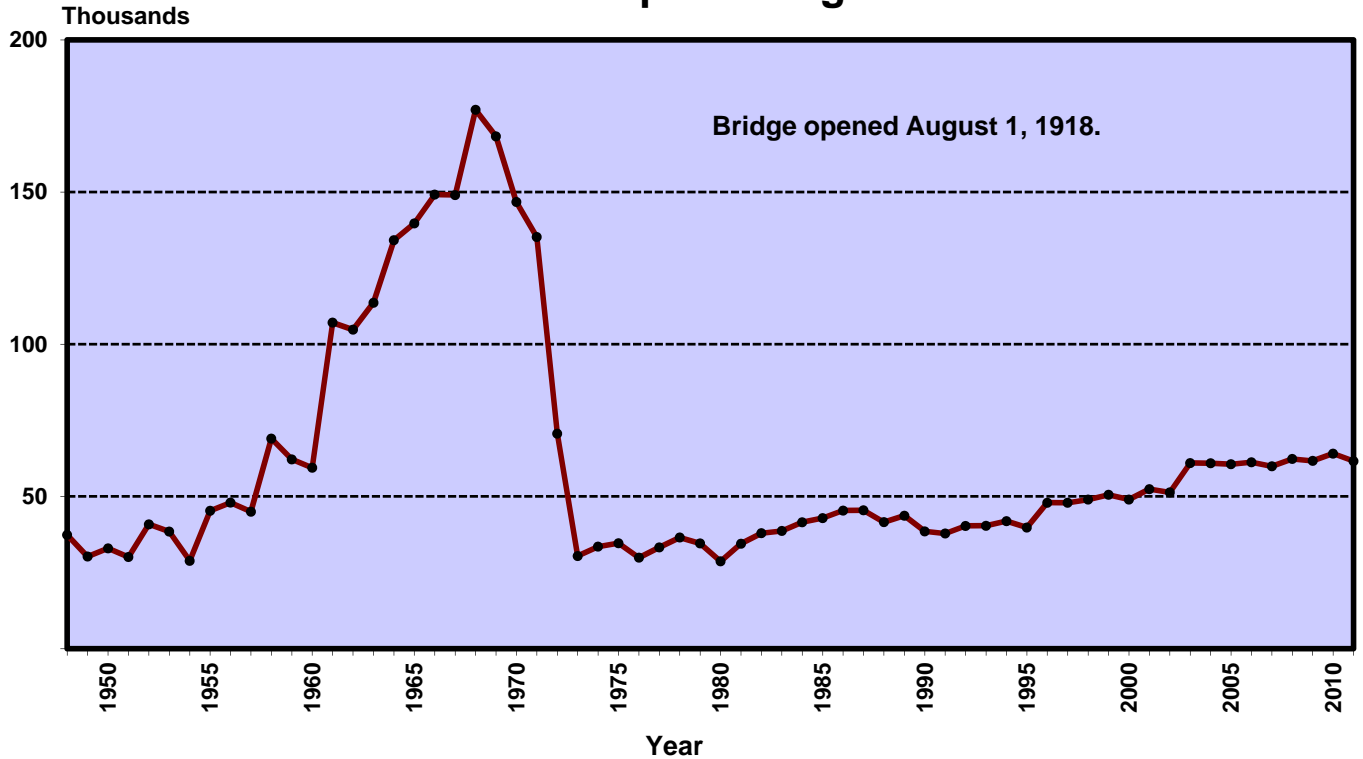
\*\* Peak Volumes



## Hourly Vehicular Volumes Unionport Bridge ~ 2011



## Average Daily Traffic Volumes ~ Total of Both Directions Unionport Bridge



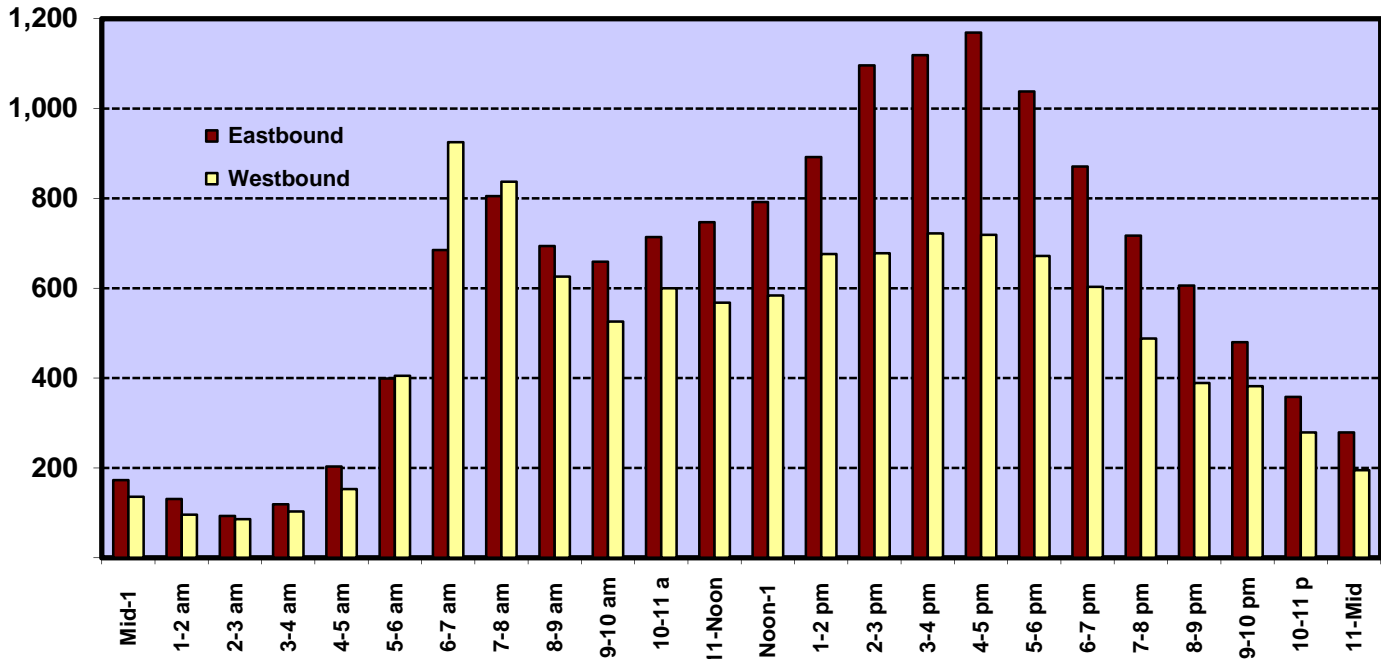
**Hourly Vehicular Volumes  
Westchester Avenue Bridge - 2011**

	<i>Eastbound</i>					<i>Westbound</i>					<b>2-Way Totals</b>	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	173	---	---	---	---	---	136
1-2am	---	---	---	---	---	131	---	---	---	---	---	96
2-3am	---	---	---	---	---	93	---	---	---	---	---	86
3-4am	---	---	---	---	---	119	---	---	---	---	---	103
4-5am	---	---	---	---	---	203	---	---	---	---	---	153
5-6am	---	---	---	---	---	399	---	---	---	---	---	405
6-7am	---	---	---	---	---	685	---	---	---	---	---	925 **
7-8am	686	42	20	30	27	805	730	33	1	20	53	837
8-9am	590	50	7	24	23	694	544	29	0	22	31	626
9-10am	586	29	13	13	18	659	450	12	0	20	44	526
10-11am	650	34	5	10	15	714	560	18	0	13	9	600
11-12am	632	29	8	35	43	747	461	16	0	36	55	568
12-1pm	742	23	2	9	16	792	514	20	0	25	25	584
1-2pm	798	48	10	18	18	892	613	23	0	12	28	676
2-3pm	922	67	8	40	59	1,096	584	30	0	20	44	678
3-4pm	1,009	78	2	17	13	1,119	669	24	0	13	16	722
4-5pm	1,055	43	25	24	22	1,169 **	631	29	0	20	39	719
5-6pm	951	22	12	20	33	1,038	578	17	0	17	60	672
6-7pm	800	26	2	8	35	871	537	8	0	2	56	603
7-8pm	---	---	---	---	---	717	---	---	---	---	---	488
8-9pm	---	---	---	---	---	606	---	---	---	---	---	389
9-10pm	---	---	---	---	---	480	---	---	---	---	---	382
10-11pm	---	---	---	---	---	358	---	---	---	---	---	279
11-12pm	---	---	---	---	---	279	---	---	---	---	---	195
<b>Totals</b>	---	---	---	---	---	<b>14,839</b>	---	---	---	---	---	<b>11,448</b>
7-10am	1,862	121	40	67	68	2,158	1,724	74	1	62	128	1,989
10am-1pm	2,024	86	15	54	74	2,253	1,535	54	0	74	89	1,752
1-4pm	2,729	193	20	75	90	3,107	1,866	77	0	45	88	2,076
4-7pm	2,806	91	39	52	90	3,078	1,746	54	0	39	155	1,994
7am-7pm	9,421	491	114	248	322	10,596	6,871	259	1	220	460	7,811
6-10am	---	---	---	---	---	2,843	---	---	---	---	---	2,914
3-7pm	3,815	169	41	69	103	4,197	2,415	78	0	52	171	2,716
6am-7pm	---	---	---	---	---	11,281	---	---	---	---	---	8,736

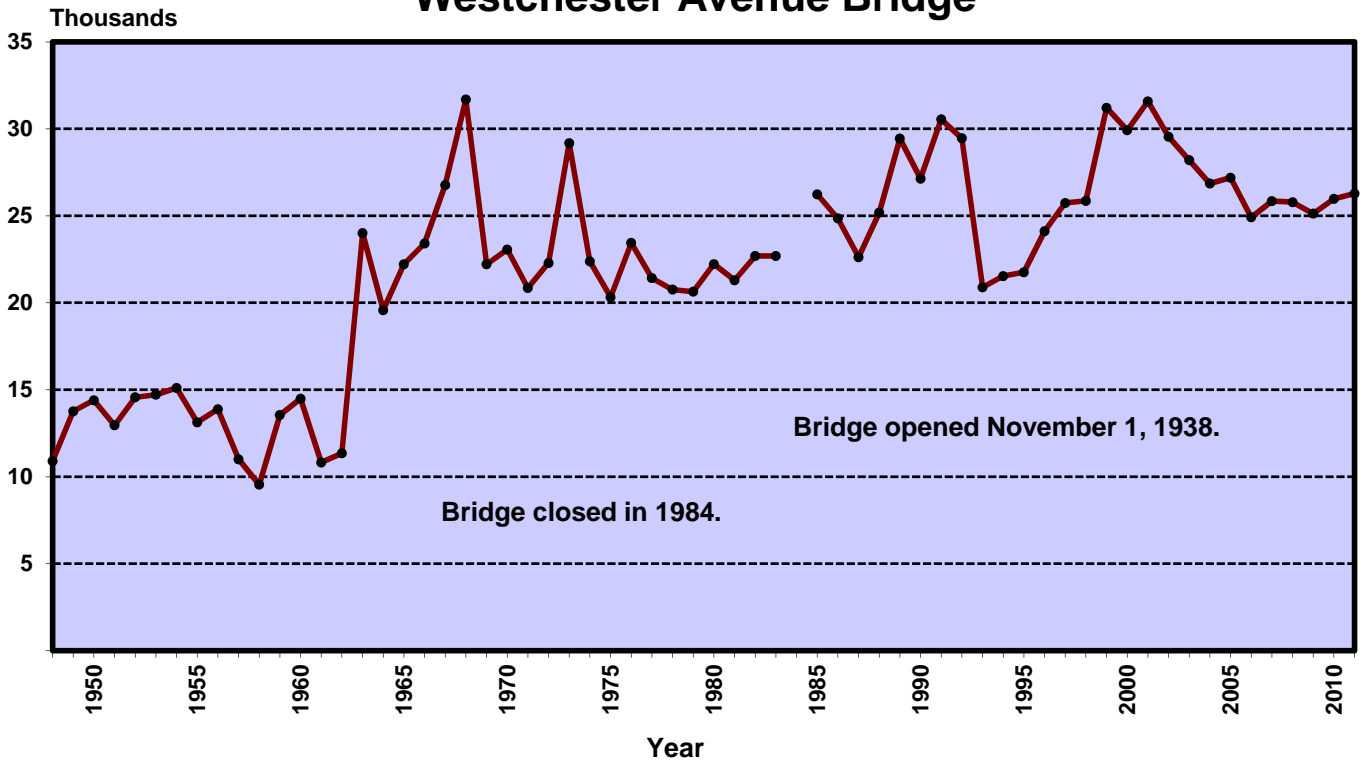
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Westchester Avenue Bridge ~ 2011



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





# Brooklyn Bridges

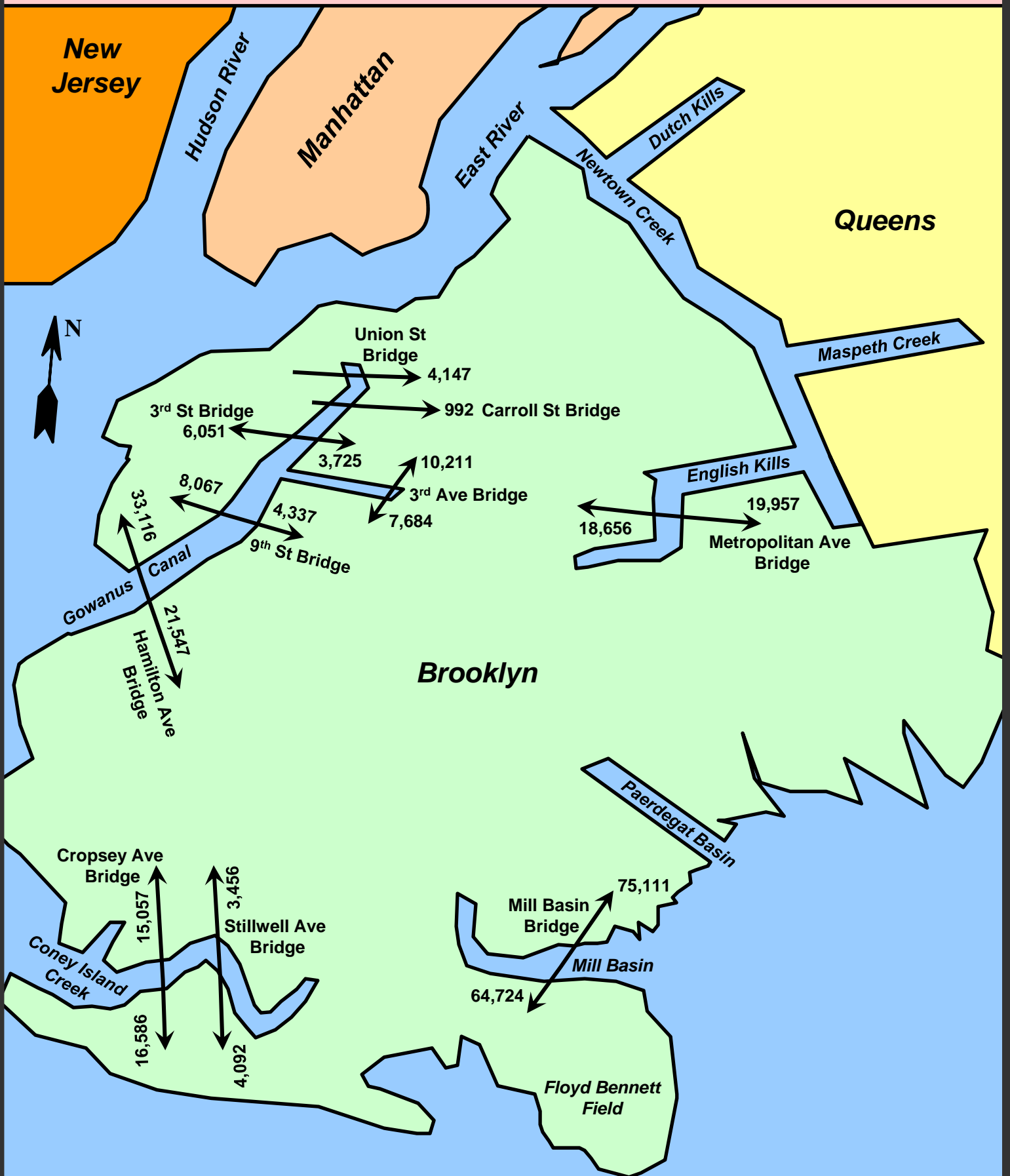


**Cropsey Avenue Bridge**



# BROOKLYN BRIDGES

## 2011 Daily Volumes



**Brooklyn Bridges**  
**Average Daily Traffic Volumes**  
**1948 - 2011**

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



**Brooklyn Bridges (cont'd)**  
**Average Daily Traffic Volumes**  
**1948 - 2011**

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

## Hourly Vehicular Volumes Carroll Street Bridge - 2011

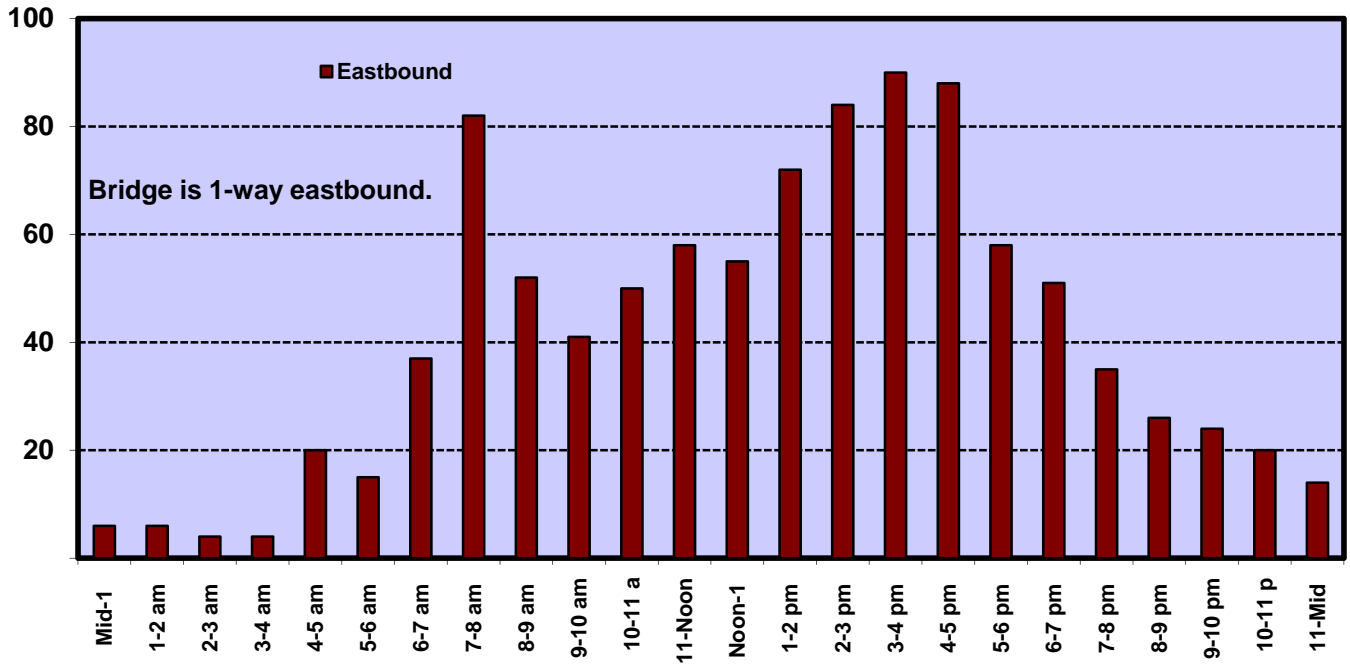
	<b>Eastbound</b>					<b>Westbound</b>					<b>Grand Totals</b>	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	6	---	---	---	---	---	6
1-2am	---	---	---	---	---	6	---	---	---	---	---	6
2-3am	---	---	---	---	---	4	---	---	---	---	---	4
3-4am	---	---	---	---	---	4	---	---	---	---	---	4
4-5am	---	---	---	---	---	20	---	---	---	---	---	20
5-6am	---	---	---	---	---	15	---	---	---	---	---	15
6-7am	---	---	---	---	---	37	---	---	---	---	---	37
7-8am	31	0	15	21	15	82	---	---	---	---	---	82
8-9am	15	2	5	16	14	52	---	---	---	---	---	52
9-10am	15	0	5	15	6	41	---	---	---	---	---	41
10-11am	24	0	0	15	11	50	---	---	---	---	---	50
11-12am	20	0	6	17	15	58	---	---	---	---	---	58
12-1pm	10	0	11	16	18	55	---	---	---	---	---	55
1-2pm	21	0	11	12	28	72	---	---	---	---	---	72
2-3pm	2	0	18	42	22	84	---	---	---	---	---	84
3-4pm	74	0	2	8	6	90	---	---	---	---	---	90
4-5pm	67	0	3	7	11	88	---	---	---	---	---	88
5-6pm	47	0	4	3	4	58	---	---	---	---	---	58
6-7pm	44	0	3	1	3	51	---	---	---	---	---	51
7-8pm	---	---	---	---	---	35	---	---	---	---	---	35
8-9pm	---	---	---	---	---	26	---	---	---	---	---	26
9-10pm	---	---	---	---	---	24	---	---	---	---	---	24
10-11pm	---	---	---	---	---	20	---	---	---	---	---	20
11-12pm	---	---	---	---	---	14	---	---	---	---	---	14
<b>Totals</b>	---	---	---	---	---	992	---	---	---	---	---	992
7-10am	61	2	25	52	35	175	---	---	---	---	---	175
10am-1pm	54	0	17	48	44	163	---	---	---	---	---	163
1-4pm	97	0	31	62	56	246	---	---	---	---	---	246
4-7pm	158	0	10	11	18	197	---	---	---	---	---	197
7am-7pm	370	2	83	173	153	781	---	---	---	---	---	781
6-10am	232	0	12	19	24	212	---	---	---	---	---	212
3-7pm	---	---	---	---	---	287	---	---	---	---	---	287
6am-7pm	---	---	---	---	---	818	---	---	---	---	---	818

*Bridge is 1-way eastbound*

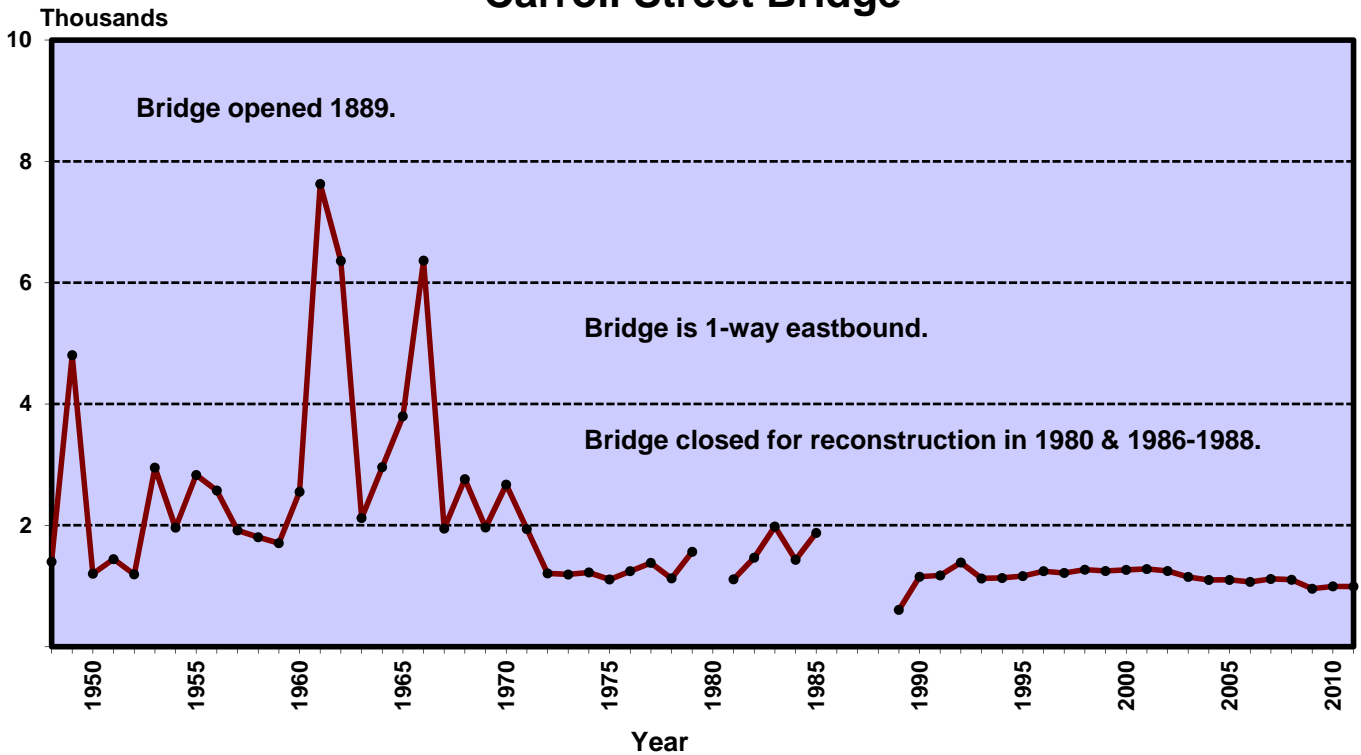
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Carroll Street Bridge ~ 2011



## Average Daily Traffic Volumes Carroll Street Bridge



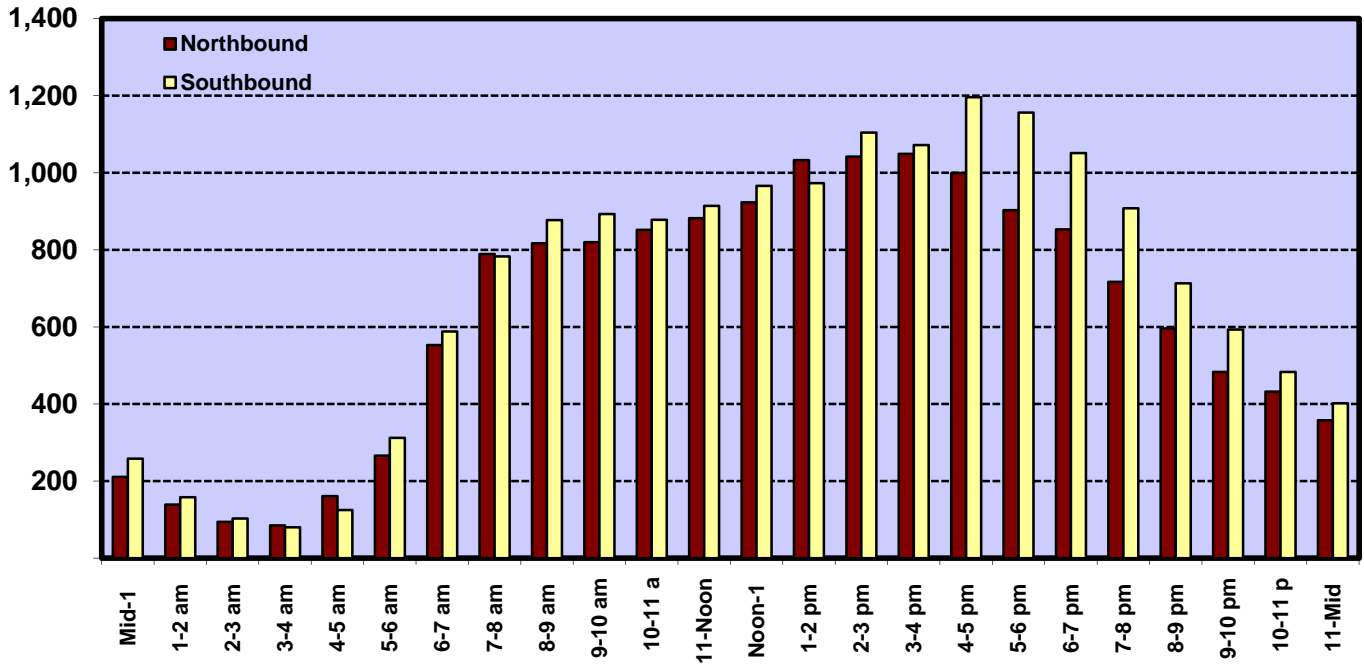
### Hourly Vehicular Volumes Cropsey Avenue Bridge - 2011

	Northbound					Southbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	211	---	---	---	---	---	258
1-2am	---	---	---	---	---	139	---	---	---	---	---	158
2-3am	---	---	---	---	94	---	---	---	---	---	---	103
3-4am	---	---	---	---	85	---	---	---	---	---	---	80
4-5am	---	---	---	---	161	---	---	---	---	---	---	125
5-6am	---	---	---	---	266	---	---	---	---	---	---	312
6-7am	---	---	---	---	553	---	---	---	---	---	---	588
7-8am	636	56	2	33	62	789	650	69	0	38	26	783
8-9am	682	45	2	42	46	817	745	60	2	41	29	877
9-10am	656	43	1	43	77	820	691	83	3	49	67	893
10-11am	747	42	0	26	37	852	777	26	0	35	40	878
11-12am	730	25	0	67	60	882	728	27	1	76	82	914
12-1pm	810	44	0	30	39	923	884	31	0	28	23	966
1-2pm	887	66	0	34	46	1,033	878	34	1	22	38	973
2-3pm	823	79	3	63	74	1,042	914	52	0	62	76	1,104
3-4pm	898	84	1	29	37	1,049	922	73	2	24	51	1,072
4-5pm	847	38	0	51	63	999	1,016	57	0	28	95	1,196
5-6pm	783	10	0	50	60	903	979	21	9	46	101	1,156
6-7pm	762	19	0	31	41	853	958	8	0	15	70	1,051
7-8pm	---	---	---	---	---	717	---	---	---	---	---	908
8-9pm	---	---	---	---	---	596	---	---	---	---	---	713
9-10pm	---	---	---	---	---	483	---	---	---	---	---	593
10-11pm	---	---	---	---	---	432	---	---	---	---	---	483
11-12pm	---	---	---	---	---	358	---	---	---	---	---	402
Totals	---	---	---	---	---	15,057	---	---	---	---	---	16,586
7-10am	1,974	144	5	118	185	2,426	2,086	212	5	128	122	2,553
10am-1pm	2,287	111	0	123	136	2,657	2,389	84	1	139	145	2,758
1-4pm	2,608	229	4	126	157	3,124	2,714	159	3	108	165	3,149
4-7pm	2,392	67	0	132	164	2,755	2,953	86	9	89	266	3,403
7am-7pm	9,261	551	9	499	642	10,962	10,142	541	18	464	698	11,863
6-10am	---	---	---	---	---	2,979	---	---	---	---	---	3,141
3-7pm	3,290	151	1	161	201	3,804	3,875	159	11	113	317	4,475
6am-7pm	---	---	---	---	---	11,515	---	---	---	---	---	12,451

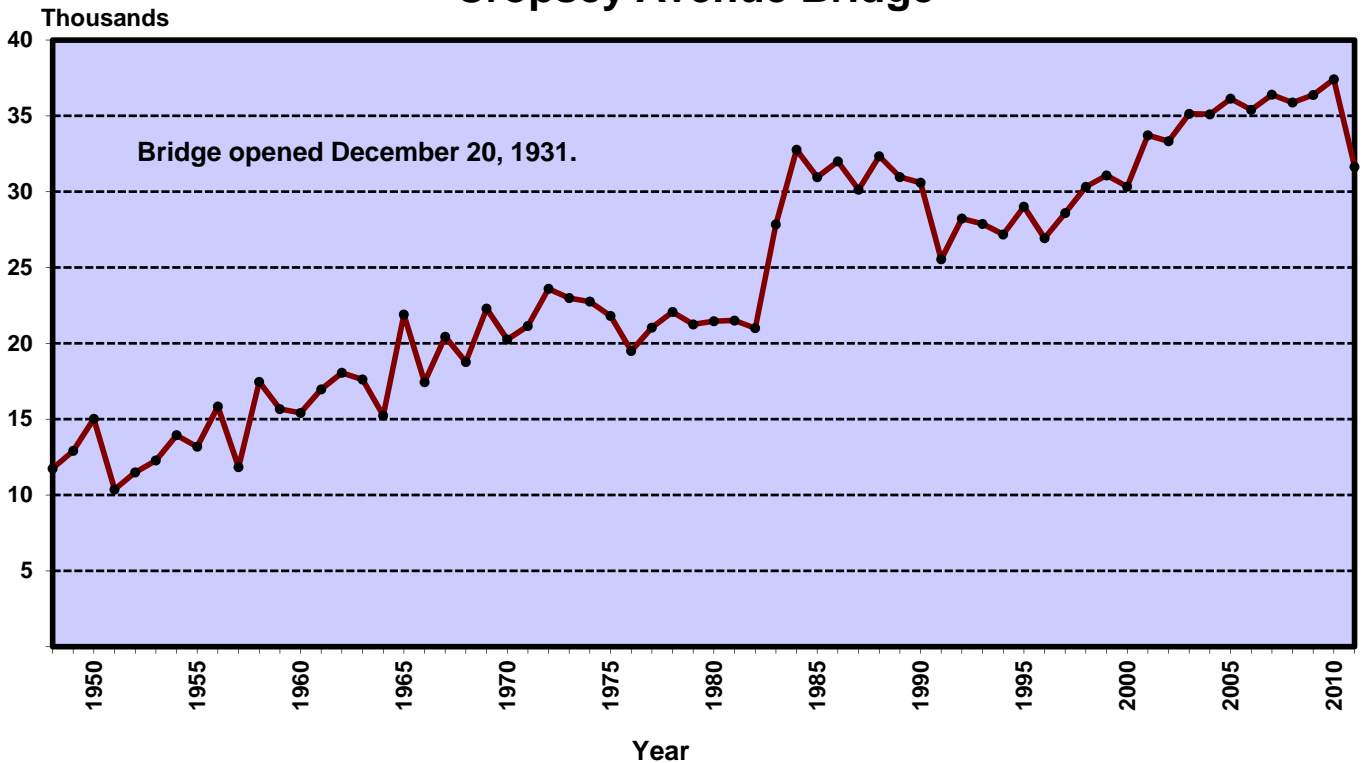
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Cropsey Avenue Bridge ~ 2011



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



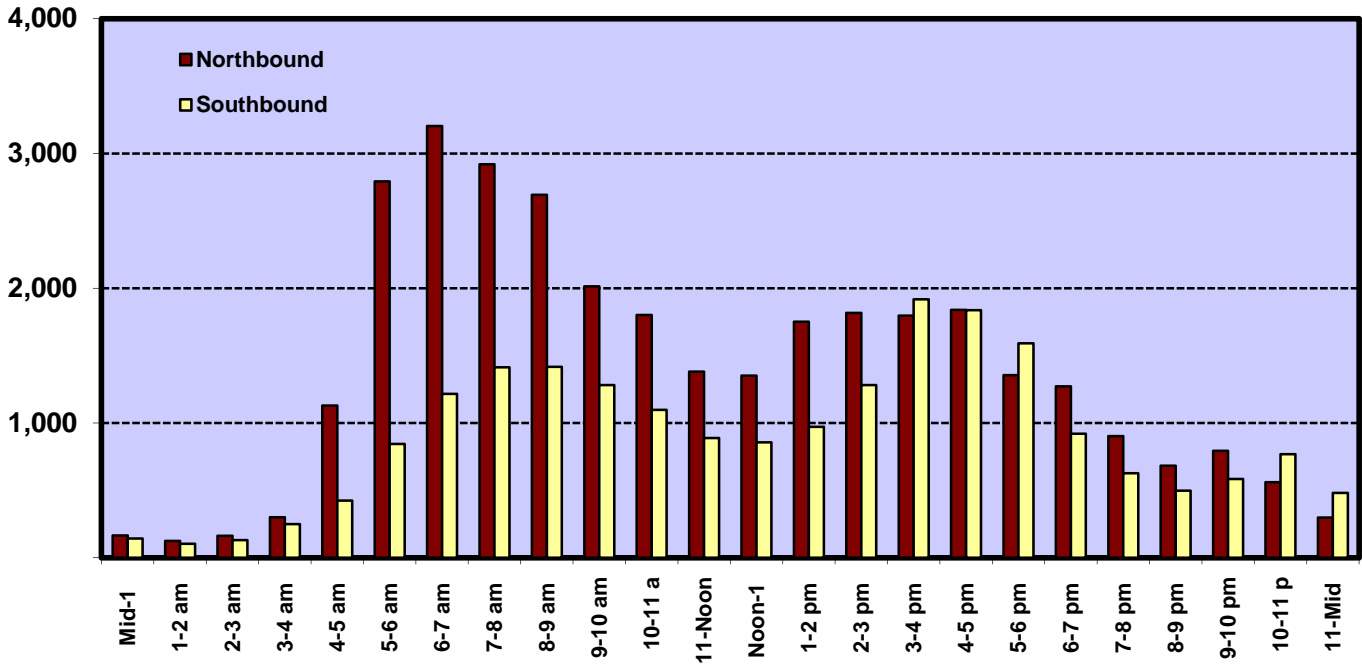
**Hourly Vehicular Volumes  
Hamilton Avenue Bridge - 2011**

	Northbound					Southbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	166	---	---	---	---	---	143
1-2am	---	---	---	---	---	125	---	---	---	---	---	104
2-3am	---	---	---	---	---	163	---	---	---	---	---	131
3-4am	---	---	---	---	---	301	---	---	---	---	---	250
4-5am	---	---	---	---	---	1,130	---	---	---	---	---	424
5-6am	---	---	---	---	---	2,793	---	---	---	---	---	845
6-7am	---	---	---	---	---	3,204 **	---	---	---	---	---	1,216
7-8am	2,367	34	43	218	258	2,920	501	52	210	432	218	1,413
8-9am	2,121	12	40	237	283	2,693	796	46	77	318	180	1,417
9-10am	1,551	23	27	207	206	2,014	523	49	91	440	178	1,281
10-11am	1,543	12	14	120	112	1,801	771	28	45	163	91	1,098
11-12am	1,060	12	15	149	145	1,381	383	15	90	232	168	888
12-1pm	1,219	7	7	63	56	1,352	651	5	42	94	64	856
1-2pm	1,529	24	9	115	75	1,752	703	11	40	133	85	972
2-3pm	1,347	48	19	209	194	1,817	542	15	125	321	279	1,282
3-4pm	1,524	58	8	111	96	1,797	1,540	20	90	145	123	1,918 **
4-5pm	1,465	49	13	152	161	1,840	1,332	12	136	176	181	1,837
5-6pm	1,119	11	10	118	97	1,355	1,271	7	81	87	145	1,591
6-7pm	1,095	5	10	59	103	1,272	762	5	54	41	59	921
7-8pm	---	---	---	---	---	903	---	---	---	---	---	627
8-9pm	---	---	---	---	---	683	---	---	---	---	---	498
9-10pm	---	---	---	---	---	794	---	---	---	---	---	585
10-11pm	---	---	---	---	---	561	---	---	---	---	---	769
11-12pm	---	---	---	---	---	299	---	---	---	---	---	481
Totals	---	---	---	---	---	33,116	---	---	---	---	---	21,547
7-10am	6,039	69	110	662	747	7,627	1,820	147	378	1,190	576	4,111
10am-1pm	3,822	31	36	332	313	4,534	1,805	48	177	489	323	2,842
1-4pm	4,400	130	36	435	365	5,366	2,785	46	255	599	487	4,172
4-7pm	3,679	65	33	329	361	4,467	3,365	24	271	304	385	4,349
7am-7pm	17,940	295	215	1,758	1,786	21,994	9,775	265	1,081	2,582	1,771	15,474
6-10am	---	---	---	---	---	10,831	---	---	---	---	---	5,327
3-7pm	5,203	123	41	440	457	6,264	4,905	44	361	449	508	6,267
6am-7pm	---	---	---	---	---	25,198	---	---	---	---	---	16,690

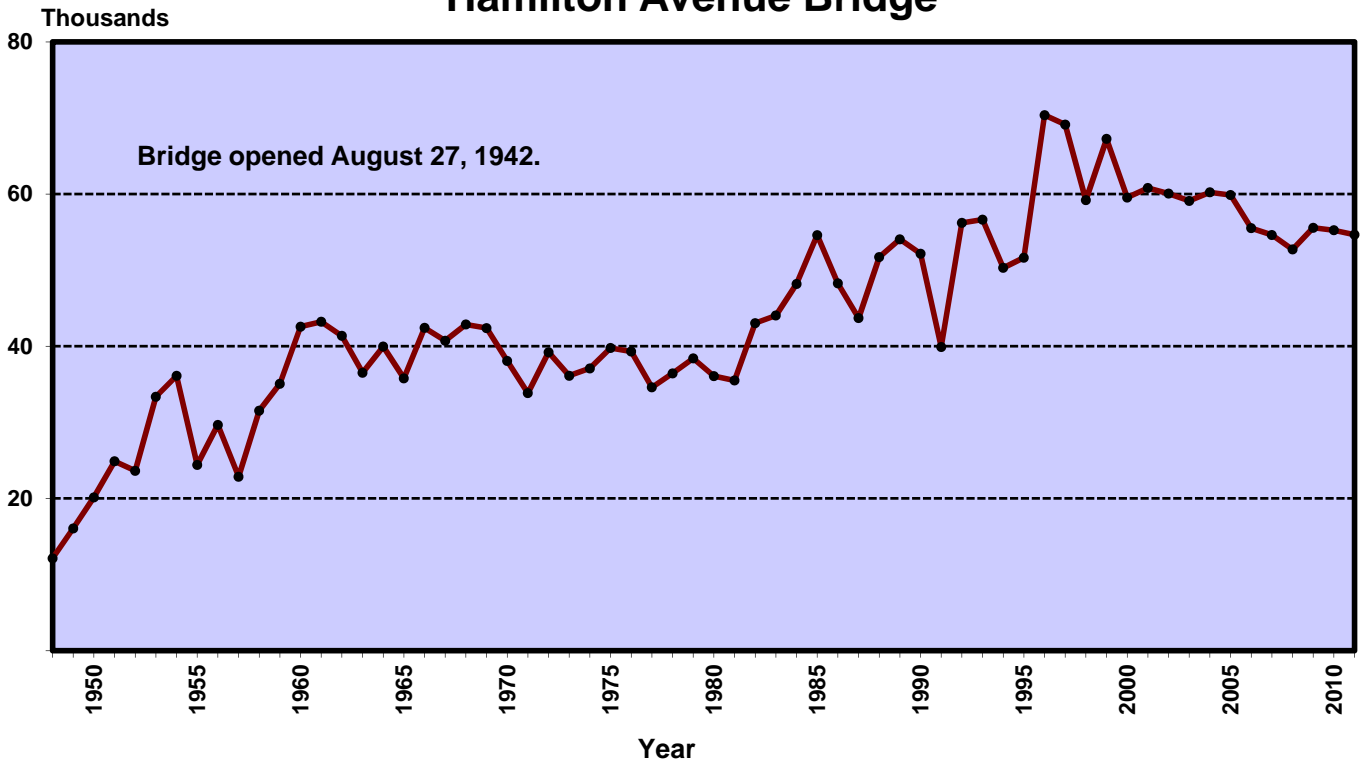
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Hamilton Avenue Bridge ~ 2011



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



**Hourly Vehicular Volumes  
Metropolitan Avenue Bridge - 2011**

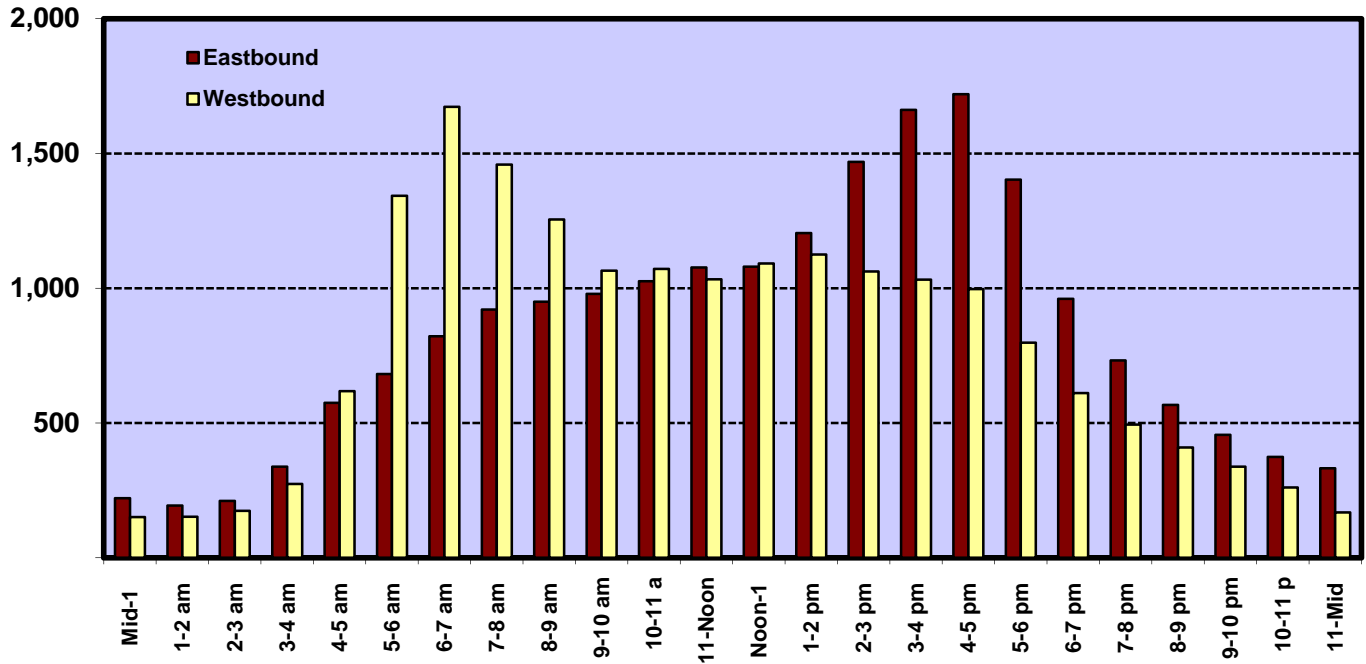
	<b>Eastbound</b>					<b>Westbound</b>					<b>2-Way Totals</b>	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	221	---	---	---	---	---	151
1-2am	---	---	---	---	---	194	---	---	---	---	---	152
2-3am	---	---	---	---	---	211	---	---	---	---	---	174
3-4am	---	---	---	---	---	338	---	---	---	---	---	274
4-5am	---	---	---	---	---	575	---	---	---	---	---	618
5-6am	---	---	---	---	---	682	---	---	---	---	---	1,343
6-7am	---	---	---	---	---	822	---	---	---	---	---	1,673 **
7-8am	689	18	18	148	48	921	1,080	31	60	206	82	1,459
8-9am	612	18	25	197	98	950	881	14	41	225	94	1,255
9-10am	505	43	26	289	116	979	646	30	34	262	93	1,065
10-11am	841	9	13	118	45	1,026	889	19	27	102	35	1,072
11-12am	635	18	30	302	92	1,077	647	18	47	239	82	1,033
12-1pm	888	18	20	117	37	1,080	888	17	28	119	40	1,092
1-2pm	980	33	10	122	60	1,205	936	25	24	97	43	1,125
2-3pm	1,018	18	41	266	126	1,469	730	18	31	195	88	1,062
3-4pm	1,395	18	36	146	67	1,662	847	20	17	99	49	1,032
4-5pm	1,271	42	70	194	143	1,720 **	761	13	26	133	64	997
5-6pm	1,064	13	67	145	114	1,403	624	7	41	68	58	798
6-7pm	762	9	42	85	63	961	512	8	28	33	30	611
7-8pm	---	---	---	---	---	732	---	---	---	---	---	494
8-9pm	---	---	---	---	---	567	---	---	---	---	---	409
9-10pm	---	---	---	---	---	456	---	---	---	---	---	338
10-11pm	---	---	---	---	---	374	---	---	---	---	---	261
11-12pm	---	---	---	---	---	332	---	---	---	---	---	168
<b>Totals</b>	---	---	---	---	---	<b>19,957</b>	---	---	---	---	---	<b>18,656</b>
7-10am	1,806	79	69	634	262	2,850	2,607	75	135	693	269	3,779
10am-1pm	2,364	45	63	537	174	3,183	2,424	54	102	460	157	3,197
1-4pm	3,393	69	87	534	253	4,336	2,513	63	72	391	180	3,219
4-7pm	3,097	64	179	424	320	4,084	1,897	28	95	234	152	2,406
7am-7pm	10,660	257	398	2,129	1,009	14,453	9,441	220	404	1,778	758	12,601
6-10am	---	---	---	---	---	3,672	---	---	---	---	---	5,452
3-7pm	4,492	82	215	570	387	5,746	2,744	48	112	333	201	3,438
6am-7pm	---	---	---	---	---	15,275	---	---	---	---	---	14,274

Based on 1989 Classification Survey Data

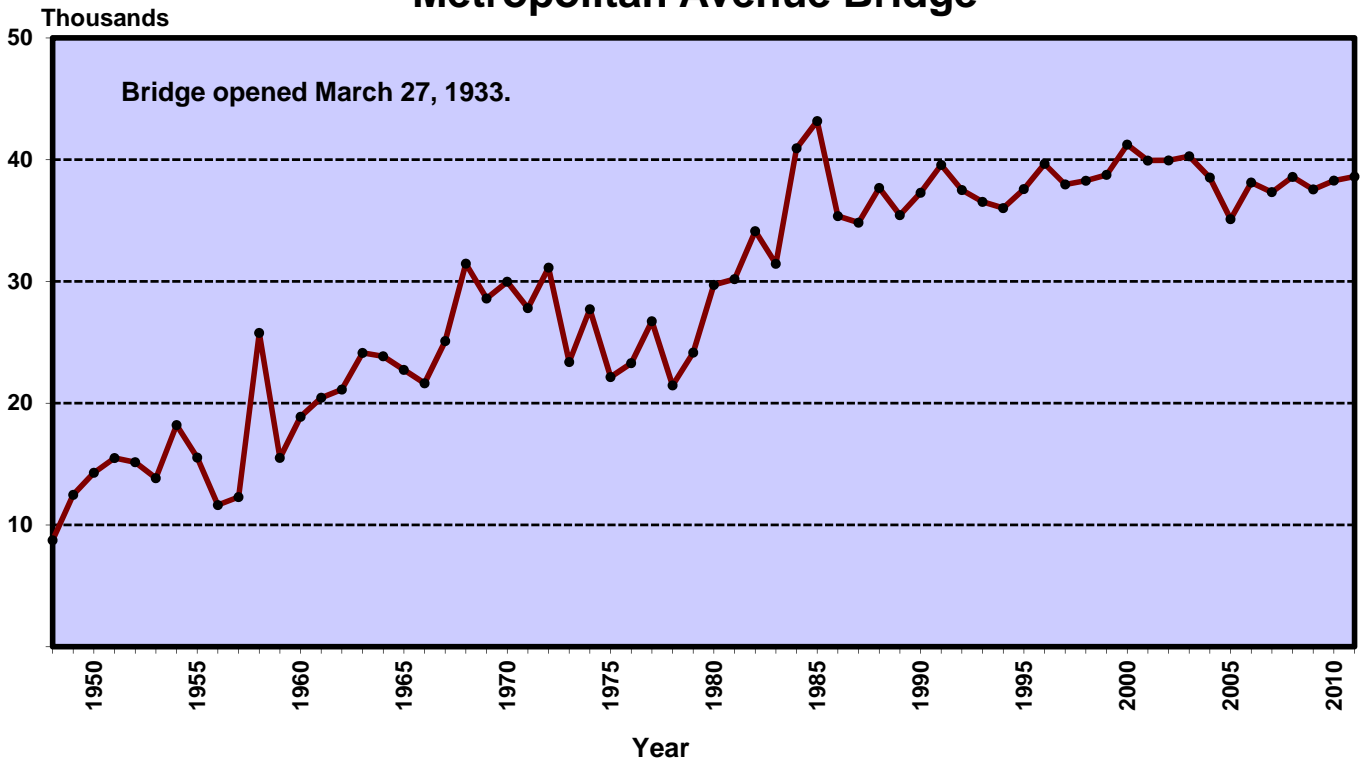
\*\* Peak Volumes



## Hourly Vehicular Volumes Metropolitan Avenue Bridge ~ 2011



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



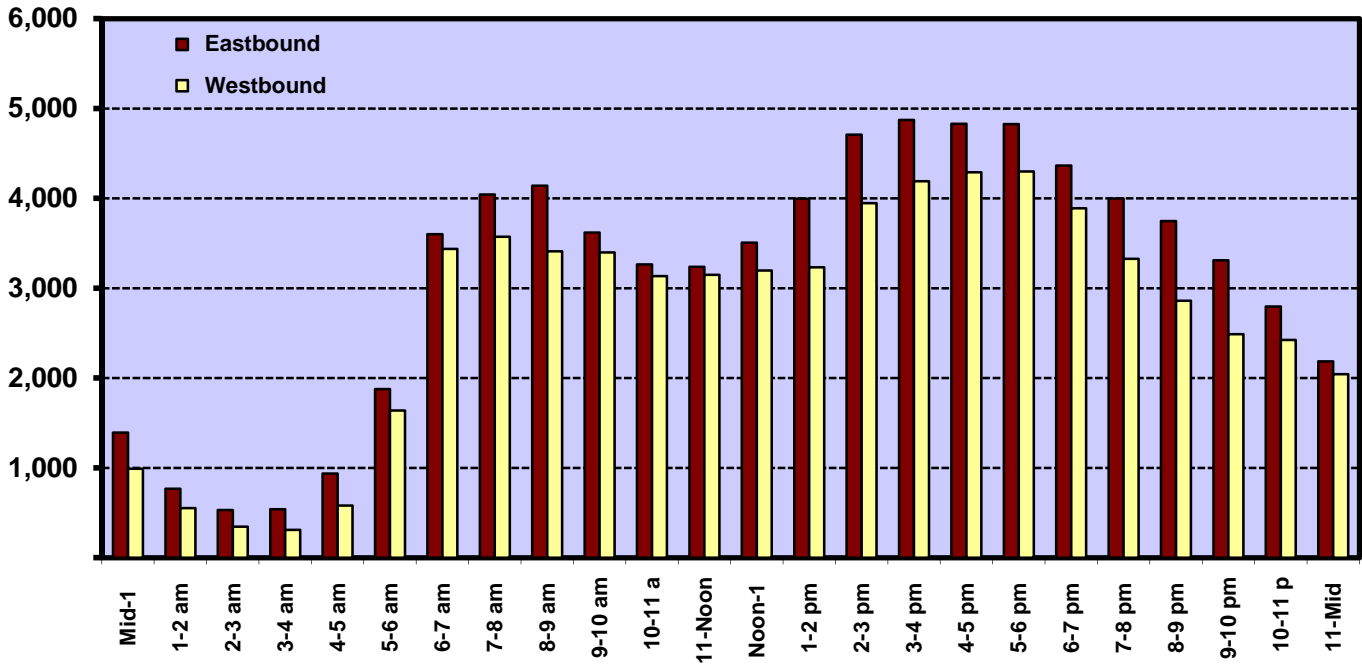
### Hourly Vehicular Volumes Mill Basin Bridge - 2011

	Eastbound					Westbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	1,394	---	---	---	---	---	991
1-2am	---	---	---	---	---	769	---	---	---	---	---	553
2-3am	---	---	---	---	---	531	---	---	---	---	---	347
3-4am	---	---	---	---	---	540	---	---	---	---	---	310
4-5am	---	---	---	---	---	938	---	---	---	---	---	581
5-6am	---	---	---	---	---	1,878	---	---	---	---	---	1,639
6-7am	---	---	---	---	---	3,602	---	---	---	---	---	3,438
7-8am	3,763	53	19	4	204	4,043	3,328	15	0	104	126	3,573
8-9am	3,918	16	14	15	179	4,142	3,121	40	0	91	159	3,411
9-10am	3,334	9	16	22	238	3,619	3,085	60	1	93	159	3,398
10-11am	3,147	8	11	13	86	3,265	3,033	15	0	32	55	3,135
11-12am	2,863	4	63	29	279	3,238	2,845	0	4	151	150	3,150
12-1pm	3,350	5	21	15	117	3,508	3,013	0	0	70	115	3,198
1-2pm	3,741	103	16	13	124	3,997	3,117	9	0	35	72	3,233
2-3pm	4,269	45	29	18	349	4,710	3,657	7	0	112	171	3,947
3-4pm	4,655	27	17	7	168	4,874	3,936	71	0	77	108	4,192
4-5pm	4,497	14	43	8	269	4,831	3,940	39	2	123	186	4,290
5-6pm	4,564	7	20	15	221	4,827	3,980	30	3	128	159	4,300
6-7pm	4,129	4	16	5	211	4,365	3,649	3	1	97	141	3,891
7-8pm	---	---	---	---	---	3,999	---	---	---	---	---	3,328
8-9pm	---	---	---	---	---	3,747	---	---	---	---	---	2,861
9-10pm	---	---	---	---	---	3,311	---	---	---	---	---	2,489
10-11pm	---	---	---	---	---	2,797	---	---	---	---	---	2,425
11-12pm	---	---	---	---	---	2,186	---	---	---	---	---	2,044
Totals	---	---	---	---	---	75,111	---	---	---	---	---	64,724
7-10am	11,015	78	49	41	621	11,804	9,534	115	1	288	444	10,382
10am-1pm	9,360	17	95	57	482	10,011	8,891	15	4	253	320	9,483
1-4pm	12,665	175	62	38	641	13,581	10,710	87	0	224	351	11,372
4-7pm	13,190	25	79	28	701	14,023	11,569	72	6	348	486	12,481
7am-7pm	46,230	295	285	164	2,445	49,419	40,704	289	11	1,113	1,601	43,718
6-10am	---	---	---	---	---	15,406	---	---	---	---	---	13,820
3-7pm	17,845	52	96	35	869	18,897	15,505	143	6	425	594	16,673
6am-7pm	---	---	---	---	---	53,021	---	---	---	---	---	47,156

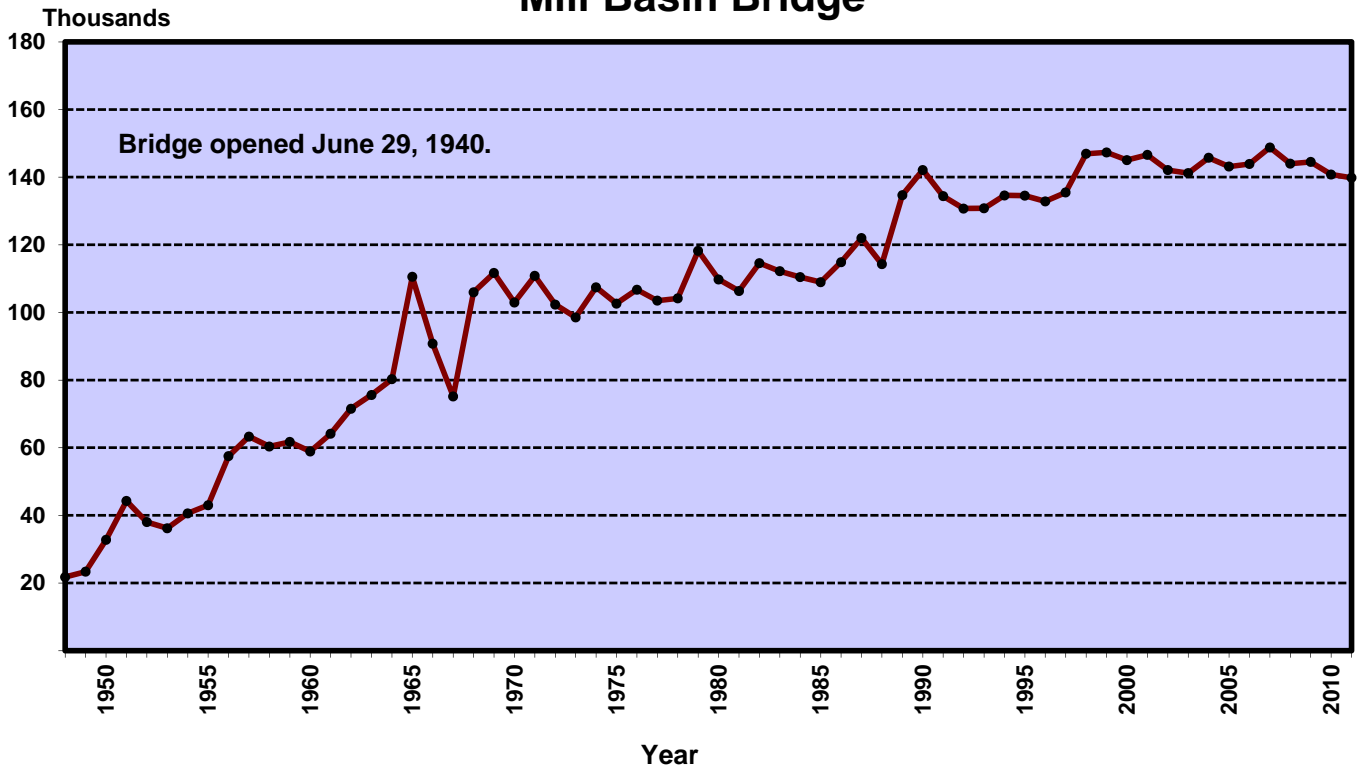
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Mill Basin Bridge ~ 2011



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



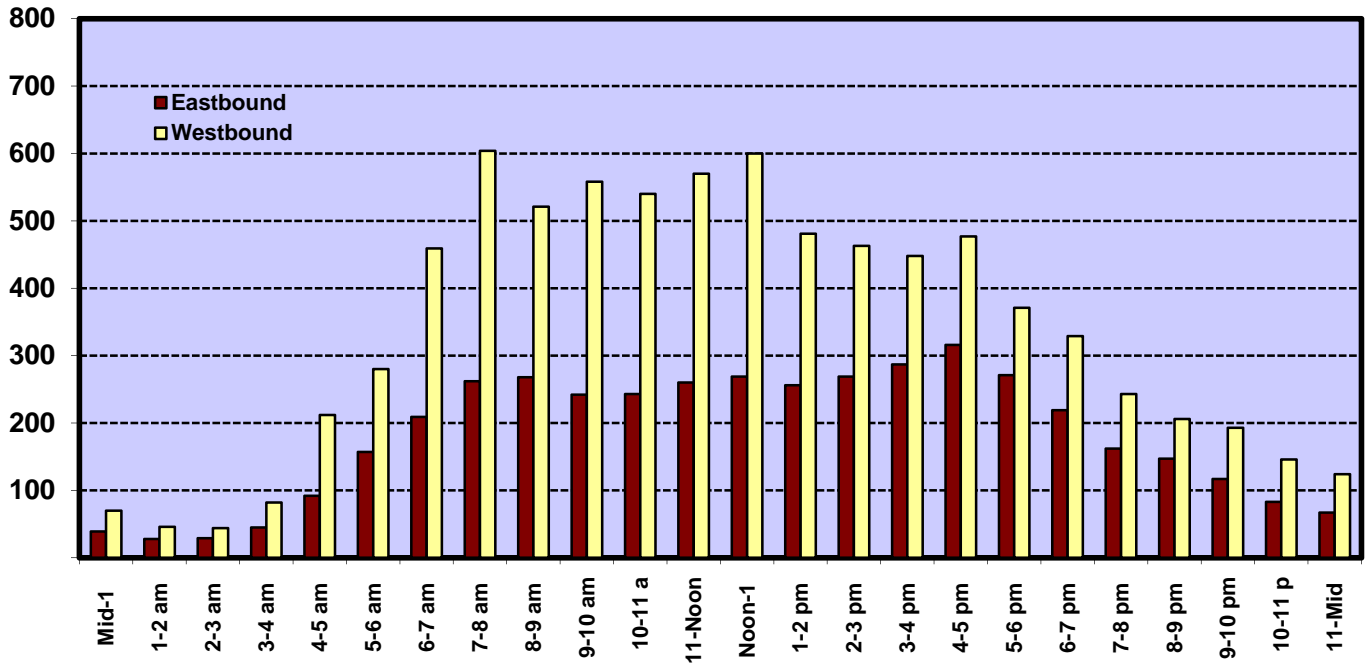
### Hourly Vehicular Volumes Ninth Street Bridge - 2011

	Eastbound						Westbound						2-Way Totals	
	Autos	Buses	Commuter		Commercial		Autos	Buses	Commuter		Commercial			
			Vans	Trucks	Vans	Trucks			Vans	Trucks	Vans	Trucks		
12-1am	---	---	---	---	---	---	---	---	---	---	---	---	---	70
1-2am	---	---	---	---	---	---	---	---	---	---	---	---	---	46
2-3am	---	---	---	---	---	---	---	---	---	---	---	---	---	44
3-4am	---	---	---	---	---	---	---	---	---	---	---	---	---	82
4-5am	---	---	---	---	---	---	---	---	---	---	---	---	---	212
5-6am	---	---	---	---	---	---	---	---	---	---	---	---	---	280
6-7am	---	---	---	---	---	---	---	---	---	---	---	---	---	459
7-8am	191	27	7	22	15	262	488	13	0	56	47	604	**	604
8-9am	166	23	10	52	17	268	436	5	0	45	35	521		521
9-10am	153	18	4	46	21	242	469	11	0	48	30	558		558
10-11am	188	18	4	21	12	243	487	12	0	22	19	540		540
11-12am	173	16	11	49	11	260	358	39	0	119	54	570		570
12-1pm	206	13	12	26	12	269	395	42	0	110	53	600		600
1-2pm	124	15	16	85	16	256	362	9	48	31	31	481		481
2-3pm	164	18	12	54	21	269	358	20	17	39	29	463		463
3-4pm	232	14	3	22	16	287	375	22	0	32	19	448		448
4-5pm	237	14	6	35	24	316	368	16	0	57	36	477		477
5-6pm	208	18	1	32	12	271	314	21	0	21	15	371		371
6-7pm	150	14	1	39	15	219	298	10	0	13	8	329		329
7-8pm	---	---	---	---	---	162	---	---	---	---	---	243		243
8-9pm	---	---	---	---	---	147	---	---	---	---	---	206		206
9-10pm	---	---	---	---	---	117	---	---	---	---	---	193		193
10-11pm	---	---	---	---	---	83	---	---	---	---	---	146		146
11-12pm	---	---	---	---	---	67	---	---	---	---	---	124		124
Totals	---	---	---	---	---	4,337	---	---	---	---	---	8,067		12,404
7-10am	510	68	21	120	53	772	1,393	29	0	149	112	1,683		2,455
10am-1pm	567	47	27	96	35	772	1,240	93	0	251	126	1,710		2,482
1-4pm	520	47	31	161	53	812	1,095	51	65	102	79	1,392		2,204
4-7pm	595	46	8	106	51	806	980	47	0	91	59	1,177		1,983
7am-7pm	2,192	208	87	483	192	3,162	4,708	220	65	593	376	5,962		9,124
6-10am	827	60	11	128	67	981	1,355	69	0	123	78	2,142		3,123
3-7pm	---	---	---	---	---	1,093	---	---	---	---	---	1,625		2,718
6am-7pm	---	---	---	---	---	3,371	---	---	---	---	---	6,421		9,792

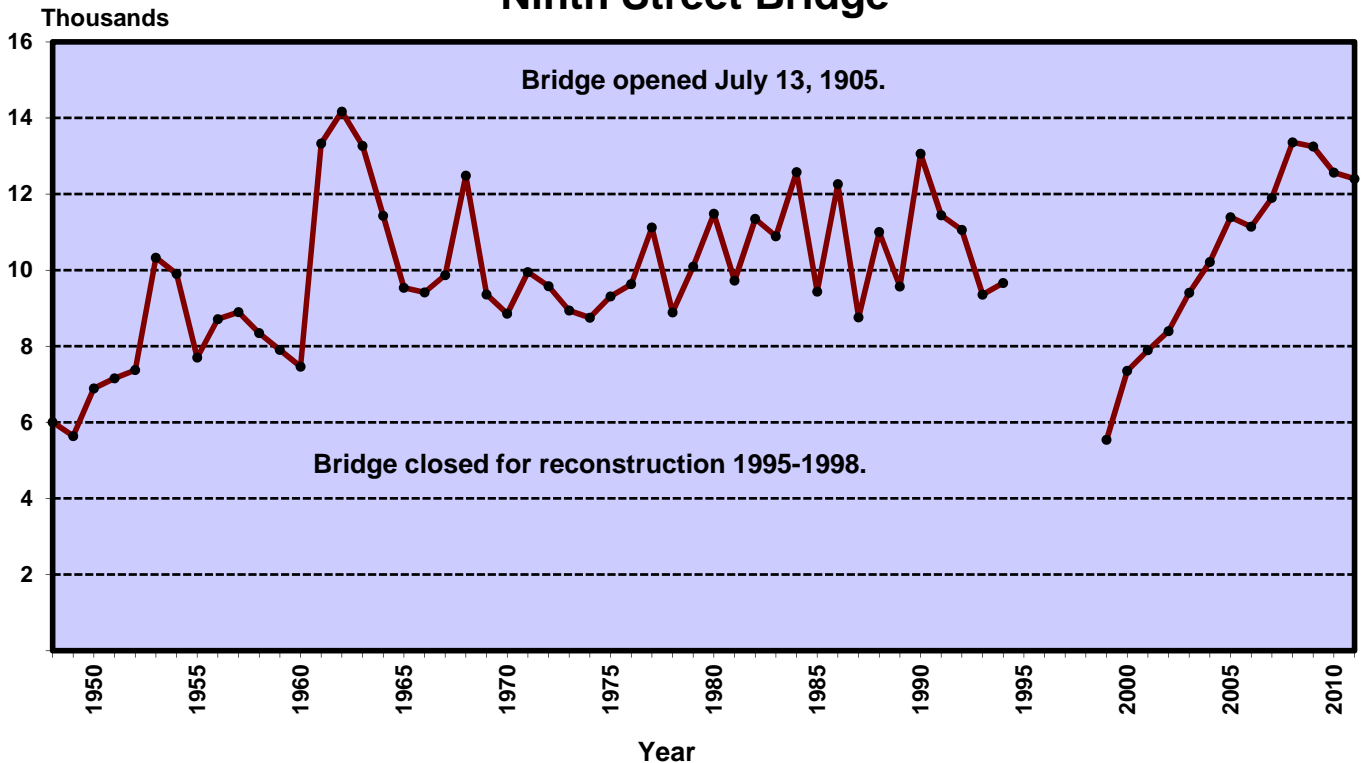
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Ninth Street Bridge ~ 2011



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



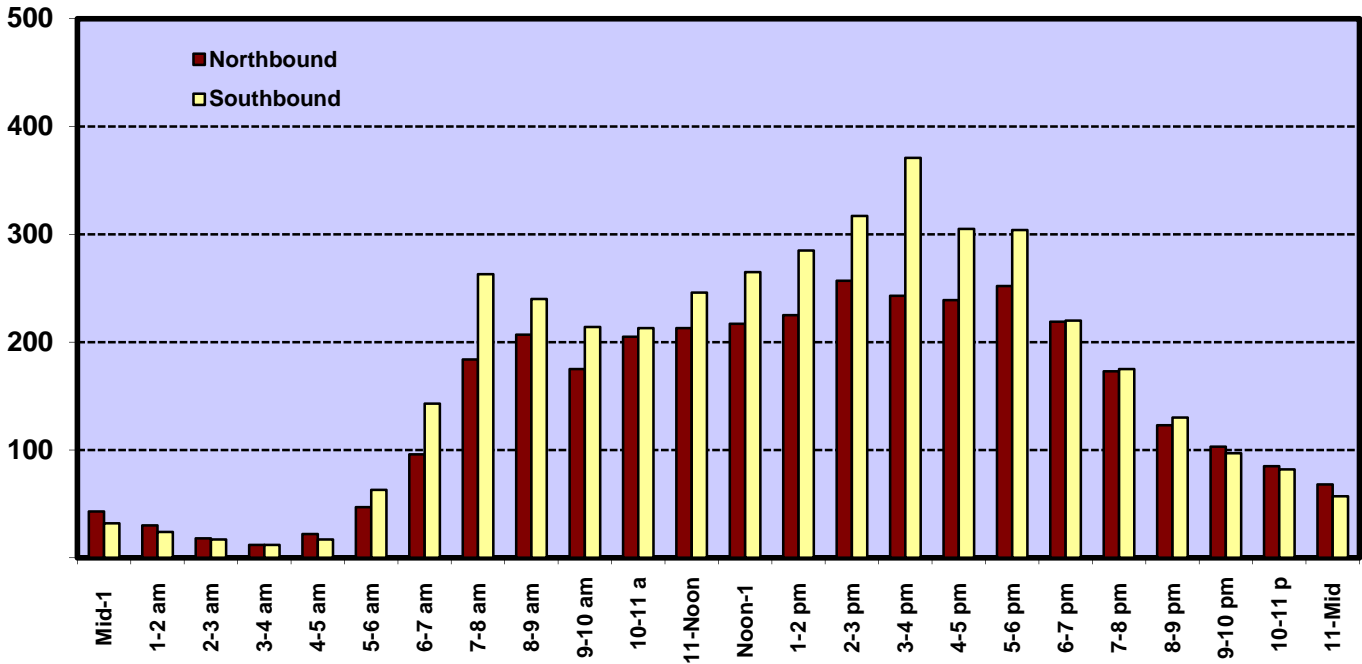
### Hourly Vehicular Volumes Stillwell Avenue Bridge - 2011

	Northbound					Southbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	43	---	---	---	---	---	32
1-2am	---	---	---	---	---	30	---	---	---	---	---	24
2-3am	---	---	---	---	---	18	---	---	---	---	---	17
3-4am	---	---	---	---	---	12	---	---	---	---	---	12
4-5am	---	---	---	---	---	22	---	---	---	---	---	17
5-6am	---	---	---	---	---	47	---	---	---	---	---	63
6-7am	---	---	---	---	---	96	---	---	---	---	---	143
7-8am	146	14	0	24	0	184	205	44	0	14	0	263
8-9am	157	21	0	29	0	207	199	26	0	15	0	240
9-10am	131	20	0	24	0	175	139	13	0	62	0	214
10-11am	146	23	0	36	0	205	154	16	0	43	0	213
11-12am	160	9	0	44	0	213	197	12	0	37	0	246
12-1pm	152	10	0	55	0	217	213	15	0	37	0	265
1-2pm	152	17	0	56	0	225	207	18	0	60	0	285
2-3pm	184	22	0	51	0	257 **	207	24	0	86	0	317 **
3-4pm	188	25	0	30	0	243	303	19	0	49	0	371 **
4-5pm	184	25	0	30	0	239	247	18	0	40	0	305
5-6pm	220	17	0	15	0	252	259	16	0	29	0	304
6-7pm	189	20	0	10	0	219	193	18	0	9	0	220
7-8pm	---	---	---	---	---	173	---	---	---	---	---	175
8-9pm	---	---	---	---	---	123	---	---	---	---	---	130
9-10pm	---	---	---	---	---	103	---	---	---	---	---	97
10-11pm	---	---	---	---	---	85	---	---	---	---	---	82
11-12pm	---	---	---	---	---	68	---	---	---	---	---	57
Totals	---	---	---	---	---	3,456	---	---	---	---	---	4,092
7-10am	434	55	0	77	0	566	543	83	0	91	0	717
10am-1pm	458	42	0	135	0	635	564	43	0	117	0	724
1-4pm	524	64	0	137	0	725	717	61	0	195	0	973
4-7pm	593	62	0	55	0	710	699	52	0	78	0	829
7am-7pm	2,009	223	0	404	0	2,636	2,523	239	0	481	0	3,243
6-10am	---	---	---	---	---	662	---	---	---	---	---	860
3-7pm	781	87	0	85	0	953	1,002	71	0	127	0	1,200
6am-7pm	---	---	---	---	---	2,732	---	---	---	---	---	3,386

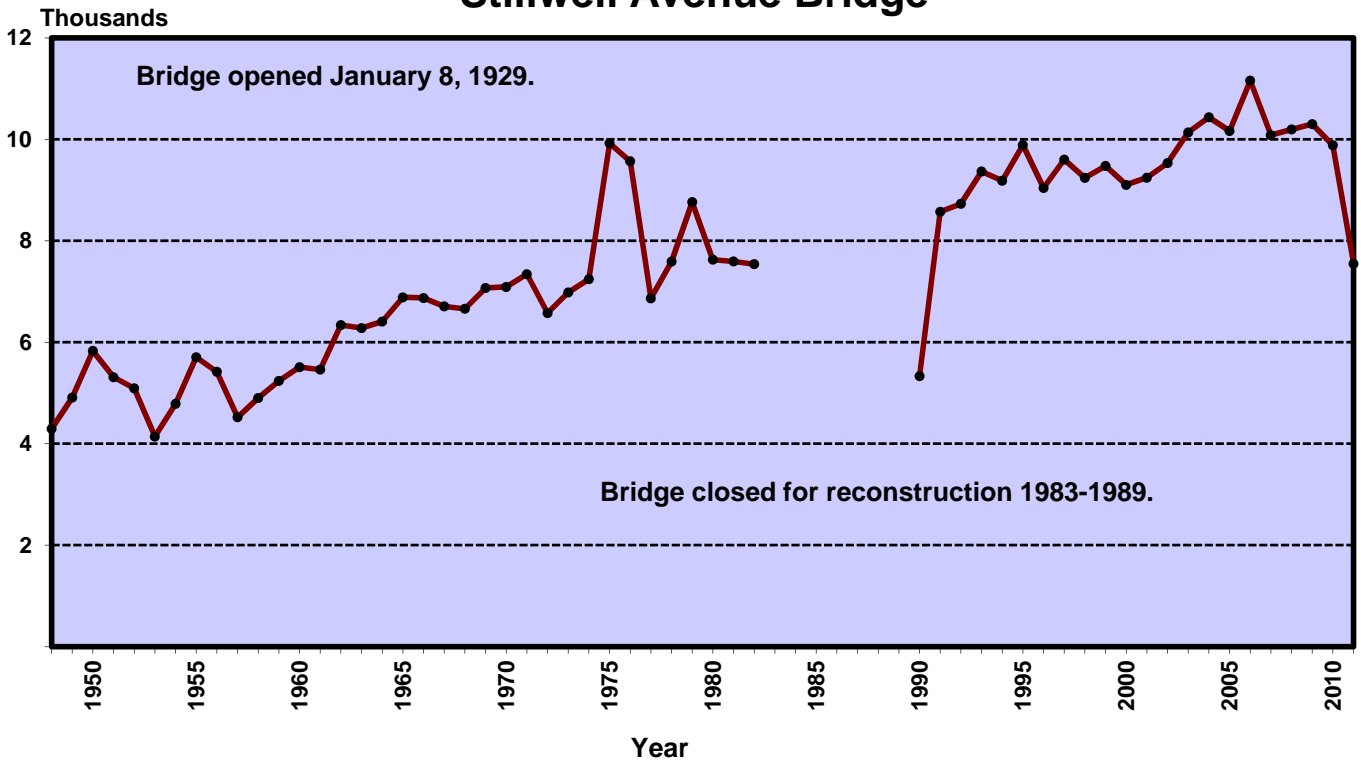
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Stillwell Avenue Bridge ~ 2011



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



### Hourly Vehicular Volumes Third Avenue Bridge - 2011

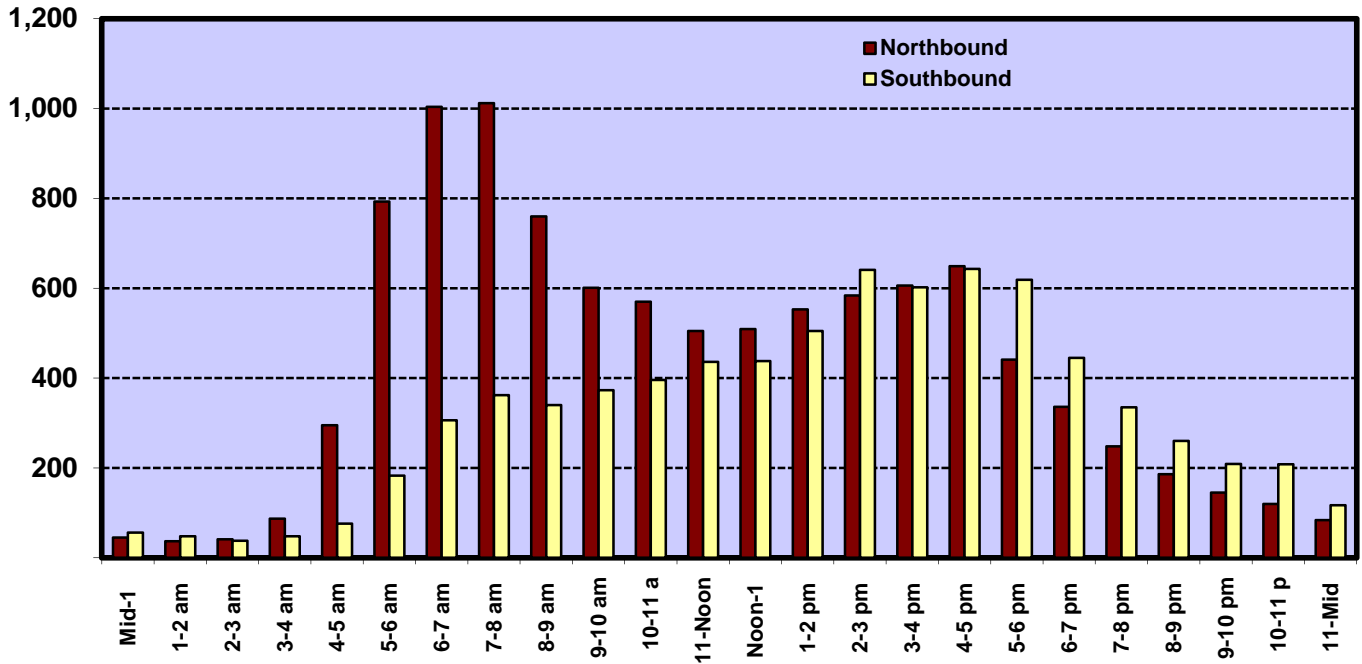
	Northbound					Southbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	45	---	---	---	---	---	56
1-2am	---	---	---	---	---	37	---	---	---	---	---	48
2-3am	---	---	---	---	---	41	---	---	---	---	---	38
3-4am	---	---	---	---	---	87	---	---	---	---	---	48
4-5am	---	---	---	---	---	295	---	---	---	---	---	76
5-6am	---	---	---	---	---	793	---	---	---	---	---	183
6-7am	---	---	---	---	---	1,004	---	---	---	---	---	306
7-8am	801	15	0	113	83	1,012 **	268	7	0	49	38	362
8-9am	631	8	0	65	56	760	246	10	0	55	29	340
9-10am	380	7	0	127	87	601	261	7	2	62	41	373
10-11am	494	9	0	36	31	570	332	5	1	33	25	396
11-12am	370	7	1	79	48	505	326	5	0	62	43	436
12-1pm	458	3	0	28	20	509	388	3	1	24	22	438
1-2pm	437	9	0	62	45	553	437	5	0	34	29	505
2-3pm	380	16	0	109	79	584	469	7	0	104	61	641
3-4pm	502	14	0	48	42	606	548	5	0	21	28	602
4-5pm	506	9	0	65	69	649	521	6	0	53	63	643 **
5-6pm	385	5	0	20	31	441	536	3	0	35	45	619
6-7pm	290	7	0	23	16	336	379	3	0	27	36	445
7-8pm	---	---	---	---	---	248	---	---	---	---	---	335
8-9pm	---	---	---	---	---	186	---	---	---	---	---	260
9-10pm	---	---	---	---	---	145	---	---	---	---	---	209
10-11pm	---	---	---	---	---	120	---	---	---	---	---	208
11-12pm	---	---	---	---	---	84	---	---	---	---	---	117
Totals	---	---	---	---	---	10,211	---	---	---	---	---	7,684
7-10am	1,812	30	0	305	226	2,373	775	24	2	166	108	1,075
10am-1pm	1,322	19	1	143	99	1,584	1,046	13	2	119	90	1,270
1-4pm	1,319	39	0	219	166	1,743	1,454	17	0	159	118	1,748
4-7pm	1,181	21	0	108	116	1,426	1,436	12	0	115	144	1,707
7am-7pm	5,634	109	1	775	607	7,126	4,711	66	4	559	460	5,800
6-10am	---	---	---	---	---	3,377	---	---	---	---	---	1,381
3-7pm	1,683	35	0	156	158	2,032	1,984	17	0	136	172	2,309
6am-7pm	---	---	---	---	---	8,130	---	---	---	---	---	6,106

Based on 1989 Classification Survey Data

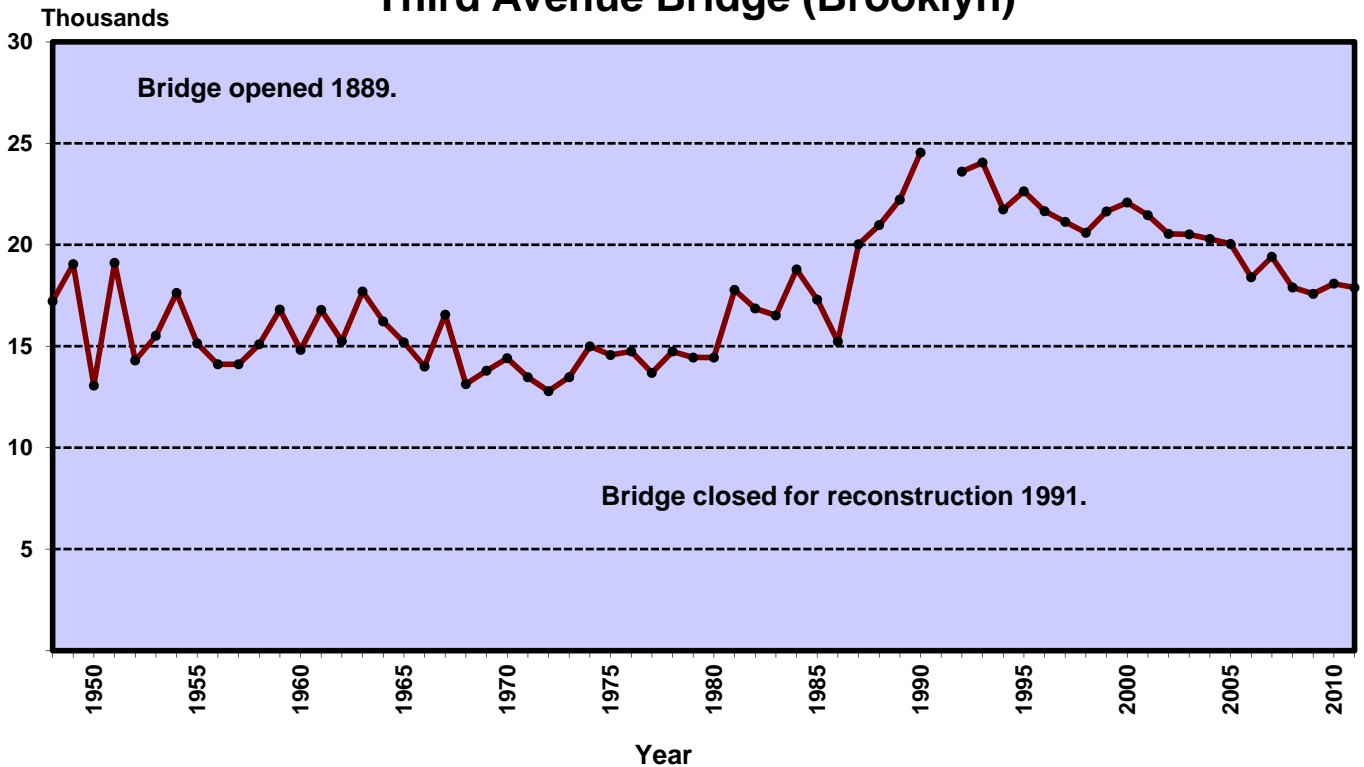
\*\* Peak Volumes



## Hourly Vehicular Volumes Third Avenue Bridge (Brooklyn) ~ 2011



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



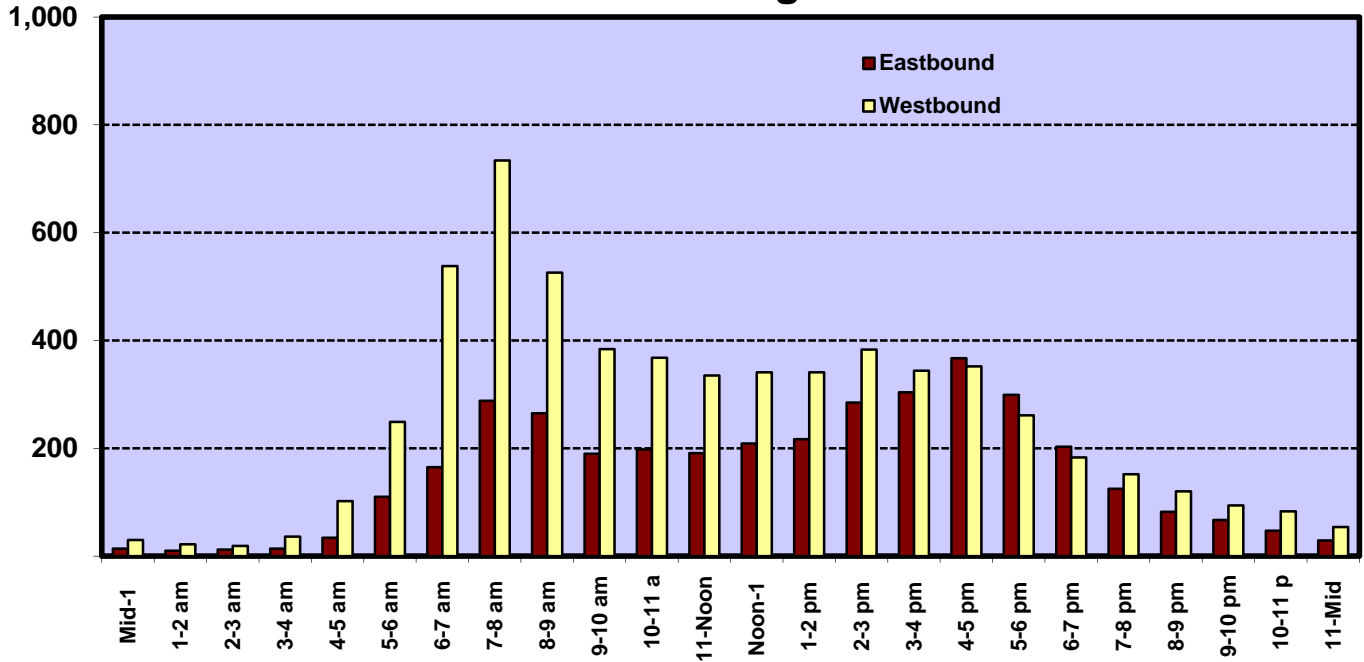
**Hourly Vehicular Volumes+B479  
Third Street Bridge - 2011**

	<b>Eastbound</b>						<b>Westbound</b>						<b>2-Way Totals</b>
	Autos	Buses	Commuter		Commercial		Autos	Buses	Commuter		Commercial		
			Vans	Trucks	Vans	Trucks			Vans	Trucks	Vans	Trucks	
12-1am	---	---	---	---	---	14	---	---	---	---	---	---	30
1-2am	---	---	---	---	---	10	---	---	---	---	---	---	22
2-3am	---	---	---	---	---	12	---	---	---	---	---	---	19
3-4am	---	---	---	---	---	14	---	---	---	---	---	---	36
4-5am	---	---	---	---	---	34	---	---	---	---	---	---	102
5-6am	---	---	---	---	---	110	---	---	---	---	---	---	249
6-7am	---	---	---	---	---	165	---	---	---	---	---	---	538
7-8am	227	9	0	28	24	288	625	14	7	37	51	734	**
8-9am	228	0	0	21	16	265	456	6	3	24	37	526	791
9-10am	144	0	0	20	26	190	319	1	1	29	34	384	574
10-11am	182	0	0	8	8	198	317	0	0	26	25	368	566
11-12am	154	0	2	25	10	191	219	3	2	59	52	335	526
12-1pm	189	0	0	9	11	209	298	3	0	25	15	341	550
1-2pm	209	0	0	0	8	217	276	11	13	22	19	341	558
2-3pm	257	0	0	17	11	285	255	8	39	59	22	383	668
3-4pm	280	10	0	10	4	304	289	10	15	20	10	344	648
4-5pm	331	0	0	12	24	367	277	3	20	38	14	352	719
5-6pm	265	0	0	12	22	299	223	3	12	23	0	261	560
6-7pm	195	0	0	6	2	203	151	3	16	12	1	183	386
7-8pm	---	---	---	---	---	125	---	---	---	---	---	152	277
8-9pm	---	---	---	---	---	82	---	---	---	---	---	120	202
9-10pm	---	---	---	---	---	67	---	---	---	---	---	94	161
10-11pm	---	---	---	---	---	47	---	---	---	---	---	83	130
11-12pm	---	---	---	---	---	29	---	---	---	---	---	54	83
<b>Totals</b>	---	---	---	---	---	<b>3,725</b>	---	---	---	---	---	<b>6,051</b>	<b>9,776</b>
7-10am	599	9	0	69	66	743	1,400	21	11	90	122	1,644	2,387
10am-1pm	525	0	2	42	29	598	834	6	2	110	92	1,044	1,642
1-4pm	746	10	0	27	23	806	820	29	67	101	51	1,068	1,874
4-7pm	791	0	0	30	48	869	651	9	48	73	15	796	1,665
7am-7pm	2,661	19	2	168	166	3,016	3,705	65	128	374	280	4,552	7,568
6-10am	---	---	---	---	---	908	---	---	---	---	---	2,182	3,090
3-7pm	1,071	10	0	40	52	1,173	940	19	63	93	25	1,140	2,313
6am-7pm	---	---	---	---	---	3,181	---	---	---	---	---	5,090	8,271

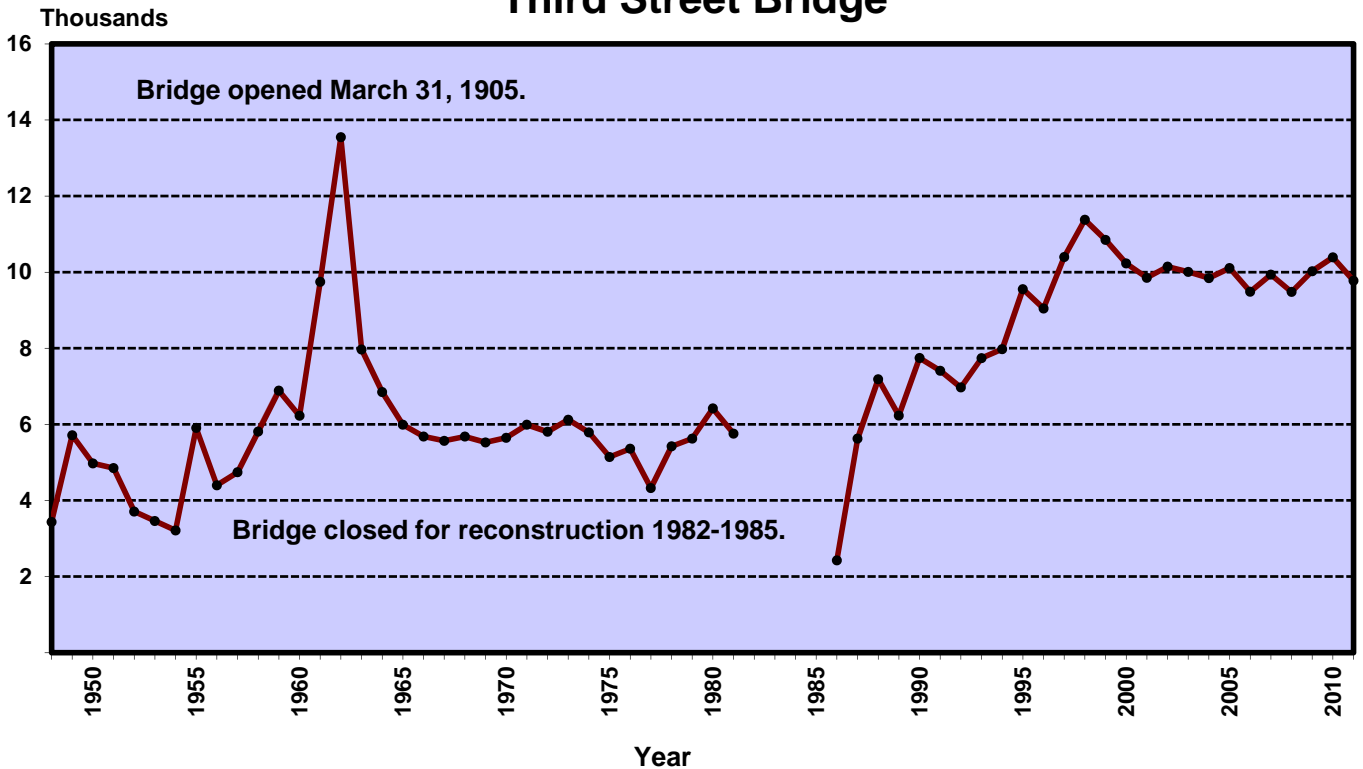
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Third Street Bridge ~ 2011



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



## Hourly Vehicular Volumes Union Street Bridge - 2011

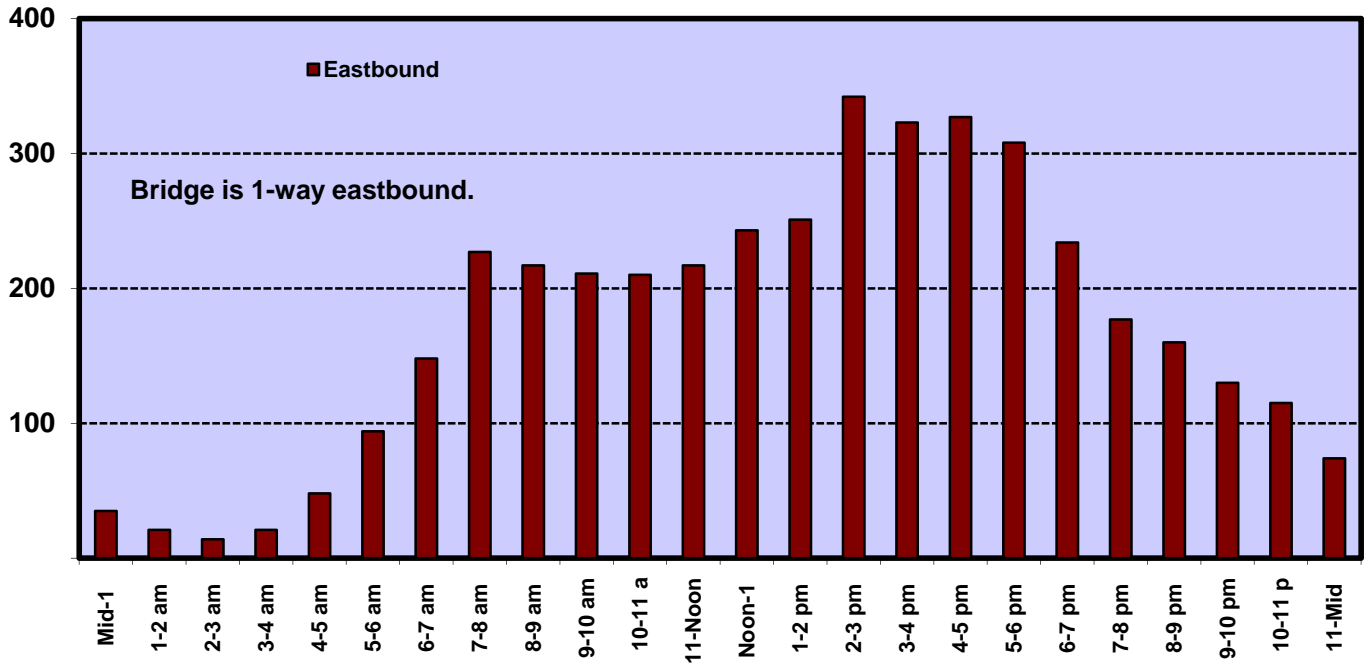
	<i>Eastbound</i>					<i>Westbound</i>					<b>Grand Totals</b>	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	35	---	---	---	---	---	35
1-2am	---	---	---	---	---	21	---	---	---	---	---	21
2-3am	---	---	---	---	---	14	---	---	---	---	---	14
3-4am	---	---	---	---	---	21	---	---	---	---	---	21
4-5am	---	---	---	---	---	48	---	---	---	---	---	48
5-6am	---	---	---	---	---	94	---	---	---	---	---	94
6-7am	---	---	---	---	---	148	---	---	---	---	---	148
7-8am	180	10	0	18	19	227	---	---	---	---	---	227
8-9am	166	8	0	23	20	217	---	---	---	---	---	217
9-10am	157	4	0	17	33	211	---	---	---	---	---	211
10-11am	190	4	0	7	9	210	---	---	---	---	---	210
11-12am	173	2	0	20	22	217	---	---	---	---	---	217
12-1pm	212	1	0	10	20	243	---	---	---	---	---	243
1-2pm	218	5	0	14	14	251	---	---	---	---	---	251
2-3pm	255	5	0	47	35	342 **	---	---	---	---	---	342 **
3-4pm	294	3	0	14	12	323	---	---	---	---	---	323
4-5pm	283	2	0	18	24	327	---	---	---	---	---	327
5-6pm	286	1	0	6	15	308	---	---	---	---	---	308
6-7pm	207	1	0	11	15	234	---	---	---	---	---	234
7-8pm	---	---	---	---	---	177	---	---	---	---	---	177
8-9pm	---	---	---	---	---	160	---	---	---	---	---	160
9-10pm	---	---	---	---	---	130	---	---	---	---	---	130
10-11pm	---	---	---	---	---	115	---	---	---	---	---	115
11-12pm	---	---	---	---	---	74	---	---	---	---	---	74
<b>Totals</b>	---	---	---	---	---	4,147	---	---	---	---	---	4,147
7-10am	503	22	0	58	72	655	---	---	---	---	---	655
10am-1pm	575	7	0	37	51	670	---	---	---	---	---	670
1-4pm	767	13	0	75	61	916	---	---	---	---	---	916
4-7pm	776	4	0	35	54	869	---	---	---	---	---	869
7am-7pm	2,621	46	0	205	238	3,110	---	---	---	---	---	3,110
6-10am	---	---	---	---	---	803	---	---	---	---	---	803
3-7pm	1,070	7	0	49	66	1,192	---	---	---	---	---	1,192
6am-7pm	---	---	---	---	---	3,258	---	---	---	---	---	3,258

*Bridge is 1-way eastbound*

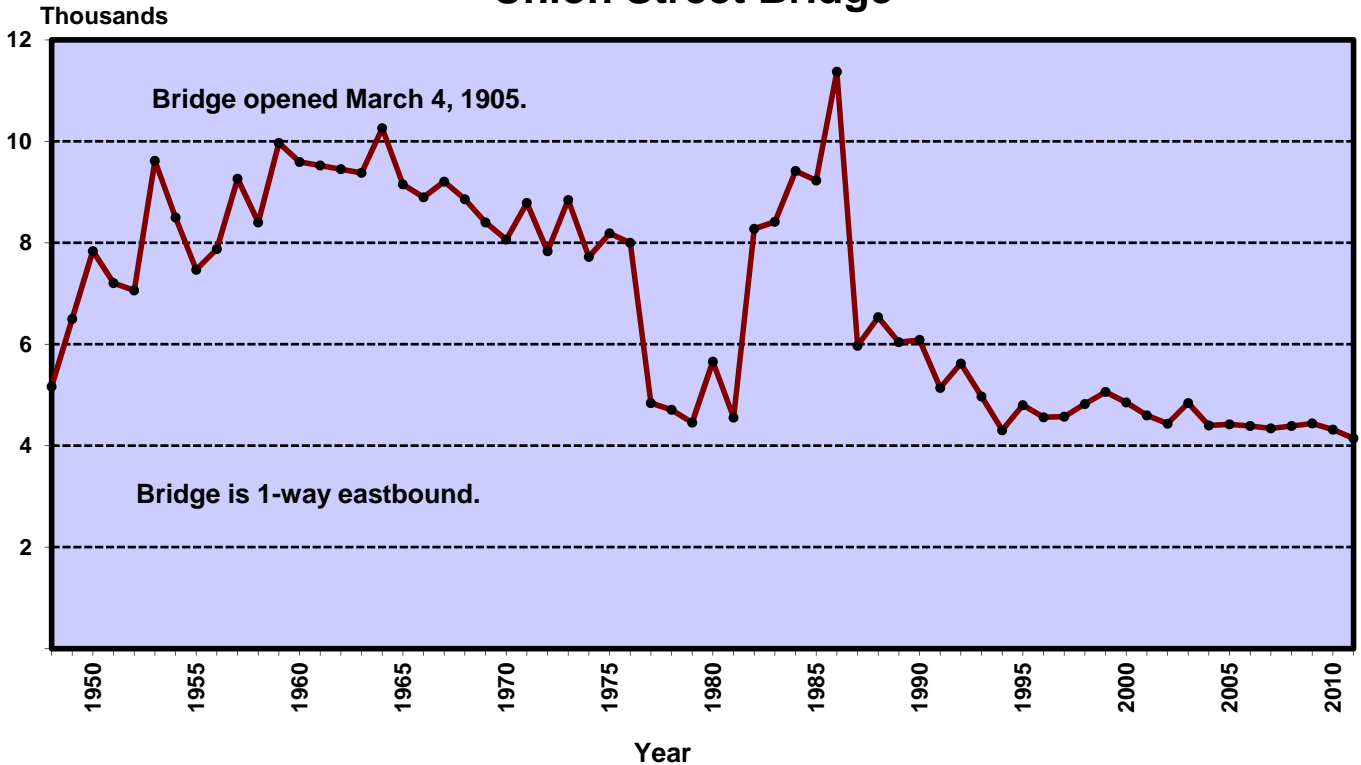
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Union Street Bridge ~ 2011



## Average Daily Traffic Volumes Union Street Bridge





# Queens Bridges



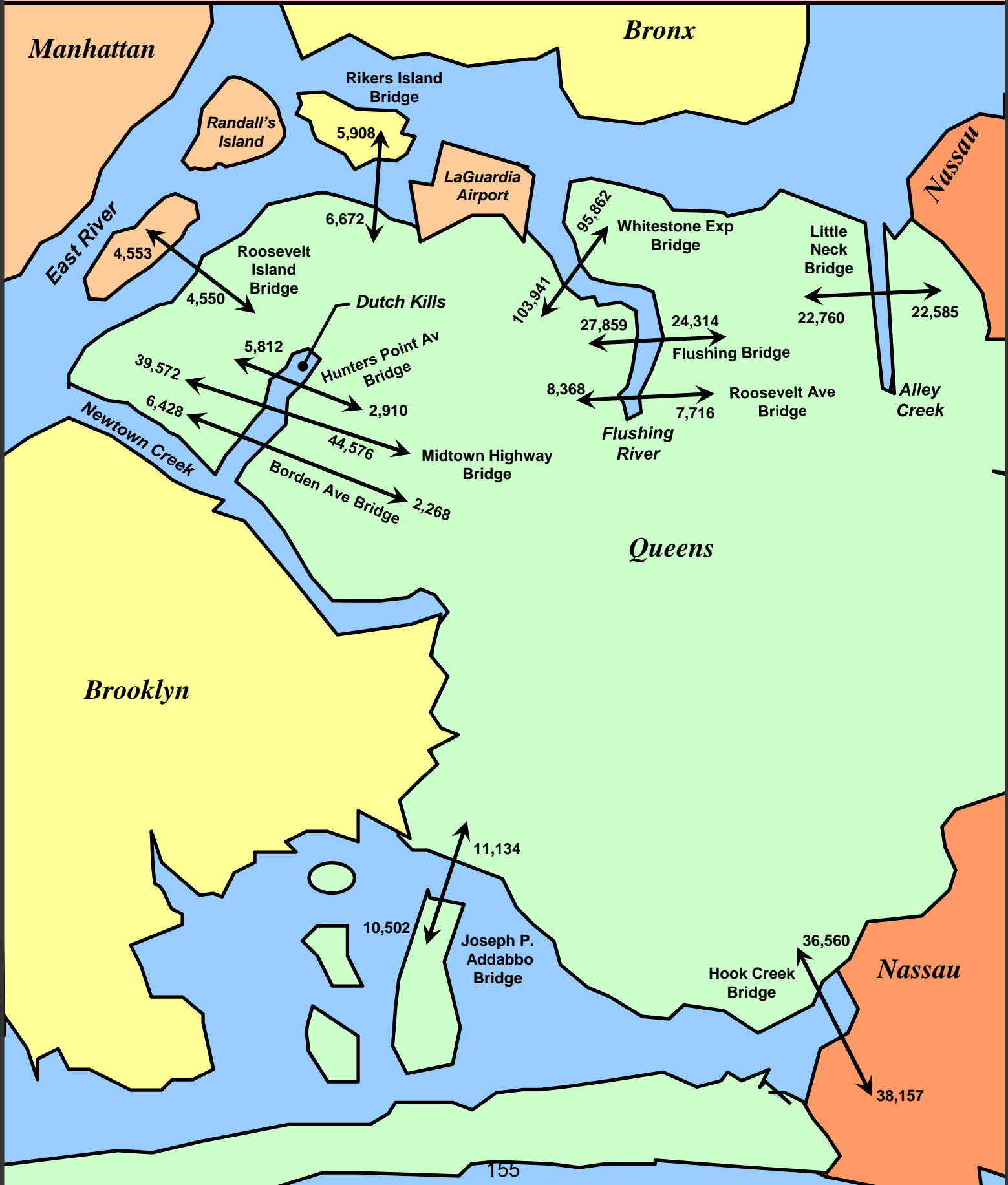
Midtown Highway Bridge on Long Island Expressway over Dutch Kills





# QUEENS BRIDGES

## 2011 Daily Volumes



**Queens Bridges ~ Average Daily Traffic Volumes  
1948 - 2011**

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

\* North Channel Bridge.

**Queens Bridges (cont'd) ~ Average Daily Traffic Volumes  
1948 - 2011**

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

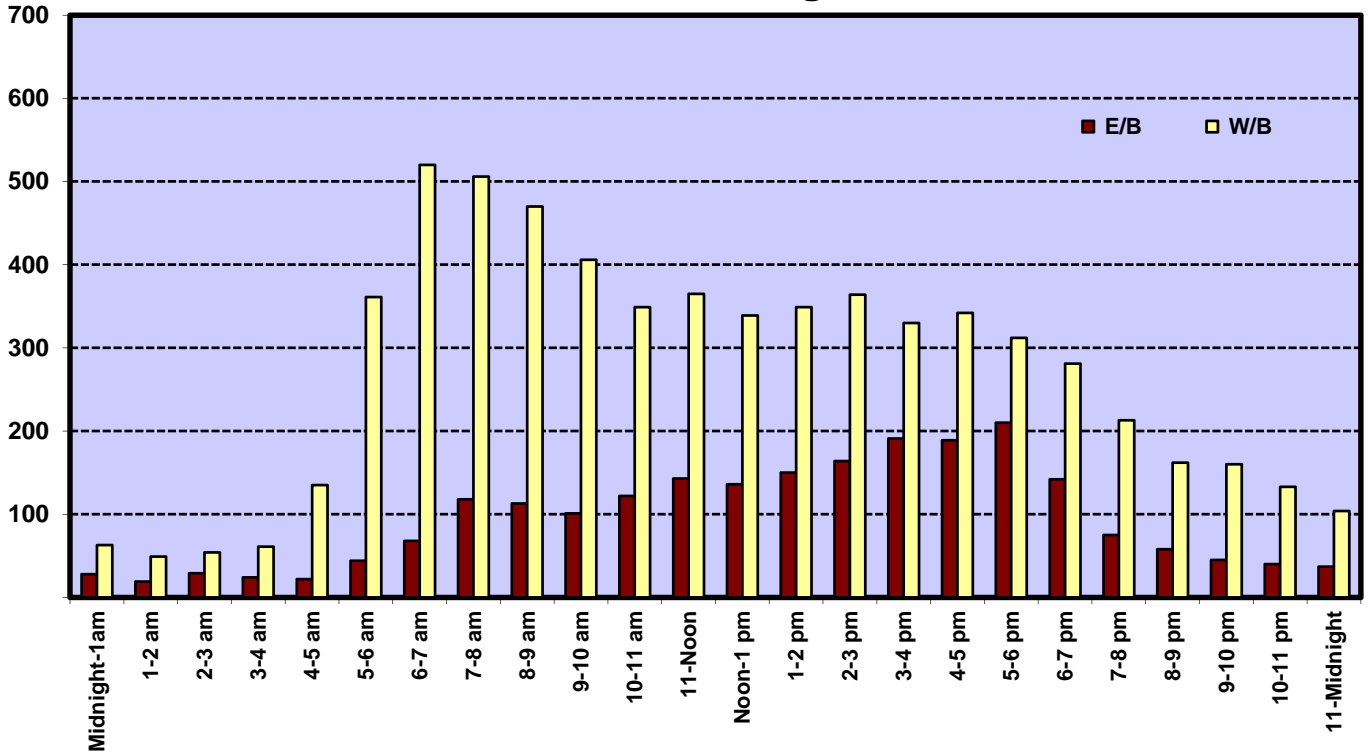
## Hourly Vehicular Volumes Borden Avenue Bridge - 2011

	Eastbound						Westbound						2-Way Totals
	Autos		Commuter		Commercial		Autos		Commuter		Commercial		
	Buses	Vans	Trucks	Vans	Totals	Totals	Totals	Buses	Vans	Trucks	Vans	Totals	
12-1am	---	---	---	---	28	---	---	---	---	---	---	63	91
1-2am	---	---	---	---	19	---	---	---	---	---	---	49	68
2-3am	---	---	---	---	29	---	---	---	---	---	---	54	83
3-4am	---	---	---	---	24	---	---	---	---	---	---	61	85
4-5am	---	---	---	---	22	---	---	---	---	---	---	135	157
5-6am	---	---	---	---	44	---	---	---	---	---	---	361	405
6-7am	---	---	---	---	68	---	---	---	---	---	---	520	588
7-8am	65	2	30	16	118	386	8	15	48	49	49	506	624
8-9am	55	3	35	17	113	404	4	6	39	17	17	470	583
9-10am	47	3	32	18	101	315	2	6	51	32	32	406	507
10-11am	84	4	22	10	122	305	5	3	27	9	9	349	471
11-12am	67	2	50	22	143	253	5	5	74	28	28	365	508
12-1pm	102	3	19	10	136	286	4	3	35	11	11	339	475
1-2pm	113	2	23	11	150	280	4	3	38	24	24	349	499
2-3pm	83	1	47	22	164	259	7	6	69	23	23	364	528
3-4pm	161	2	17	6	191	273	21	2	23	11	11	330	521
4-5pm	144	3	19	14	189	257	23	6	44	12	12	342	531
5-6pm	168	2	24	11	210	267	12	5	15	13	13	312	522
6-7pm	102	1	19	13	142	235	9	7	19	11	11	281	423
7-8pm	---	---	---	---	75	---	---	---	---	---	---	213	288
8-9pm	---	---	---	---	58	---	---	---	---	---	---	162	220
9-10pm	---	---	---	---	45	---	---	---	---	---	---	160	205
10-11pm	---	---	---	---	40	---	---	---	---	---	---	133	173
11-12pm	---	---	---	---	37	---	---	---	---	---	---	104	141
Totals	---	---	---	---	2,268	---	---	---	---	---	---	6,428	8,696
7-10am	167	11	6	51	332	1,105	14	27	138	98	98	1,382	1,714
10am-1pm	253	7	8	42	401	844	14	11	136	48	48	1,053	1,454
1-4pm	357	4	18	39	505	812	32	11	130	58	58	1,043	1,548
4-7pm	414	6	21	38	541	759	44	18	78	36	36	935	1,476
7am-7pm	1,191	28	53	170	1,779	3,520	104	67	482	240	240	4,413	6,192
6-10am	---	---	---	---	400	---	---	---	---	---	---	1,902	2,302
3-7pm	575	8	26	44	732	1,032	65	20	101	47	47	1,265	1,997
6am-7pm	---	---	---	---	1,847	---	---	---	---	---	---	4,933	6,780

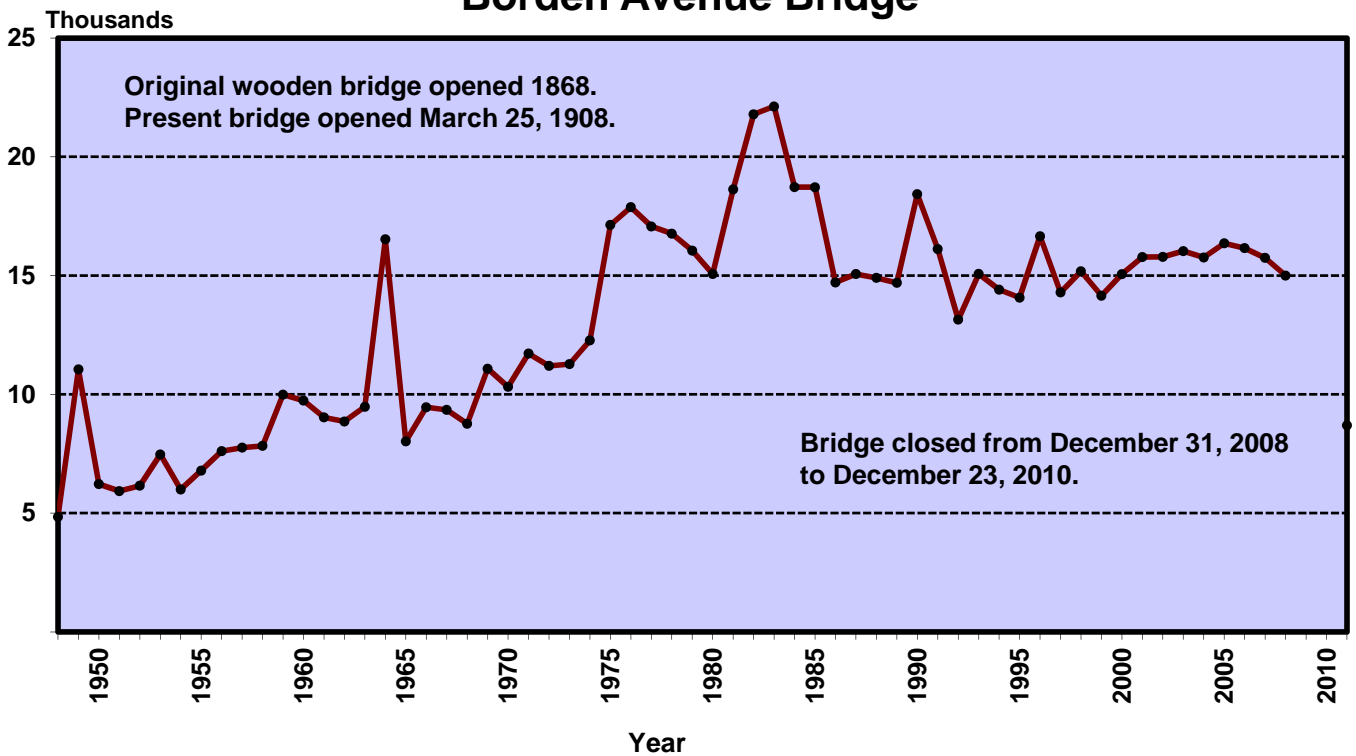
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Borden Avenue Bridge ~ 2011



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



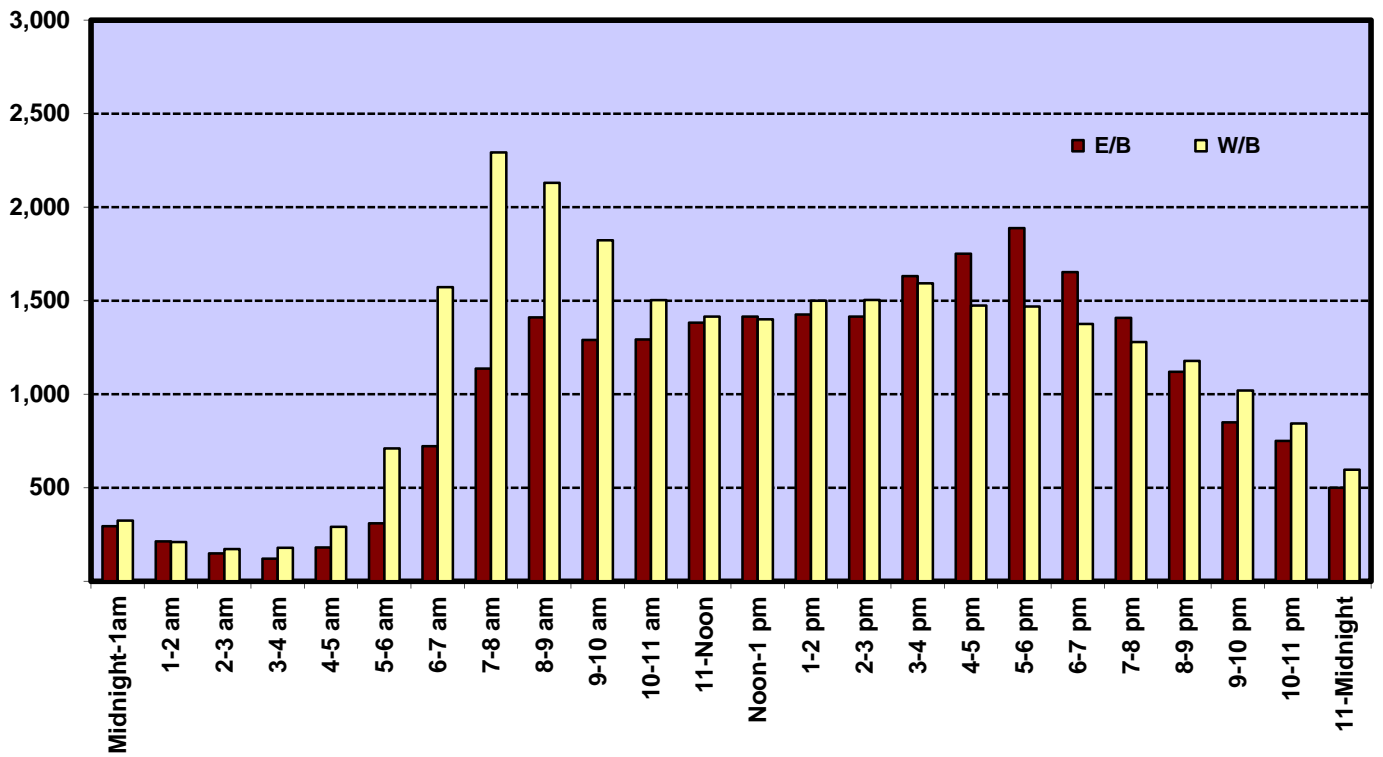
## Hourly Vehicular Volumes Flushing Bridge - 2011

	Eastbound					Westbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	295	---	---	---	---	---	325
1-2am	---	---	---	---	---	213	---	---	---	---	---	210
2-3am	---	---	---	---	---	149	---	---	---	---	---	172
3-4am	---	---	---	---	---	121	---	---	---	---	---	179
4-5am	---	---	---	---	---	181	---	---	---	---	---	291
5-6am	---	---	---	---	---	310	---	---	---	---	---	710
6-7am	---	---	---	---	722	---	---	---	---	---	---	1,573
7-8am	905	40	6	78	108	1,137	1,929	12	49	211	92	2,293 **
8-9am	1,133	27	17	109	125	1,411	1,726	21	43	227	113	2,130
9-10am	1,055	11	27	114	83	1,290	1,385	10	55	142	231	1,823
10-11am	1,135	14	16	58	70	1,293	1,333	11	14	67	78	1,503
11-12am	1,054	7	41	104	177	1,383	1,144	2	22	108	139	1,415
12-1pm	1,255	7	22	51	80	1,415	1,247	5	5	65	79	1,401
1-2pm	1,223	17	14	56	116	1,426	1,366	12	21	62	39	1,500
2-3pm	997	22	26	106	264	1,415	1,252	19	50	87	87	1,504
3-4pm	1,402	16	15	44	155	1,632	1,458	27	20	47	41	1,593
4-5pm	1,408	12	26	55	250	1,751	1,302	10	29	53	80	1,474
5-6pm	1,584	12	14	46	232	1,888 **	1,291	6	42	47	83	1,469
6-7pm	1,434	7	8	30	174	1,653	1,278	7	13	33	45	1,376
7-8pm	---	---	---	---	---	1,408	---	---	---	---	---	1,279
8-9pm	---	---	---	---	---	1,120	---	---	---	---	---	1,178
9-10pm	---	---	---	---	---	850	---	---	---	---	---	1,020
10-11pm	---	---	---	---	---	751	---	---	---	---	---	844
11-12pm	---	---	---	---	---	500	---	---	---	---	---	597
Totals	---	---	---	---	---	24,314	---	---	---	---	---	27,859
7-10am	3,093	78	50	301	316	3,838	5,040	43	147	347	669	6,246
10am-1pm	3,444	28	79	213	327	4,091	3,724	18	41	240	296	4,319
1-4pm	3,622	55	55	206	535	4,473	4,076	58	91	205	167	4,597
4-7pm	4,426	31	48	131	656	5,292	3,871	23	84	133	208	4,319
7am-7pm	14,585	192	232	851	1,834	17,694	16,711	142	363	925	1,340	19,481
6-10am	---	---	---	---	---	4,560	---	---	---	---	---	7,819
3-7pm	5,828	47	63	175	811	6,924	5,329	50	104	180	249	5,912
6am-7pm	---	---	---	---	---	18,416	---	---	---	---	---	21,054

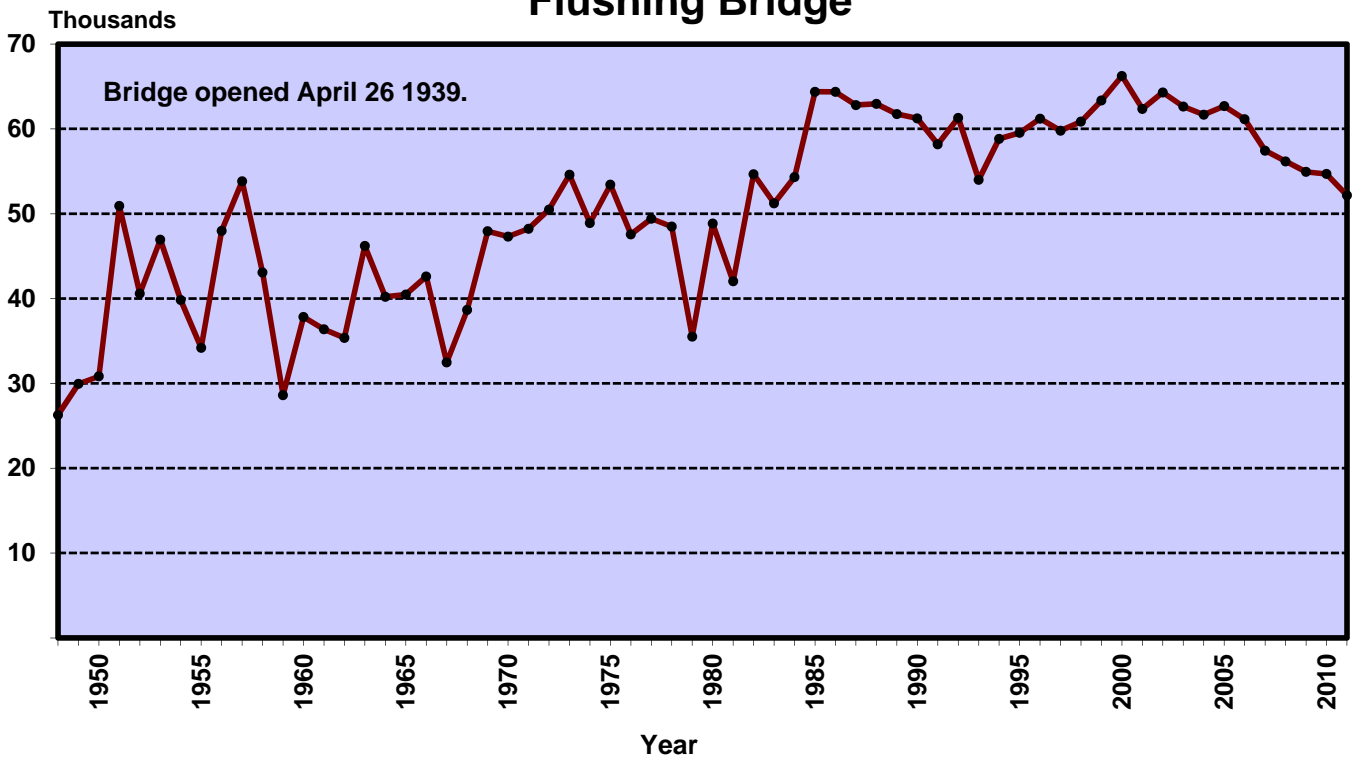
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Flushing Bridge ~ 2011



## Average Daily Traffic Volumes ~ Total of Both Directions Flushing Bridge



## Hourly Vehicular Volumes Hook Creek Bridge - 2011

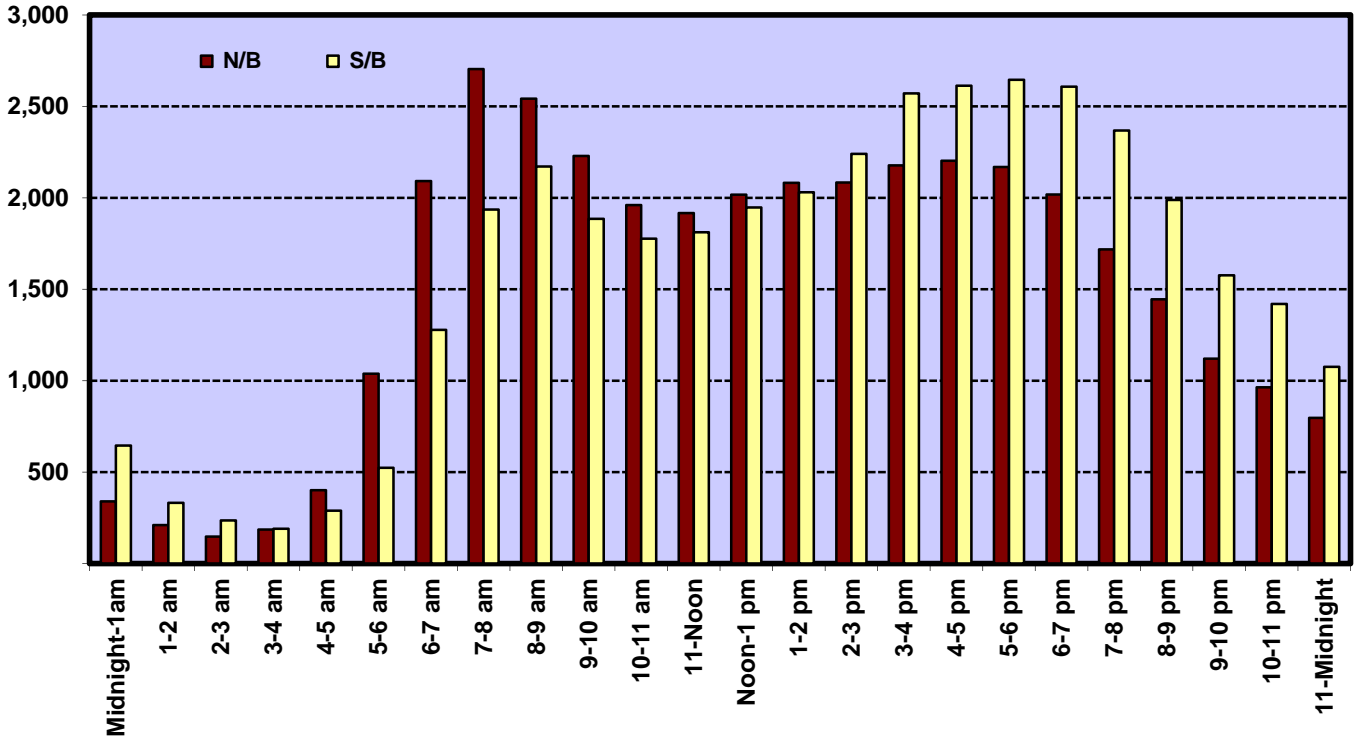
	Northbound					Southbound					2-Way Totals	
	Autos	Buses	Commuter		Commercial Vans	Autos	Buses	Commuter		Commercial Vans		Totals
			Vans	Trucks				Vans	Trucks			
12-1am	---	---	---	---	---	---	---	---	---	---	---	645
1-2am	---	---	---	---	---	---	---	---	---	---	---	332
2-3am	---	---	---	---	---	---	---	---	---	---	---	236
3-4am	---	---	---	---	---	---	---	---	---	---	---	190
4-5am	---	---	---	---	---	---	---	---	---	---	---	289
5-6am	---	---	---	---	---	---	---	---	---	---	---	524
6-7am	---	---	---	---	---	---	---	---	---	---	---	1,278
7-8am	2,503	18	61	78	44	1,540	14	140	102	102	1,936	3,370
8-9am	2,250	18	83	121	70	1,779	10	135	90	90	2,171	4,640
9-10am	1,935	7	67	148	72	1,592	7	79	81	81	1,885	4,713
10-11am	1,849	2	13	52	44	1,659	2	12	47	47	1,777	4,114
11-12am	1,600	10	43	181	83	1,611	2	13	103	83	1,812	3,737
12-1pm	1,902	9	26	59	21	1,866	0	12	43	26	1,947	3,729
1-2pm	1,899	14	43	73	53	1,788	6	63	51	51	2,030	3,964
2-3pm	1,866	16	46	82	74	2,029	3	33	80	80	2,240	4,112
3-4pm	2,091	33	11	26	16	2,464	3	20	45	45	2,571	4,324
4-5pm	2,088	11	26	44	34	2,445	3	42	57	66	2,613	4,748
5-6pm	2,000	12	37	39	81	2,463	7	59	41	75	2,645	4,816 **
6-7pm	1,920	12	43	24	19	2,490	4	51	37	26	2,608	4,814
7-8pm	---	---	---	---	---	---	---	---	---	---	---	4,626
8-9pm	---	---	---	---	---	---	---	---	---	---	---	4,086
9-10pm	---	---	---	---	---	---	---	---	---	---	---	3,433
10-11pm	---	---	---	---	---	---	---	---	---	---	---	2,696
11-12pm	---	---	---	---	---	---	---	---	---	---	---	2,384
Totals	---	---	---	---	---	---	---	---	---	---	---	1,076
												74,717
7-10am	6,688	43	211	347	186	4,911	31	354	423	273	5,992	13,467
10am-1pm	5,351	21	82	292	148	5,136	4	37	203	156	5,536	11,430
1-4pm	5,856	63	100	181	143	6,281	12	116	256	176	6,841	13,184
4-7pm	6,008	35	106	107	134	7,398	14	152	135	167	7,866	14,256
7am-7pm	23,903	162	499	927	611	23,726	61	659	1,017	772	26,235	52,337
6-10am												7,270
3-7pm	8,099	68	117	133	150	9,862	17	172	174	212	10,437	19,004
6am-7pm												27,513

Based on 1989 Classification Survey Data

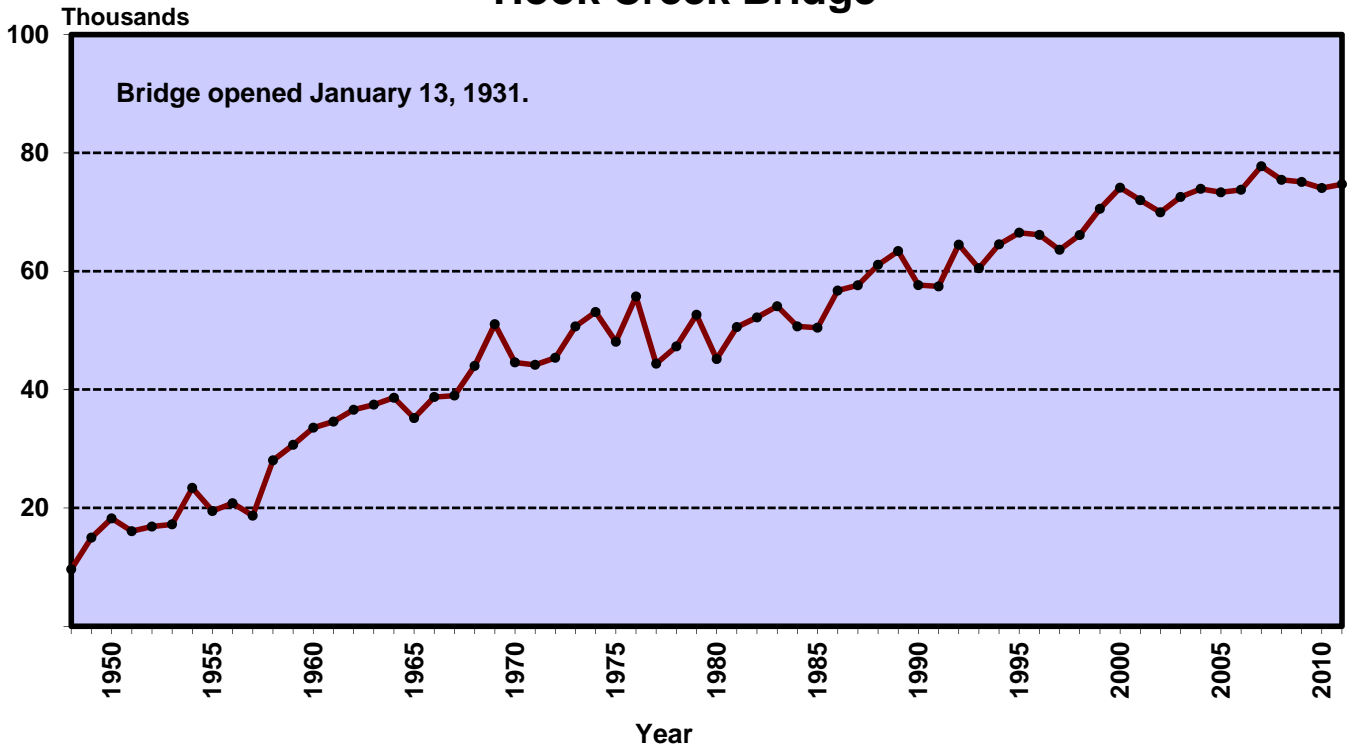
\*\* Peak Volumes



## Hourly Vehicular Volumes Hook Creek Bridge ~ 2011



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



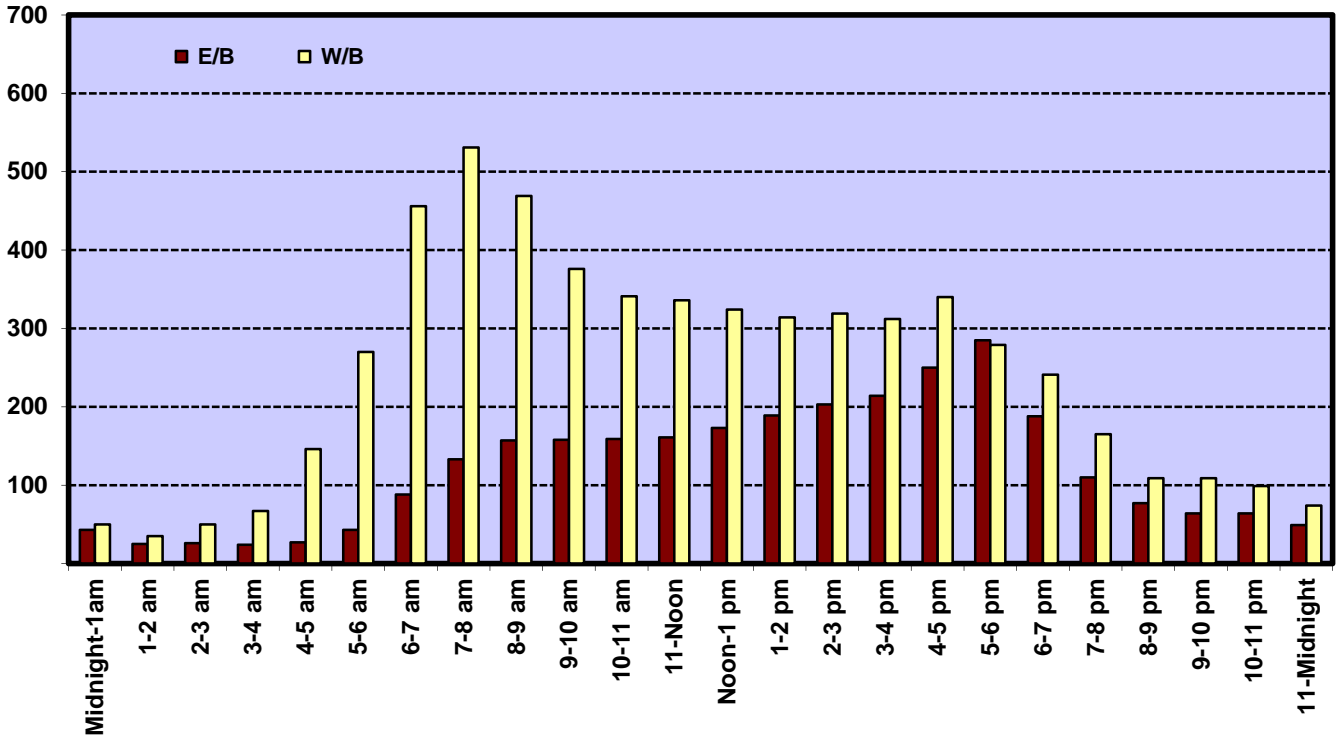
## Hourly Vehicular Volumes Hunters Point Bridge - 2011

	Eastbound					Westbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	43	---	---	---	---	---	50
1-2am	---	---	---	---	---	25	---	---	---	---	---	35
2-3am	---	---	---	---	---	26	---	---	---	---	---	50
3-4am	---	---	---	---	---	24	---	---	---	---	---	67
4-5am	---	---	---	---	---	27	---	---	---	---	---	146
5-6am	---	---	---	---	---	43	---	---	---	---	---	270
6-7am	---	---	---	---	---	88	---	---	---	---	---	456
7-8am	94	0	13	15	11	133	395	2	22	35	77	531 **
8-9am	89	0	5	23	40	157	395	0	8	32	34	469
9-10am	97	0	2	27	32	158	267	0	4	50	55	376
10-11am	132	0	4	18	5	159	288	0	2	31	20	341
11-12am	101	1	8	29	22	161	241	0	2	58	35	336
12-1pm	126	0	7	20	20	173	258	0	2	38	26	324
1-2pm	136	0	11	20	22	189	250	4	4	27	29	314
2-3pm	120	0	17	33	33	203	229	11	2	39	38	319
3-4pm	179	0	8	20	7	214	293	4	1	10	4	312
4-5pm	181	0	14	20	35	250	239	51	2	12	36	340
5-6pm	241	0	14	3	27	285 **	231	12	1	17	18	279
6-7pm	156	2	3	8	19	188	205	5	4	7	20	241
7-8pm	---	---	---	---	---	110	---	---	---	---	---	165
8-9pm	---	---	---	---	---	77	---	---	---	---	---	109
9-10pm	---	---	---	---	---	64	---	---	---	---	---	109
10-11pm	---	---	---	---	---	64	---	---	---	---	---	99
11-12pm	---	---	---	---	---	49	---	---	---	---	---	74
Totals	---	---	---	---	---	2,910	---	---	---	---	---	5,812
7-10am	280	0	20	65	83	448	1,057	2	34	117	166	1,824
10am-1pm	359	1	19	67	47	493	787	0	6	127	81	1,494
1-4pm	435	0	36	73	62	606	772	19	7	76	71	1,551
4-7pm	578	2	31	31	81	723	675	68	7	36	74	1,583
7am-7pm	1,652	3	106	236	273	2,270	3,291	89	54	356	392	6,452
6-10am	---	---	---	---	---	536	---	---	---	---	---	1,832
3-7pm	757	2	39	51	88	937	968	72	8	46	78	1,172
6am-7pm	---	---	---	---	---	2,358	---	---	---	---	---	4,638

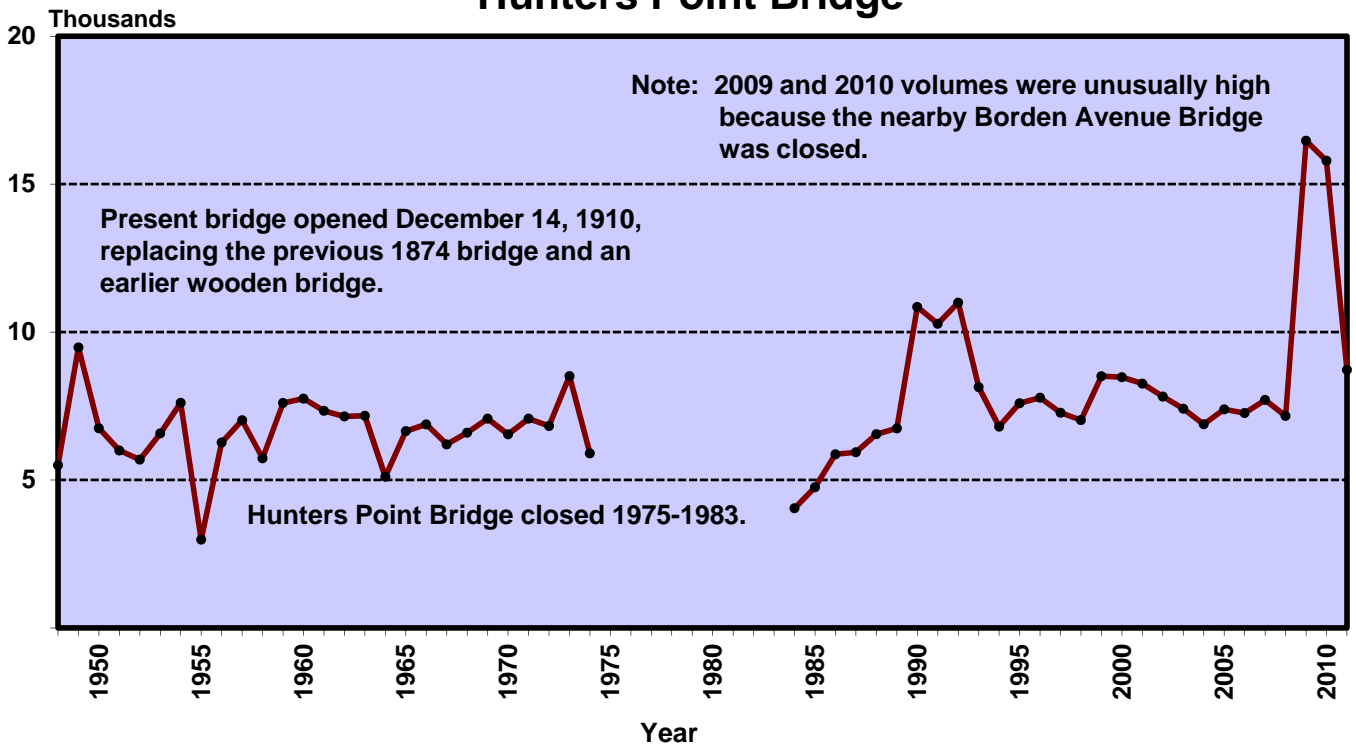
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Hunters Point Bridge ~ 2011



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



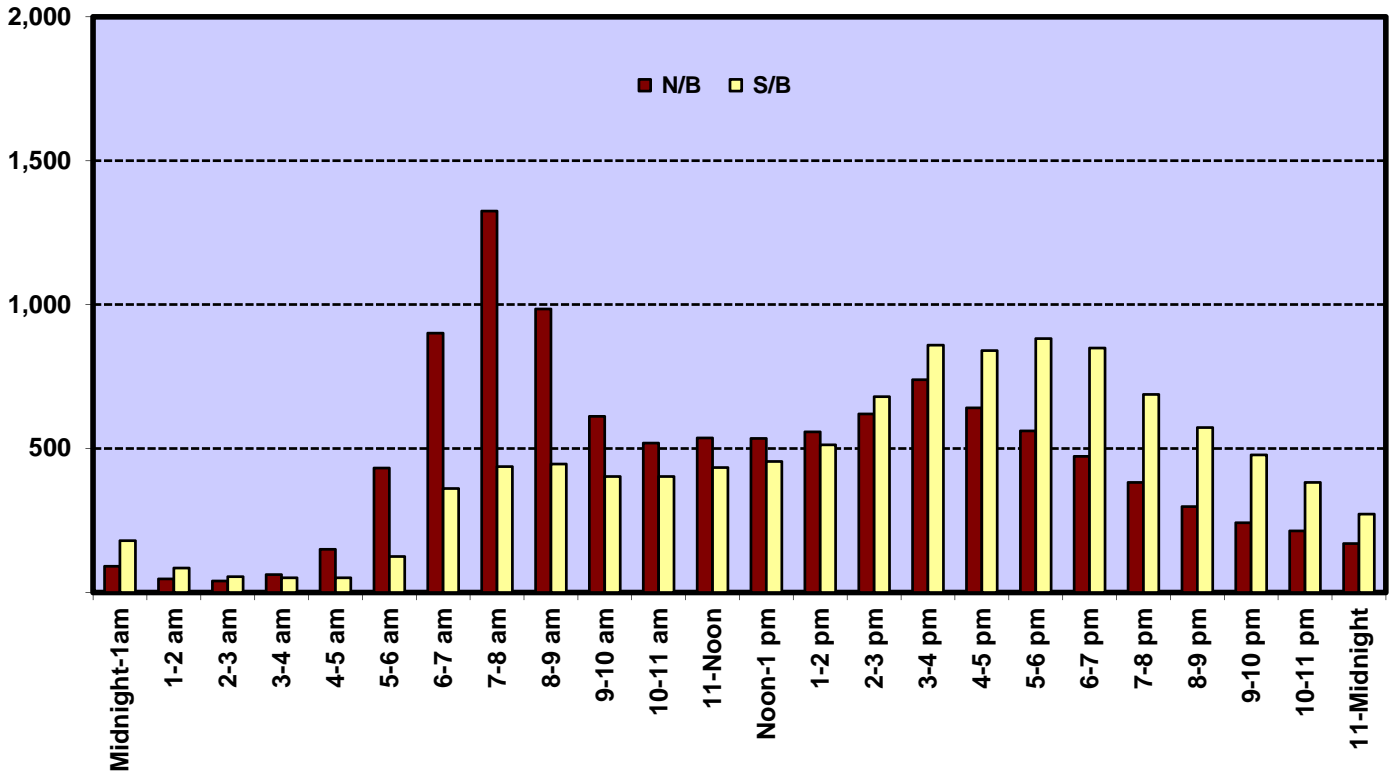
**Hourly Vehicular Volumes  
Joseph P. Addabbo Memorial Bridge - 2011  
(North Channel Bridge)**

	<b>Northbound</b>					<b>Southbound</b>					<b>2-Way Totals</b>	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	91	---	---	---	---	---	180
1-2am	---	---	---	---	---	47	---	---	---	---	---	85
2-3am	---	---	---	---	---	40	---	---	---	---	---	55
3-4am	---	---	---	---	---	62	---	---	---	---	---	51
4-5am	---	---	---	---	---	150	---	---	---	---	---	51
5-6am	---	---	---	---	---	432	---	---	---	---	---	125
6-7am	---	---	---	---	---	901	---	---	---	---	---	361
7-8am	1,213	33	20	23	36	1,325 **	318	22	6	34	57	437
8-9am	833	28	19	40	65	985	331	23	1	36	55	446
9-10am	507	8	6	57	34	612	277	16	3	50	57	403
10-11am	471	9	7	24	8	519	349	10	0	17	27	403
11-12am	426	8	8	52	43	537	317	7	0	46	64	434
12-1pm	463	14	0	30	28	535	407	10	0	15	23	455
1-2pm	517	4	4	18	15	558	468	6	0	13	26	513
2-3pm	511	19	9	44	37	620	542	28	4	28	78	680
3-4pm	664	23	11	20	21	739	750	25	0	25	59	859
4-5pm	532	29	12	39	29	641	714	9	2	29	86	840
5-6pm	493	8	14	25	21	561	803	6	0	18	55	882 **
6-7pm	398	7	16	20	32	473	764	6	4	10	65	849
7-8pm	---	---	---	---	---	382	---	---	---	---	---	688
8-9pm	---	---	---	---	---	298	---	---	---	---	---	573
9-10pm	---	---	---	---	---	242	---	---	---	---	---	478
10-11pm	---	---	---	---	---	214	---	---	---	---	---	382
11-12pm	---	---	---	---	---	170	---	---	---	---	---	272
Totals	---	---	---	---	---	11,134	---	---	---	---	---	10,502
7-10am	2,553	69	45	120	135	2,922	926	61	10	120	169	1,286
10am-1pm	1,360	31	15	106	79	1,591	1,073	27	0	78	114	1,292
1-4pm	1,692	46	24	82	73	1,917	1,760	59	4	66	163	2,052
4-7pm	1,423	44	42	84	82	1,675	2,281	21	6	57	206	2,571
7am-7pm	7,028	190	126	392	369	8,105	6,040	168	20	321	652	7,201
6-10am	---	---	---	---	---	3,823	---	---	---	---	---	1,647
3-7pm	2,087	67	53	104	103	2,414	3,031	46	6	82	265	3,430
6am-7pm	---	---	---	---	---	9,006	---	---	---	---	---	7,562

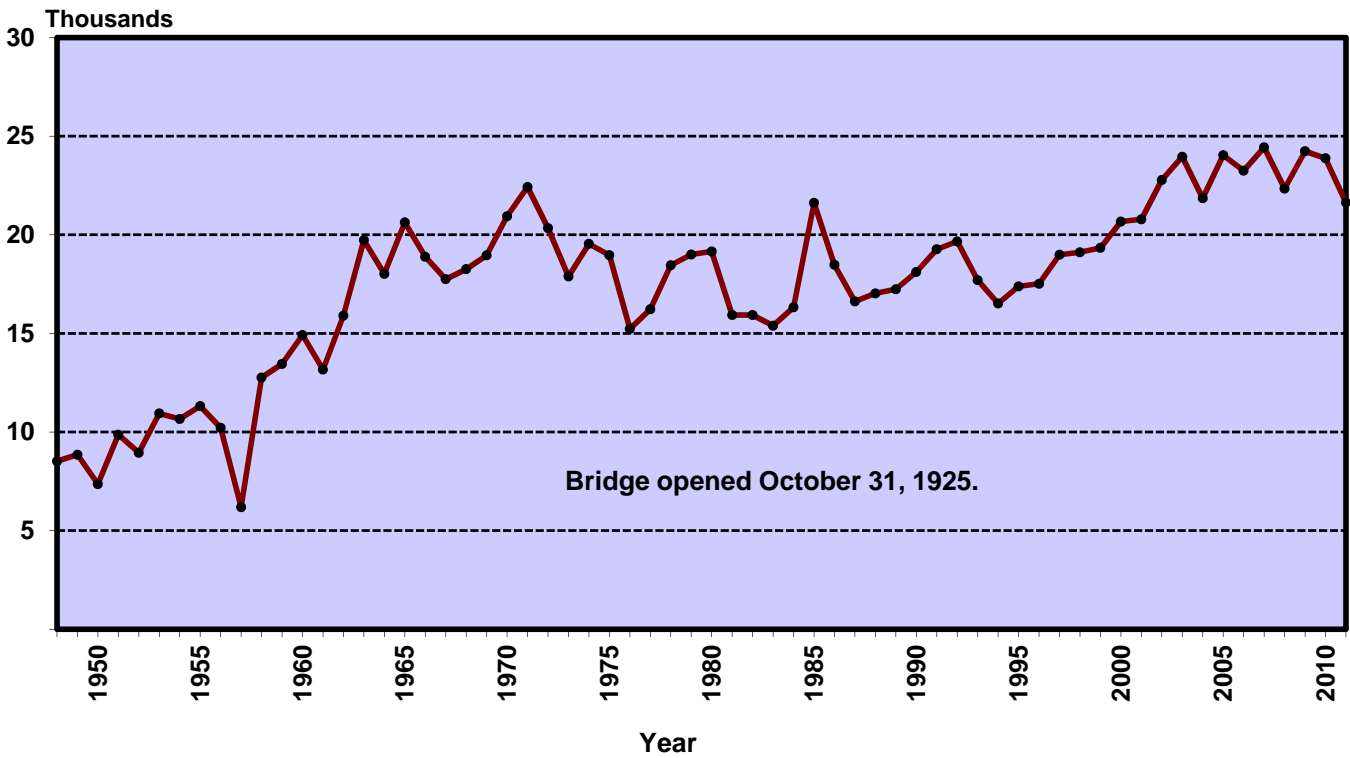
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Joseph P. Addabbo Memorial Bridge ~ 2011



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



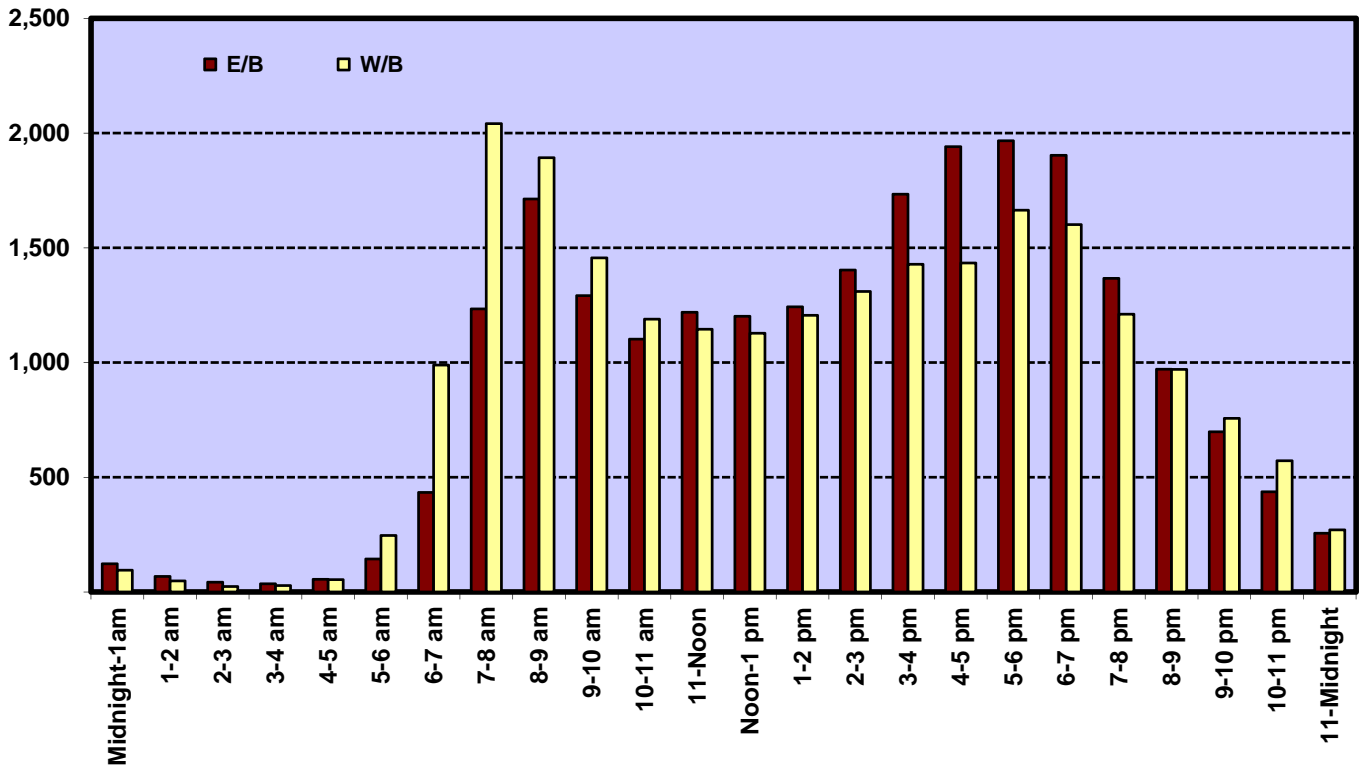
### Hourly Vehicular Volumes Little Neck Bridge - 2011

	Eastbound					Westbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	123	---	---	---	---	---	95
1-2am	---	---	---	---	---	68	---	---	---	---	---	48
2-3am	---	---	---	---	---	43	---	---	---	---	---	24
3-4am	---	---	---	---	---	36	---	---	---	---	---	28
4-5am	---	---	---	---	---	55	---	---	---	---	---	54
5-6am	---	---	---	---	---	144	---	---	---	---	---	246
6-7am	---	---	---	---	---	434	---	---	---	---	---	989
7-8am	1,005	32	56	87	54	1,234	1,828	75	6	37	95	2,041 **
8-9am	1,508	24	71	63	47	1,713	1,732	48	3	36	74	1,893
9-10am	1,138	17	51	63	23	1,292	1,336	8	0	39	73	1,456
10-11am	1,004	8	25	39	26	1,102	1,123	10	0	25	31	1,189
11-12am	1,070	12	27	61	49	1,219	1,022	7	0	63	53	1,145
12-1pm	1,130	13	9	39	11	1,202	1,054	9	0	25	40	1,128
1-2pm	1,150	9	21	31	32	1,243	1,151	2	0	21	32	1,206
2-3pm	1,194	15	58	78	58	1,403	1,175	10	0	42	83	1,310
3-4pm	1,638	20	18	37	21	1,734	1,354	10	0	16	48	1,428
4-5pm	1,633	14	75	132	87	1,941	1,288	15	0	38	93	1,434
5-6pm	1,762	19	53	44	89	1,967 **	1,583	12	0	9	60	1,664
6-7pm	1,752	18	54	43	36	1,903	1,530	9	0	6	56	1,601
7-8pm	---	---	---	---	---	1,367	---	---	---	---	---	1,211
8-9pm	---	---	---	---	---	971	---	---	---	---	---	970
9-10pm	---	---	---	---	---	698	---	---	---	---	---	757
10-11pm	---	---	---	---	---	437	---	---	---	---	---	572
11-12pm	---	---	---	---	---	256	---	---	---	---	---	271
Totals	---	---	---	---	---	22,585	---	---	---	---	---	22,760
7-10am	3,651	73	178	213	124	4,239	4,896	131	9	112	242	5,390
10am-1pm	3,204	33	61	139	86	3,523	3,199	26	0	113	124	3,462
1-4pm	3,982	44	97	146	111	4,380	3,680	22	0	79	163	3,944
4-7pm	5,147	51	182	219	212	5,811	4,401	36	0	53	209	4,699
7am-7pm	15,984	201	518	717	533	17,953	16,176	215	9	357	738	17,495
6-10am	---	---	---	---	---	4,673	---	---	---	---	---	6,379
3-7pm	6,785	71	200	256	233	7,545	5,755	46	0	69	257	6,127
6am-7pm	---	---	---	---	---	18,387	---	---	---	---	---	18,484

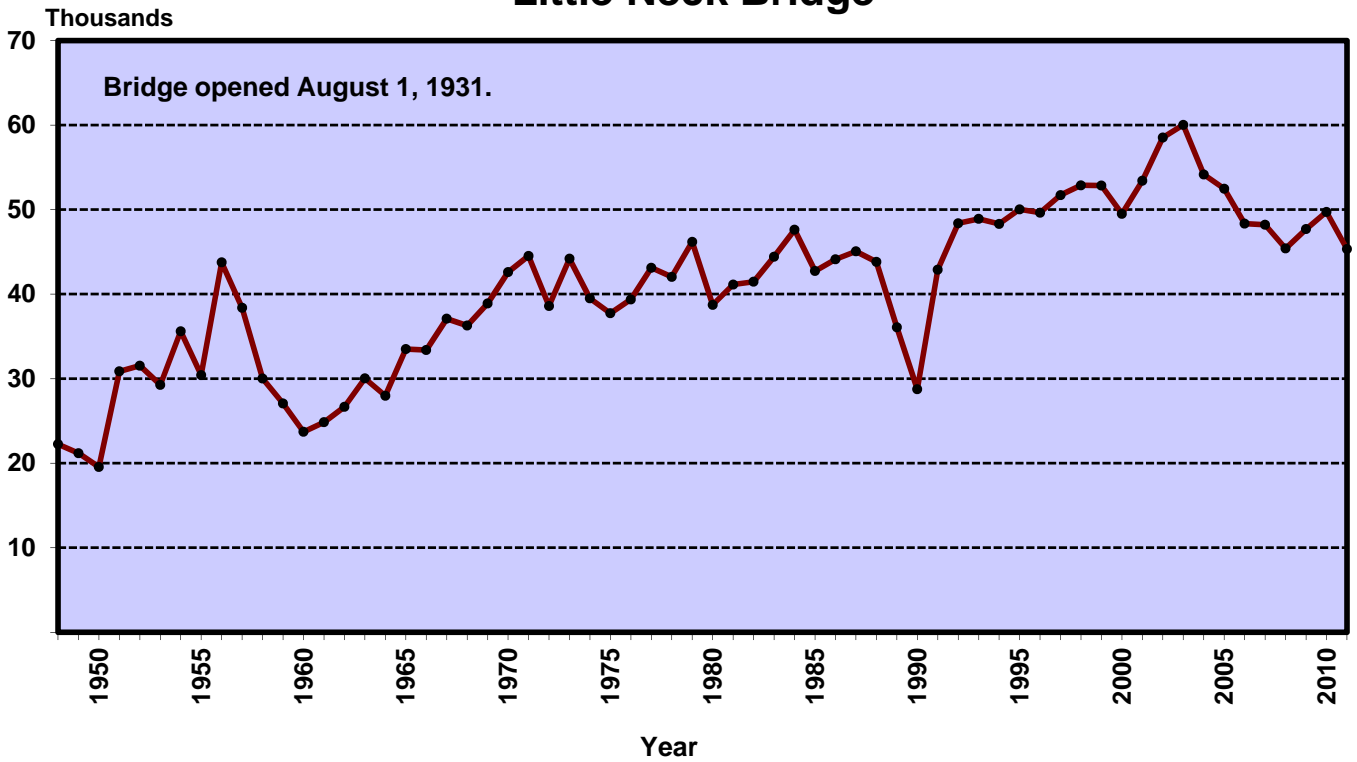
\*\* Peak Volumes

Based on 1989 Classification Survey Data

## Hourly Vehicular Volumes Little Neck Bridge ~ 2011



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



### Hourly Vehicular Volumes Midtown Highway Bridge - 2011

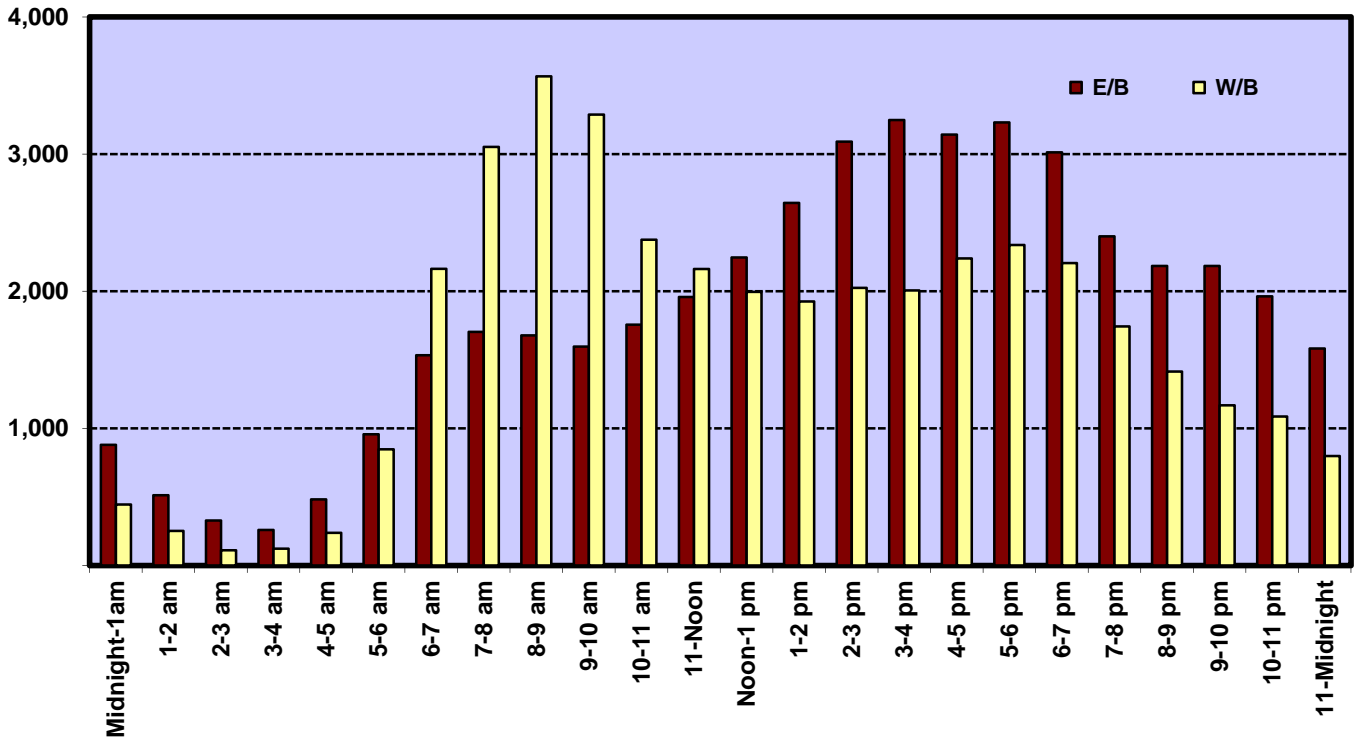
	Eastbound					Westbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	880	---	---	---	---	---	445
1-2am	---	---	---	---	---	513	---	---	---	---	---	252
2-3am	---	---	---	---	---	328	---	---	---	---	---	111
3-4am	---	---	---	---	---	260	---	---	---	---	---	123
4-5am	---	---	---	---	---	482	---	---	---	---	---	238
5-6am	---	---	---	---	---	957	---	---	---	---	---	847
6-7am	---	---	---	---	---	1,534	---	---	---	---	---	2,163
7-8am	1,391	71	15	137	90	1,704	2,497	136	63	111	246	3,053
8-9am	1,349	109	15	117	88	1,678	3,010	70	69	140	278	3,567
9-10am	1,216	131	11	142	96	1,596	2,646	79	114	185	264	3,288
10-11am	1,581	56	3	50	66	1,756	2,169	27	31	63	86	2,376
11-12am	1,694	46	6	111	101	1,958	1,808	17	100	112	125	2,162
12-1pm	2,030	27	20	82	87	2,246	1,797	8	61	69	61	1,996
1-2pm	2,091	35	77	166	275	2,644	1,534	19	121	130	122	1,926
2-3pm	2,641	16	67	159	208	3,091	1,608	77	96	136	108	2,025
3-4pm	3,000	30	34	57	127	3,248	1,736	68	70	54	78	2,006
4-5pm	2,644	23	75	95	305	3,142	1,711	178	143	48	159	2,239
5-6pm	2,873	24	22	55	257	3,231	1,920	99	111	101	106	2,337
6-7pm	2,748	10	29	64	162	3,013	2,002	31	58	54	61	2,206
7-8pm	---	---	---	---	---	2,400	---	---	---	---	---	1,744
8-9pm	---	---	---	---	---	2,185	---	---	---	---	---	1,414
9-10pm	---	---	---	---	---	2,185	---	---	---	---	---	1,168
10-11pm	---	---	---	---	---	1,963	---	---	---	---	---	1,087
11-12pm	---	---	---	---	---	1,582	---	---	---	---	---	799
Totals	---	---	---	---	---	44,576	---	---	---	---	---	39,572
7-10am	3,956	311	41	396	274	4,978	8,153	285	246	436	788	9,908
10am-1pm	5,305	129	29	243	254	5,960	5,774	52	192	244	272	6,534
1-4pm	7,732	81	178	382	610	8,983	4,878	164	287	320	308	5,957
4-7pm	8,265	57	126	214	724	9,386	5,633	308	312	203	326	6,782
7am-7pm	25,258	578	374	1,235	1,862	29,307	24,438	809	1,037	1,203	1,694	29,181
6-10am	---	---	---	---	---	6,512	---	---	---	---	---	12,071
3-7pm	11,265	87	160	271	851	12,634	7,369	376	382	257	404	8,788
6am-7pm	---	---	---	---	---	30,841	---	---	---	---	---	31,344

Based on 1989 Classification Survey Data

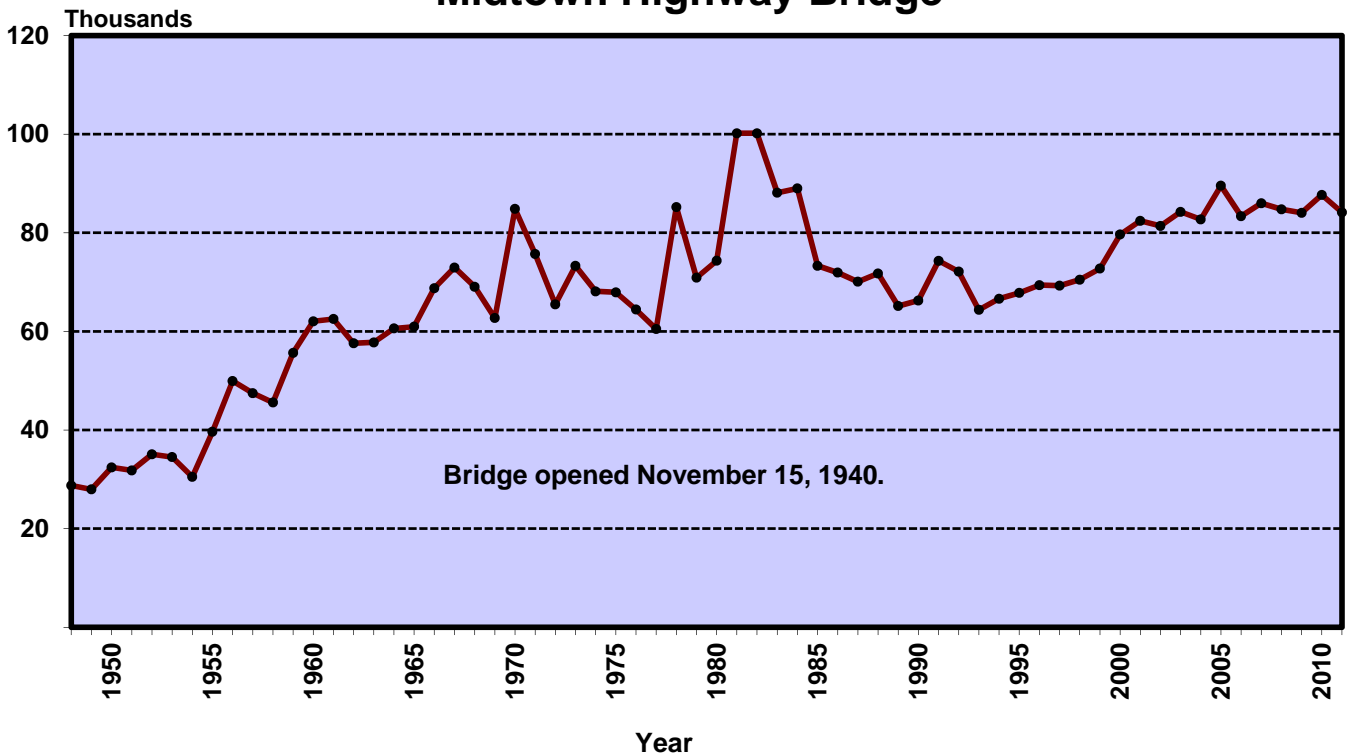
\*\* Peak Volumes



## Hourly Vehicular Volumes Midtown Highway Bridge ~ 2011



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



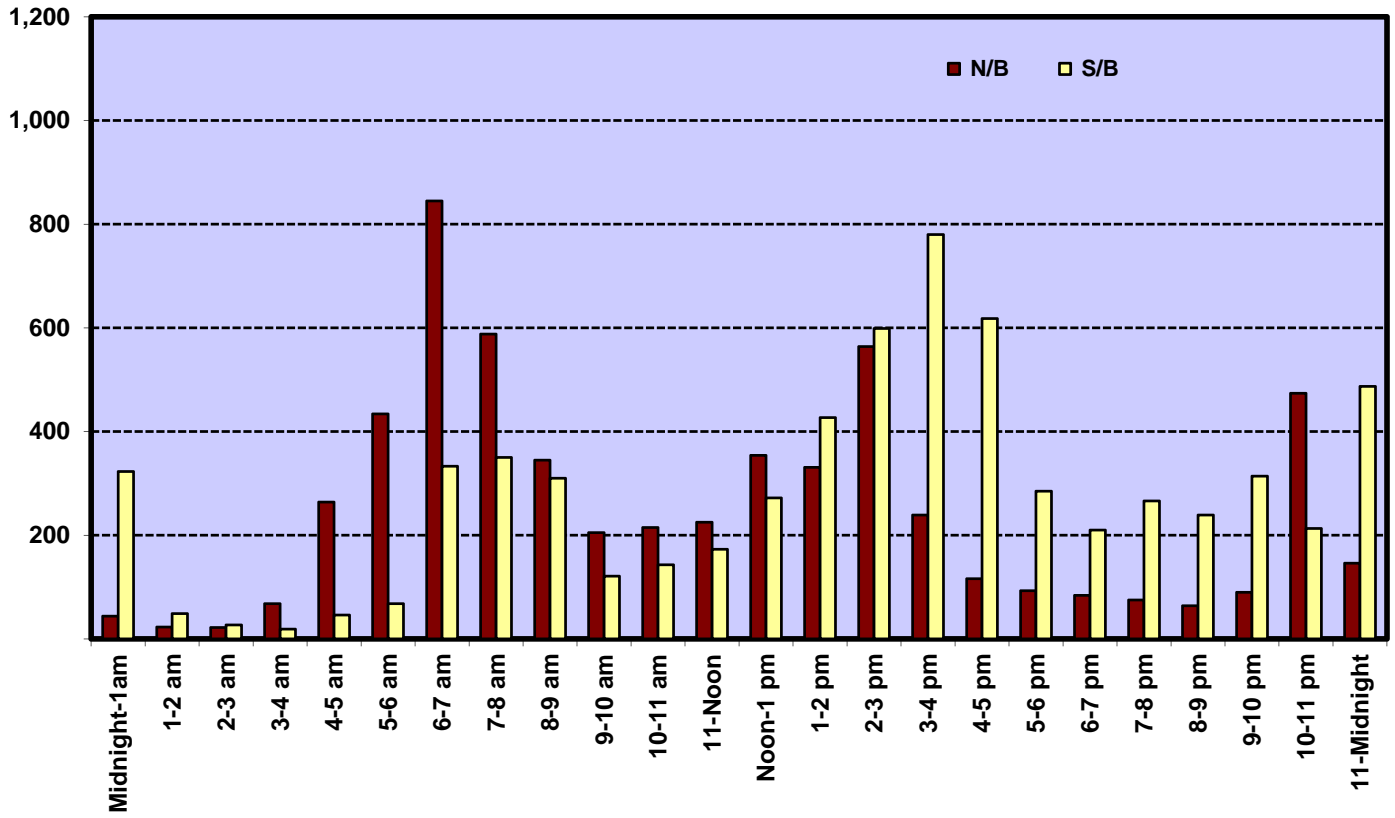
### Hourly Vehicular Volumes Rikers Island Bridge - 2011

	Northbound					Southbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	44	---	---	---	---	---	323
1-2am	---	---	---	---	---	23	---	---	---	---	---	49
2-3am	---	---	---	---	---	22	---	---	---	---	---	27
3-4am	---	---	---	---	---	68	---	---	---	---	---	19
4-5am	---	---	---	---	---	264	---	---	---	---	---	46
5-6am	---	---	---	---	---	434	---	---	---	---	---	68
6-7am	---	---	---	---	---	845 **	---	---	---	---	---	333
7-8am	489	7	2	31	59	588	303	21	11	11	4	350
8-9am	296	6	1	18	24	345	252	13	16	21	8	310
9-10am	143	20	1	18	23	205	88	9	2	17	5	121
10-11am	165	13	0	17	20	215	116	12	3	10	2	143
11-12am	158	13	2	24	28	225	114	18	11	21	9	173
12-1pm	309	15	1	10	19	354	237	10	11	8	6	272
1-2pm	283	26	1	8	13	331	372	16	20	13	6	427
2-3pm	498	13	1	15	37	564	518	15	29	24	13	599
3-4pm	214	8	1	5	11	239	728	14	23	14	1	780 **
4-5pm	98	8	1	3	6	116	572	9	23	14	0	618
5-6pm	75	8	1	0	9	93	258	8	14	2	3	285
6-7pm	55	18	2	4	5	84	176	6	23	5	0	210
7-8pm	---	---	---	---	---	75	---	---	---	---	---	266
8-9pm	---	---	---	---	---	64	---	---	---	---	---	239
9-10pm	---	---	---	---	---	90	---	---	---	---	---	314
10-11pm	---	---	---	---	---	474	---	---	---	---	---	213
11-12pm	---	---	---	---	---	146	---	---	---	---	---	487
Totals	---	---	---	---	---	5,908	---	---	---	---	---	6,672
7-10am	928	33	4	67	106	1,138	643	43	29	49	17	781
10am-1pm	632	41	3	51	67	794	467	40	25	39	17	588
1-4pm	995	47	3	28	61	1,134	1,618	45	72	51	20	1,806
4-7pm	228	34	4	7	20	293	1,006	23	60	21	3	1,113
7am-7pm	2,783	155	14	153	254	3,359	3,734	151	186	160	57	4,288
6-10am	442	42	5	12	31	1,983	1,734	37	83	35	4	1,114
3-7pm	---	---	---	---	---	532	---	---	---	---	---	1,893
6am-7pm	---	---	---	---	---	4,204	---	---	---	---	---	4,621

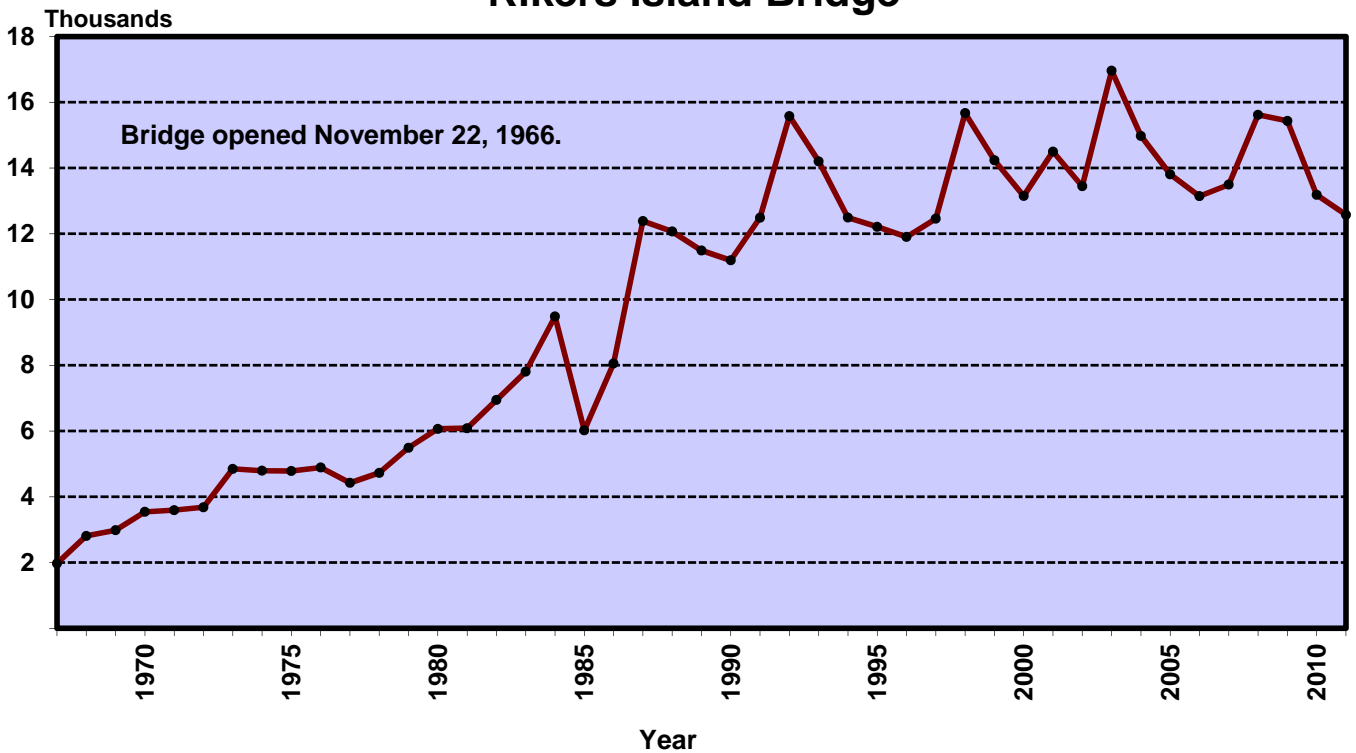
\*\* Peak Volumes

Based on 1989 Classification Survey Data

## Hourly Vehicular Volumes Rikers Island Bridge ~ 2011



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



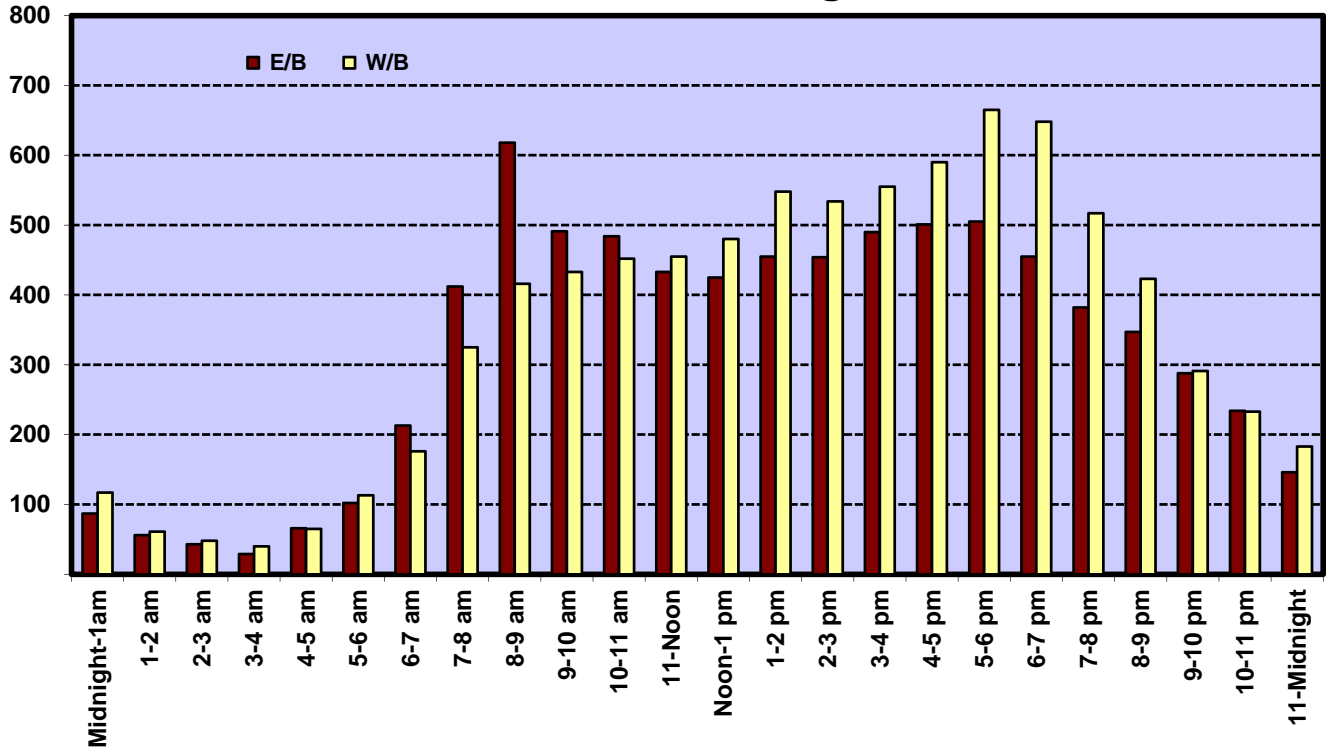
**Hourly Vehicular Volumes  
Roosevelt Avenue Bridge - 2011**

	<i>Eastbound</i>					<i>Westbound</i>					<b>2-Way Totals</b>	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	87	---	---	---	---	---	117
1-2am	---	---	---	---	---	56	---	---	---	---	---	61
2-3am	---	---	---	---	---	43	---	---	---	---	---	48
3-4am	---	---	---	---	---	29	---	---	---	---	---	40
4-5am	---	---	---	---	---	66	---	---	---	---	---	65
5-6am	---	---	---	---	---	102	---	---	---	---	---	113
6-7am	---	---	---	---	---	213	---	---	---	---	---	176
7-8am	324	28	11	30	19	412	276	2	8	20	19	325
8-9am	483	20	14	48	53	618 **	367	11	6	12	20	416
9-10am	387	7	11	40	46	491	347	37	8	19	22	433
10-11am	423	6	10	20	25	484	421	7	2	16	6	452
11-12am	343	9	9	33	39	433	411	15	3	17	9	455
12-1pm	389	5	7	13	11	425	462	10	1	3	4	480
1-2pm	403	25	2	8	17	455	528	13	0	2	5	548
2-3pm	345	23	11	40	35	454	498	8	2	14	12	534
3-4pm	432	9	7	19	23	490	470	65	1	9	10	555
4-5pm	378	7	20	37	59	501	551	14	4	10	11	590
5-6pm	417	3	14	18	53	505	634	8	3	12	8	665 **
6-7pm	386	3	10	16	40	455	590	30	6	11	11	648
7-8pm	---	---	---	---	---	382	---	---	---	---	---	517
8-9pm	---	---	---	---	---	347	---	---	---	---	---	423
9-10pm	---	---	---	---	---	288	---	---	---	---	---	291
10-11pm	---	---	---	---	---	234	---	---	---	---	---	233
11-12pm	---	---	---	---	---	146	---	---	---	---	---	183
<b>Totals</b>	---	---	---	---	---	<b>7,716</b>	---	---	---	---	---	<b>8,368</b>
7-10am	1,194	55	36	118	118	1,521	990	50	22	51	61	1,174
10am-1pm	1,155	20	26	66	75	1,342	1,294	32	6	36	19	1,387
1-4pm	1,180	57	20	67	75	1,399	1,496	86	3	25	27	1,637
4-7pm	1,181	13	44	71	152	1,461	1,775	52	13	33	30	1,903
7am-7pm	4,710	145	126	322	420	5,723	5,555	220	44	145	137	6,101
6-10am	---	---	---	---	---	1,734	---	---	---	---	---	1,350
3-7pm	1,613	22	51	90	175	1,951	2,245	117	14	42	40	2,458
6am-7pm	---	---	---	---	---	5,936	---	---	---	---	---	6,277

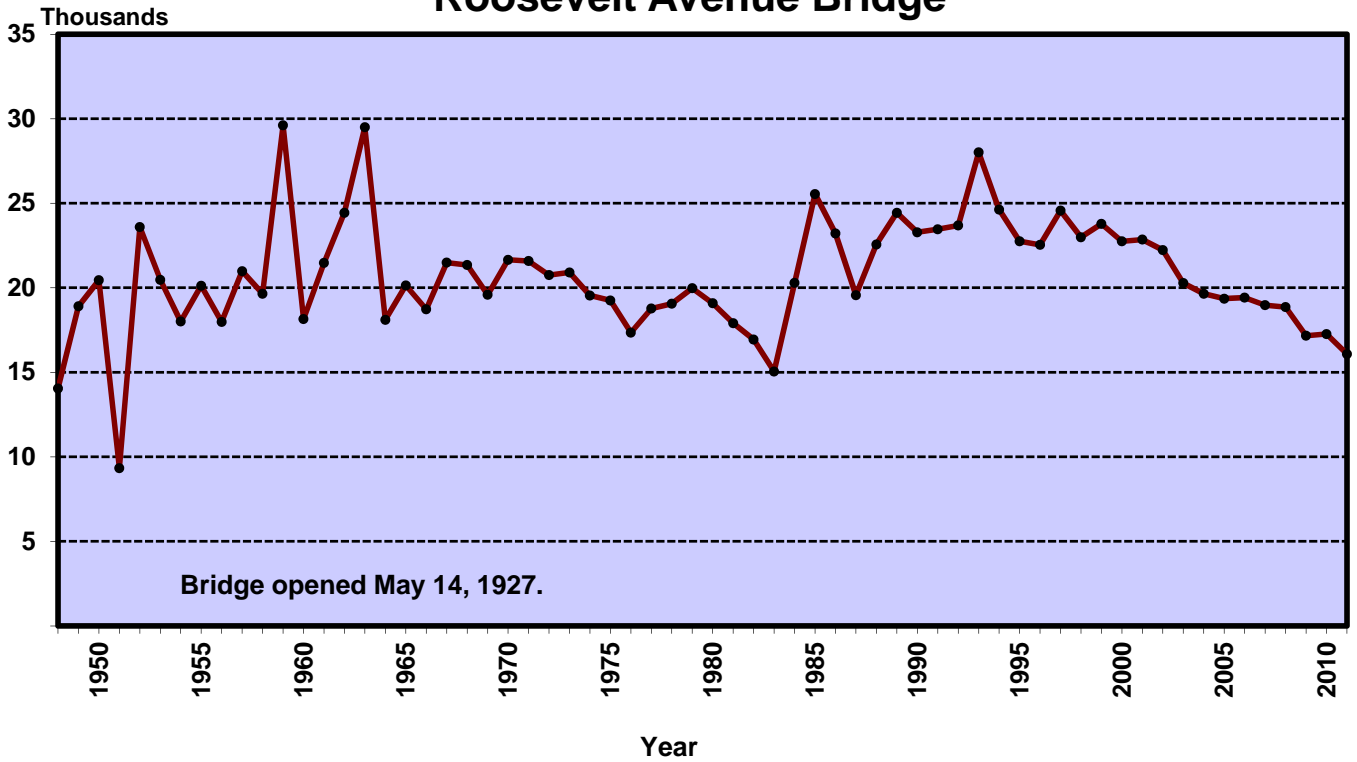
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Roosevelt Avenue Bridge ~ 2011



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



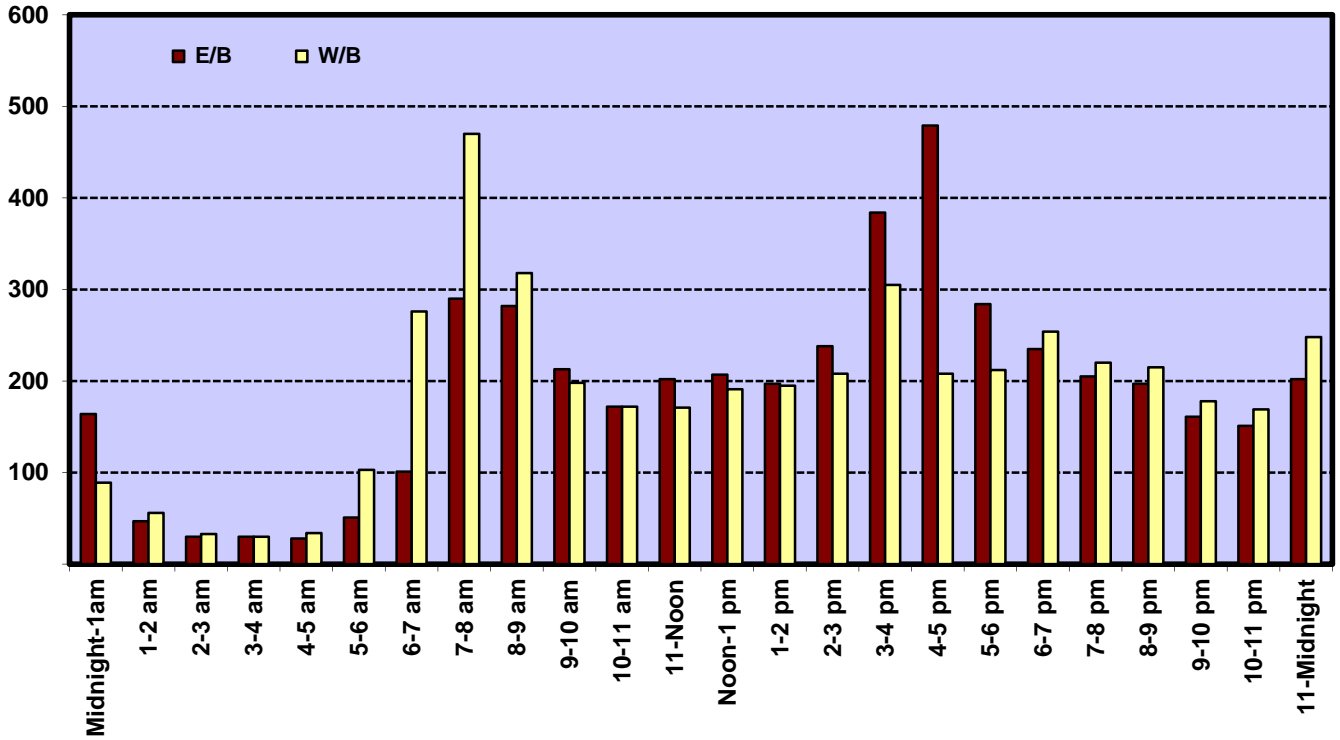
**Hourly Vehicular Volumes  
Roosevelt Island Bridge - 2011**

	<b>Eastbound</b>					<b>Westbound</b>					<b>2-Way Totals</b>	
	<b>Autos</b>	<b>Buses</b>	<b>Commuter Vans</b>	<b>Trucks</b>	<b>Commercial Vans</b>	<b>Totals</b>	<b>Autos</b>	<b>Buses</b>	<b>Commuter Vans</b>	<b>Trucks</b>		<b>Commercial Vans</b>
12-1am	---	---	---	---	---	164	---	---	---	---	---	89
1-2am	---	---	---	---	---	47	---	---	---	---	---	56
2-3am	---	---	---	---	---	30	---	---	---	---	---	33
3-4am	---	---	---	---	---	30	---	---	---	---	---	30
4-5am	---	---	---	---	---	28	---	---	---	---	---	34
5-6am	---	---	---	---	---	51	---	---	---	---	---	103
6-7am	---	---	---	---	---	101	---	---	---	---	---	276
7-8am	256	14	13	4	3	290	418	8	26	11	7	470 **
8-9am	225	15	19	15	8	282	298	4	2	11	3	318
9-10am	162	9	11	25	6	213	173	4	8	11	2	198
10-11am	152	2	4	9	5	172	147	5	1	11	8	172
11-12am	155	5	9	16	17	202	128	4	8	23	8	171
12-1pm	182	4	2	13	6	207	158	22	3	5	3	191
1-2pm	178	6	2	4	7	197	172	6	1	9	7	195
2-3pm	204	4	4	20	6	238	183	6	4	8	7	208
3-4pm	349	19	1	7	8	384	285	8	5	4	3	305
4-5pm	452	6	10	1	10	479 **	188	8	5	2	5	208
5-6pm	267	5	0	3	9	284	195	7	0	3	7	212
6-7pm	218	2	1	1	13	235	243	4	3	3	1	254
7-8pm	---	---	---	---	---	205	---	---	---	---	---	220
8-9pm	---	---	---	---	---	197	---	---	---	---	---	215
9-10pm	---	---	---	---	---	161	---	---	---	---	---	178
10-11pm	---	---	---	---	---	151	---	---	---	---	---	169
11-12pm	---	---	---	---	---	202	---	---	---	---	---	248
Totals	---	---	---	---	---	4,550	---	---	---	---	---	4,553
7-10am	643	38	43	44	17	785	889	16	36	33	12	986
10am-1pm	489	11	15	38	28	581	433	31	12	39	19	534
1-4pm	731	29	7	31	21	819	640	20	10	21	17	708
4-7pm	937	13	11	5	32	998	626	19	8	8	13	674
7am-7pm	2,800	91	76	118	98	3,183	2,588	86	66	101	61	2,902
6-10am	---	---	---	---	---	886	---	---	---	---	---	1,262
3-7pm	1,286	32	12	12	40	1,382	911	27	13	12	16	979
6am-7pm	---	---	---	---	---	3,284	---	---	---	---	---	3,178
Totals	---	---	---	---	---	9,103	---	---	---	---	---	9,103

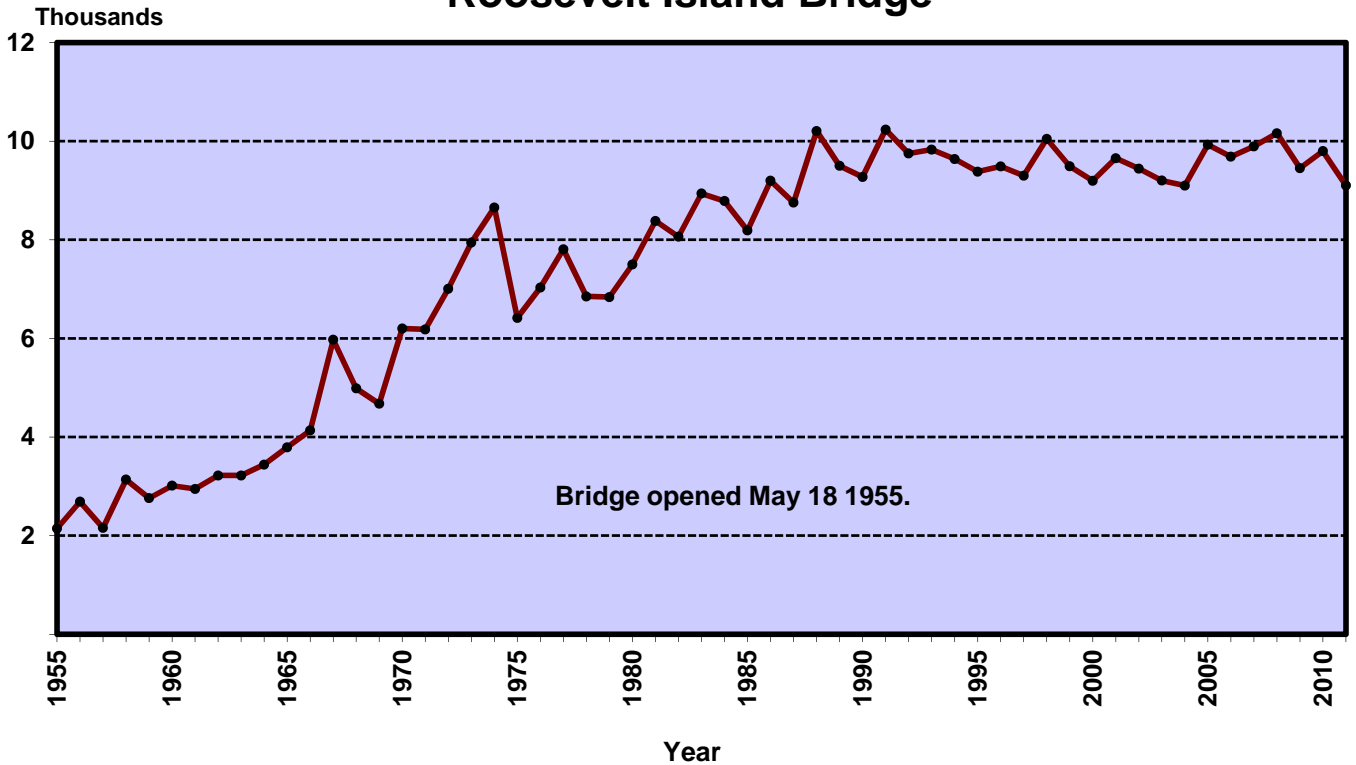
\*\* Peak Volumes

Based on 1989 Classification Survey Data

## Hourly Vehicular Volumes Roosevelt Island Bridge ~ 2011



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



## Hourly Vehicular Volumes Whitestone Expressway Bridge - 2011

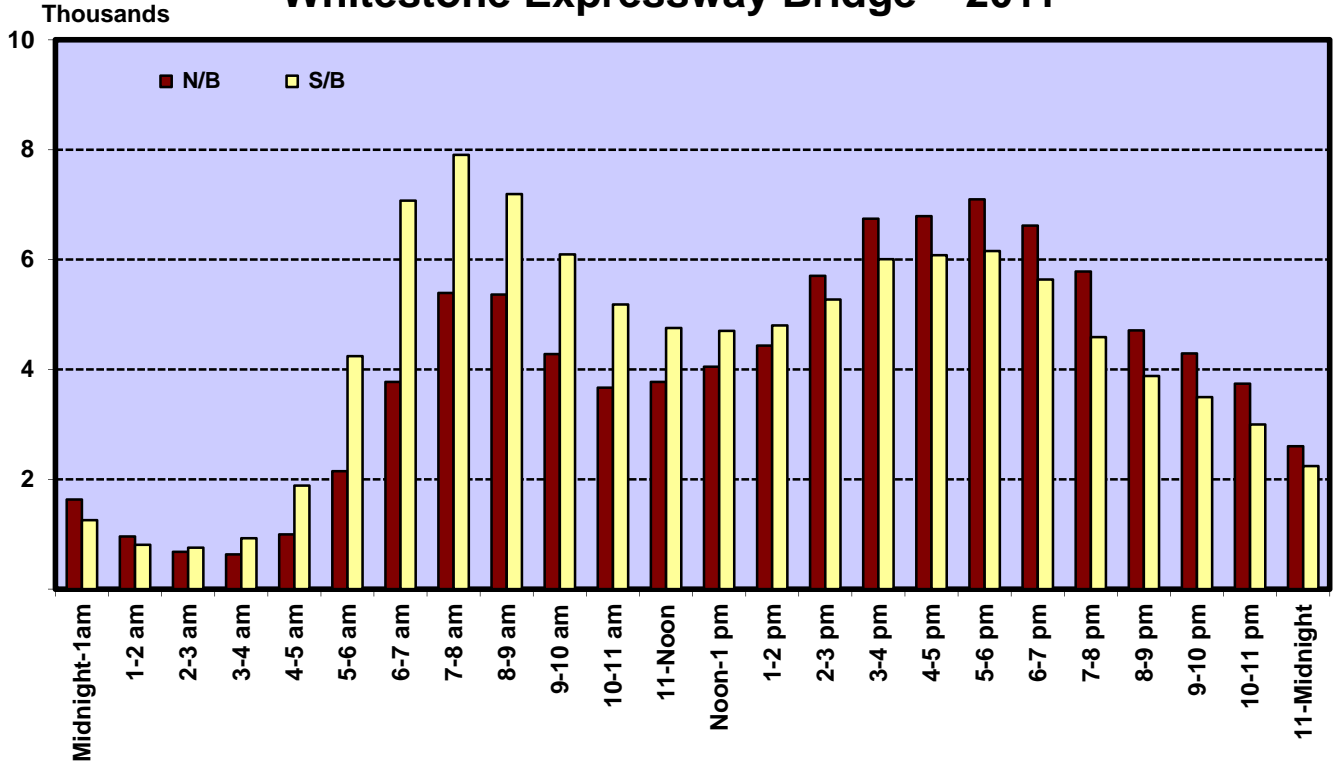
	Northbound					Southbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	1,633	---	---	---	---	---	1,257
1-2am	---	---	---	---	---	959	---	---	---	---	---	809
2-3am	---	---	---	---	---	679	---	---	---	---	---	756
3-4am	---	---	---	---	---	632	---	---	---	---	---	928
4-5am	---	---	---	---	---	997	---	---	---	---	---	1,887
5-6am	---	---	---	---	---	2,148	---	---	---	---	---	4,243
6-7am	---	---	---	---	---	3,772	---	---	---	---	---	7,073
7-8am	4,541	86	164	279	323	5,393	6,312	66	257	562	708	7,905 **
8-9am	4,454	69	266	354	219	5,362	5,972	77	203	507	433	7,192
9-10am	3,441	68	161	406	203	4,279	4,777	82	215	562	459	6,095
10-11am	3,207	33	76	219	134	3,669	4,697	22	117	220	125	5,181
11-12am	2,874	24	142	488	246	3,774	3,808	24	205	468	249	4,754
12-1pm	3,580	63	58	233	116	4,050	4,175	30	101	234	162	4,702
1-2pm	4,018	55	39	210	113	4,435	4,207	61	95	270	169	4,802
2-3pm	4,627	65	140	476	397	5,705	4,232	75	169	494	303	5,273
3-4pm	6,141	29	85	243	246	6,744	5,387	99	121	233	167	6,007
4-5pm	5,868	25	163	333	400	6,789	5,099	61	222	398	298	6,078
5-6pm	6,215	35	168	270	408	7,096 **	5,570	27	162	230	167	6,156
6-7pm	5,917	51	164	168	319	6,619	5,195	10	176	107	148	5,636
7-8pm	---	---	---	---	---	5,783	---	---	---	---	---	4,588
8-9pm	---	---	---	---	---	4,711	---	---	---	---	---	3,882
9-10pm	---	---	---	---	---	4,291	---	---	---	---	---	3,497
10-11pm	---	---	---	---	---	3,741	---	---	---	---	---	2,998
11-12pm	---	---	---	---	---	2,601	---	---	---	---	---	2,242
Totals	---	---	---	---	---	95,862	---	---	---	---	---	103,941
7-10am	12,436	223	591	1,039	745	15,034	17,061	225	675	1,631	1,600	21,192
10am-1pm	9,661	120	276	940	496	11,493	12,680	76	423	922	536	14,637
1-4pm	14,786	149	264	929	756	16,884	13,826	235	385	997	639	16,082
4-7pm	18,000	111	495	771	1,127	20,504	15,864	98	560	735	613	17,870
7am-7pm	54,883	603	1,626	3,679	3,124	63,915	59,431	634	2,043	4,285	3,388	69,781
6-10am	---	---	---	---	---	18,806	---	---	---	---	---	28,265
3-7pm	24,141	140	580	1,014	1,373	27,248	21,251	197	681	968	780	23,877
6am-7pm	---	---	---	---	---	67,687	---	---	---	---	---	76,854

Based on 1989 Classification Survey Data

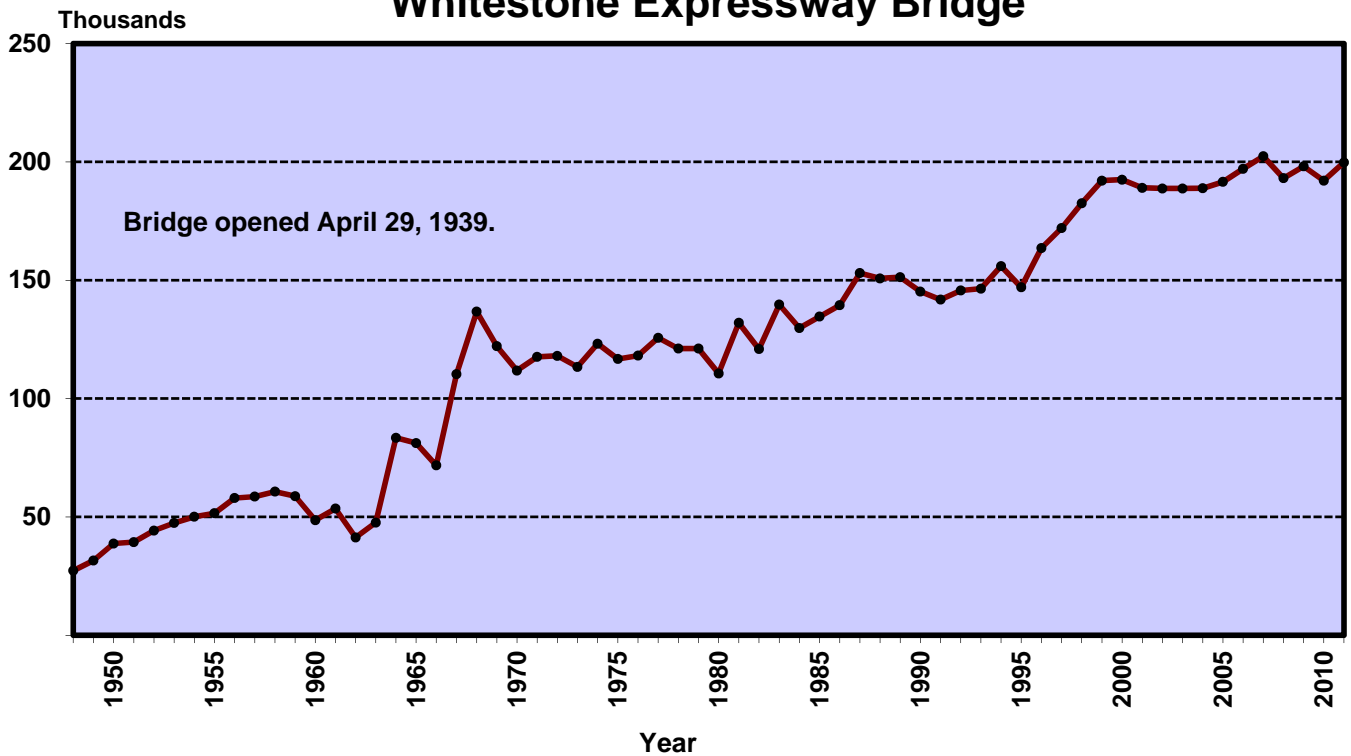
\*\* Peak Volumes



## Hourly Vehicular Volumes Whitestone Expressway Bridge ~ 2011



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



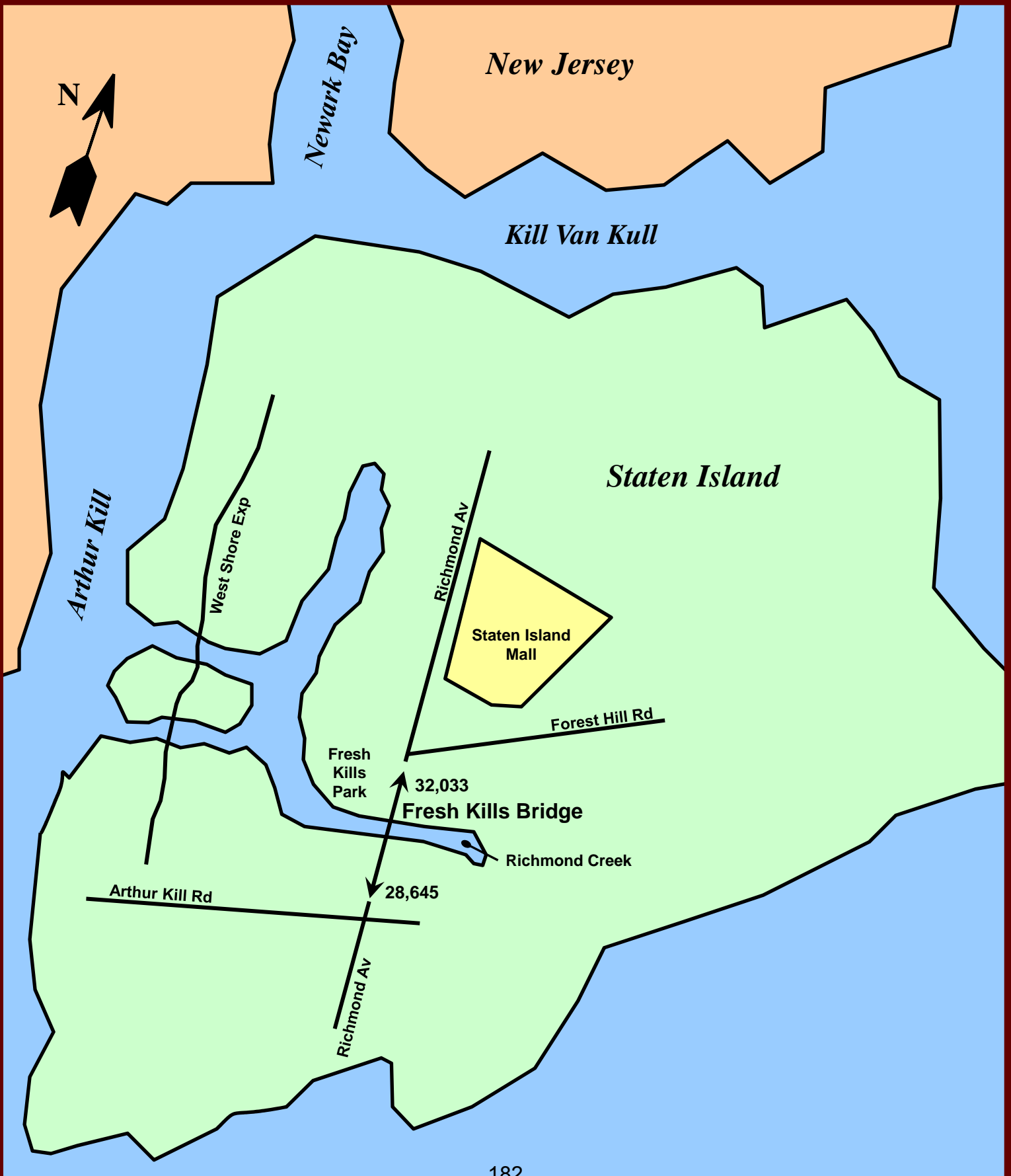


# Staten Island ~ Fresh Kills Bridge



# Staten Island ~ Fresh Kills Bridge

2011 Daily Volumes



**Staten Island Bridges**  
**Average Daily Traffic Volumes**  
**1948 - 2011**

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

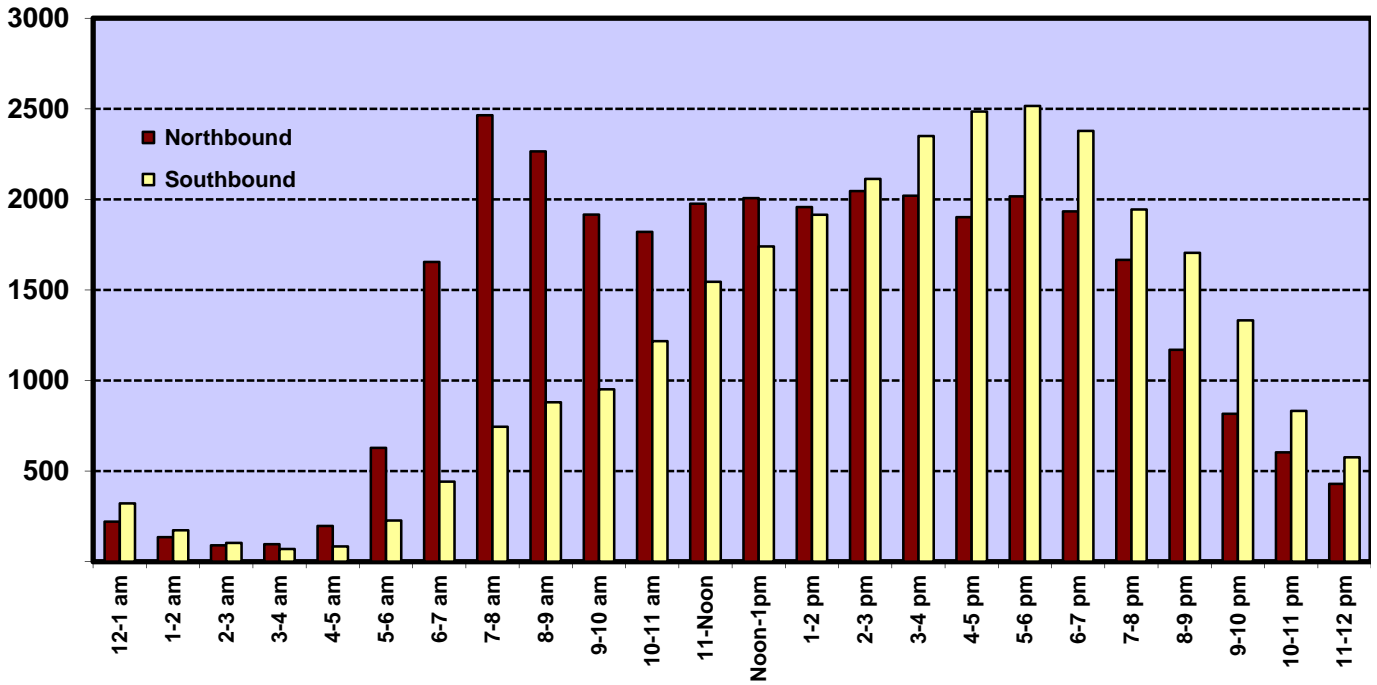
### Hourly Vehicular Volumes Fresh Kills Bridge - 2011

	Northbound					Southbound					2-Way Totals	
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks		Commercial Vans
12-1am	---	---	---	---	---	221	---	---	---	---	---	322
1-2am	---	---	---	---	---	135	---	---	---	---	---	173
2-3am	---	---	---	---	---	90	---	---	---	---	---	103
3-4am	---	---	---	---	---	96	---	---	---	---	---	70
4-5am	---	---	---	---	---	197	---	---	---	---	---	84
5-6am	---	---	---	---	---	628	---	---	---	---	---	227
6-7am	---	---	---	---	---	1,655	---	---	---	---	---	442
7-8am	1,296	135	392	435	207	2,465	649	44	4	22	22	745
8-9am	974	213	420	514	144	2,265	783	17	3	51	26	880
9-10am	1,370	24	201	271	50	1,916	832	15	3	68	33	951
10-11am	1,589	36	71	105	20	1,821	1,137	13	0	43	24	1,217
11-12am	1,408	74	178	280	36	1,976	1,341	14	2	123	65	1,545
12-1pm	1,676	28	92	178	33	2,007	1,572	35	0	87	46	1,740
1-2pm	1,718	52	68	80	40	1,958	1,748	73	0	67	27	1,915
2-3pm	1,548	89	148	236	25	2,046	1,747	62	0	200	104	2,113
3-4pm	1,751	88	82	86	13	2,020	2,141	38	5	87	79	2,350
4-5pm	1,560	44	120	145	33	1,902	2,196	26	3	159	101	2,485
5-6pm	1,592	92	164	146	23	2,017	2,152	32	3	198	131	2,516
6-7pm	1,506	137	149	108	34	1,934	2,062	29	14	155	118	2,378
7-8pm	---	---	---	---	---	1,666	---	---	---	---	---	1,944
8-9pm	---	---	---	---	---	1,170	---	---	---	---	---	1,705
9-10pm	---	---	---	---	---	816	---	---	---	---	---	1,332
10-11pm	---	---	---	---	---	603	---	---	---	---	---	832
11-12pm	---	---	---	---	---	429	---	---	---	---	---	576
Totals	---	---	---	---	---	32,033	---	---	---	---	---	28,645
7-10am	3,640	372	1,013	1,220	401	6,646	2,264	76	10	145	81	2,576
10am-1pm	4,673	138	341	563	89	5,804	4,050	62	2	253	135	4,502
1-4pm	5,017	229	298	402	78	6,024	5,636	173	5	364	210	6,378
4-7pm	4,658	273	433	399	90	5,853	6,410	87	20	512	350	7,379
7am-7pm	17,988	1,012	2,085	2,584	658	24,327	18,360	398	37	1,264	776	20,835
6-10am	---	---	---	---	---	8,301	---	---	---	---	---	3,018
3-7pm	6,409	361	515	485	103	7,873	8,551	125	25	599	429	9,729
6am-7pm	---	---	---	---	---	25,982	---	---	---	---	---	21,277

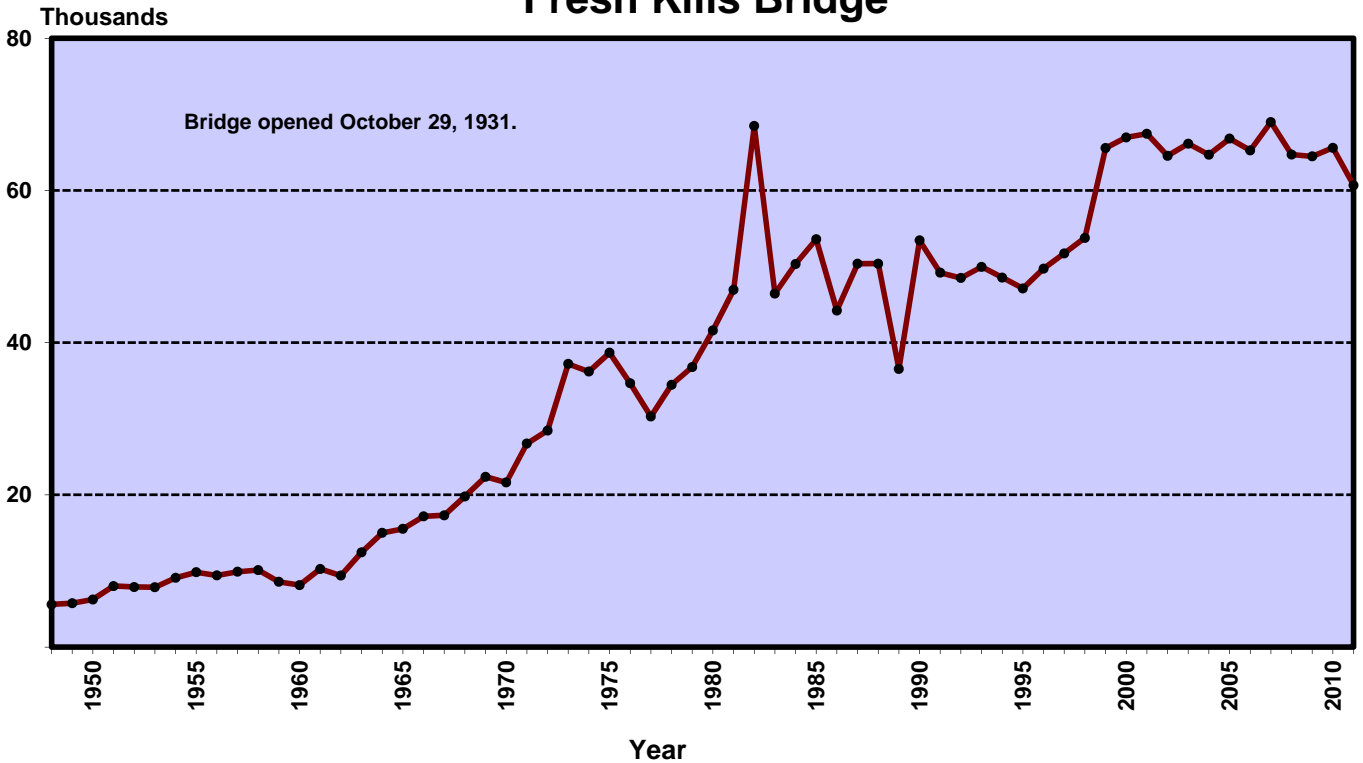
Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Fresh Kills Bridge ~ 2011



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







# MTABT Facilities

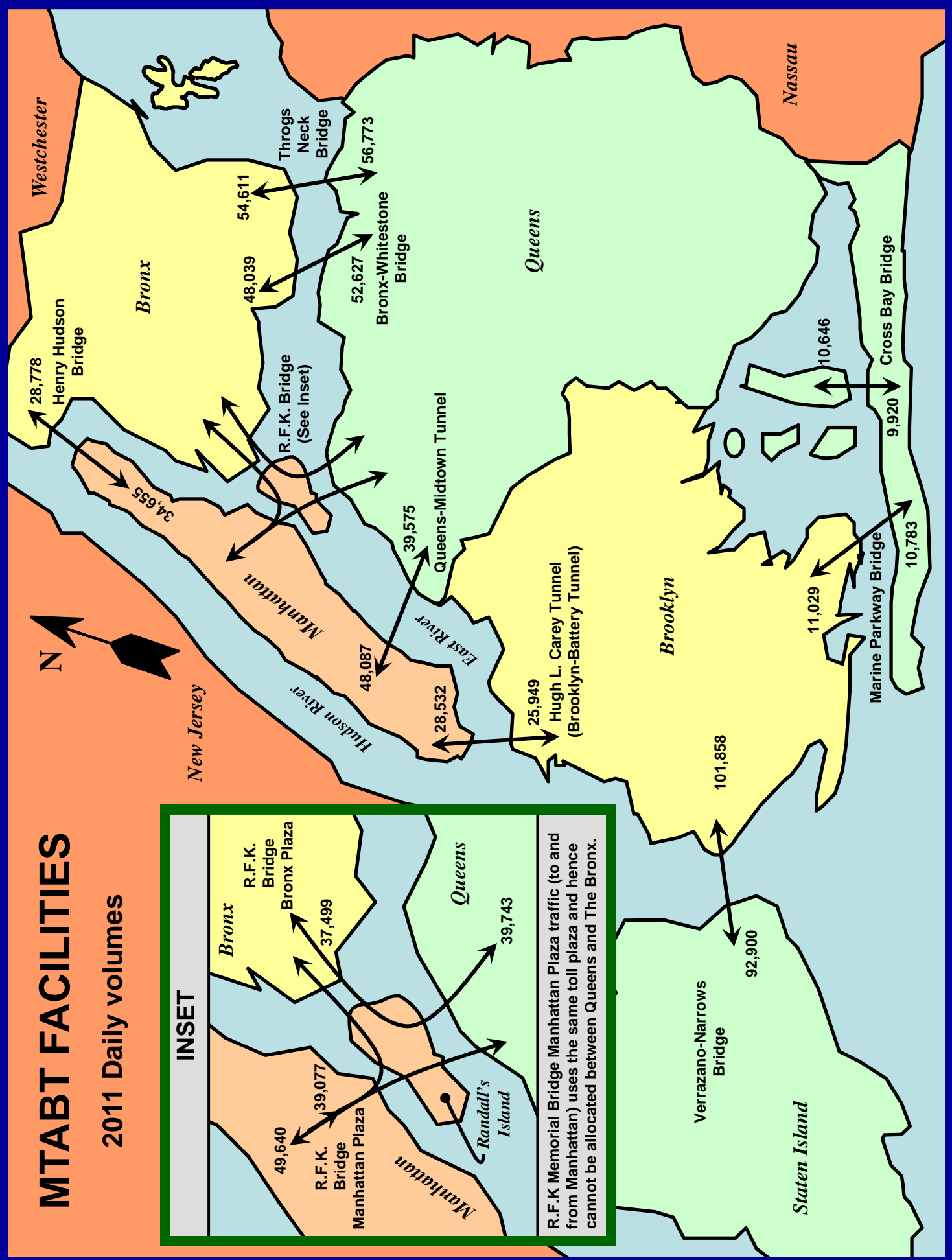


Triborough Bridge ~ Queens Span



# MTABT FACILITIES

2011 Daily volumes



**INSET**

R.F.K. Memorial Bridge Manhattan Plaza traffic (to and from Manhattan) uses the same toll plaza and hence cannot be allocated between Queens and The Bronx.

Facility	Volume
R.F.K. Memorial Bridge Manhattan Plaza	49,640
R.F.K. Memorial Bridge Bronx Plaza	37,499
Randall's Island	39,077

**MTABT Manhattan Facilities ~ Average Daily Traffic Volumes  
1948 - 2011**

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

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 - 2011**

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

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.

# Hourly Vehicular Volumes

## Metropolitan Transportation Authority Bridges & Tunnels 2011

	Henry Hudson Bridge		Hugh L. Carey Tunnel (Brooklyn-Battery Tunnel)		Queens-Midtown Tunnel		Robert F. Kennedy Memorial Bridge (Triborough Bridge)		Totals	
	S/B	N/B	N/B	S/B	W/B	E/B	W/B	E/B	Entering Manhattan	Leaving Manhattan
12-1am	170	341	179	504	488	826	434	418	1,271	2,089
1-2am	89	161	94	227	210	425	181	244	574	1,057
2-3am	49	88	59	128	108	263	106	153	322	632
3-4am	42	54	76	86	147	179	115	175	380	494
4-5am	102	68	166	89	304	391	270	439	842	987
5-6am	418	124	730	152	1,046	780	922	917	3,116	1,973
6-7am	1,641	553	2,087	459	2,560	1,334	2,946	1,544	9,234	3,890
7-8am	3,017	1,326	2,981	673	3,512	1,362	4,152 **	2,024	13,662	5,385
8-9am	3,305 **	1,724	3,243 **	742	4,335 **	1,335	4,037	2,145	14,920 **	5,946
9-10am	2,902	1,078	3,016	783	4,159	1,351	3,443	1,952	13,520	5,164
10-11am	2,131	902	1,781	815	2,612	1,563	3,023	1,693	9,547	4,973
11-12am	1,674	962	1,538	992	2,856	1,689	2,676	1,801	8,744	5,444
12-1pm	1,626	1,071	1,342	1,121	2,586	2,035	2,372	1,983	7,926	6,210
1-2pm	1,607	1,232	1,278	1,293	2,336	2,411	2,475	2,239	7,696	7,175
2-3pm	1,588	1,579	1,331	1,525	2,601	2,733	2,647	2,608	8,167	8,445
3-4pm	2,077	2,103	1,386	1,930	2,716	2,935	3,059	3,010	9,238	9,978
4-5pm	2,281	2,496	1,328	2,518	2,781	3,010 **	2,937	3,047 **	9,327	11,071
5-6pm	2,546	2,911 **	1,287	2,587 **	2,979	2,984	3,173	2,776	9,985	11,258 **
6-7pm	2,623	2,614	1,492	2,261	2,660	2,555	3,040	2,509	9,815	9,939
7-8pm	1,872	2,106	1,199	1,937	1,939	2,209	2,292	2,084	7,302	8,336
8-9pm	1,151	1,514	612	1,741	1,680	2,081	1,717	1,678	5,160	7,014
9-10pm	832	1,463	492	1,353	1,471	2,055	1,477	1,543	4,272	6,414
10-11pm	564	1,351	471	1,132	1,192	1,801	1,308	1,317	3,535	5,601
11-12pm	348	957	364	901	809	1,268	838	778	2,359	3,904
Totals	34,655	28,778	28,532	25,949	48,087	39,575	49,640	39,077	160,914	133,379
7-10am	9,224	4,128	9,240	2,198	12,006	4,048	11,632	6,121	42,102	16,495
10am-1pm	5,431	2,935	4,661	2,928	8,054	5,287	8,071	5,477	26,217	16,627
1-4pm	5,272	4,914	3,995	4,748	7,653	8,079	8,181	7,857	25,101	25,598
4-7pm	7,450	8,021	4,107	7,366	8,420	8,549	9,150	8,332	29,127	32,268
7am-7pm	27,377	19,998	22,003	17,240	36,133	25,963	37,034	27,787	122,547	90,988
6-10am	10,865	4,681	11,327	2,657	14,566	5,382	14,578	7,665	51,336	20,385
3-7pm	9,527	10,124	5,493	9,296	11,136	11,484	12,209	11,342	38,365	42,246
6am-7pm	29,018	20,551	24,090	17,699	38,693	27,297	39,980	29,331	131,781	94,878

\*\* Peak Volumes

# Hourly Vehicular Volumes

## Metropolitan Transportation Authority Bridges & Tunnels 2011

	Robert F. Kennedy													
	Bronx-Whitestone Bridge			Marine Parkway			Memorial Bridge			Throgs Neck Bridge			Verrazano-Narrows Bridge	
	N/B	S/B	N/B	S/B	N/B	S/B	N/B	S/B	N/B	S/B	N/B	S/B	E/B	W/B
12-1am	687	636	88	152	54	134	530	465	570	667	2,634	1,646		
1-2am	423	443	44	83	30	56	317	309	298	441	1,366	924		
2-3am	302	386	40	44	22	35	237	323	279	318	743	698		
3-4am	322	441	49	38	23	22	257	318	319	321	600	468		
4-5am	587	844	129	42	58	38	503	602	691	500	612	624		
5-6am	1,454	1,772	429	121	308	108	928	1,324	2,114	1,071	986	1,188		
6-7am	2,814	2,912	949	354	808	311	1,877	2,730 **	4,496	2,392	3,390	2,687		
7-8am	3,796	3,037	1,270 **	485	1,591 **	401	2,848 **	2,601	4,862 **	3,322	8,330	3,812		
8-9am	3,915 **	3,020	888	471	1,134	496	2,671	2,520	4,156	3,336	9,692 **	4,434		
9-10am	2,708	2,652	566	402	752	369	2,430	2,337	3,576	2,758	7,894	4,124		
10-11am	2,329	2,456	515	407	597	388	2,040	2,042	3,330	2,435	6,054	3,653		
11-12am	2,057	2,318	479	394	530	406	1,900	1,958	2,781	2,367	4,827	3,748		
12-1pm	1,983	2,374	516	428	499	417	1,831	2,047	2,501	2,500	4,264	3,925		
1-2pm	2,187	2,520	518	454	480	505	1,881	2,021	2,475	2,639	4,054	4,444		
2-3pm	2,539	2,873	617	597	536	684	1,988	2,271	2,752	3,653	4,270	5,795		
3-4pm	2,834	3,468	722	802	681	1,017	2,485	2,601	2,880	4,621	4,744	7,796		
4-5pm	2,826	3,618	616	782	687	1,015	2,321	2,698	2,976	4,741 **	5,675	7,934 **		
5-6pm	2,813	3,646 **	534	803 **	658	1,107 **	2,178	2,511	2,940	4,585	6,053	7,678		
6-7pm	2,627	3,341	484	791	527	1,022	2,015	2,109	2,898	4,179	6,050	7,366		
7-8pm	2,263	3,071	341	715	349	720	1,694	1,717	2,229	3,300	5,342	6,242		
8-9pm	1,981	2,220	277	559	245	569	1,381	1,364	1,926	2,258	4,342	4,714		
9-10pm	1,820	1,886	225	447	178	460	1,246	1,153	1,596	1,846	3,522	3,771		
10-11pm	1,621	1,645	183	336	146	302	1,082	992	1,218	1,359	3,240	2,867		
11-12pm	1,151	1,048	167	213	136	201	859	730	748	1,164	3,174	2,362		
Totals	48,039	52,627	10,646	9,920	11,029	10,783	37,499	39,743	54,611	56,773	101,858	92,900		
7-10am	10,419	8,709	2,724	1,358	3,477	1,266	7,949	7,458	12,594	9,416	25,916	12,370		
10am-1pm	6,369	7,148	1,510	1,229	1,626	1,211	5,771	6,047	8,612	7,302	15,145	11,326		
1-4pm	7,560	8,861	1,857	1,853	1,697	2,206	6,354	6,893	8,107	10,913	13,068	18,035		
4-7pm	8,266	10,605	1,634	2,376	1,872	3,144	6,514	7,318	8,814	13,505	17,778	22,978		
7am-7pm	32,614	35,323	7,725	6,816	8,672	7,827	26,588	27,716	38,127	41,136	71,907	64,709		
6-10am	13,233	11,621	3,673	1,712	4,285	1,577	9,826	10,188	17,090	11,808	29,306	15,057		
3-7pm	11,100	14,073	2,356	3,178	2,553	4,161	8,999	9,919	11,694	18,126	22,522	30,774		
6am-7pm	35,428	38,235	8,674	7,170	9,480	8,138	28,465	30,446	42,623	43,528	75,297	67,396		

\*\* Peak Volumes

**Hourly Vehicular Volumes  
Hugh L. Carey Tunnel (Brooklyn-Battery Tunnel) - 2011**

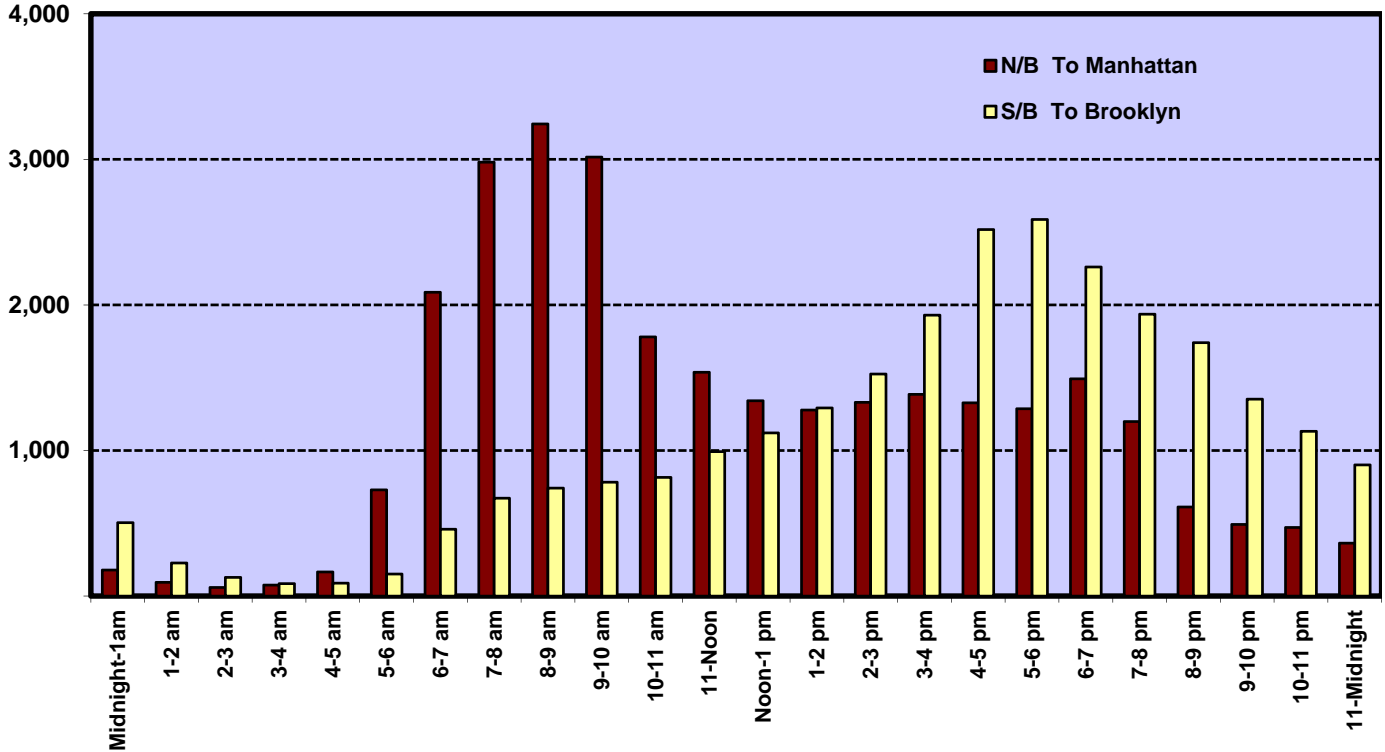
FHWA Classes ▶	Northbound to Manhattan							Southbound to Brooklyn							2-Way Grand Totals
	Commuter Vans			Single Unit Trucks	Tractor Trailers	Total Vehicles	Commuter Vans			Single Unit Trucks	Tractor Trailers	Total Vehicles			
	Autos & Motorcycles	Large SUVs	Pickups				Autos & Motorcycles	Large SUVs	Pickups						
	1 & 2	3	4	5-7	8-13		1 & 2	3	4	5-7	8-13				
12-1am	153	6	10	10	0	179	459	10	30	5	0	504			
1-2am	82	4	7	1	0	94	216	0	10	1	0	227			
2-3am	53	0	3	3	0	59	121	2	3	2	0	128			
3-4am	65	1	7	3	0	76	84	0	0	2	0	86			
4-5am	107	6	41	12	0	166	82	0	5	2	0	89			
5-6am	658	7	58	7	0	730	134	2	11	5	0	152			
6-7am	1,863	13	187	24	0	2,087	342	7	96	14	0	459			
7-8am	2,616	16	309	40	0	2,981	485	8	162	18	0	673			
8-9am	2,835	16	353	39	0	3,243	542	6	176	18	0	742			
9-10am	2,753	22	196	45	0	3,016	600	8	153	22	0	783			
10-11am	1,620	22	90	48	1	1,781	713	9	76	17	0	815			
11-12am	1,426	13	63	35	1	1,538	896	9	67	20	0	992			
12-1pm	1,235	14	65	28	0	1,342	1,033	12	56	20	0	1,121			
1-2pm	1,156	11	78	33	0	1,278	1,167	13	84	29	0	1,293			
2-3pm	1,196	10	101	24	0	1,331	1,396	15	87	27	0	1,525			
3-4pm	1,238	5	131	12	0	1,386	1,759	13	134	24	0	1,930			
4-5pm	1,158	4	156	9	1	1,328	2,284	7	206	21	0	2,518			
5-6pm	1,146	3	129	6	3	1,287	2,301	7	264	14	1	2,587			
6-7pm	1,386	4	93	8	1	1,492	2,076	6	168	10	1	2,261			
7-8pm	1,139	1	55	4	0	1,199	1,825	5	99	8	0	1,937			
8-9pm	582	3	23	4	0	612	1,626	8	97	10	0	1,741			
9-10pm	467	1	22	2	0	492	1,279	4	56	14	0	1,353			
10-11pm	446	1	21	3	0	471	1,087	5	31	9	0	1,132			
11-12pm	323	0	30	11	0	364	850	7	35	9	0	901			
<b>Totals</b>	<b>25,703</b>	<b>183</b>	<b>2,228</b>	<b>411</b>	<b>7</b>	<b>28,532</b>	<b>23,357</b>	<b>163</b>	<b>2,106</b>	<b>321</b>	<b>2</b>	<b>25,949</b>			
7-10am	8,204	54	858	124	0	9,240	1,627	22	491	58	0	2,198			
10am-1pm	4,281	49	218	111	2	4,661	2,642	30	199	57	0	2,928			
1-4pm	3,590	26	310	69	0	3,995	4,322	41	305	80	0	4,748			
4-7pm	3,690	11	378	23	5	4,107	6,661	20	638	45	2	7,366			
7am-7pm	19,765	140	1,764	327	7	22,003	15,252	113	1,633	240	2	17,240			
6-10am	10,067	67	1,045	148	0	11,327	1,969	29	587	72	0	2,657			
3-7pm	4,928	16	509	35	5	5,493	8,420	33	772	69	2	9,296			
7am-7pm	21,628	153	1,951	351	7	24,090	15,594	120	1,729	254	2	17,699			

\*\* Peak Volumes

Based on May 2006 Classification Survey Data.

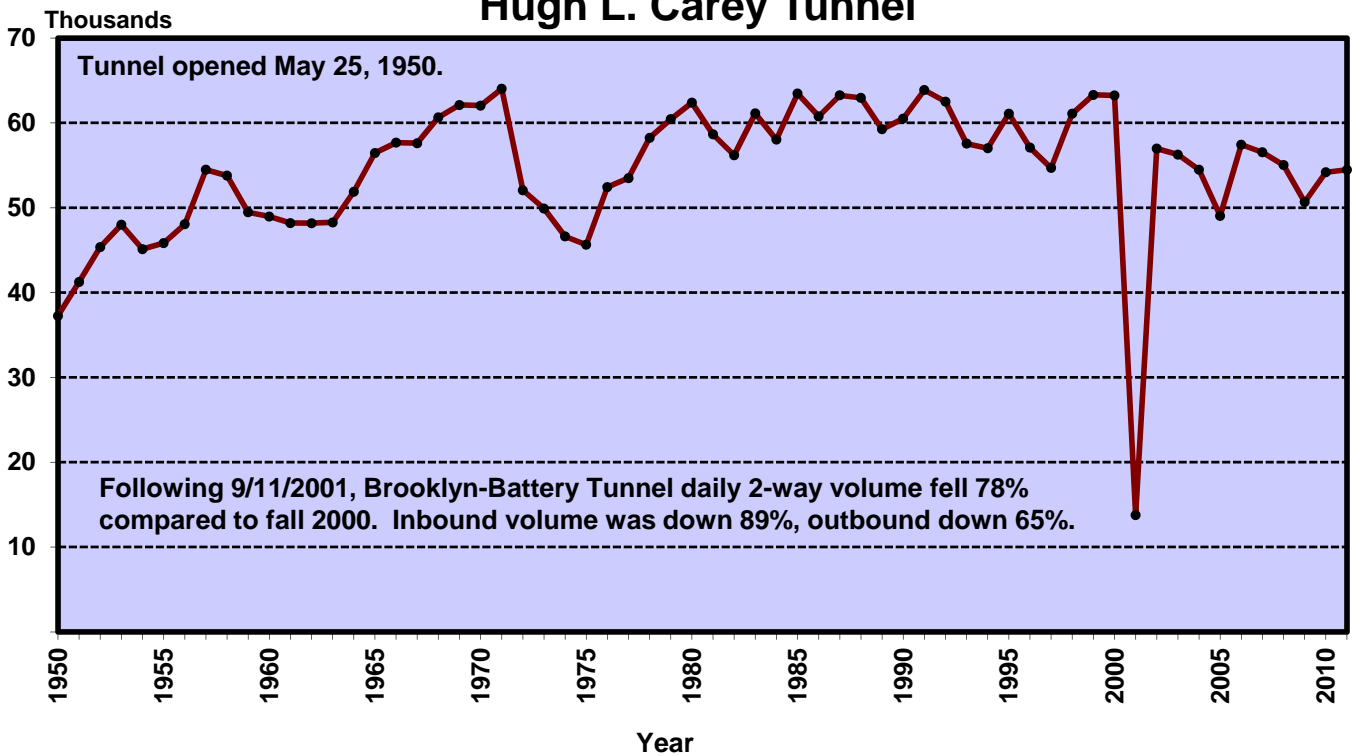


## Hourly Vehicular Volumes Hugh L. Carey Tunnel ~ 2011



Originally Brooklyn-Battery Tunnel; renamed Hugh L. Carey Tunnel December 2010.

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



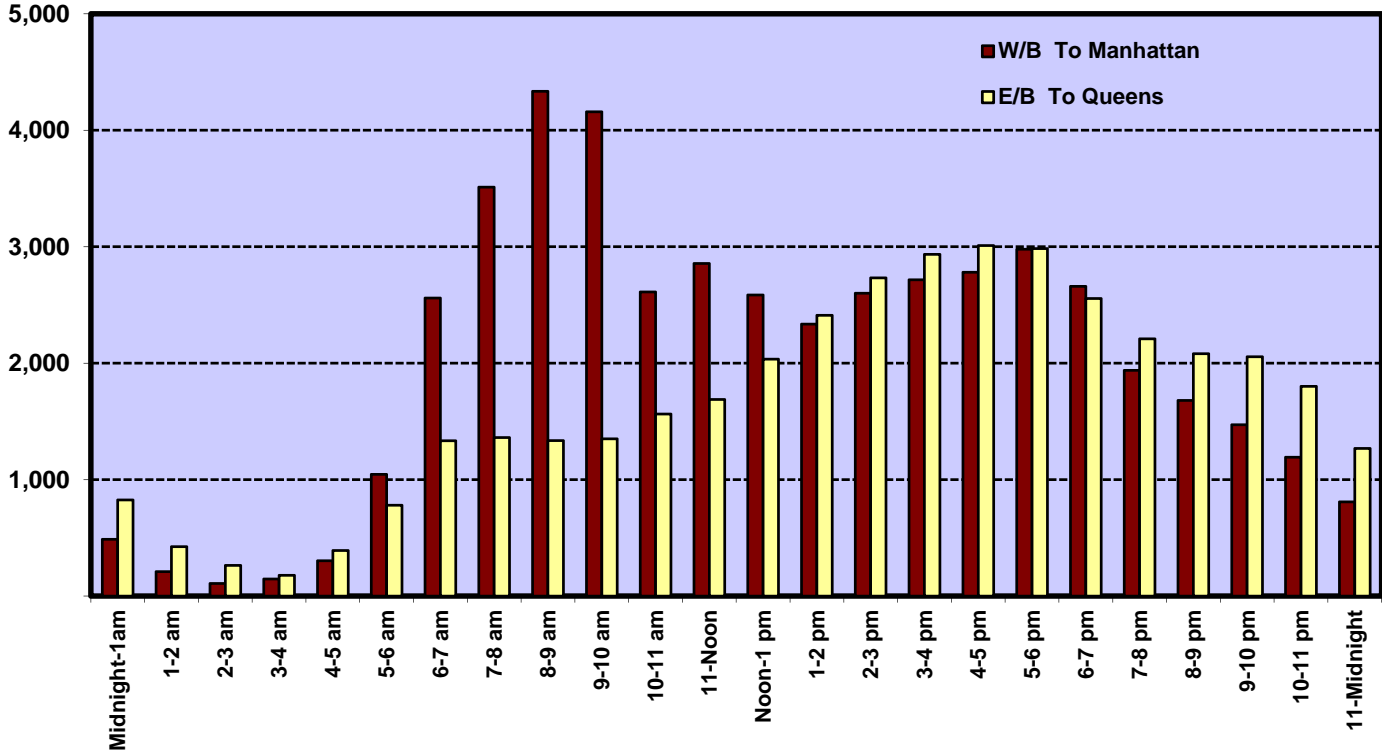
**Hourly Vehicular Volumes  
Queens-Midtown Tunnel - 2011**

FHWA Classes ▶	Westbound to Manhattan							Eastbound to Queens							2-Way Grand Totals	
	Commuter Vans				Single Unit Trucks	Tractor Trailers	Total Vehicles	Commuter Vans				Single Unit Trucks	Tractor Trailers	Total Vehicles		
	Autos & Motorcycles	Pickups Large SUVs	Buses	1 & 2				Autos & Motorcycles	Pickups Large SUVs	Buses	3 & 4					
	1	2	3	4	5-7	8-13										
12-1am	472	2	2	3	11	0	488	797	8	1	20	0	826			
1-2am	200	2	1	1	7	0	210	405	4	0	16	0	425			
2-3am	100	1	1	1	6	0	108	247	5	0	11	0	263			
3-4am	133	1	1	3	10	0	147	160	8	0	11	0	179			
4-5am	244	6	17	17	37	0	304	322	27	3	38	1	391			
5-6am	912	10	52	52	72	0	1,046	695	20	12	53	0	780			
6-7am	2,188	90	161	161	121	0	2,560	1,209	36	52	37	0	1,334			
7-8am	3,027	124	222	222	138	1	3,512	1,211	52	65	34	0	1,362			
8-9am	3,898	122	153	153	162	0	4,335	1,166	43	80	46	0	1,335			
9-10am	3,750	105	187	187	113	4	4,159	1,185	51	69	46	0	1,351			
10-11am	2,371	73	88	88	78	2	2,612	1,356	63	75	69	0	1,563			
11-12am	2,648	71	67	67	70	0	2,856	1,500	57	73	59	0	1,689			
12-1pm	2,398	40	59	59	89	0	2,586	1,823	65	56	91	0	2,035			
1-2pm	2,131	67	69	69	69	0	2,336	1,241	110	61	99	0	2,411			
2-3pm	2,361	63	119	119	58	0	2,601	2,534	78	47	74	0	2,733			
3-4pm	2,415	56	176	176	69	0	2,716	2,713	66	68	88	0	2,935			
4-5pm	2,541	34	170	170	36	0	2,781	2,777	82	70	81	0	3,010			
5-6pm	2,798	19	137	137	25	0	2,979	2,816	47	76	45	0	2,984			
6-7pm	2,543	18	74	74	25	0	2,660	2,428	31	58	38	0	2,555			
7-8pm	1,869	12	44	44	14	0	1,939	2,107	22	59	21	0	2,209			
8-9pm	1,598	21	30	30	31	0	1,680	1,977	24	39	41	0	2,081			
9-10pm	1,414	14	17	17	26	0	1,471	1,971	21	21	41	1	2,055			
10-11pm	1,142	8	12	12	30	0	1,192	1,736	19	10	36	0	1,801			
11-12pm	785	7	3	3	14	0	809	1,234	4	4	26	0	1,268			
Totals	43,938	966	1,865	1,865	1,311	7	48,087	36,510	943	999	1,121	2	39,575			
7-10am	10,675	351	562	562	413	5	12,006	3,562	146	214	126	0	4,048			
10am-1pm	7,417	184	214	214	237	2	8,054	4,679	185	204	219	0	5,287			
1-4pm	6,907	186	364	364	196	0	7,653	7,388	254	176	261	0	8,079			
4-7pm	7,882	71	381	381	86	0	8,420	8,021	160	204	164	0	8,549			
7am-7pm	32,881	792	1,521	1,521	932	7	36,133	23,650	745	798	770	0	25,963			
6-10am	12,863	441	723	723	534	5	14,566	4,771	182	266	163	0	5,382			
3-7pm	10,297	127	557	557	155	0	11,136	10,734	226	272	252	0	11,484			
7am-7pm	35,069	882	1,682	1,682	1,053	7	38,693	24,859	781	850	807	0	27,297			

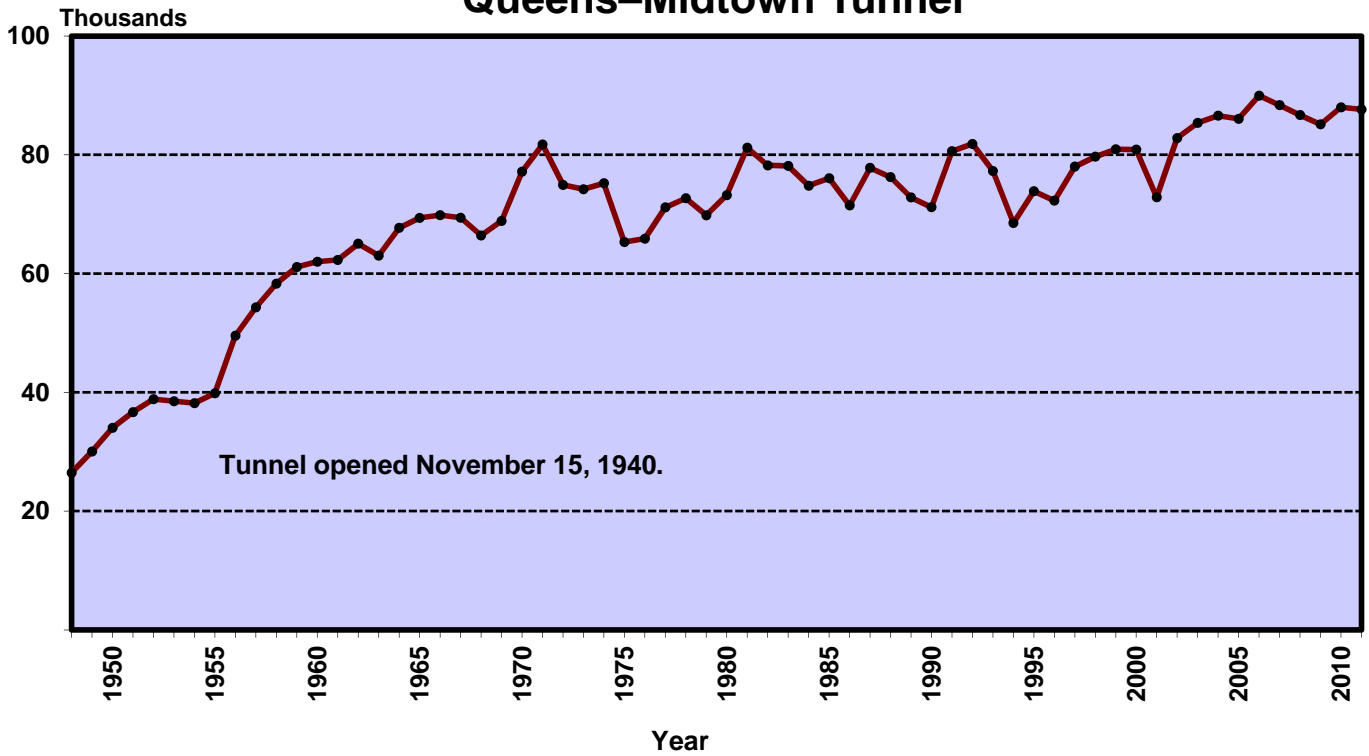
\*\* Peak Volumes

Based on May 2006 Classification Survey Data.

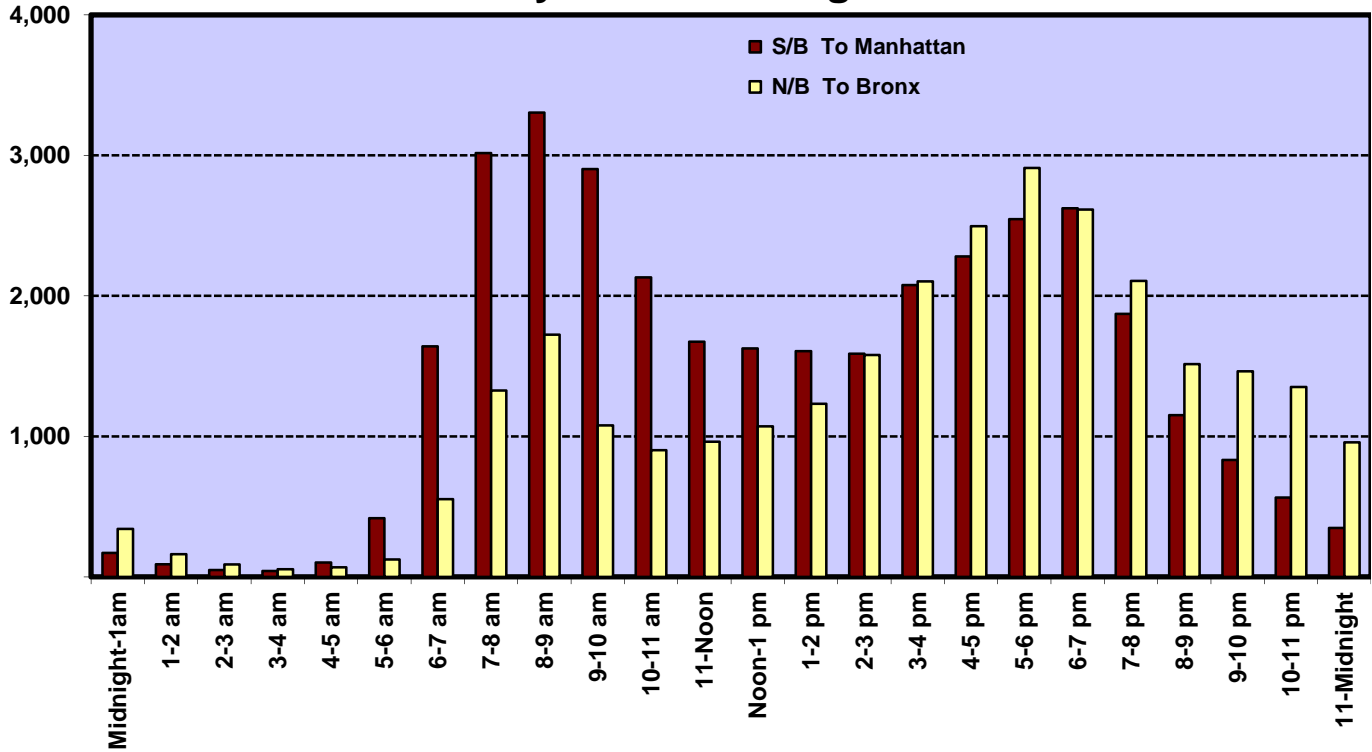
## Hourly Vehicular Volumes Queens-Midtown Tunnel ~ 2011



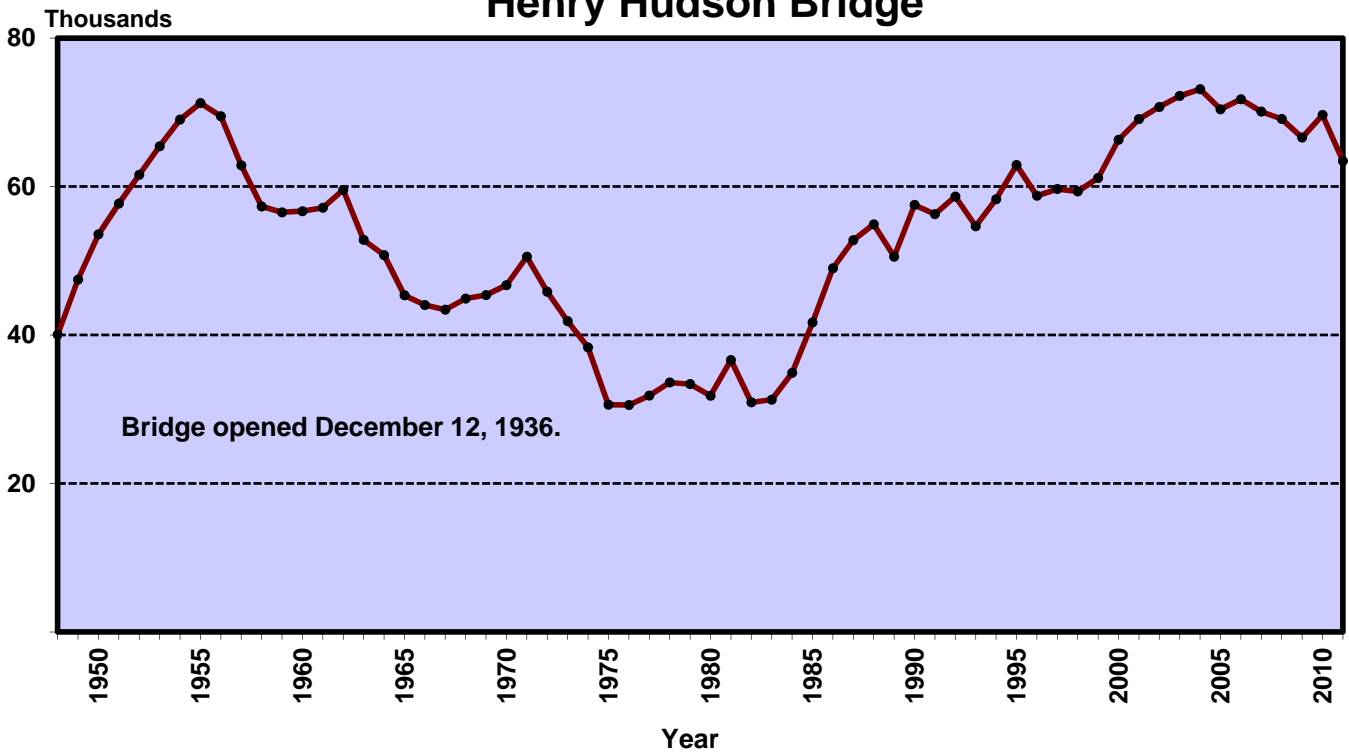
## Average Daily Traffic Volumes ~ Total of Both Directions Queens-Midtown Tunnel



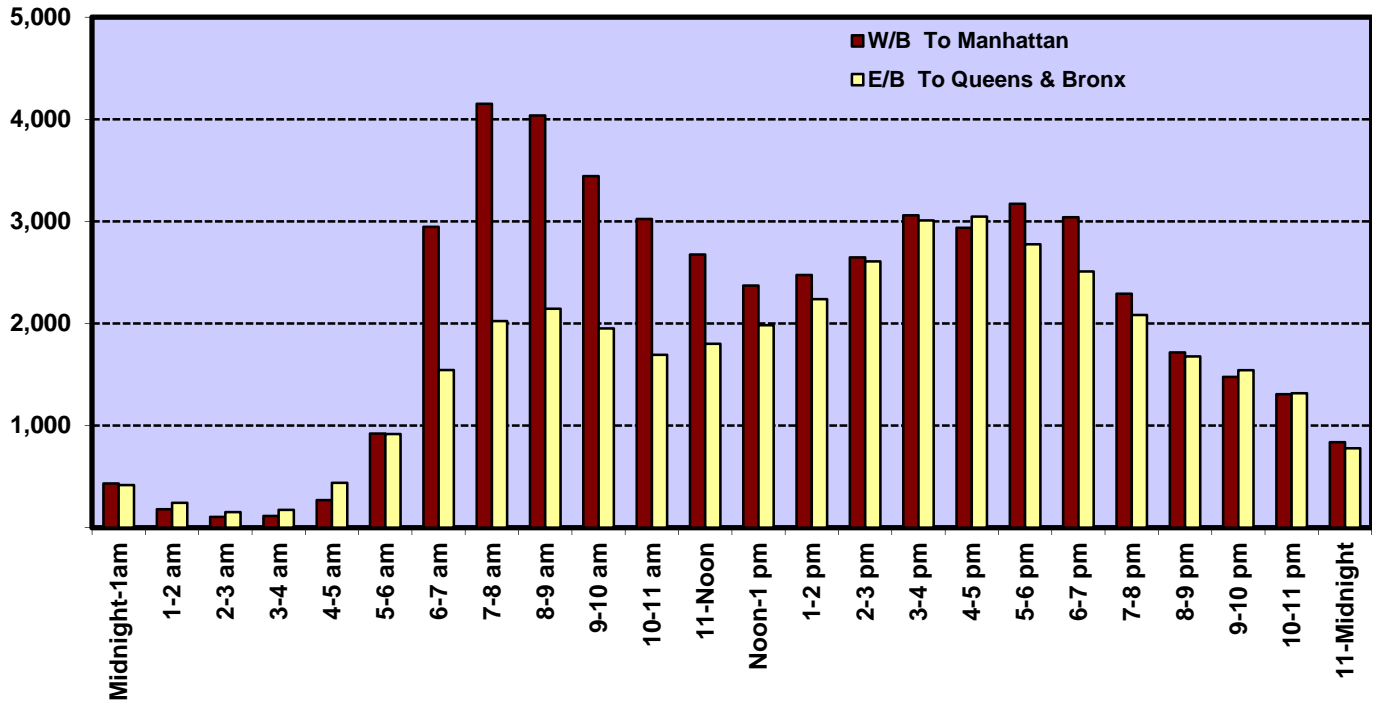
## Hourly Vehicular Volumes Henry Hudson Bridge ~ 2011



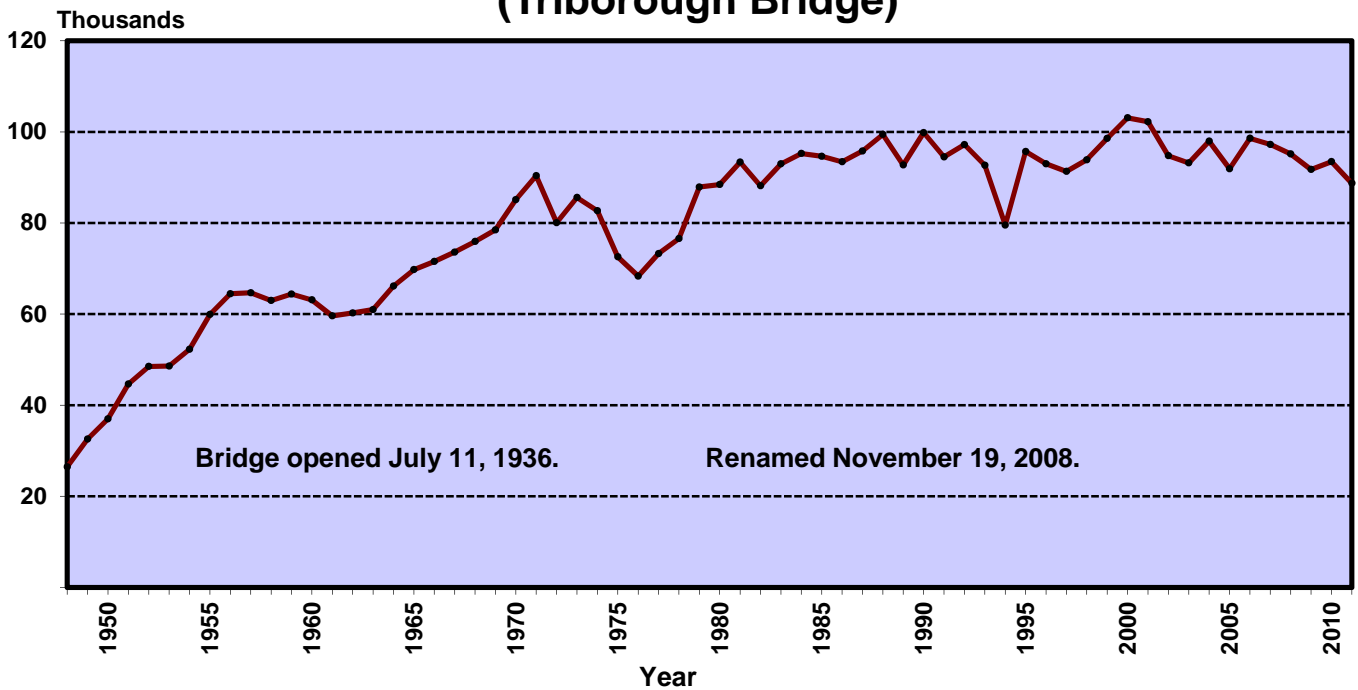
## Average Daily Traffic Volumes ~ Total of Both Directions Henry Hudson Bridge



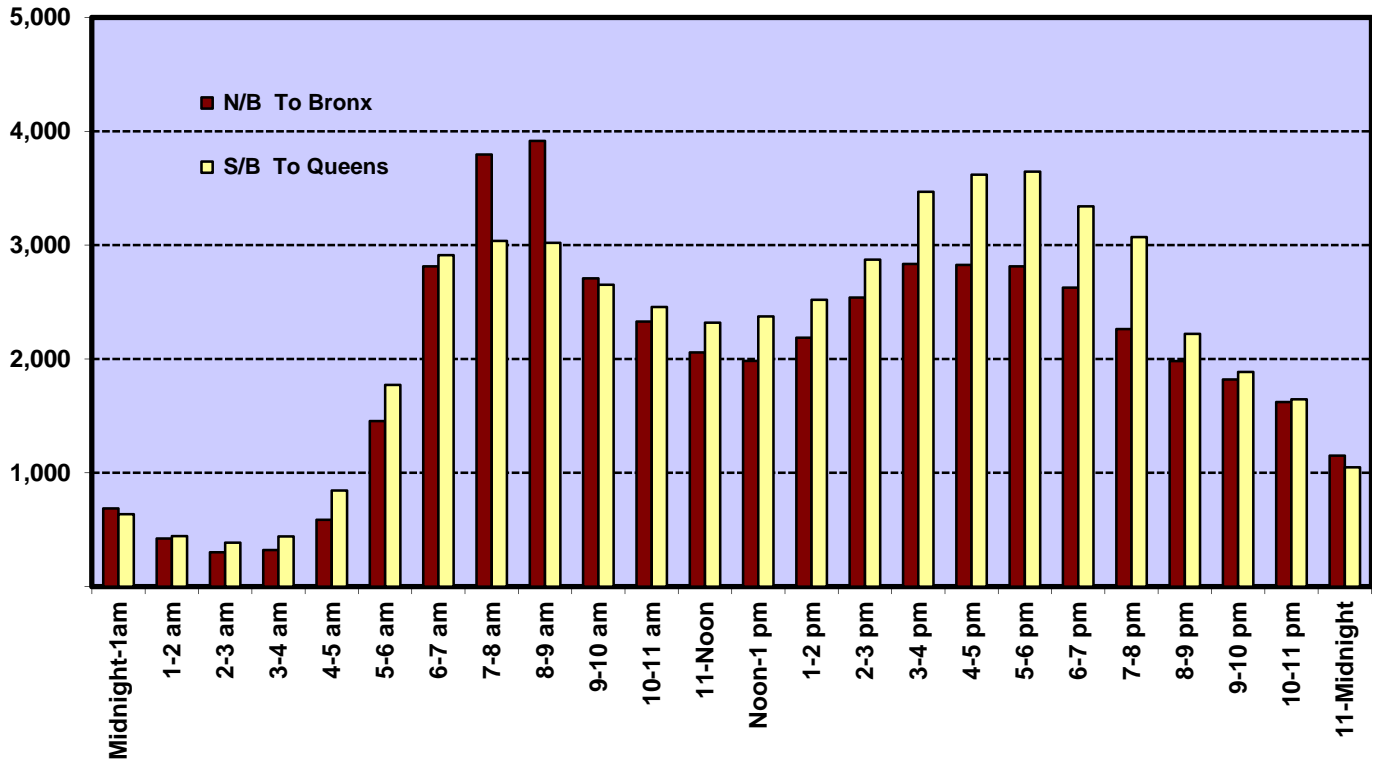
## Hourly Vehicular Volumes Robert F. Kennedy Memorial Bridge, Manhattan Plaza ~ 2011 (Triborough Bridge)



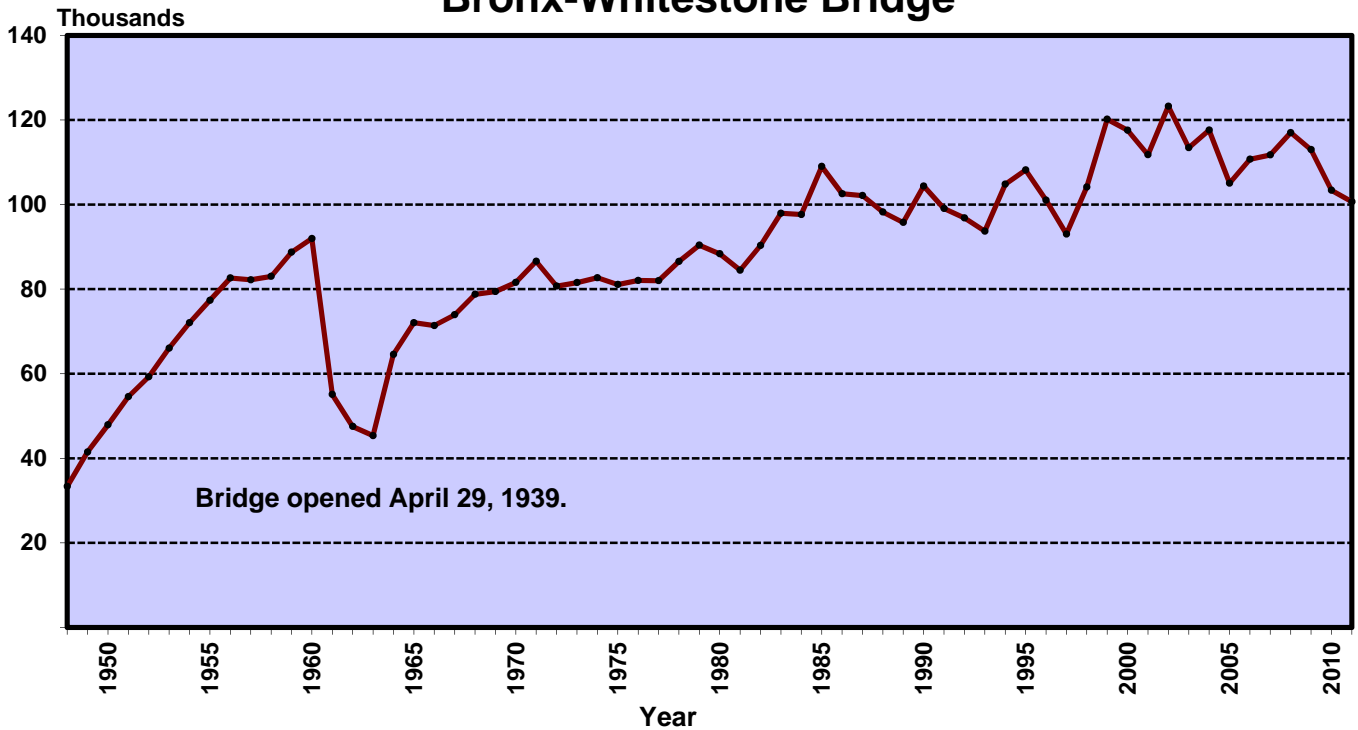
## Average Daily Traffic Volumes ~ Total of Both Directions Robert F. Kennedy Memorial Bridge, Manhattan Plaza (Triborough Bridge)



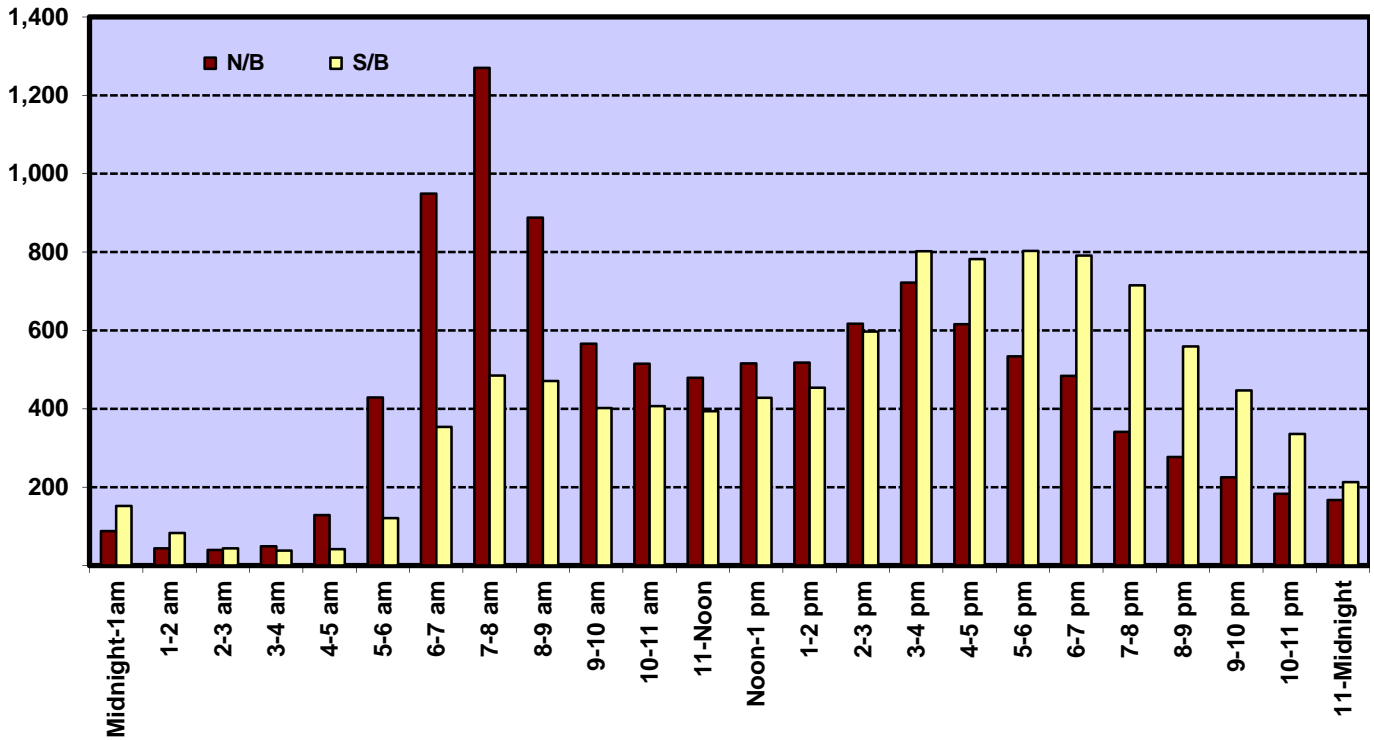
## Hourly Vehicular Volumes Bronx-Whitestone Bridge ~ 2011



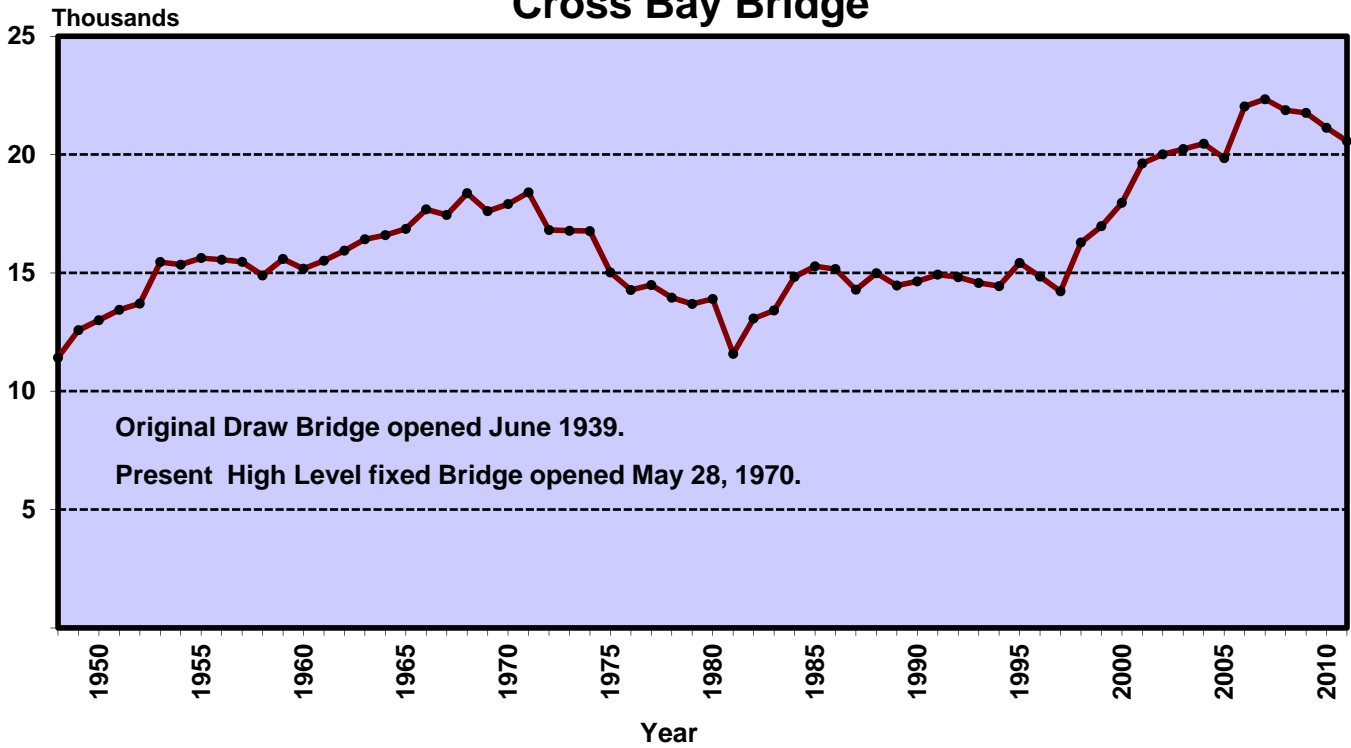
## Average Daily Traffic Volumes ~ Total of Both Directions Bronx-Whitestone Bridge



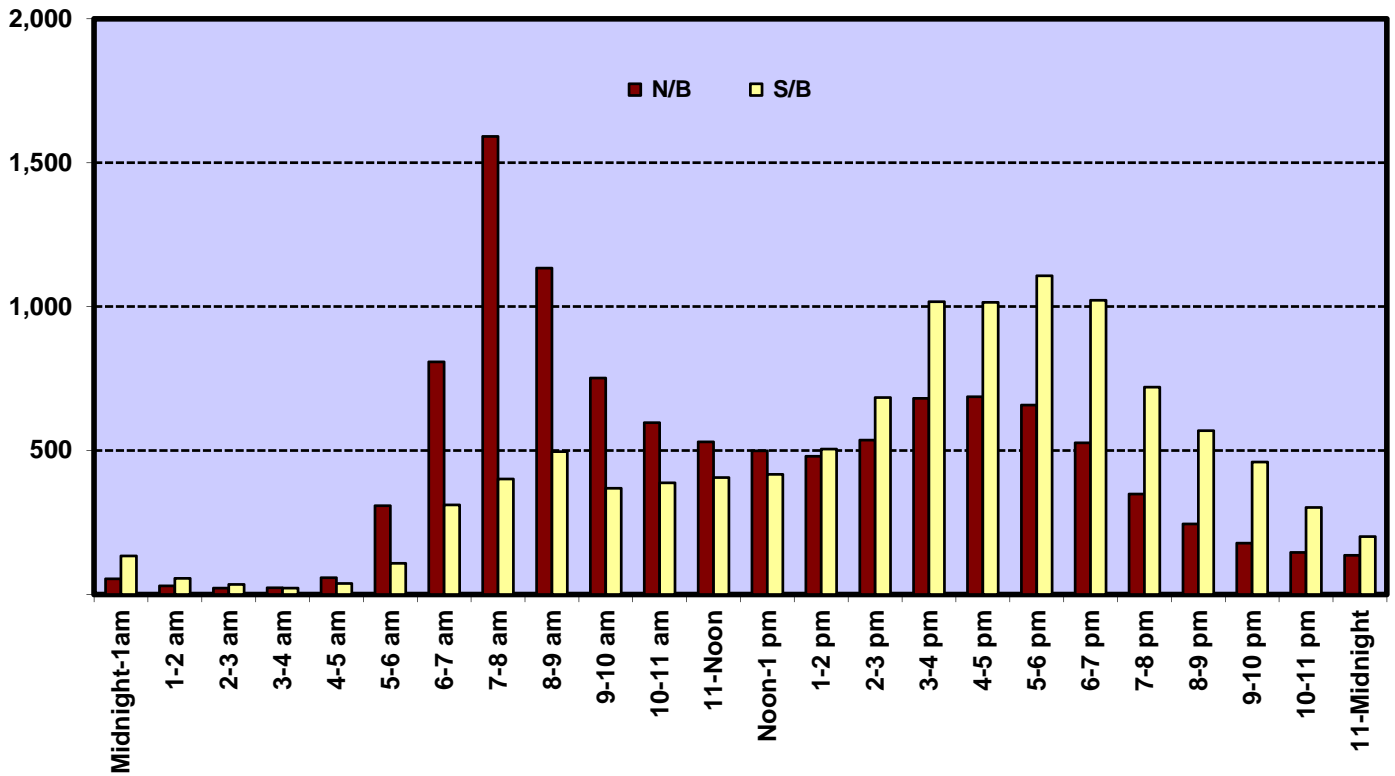
## Hourly Vehicular Volumes Cross Bay Bridge ~ 2011



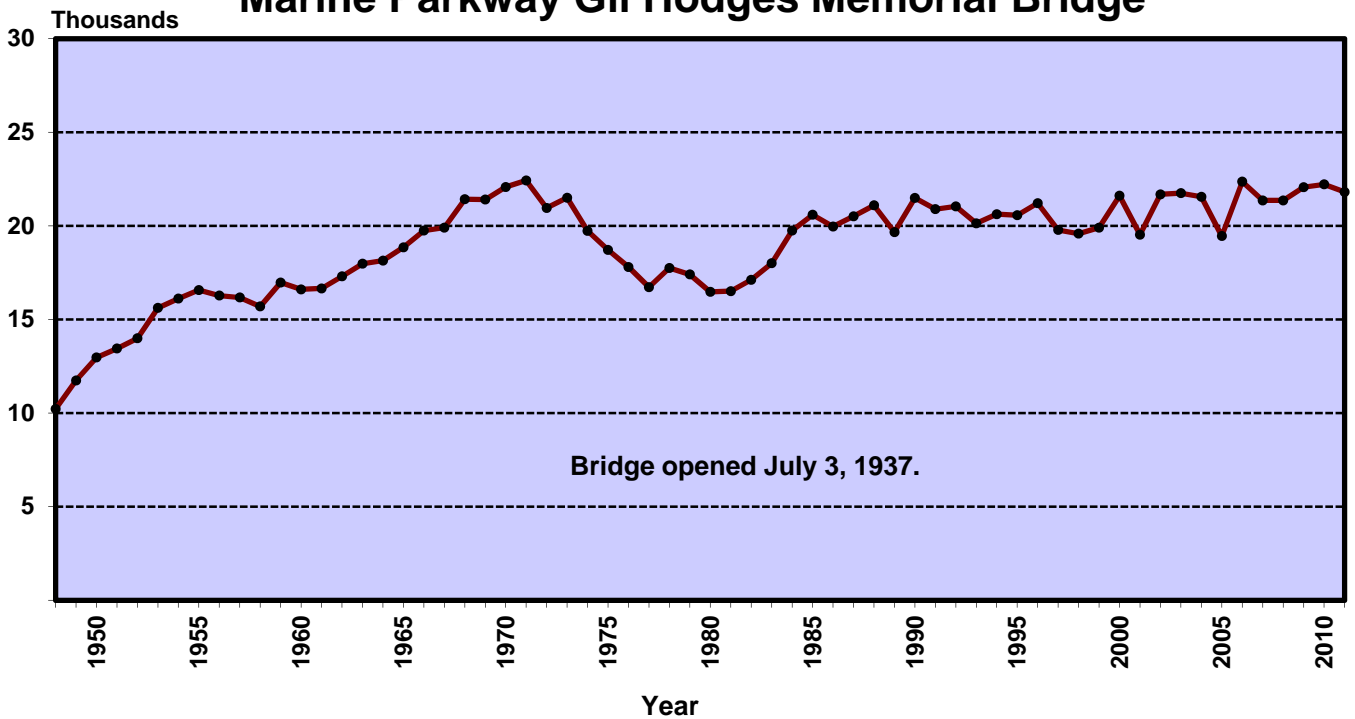
## Average Daily Traffic Volumes ~ Total of Both Directions Cross Bay Bridge



## Hourly Vehicular Volumes Marine Parkway Gil Hodges Memorial Bridge ~ 2011

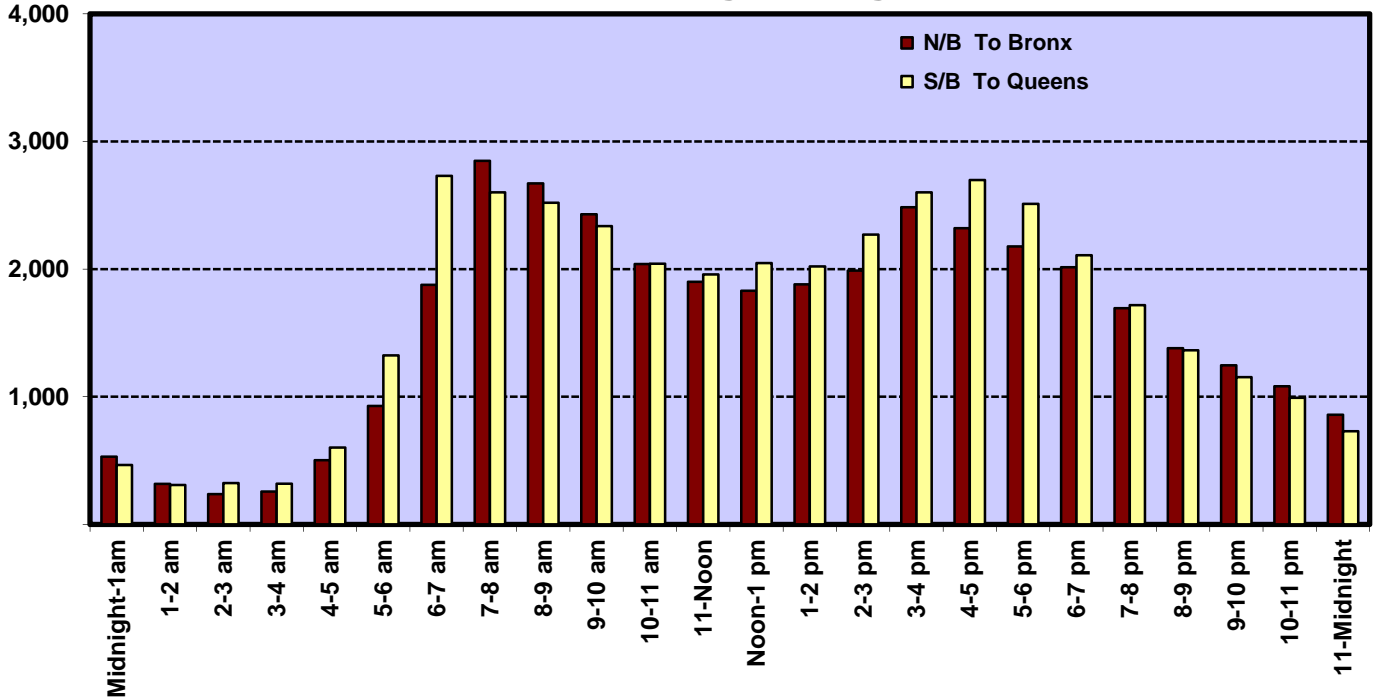


## Average Daily Traffic Volumes ~ Total of Both Directions Marine Parkway Gil Hodges Memorial Bridge

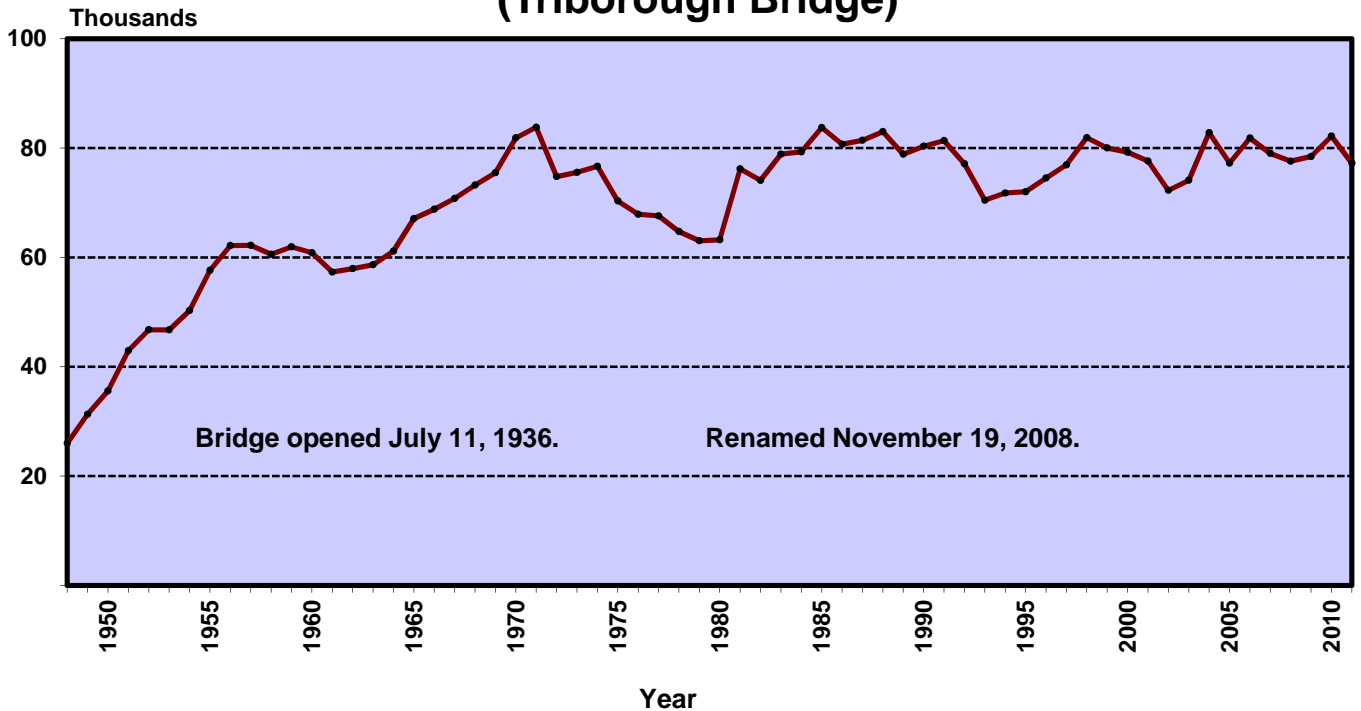




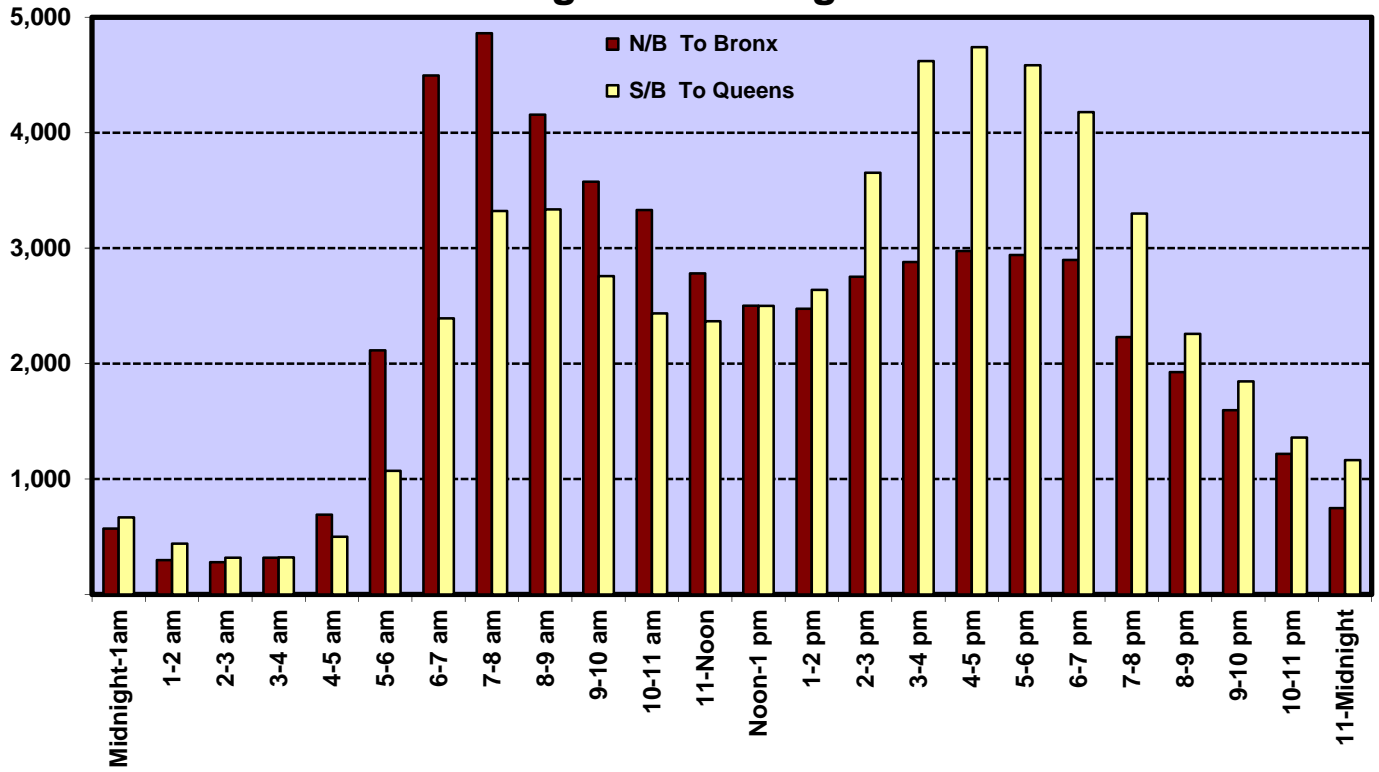
## Hourly Vehicular Volumes Robert F. Kennedy Memorial Bridge, Bronx Plaza ~ 2011 (Triborough Bridge)



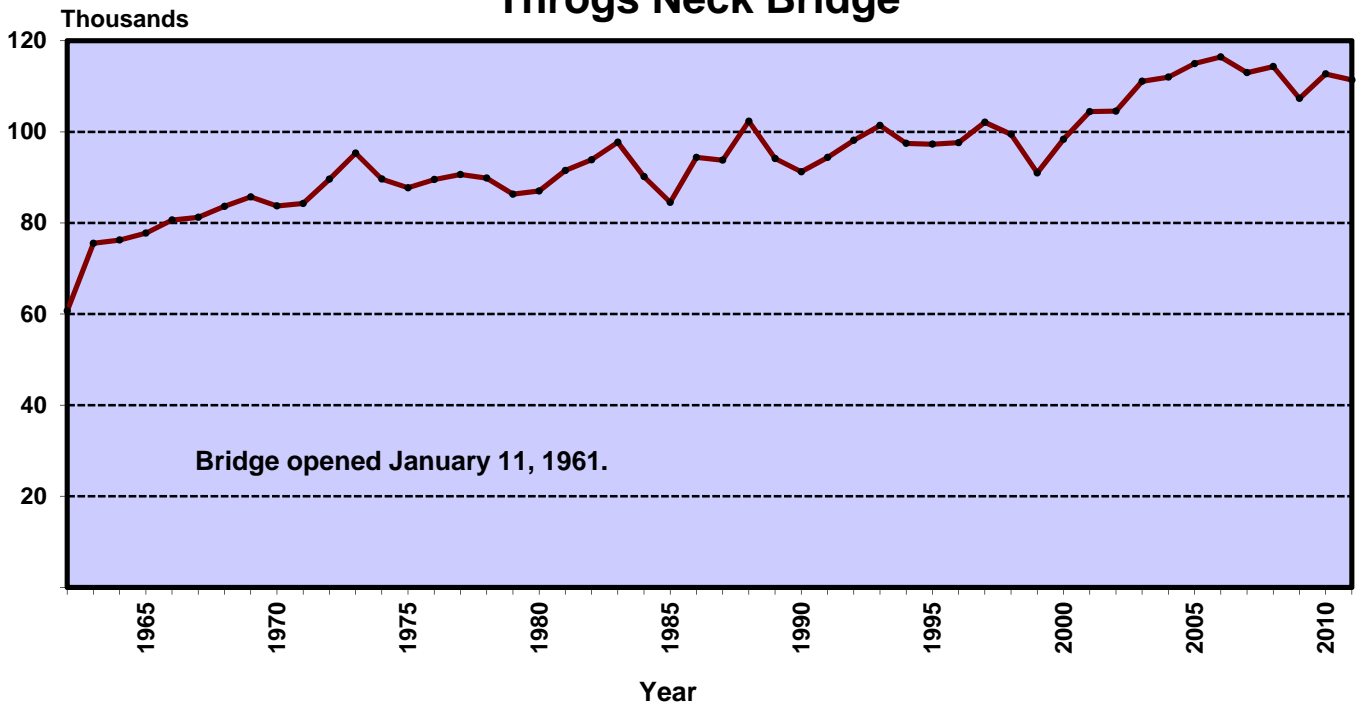
## Average Daily Traffic Volumes ~ Total of Both Directions Robert F. Kennedy Memorial Bridge, Bronx Plaza (Triborough Bridge)



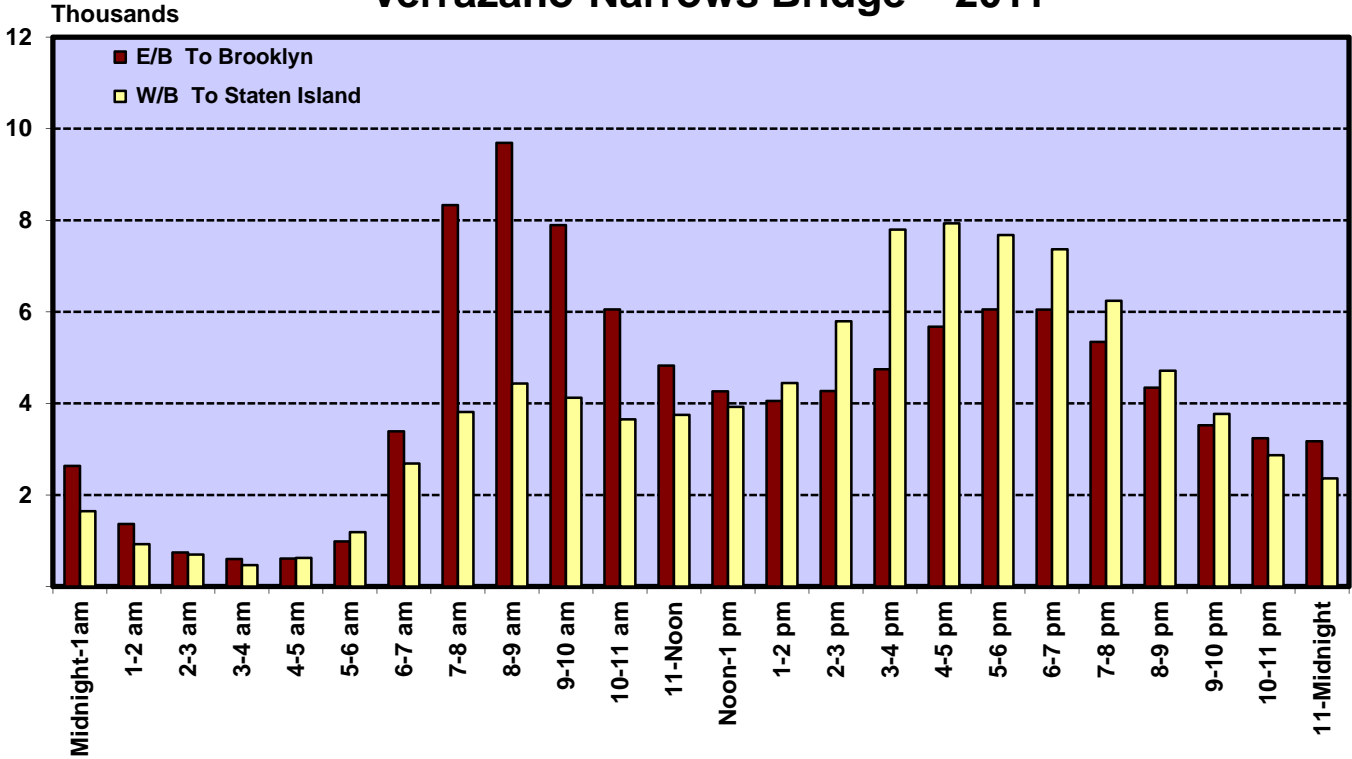
## Hourly Vehicular Volumes Throgs Neck Bridge ~ 2011



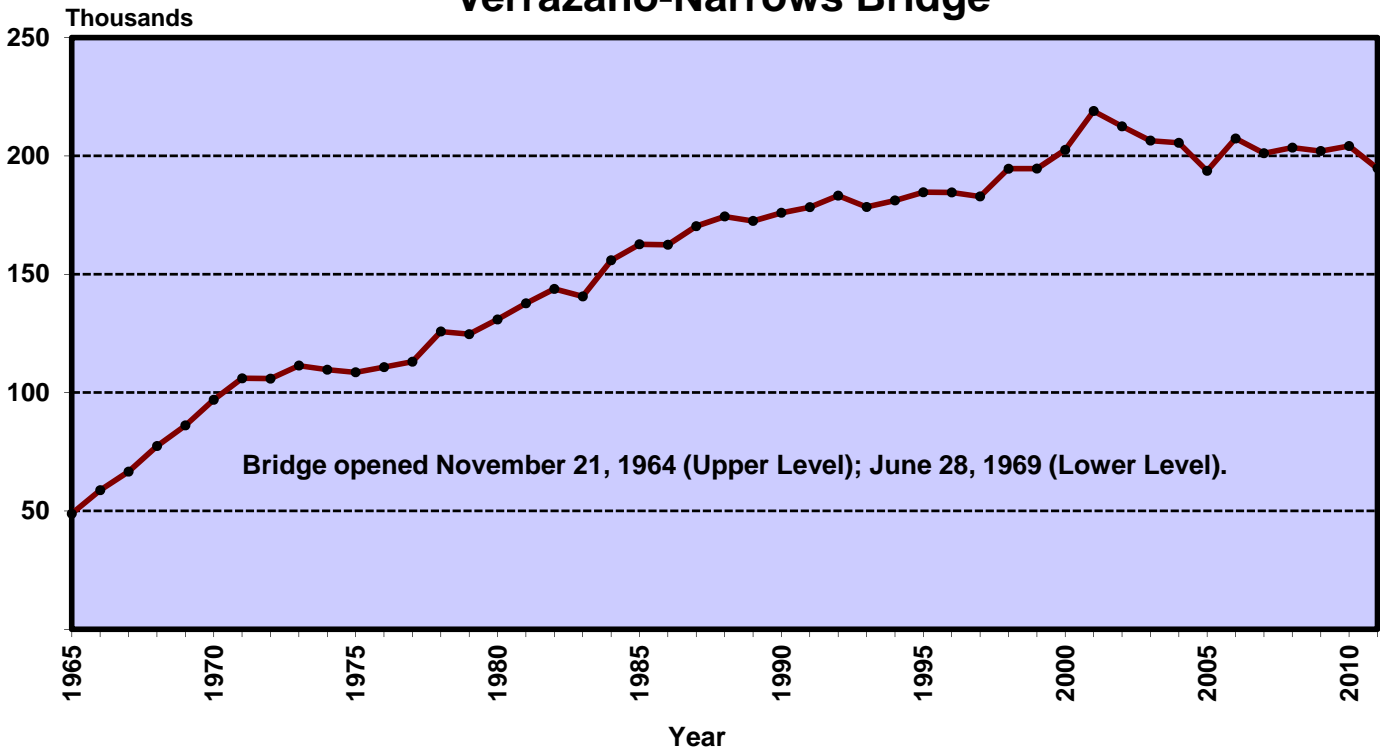
## Average Daily Traffic Volumes ~ Total of Both Directions Throgs Neck Bridge



## Hourly Vehicular Volumes Verrazano-Narrows Bridge ~ 2011



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





# PANYNJ Facilities

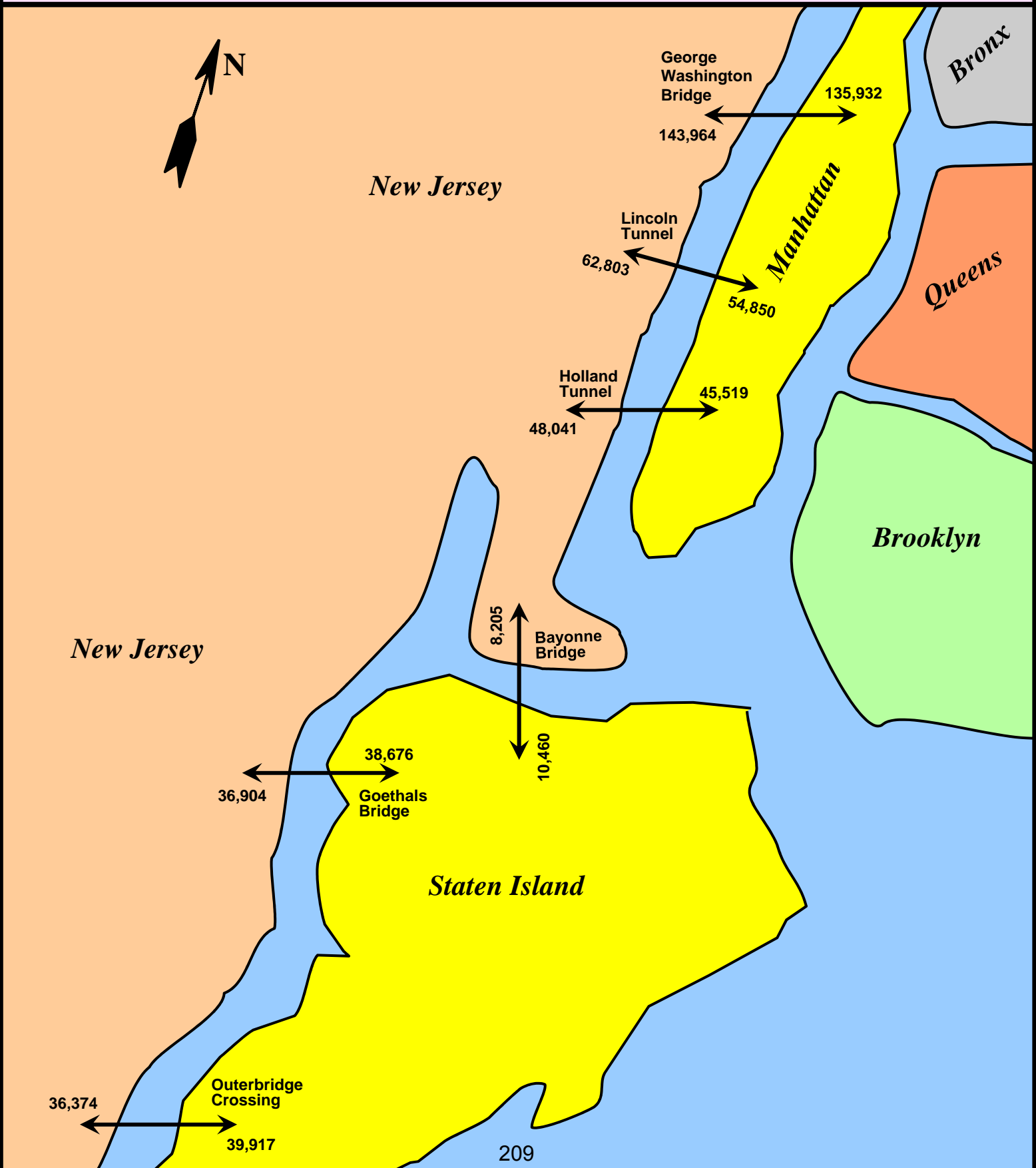


George Washington Bridge



# PANYNJ Facilities

## 2011 Daily Volumes



**PANYNJ Manhattan - New Jersey Facilities**  
**Average Daily Traffic Volumes**  
**1948 - 2011**

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

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

PANYNJ toll increases May 1975, January 1984, April, 1987, April 1991, March 2001, March 2008, & September 2011.



**PANYNJ Staten Island - New Jersey Bridges**  
**Average Daily Traffic Volumes**  
**1948 - 2011**

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

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

PANYNJ toll increases May 1975, January 1984, April, 1987, April 1991, March 2001, March 2008, & September 2011.

# Hourly Vehicular Volumes

## Port Authority of New York & New Jersey 2011

	George Washington Bridge		Holland Tunnel		Lincoln Tunnel		Totals	
	E/B	W/B	E/B	W/B	E/B	W/B	Entering Manhattan	Leaving Manhattan
12-1am	1,801	3,593	677	1,371	842	1,490	3,320	6,454
1-2am	1,142	1,447	418	756	451	932	2,011	3,135
2-3am	1,042	1,182	330	657	386	587	1,758	2,426
3-4am	1,278	1,126	392	766	427	503	2,097	2,395
4-5am	2,178	1,538	641	1,080	884	570	3,703	3,188
5-6am	6,149	2,598	2,180	1,377	2,848	842	11,177	4,817
6-7am	10,609 **	4,941	2,996 **	2,187	5,070 **	1,429	18,675 **	8,557
7-8am	9,665	6,697	2,976	2,495	4,621	2,064	17,262	11,256
8-9am	8,638	7,036	2,892	2,605	4,354	1,912	15,884	11,553
9-10am	8,539	6,095	2,733	2,157	4,131	1,969	15,403	10,221
10-11am	7,277	5,340	2,378	2,107	3,082	2,328	12,737	9,775
11-12am	6,492	5,937	2,118	2,045	2,809	2,474	11,419	10,456
12-1pm	6,151	6,275	1,948	2,164	2,547	2,765	10,646	11,204
1-2pm	6,096	6,151	1,945	2,433	2,488	3,198	10,529	11,782
2-3pm	6,297	7,432	2,061	2,743	2,592	3,742	10,950	13,917
3-4pm	6,907	10,534	2,374	2,753 **	2,614	4,418	11,895	17,705 **
4-5pm	7,582	11,306 **	2,615	2,360	2,059	5,053 **	12,256	18,719 **
5-6pm	7,982	11,221	2,803	2,005	1,544	5,052	12,329	18,278
6-7pm	7,949	10,902	2,638	2,422	1,945	4,916	12,532	18,240
7-8pm	6,480	9,420	2,271	2,525	2,199	3,917	10,950	15,862
8-9pm	5,012	7,803	1,784	2,550	1,916	3,733	8,712	14,086
9-10pm	4,113	6,429	1,589	2,447	1,853	3,131	7,555	12,007
10-11pm	3,787	4,748	1,585	2,175	1,757	3,007	7,129	9,930
11-12pm	2,766	4,213	1,175	1,861	1,431	2,771	5,372	8,845
Totals	135,932	143,964	45,519	48,041	54,850	62,803	236,301	254,808
7-10am	26,842	19,828	8,601	7,257	13,106	5,945	48,549	33,030
10am-1pm	19,920	17,552	6,444	6,316	8,438	7,567	34,802	31,435
1-4pm	19,300	24,117	6,380	7,929	7,694	11,358	33,374	43,404
4-7pm	23,513	33,429	8,056	6,787	5,548	15,021	37,117	55,237
7am-7pm	89,575	94,926	29,481	28,289	34,786	39,891	153,842	163,106
6-10am	37,451	24,769	11,597	9,444	18,176	7,374	67,224	41,587
3-7pm	30,420	43,963	10,430	9,540	8,162	19,439	49,012	72,942
6am-7pm	100,184	99,867	32,477	30,476	39,856	41,320	172,517	171,663

\*\* 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 2011

	Bayonne Bridge		Goethals Bridge		Outerbridge Crossing		Totals	
	S/B	N/B	E/B	W/B	E/B	W/B	To Staten Island	To New Jersey
12-1am	133	94	641	405	440	530	1,214	1,029
1-2am	89	47	394	232	274	267	757	546
2-3am	75	37	291	215	259	183	625	435
3-4am	79	38	280	227	295	191	654	456
4-5am	102	58	511	370	628	263	1,241	691
5-6am	228	249	1,290	864	1,792	524	3,310	1,637
6-7am	415	593	2,060	1,695	2,793	1,195	5,268	3,483
7-8am	489	968	1,941	2,499	2,614	2,066	5,044	5,533
8-9am	472	962	1,953	2,739	2,330	2,277	4,755	5,978
9-10am	415	516	1,956	2,016	2,171	1,889	4,542	4,421
10-11am	387	397	1,883	1,959	1,854	1,772	4,124	4,128
11-12am	358	388	1,761	2,027	1,716	1,848	3,835	4,263
12-1pm	387	368	1,837	1,939	1,767	1,852	3,991	4,159
1-2pm	447	343	2,037	1,928	1,912	1,948	4,396	4,219
2-3pm	593	368	2,174	2,165	1,954	2,334	4,721	4,867
3-4pm	729	396	2,233	2,710	2,134	2,683	5,096	5,789
4-5pm	892	444	2,518	2,878	2,303	2,655	5,713	5,977
5-6pm	1,175	450	2,867	2,587	2,640	2,651	6,682	5,688
6-7pm	1,087	396	2,764	2,118	2,440	2,496	6,291	5,010
7-8pm	675	335	2,226	1,651	1,984	2,148	4,885	4,134
8-9pm	410	252	1,713	1,293	1,556	1,660	3,679	3,205
9-10pm	323	216	1,406	1,004	1,324	1,238	3,053	2,458
10-11pm	281	163	1,097	764	1,031	986	2,409	1,913
11-12pm	219	127	843	619	706	718	1,768	1,464
Totals	10,460	8,205	38,676	36,904	38,917	36,374	88,053	81,483
7-10am	1,376	2,446	5,850	7,254	7,115	6,232	14,341	15,932
10am-1pm	1,132	1,153	5,481	5,925	5,337	5,472	11,950	12,550
1-4pm	1,769	1,107	6,444	6,803	6,000	6,965	14,213	14,875
4-7pm	3,154	1,290	8,149	7,583	7,383	7,802	18,686	16,675
7am-7pm	7,431	5,996	25,924	27,565	25,835	26,471	59,190	60,032
6-10am	1,791	3,039	7,910	8,949	9,908	7,427	19,609	19,415
3-7pm	3,883	1,686	10,382	10,293	9,517	10,485	23,782	22,464
6am-7pm	7,846	6,589	27,984	29,260	28,628	27,666	64,458	63,515

\*\* 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.

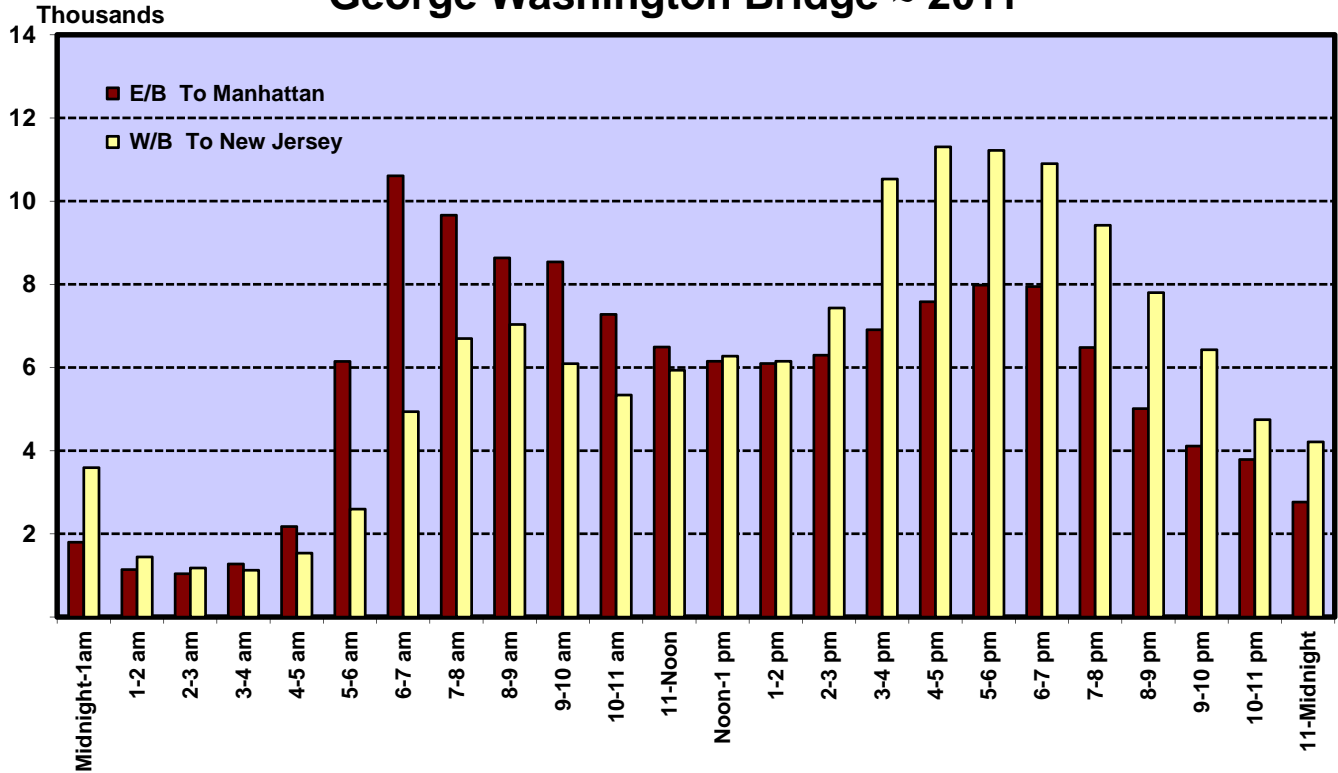
## Hourly Vehicular Volumes George Washington Bridge - 2011

	Eastbound to Manhattan					Westbound to New Jersey					2-Way Grand Totals
	Autos	Buses	Small Trucks	Large Trucks	Total Vehicles	Autos	Buses	Small Trucks	Large Trucks	Total Vehicles	
12-1am	1,475	15	42	269	1,801	3,210	14	64	305	3,593	5,394
1-2am	760	4	56	322	1,142					1,447	2,589
2-3am	579	7	75	381	1,042					1,182	2,224
3-4am	682	5	105	486	1,278					1,126	2,404
4-5am	1,388	11	150	629	2,178					1,538	3,716
5-6am	5,144	32	280	693	6,149			157	559	2,598	8,747
6-7am	9,556	69	419	565	10,609		**	251	570	4,941	15,550
7-8am	8,882	91	327	365	9,665	5,856	80	331	430	6,697	16,362
8-9am	7,873	76	332	357	8,638	6,326	65	274	371	7,036	15,674
9-10am	7,670	79	345	445	8,539	5,274	79	302	440	6,095	14,634
10-11am	6,486	56	313	422	7,277	4,434	53	300	553	5,340	12,617
11-12am	5,791	51	272	378	6,492	4,814	37	377	709	5,937	12,429
12-1pm	5,475	59	260	357	6,151	5,123	41	356	755	6,275	12,426
1-2pm	5,458	54	259	325	6,096	5,113	38	384	616	6,151	12,247
2-3pm	5,687	71	261	278	6,297	6,533	49	363	487	7,432	13,729
3-4pm	6,317	95	235	260	6,907	9,589	58	378	509	10,534	17,441
4-5pm	7,049	94	196	243	7,582	10,479	75	330	422	11,306	18,888
5-6pm	7,519	100	150	213	7,982	10,521	58	259	383	11,221	19,203
6-7pm	7,533	72	117	227	7,949	10,274	83	210	335	10,902	18,851
7-8pm	6,077	66	90	247	6,480	8,905	50	148	317	9,420	15,900
8-9pm	4,625	51	75	261	5,012	7,327	44	116	316	7,803	12,815
9-10pm	3,769	40	74	230	4,113	5,999	36	77	317	6,429	10,542
10-11pm	3,437	29	55	266	3,787	4,423	19	46	260	4,748	8,535
11-12pm	2,442	21	48	255	2,766	3,907	21	53	232	4,213	6,979
Totals	121,674	1,248	4,536	8,474	135,932					143,964	279,896
7-10am	24,425	246	1,004	1,167	26,842	17,456	224	907	1,241	19,828	46,670
10am-1pm	17,752	166	845	1,157	19,920	14,371	131	1,033	2,017	17,552	37,472
1-4pm	17,462	220	755	863	19,300	21,235	145	1,125	1,612	24,117	43,417
4-7pm	22,101	266	463	683	23,513	31,274	216	799	1,140	33,429	56,942
7am-7pm	81,740	898	3,067	3,870	89,575	84,336	716	3,864	6,010	94,926	184,501
6-10am	33,981	315	1,423	1,732	37,451	21,534	266	1,158	1,811	24,769	62,220
3-7pm	28,418	361	698	943	30,420	40,863	274	1,177	1,649	43,963	74,383
6am-7pm	91,296	967	3,486	4,435	100,184	88,414	758	4,115	6,580	99,867	200,051

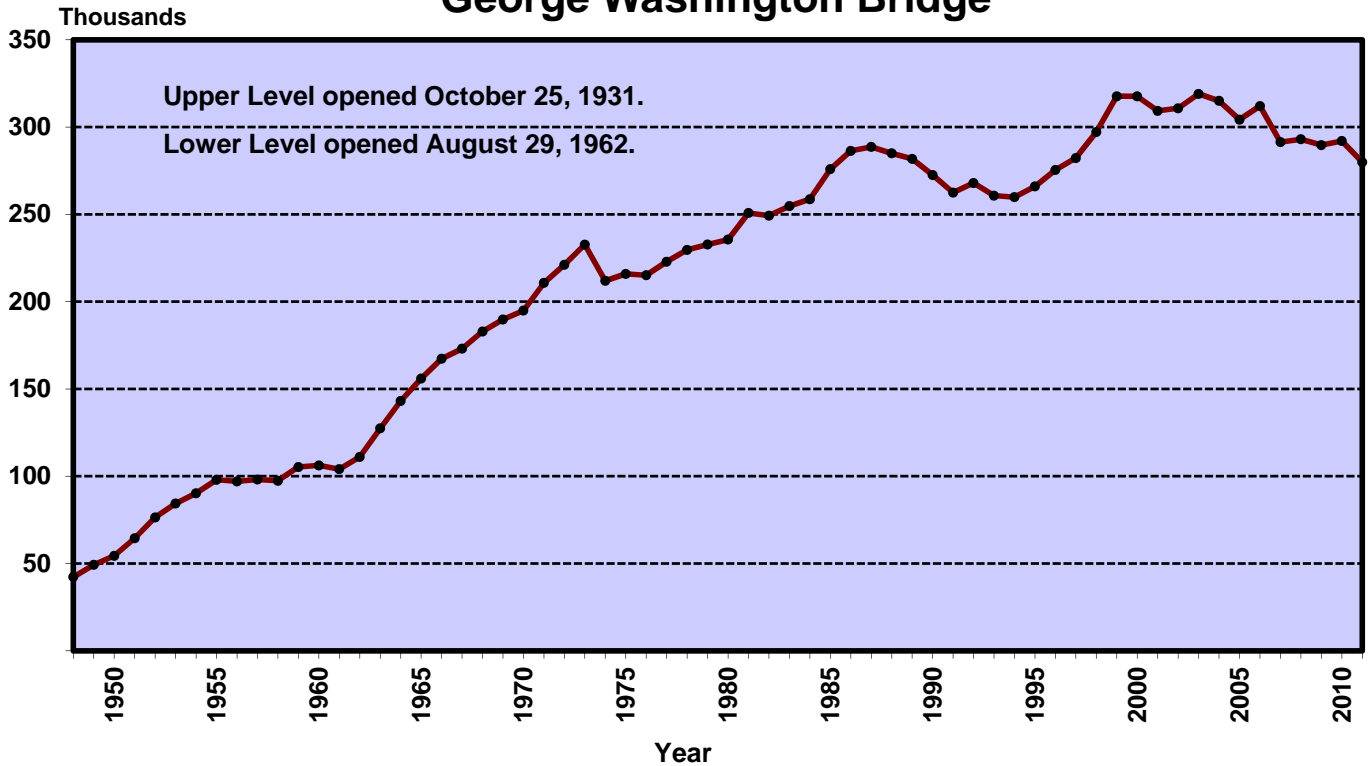
Classification based on October 2011 Data.

\*\* Peak Volumes

## Hourly Vehicular Volumes George Washington Bridge ~ 2011



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



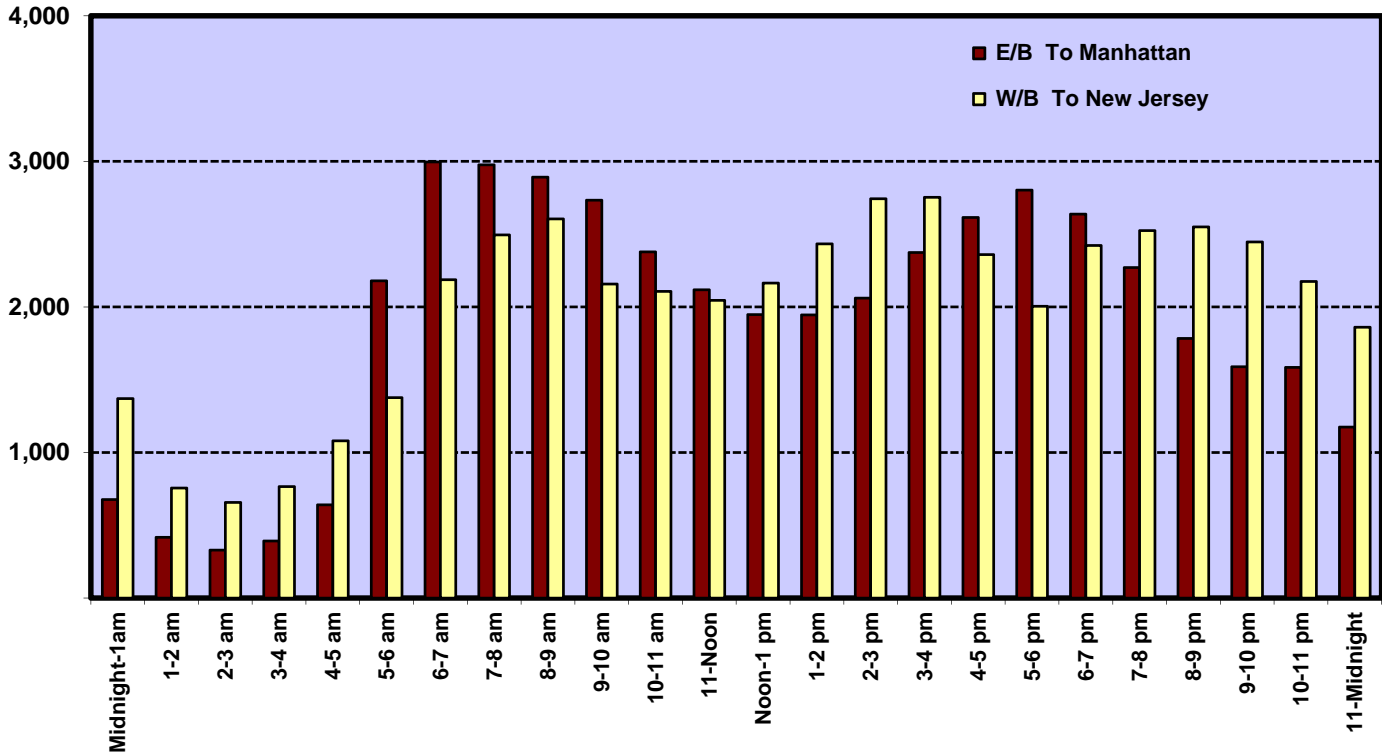
**Hourly Vehicular Volumes  
Holland Tunnel - 2011**

	Eastbound to Manhattan					Westbound to New Jersey					2-Way Grand Totals
	Autos	Buses	Small Trucks	Large Trucks	Total Vehicles	Autos	Buses	Small Trucks	Large Trucks	Total Vehicles	
12-1am	646	12	19	0	677	1,317	13	41	0	1,371	2,048
1-2am	380	9	29	0	418					756	1,174
2-3am	287	6	37	0	330					657	987
3-4am	317	4	70	1	392					766	1,158
4-5am	574	9	57	1	641					1,080	1,721
5-6am	2,068	22	89	1	2,180	1,294	4	78	1	1,377	3,557
6-7am	2,842	56	96	2	2,996	2,038	26	122	1	2,187	5,183
7-8am	2,822	61	92	1	2,976	2,345	43	106	1	2,495	5,471
8-9am	2,730	53	107	2	2,892	2,412	65	127	1	2,605	5,497
9-10am	2,595	49	88	1	2,733	1,930	57	169	1	2,157	4,890
10-11am	2,266	28	83	1	2,378	1,879	26	201	1	2,107	4,485
11-12am	2,024	22	71	1	2,118	1,853	11	181	0	2,045	4,163
12-1pm	1,864	24	59	1	1,948	1,984	12	167	1	2,164	4,112
1-2pm	1,865	25	55	0	1,945	2,240	14	171	8	2,433	4,378
2-3pm	1,974	29	57	1	2,061	2,573	16	152	2	2,743	4,804
3-4pm	2,262	58	53	1	2,374	2,577	30	146	0	2,753	5,127
4-5pm	2,465	106	43	1	2,615	2,197	43	120	0	2,360	4,975
5-6pm	2,690	83	29	1	2,803	1,884	49	72	0	2,005	4,808
6-7pm	2,551	62	25	0	2,638	2,303	45	74	0	2,422	5,060
7-8pm	2,217	31	23	0	2,271	2,434	22	68	1	2,525	4,796
8-9pm	1,740	18	25	1	1,784	2,450	38	62	0	2,550	4,334
9-10pm	1,544	15	30	0	1,589	2,365	26	56	0	2,447	4,036
10-11pm	1,540	21	23	1	1,585	2,104	25	46	0	2,175	3,760
11-12pm	1,142	15	18	0	1,175	1,792	21	48	0	1,861	3,036
Totals	43,405	818	1,278	18	45,519					48,041	93,560
7-10am	8,147	163	287	4	8,601	6,687	165	402	3	7,257	15,858
10am-1pm	6,154	74	213	3	6,444	5,716	49	549	2	6,316	12,760
1-4pm	6,101	112	165	2	6,380	7,390	60	469	10	7,929	14,309
4-7pm	7,706	251	97	2	8,056	6,384	137	266	0	6,787	14,843
7am-7pm	28,108	600	762	11	29,481	26,177	411	1,686	15	28,289	57,770
6-10am	10,989	219	383	6	11,597	8,725	191	524	4	9,444	21,041
3-7pm	9,968	309	150	3	10,430	8,961	167	412	0	9,540	19,970
6am-7pm	30,950	656	858	13	32,477	28,215	437	1,808	16	30,476	62,953

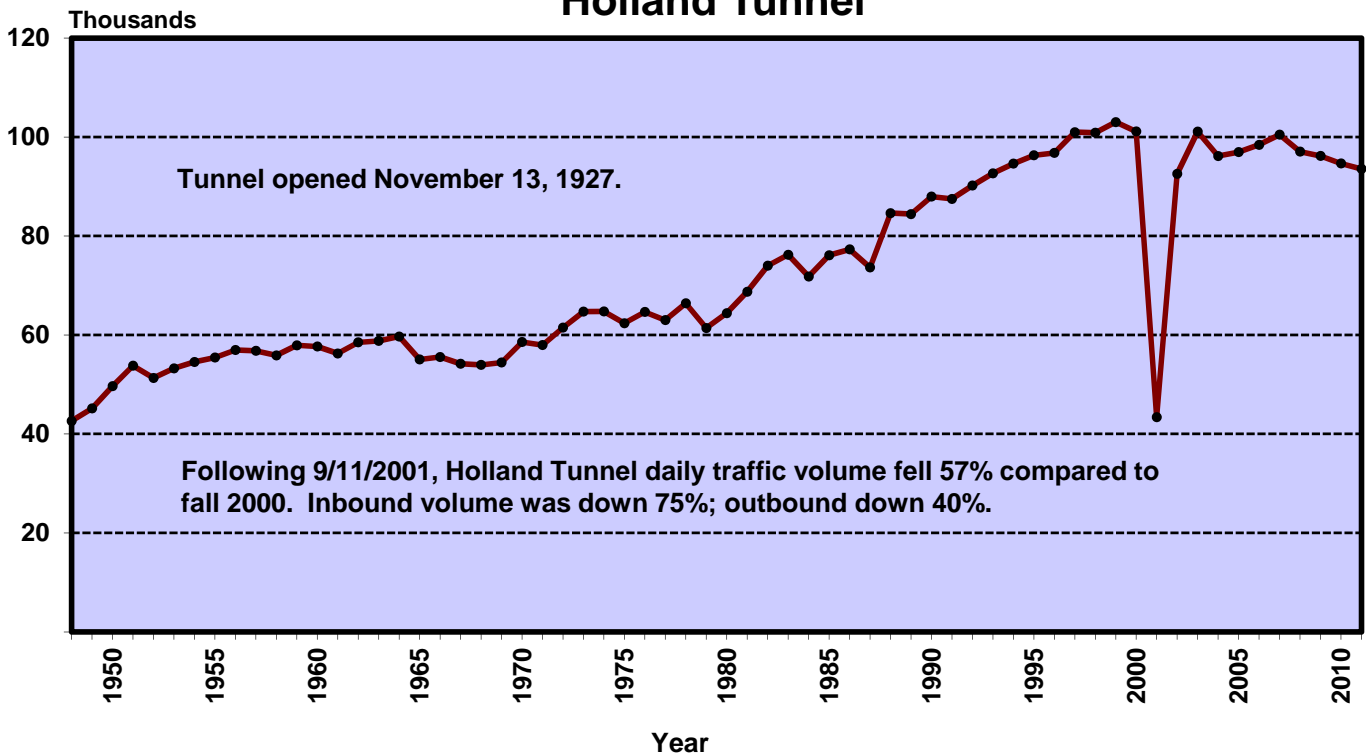
\*\* Peak Volumes

Classification based on October 2011 Data.

## Hourly Vehicular Volumes Holland Tunnel ~ 2011



## Average Daily Traffic Volumes ~ Total of Both Directions Holland Tunnel



## Hourly Vehicular Volumes Lincoln Tunnel - 2011

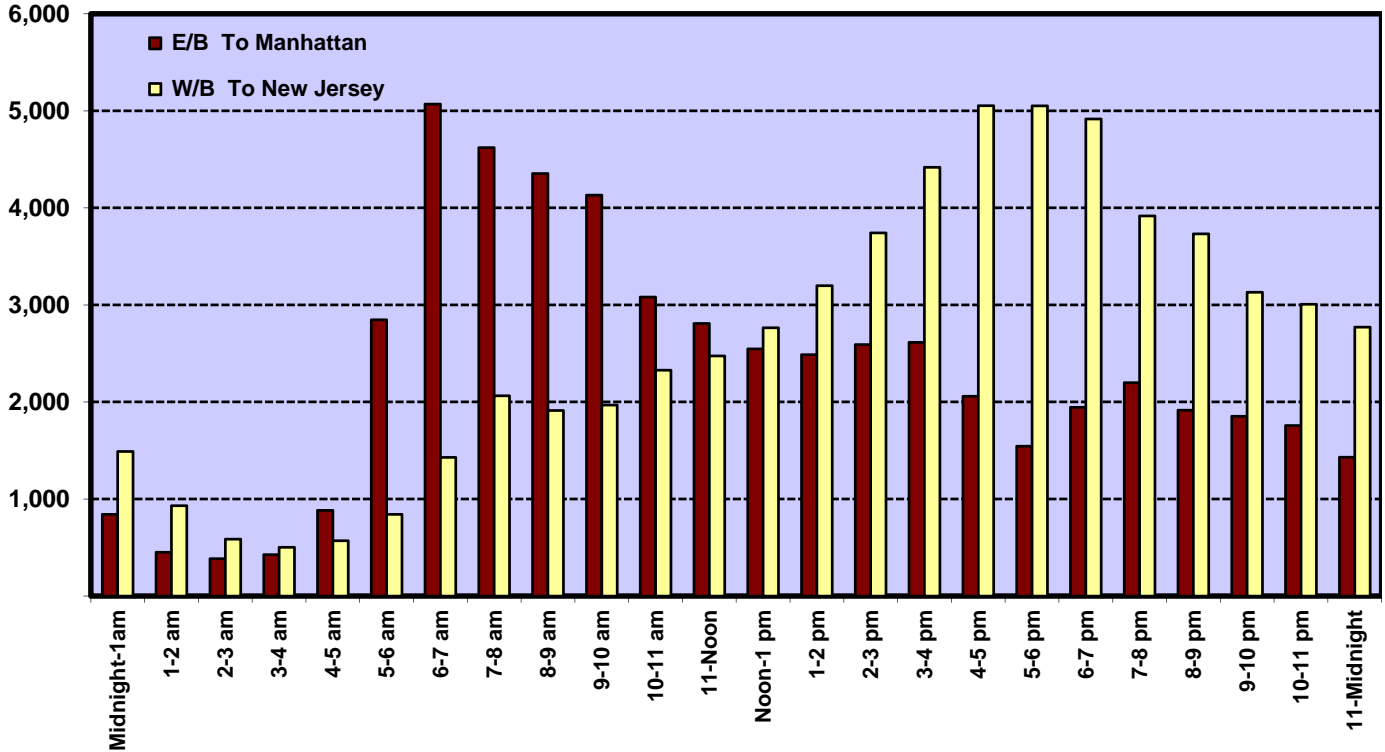
	Eastbound to Manhattan					Westbound to New Jersey					2-Way Grand Totals
	Autos	Buses	Small Trucks	Large Trucks	Total Vehicles	Autos	Buses	Small Trucks	Large Trucks	Total Vehicles	
12-1am	721	60	40	21	842	1,342	83	43	22	1,490	2,332
1-2am	368	29	37	17	451					932	1,383
2-3am	302	11	49	24	386					587	973
3-4am	313	13	70	31	427					503	930
4-5am	639	25	149	71	884					570	1,454
5-6am	2,277	162	320	89	2,848	617	25	113	87	842	3,690
6-7am	4,127	485	404	54	5,070	981	254	118	76	1,429	6,499
7-8am	3,464	818	307	32	4,621	1,342	516	137	69	2,064	6,685
8-9am	3,096	938	301	19	4,354	1,069	659	144	40	1,912	6,266
9-10am	3,289	555	269	18	4,131	1,091	668	160	50	1,969	6,100
10-11am	2,630	247	189	16	3,082	1,690	359	207	72	2,328	5,410
11-12am	2,428	209	159	13	2,809	1,926	206	266	76	2,474	5,283
12-1pm	2,190	195	150	12	2,547	2,228	205	274	58	2,765	5,312
1-2pm	2,135	219	123	11	2,488	2,668	182	293	55	3,198	5,686
2-3pm	2,175	293	115	9	2,614	3,198	216	281	47	3,742	6,410
3-4pm	2,118	392	97	7	2,614	3,794	289	289	46	4,418	7,032
4-5pm	1,456	532	67	4	2,059	4,366	390	262	35	5,053	7,112
5-6pm	1,129	374	38	3	1,544	4,153	654	221	24	5,052	6,596
6-7pm	1,484	408	46	7	1,945	4,036	701	162	17	4,916	6,861
7-8pm	1,802	326	59	12	2,199	3,282	498	121	16	3,917	6,116
8-9pm	1,613	220	64	19	1,916	3,270	364	86	13	3,733	5,649
9-10pm	1,576	176	76	25	1,853	2,787	244	72	28	3,131	4,984
10-11pm	1,512	145	73	27	1,757	2,687	204	85	31	3,007	4,764
11-12pm	1,240	108	64	19	1,431	2,487	160	74	50	2,771	4,202
Totals	44,084	6,940	3,266	560	52,258					62,803	115,061
7-10am	9,849	2,311	877	69	13,106	3,502	1,843	441	159	5,945	19,051
10am-1pm	7,248	651	498	41	8,438	5,844	770	747	206	7,567	16,005
1-4pm	6,428	904	335	27	5,102	9,660	687	863	148	11,358	16,460
4-7pm	4,069	1,314	151	14	5,548	12,555	1,745	645	76	15,021	20,569
7am-7pm	27,594	5,180	1,861	151	32,194	31,561	5,045	2,696	589	39,891	72,085
6-10am	13,976	2,796	1,281	123	18,176	4,483	2,097	559	235	7,374	25,550
3-7pm	6,187	1,706	248	21	8,162	16,349	2,034	934	122	19,439	27,601
6am-7pm	31,721	5,665	2,265	205	37,264	32,542	5,299	2,814	665	41,320	78,584

Classification based on October 2011 Data.

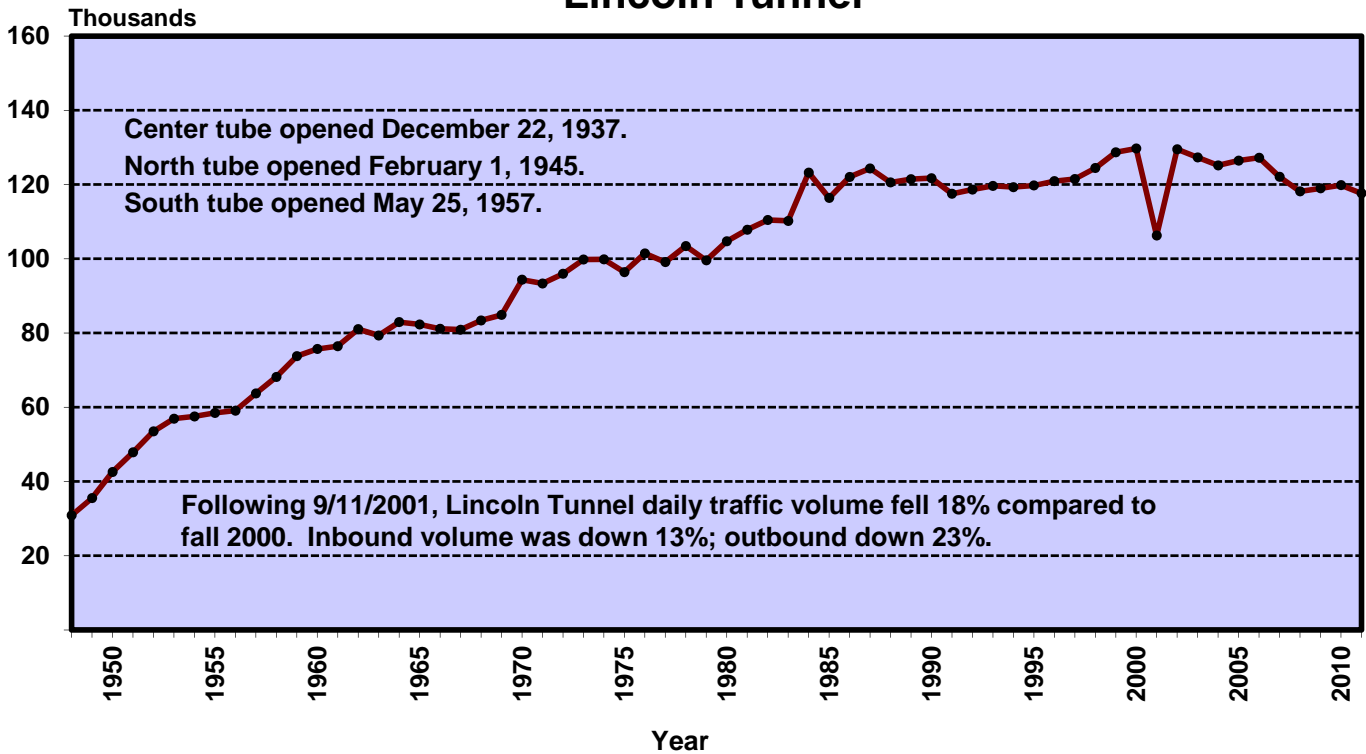
\*\* Peak Volumes



## Hourly Vehicular Volumes Lincoln Tunnel ~ 2011



## Average Daily Traffic Volumes ~ Total of Both Directions Lincoln Tunnel



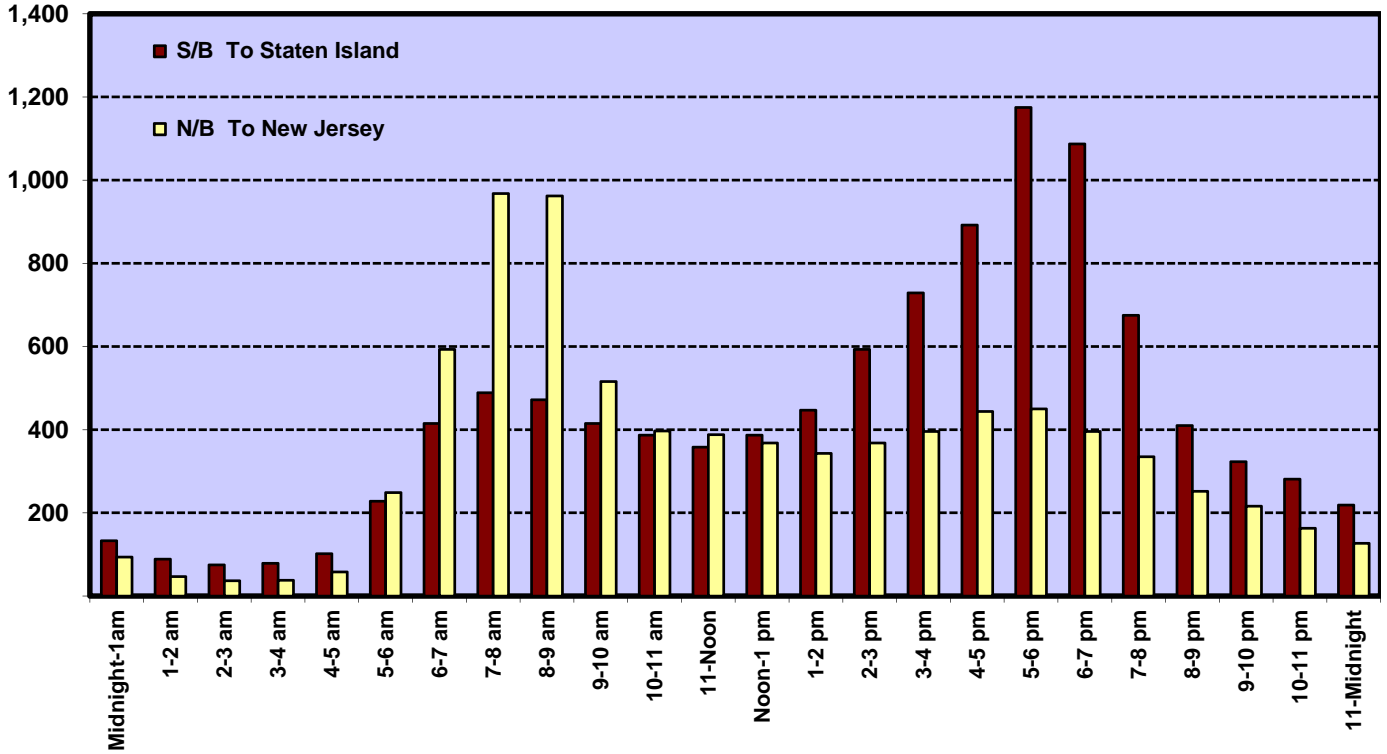
**Hourly Vehicular Volumes  
Bayonne Bridge - 2011**

	Southbound to Staten Island					Northbound to New Jersey					2-Way Grand Totals
	Autos	Buses	Small Trucks	Large Trucks	Total Vehicles	Autos	Buses	Small Trucks	Large Trucks	Total Vehicles	
12-1am	123	1	4	5	133	86	0	6	2	94	227
1-2am	75	0	9	5	89					47	136
2-3am	59	0	8	8	75					37	112
3-4am	56	0	14	9	79					38	117
4-5am	66	0	15	21	102					58	160
5-6am	162	1	23	42	228	226	2	11	10	249	477
6-7am	331	5	33	46	415	555	7	20	11	593	1,008
7-8am	392	10	38	49	489	913	6	31	18	968	1,457
8-9am	381	9	38	44	472	892	5	35	30	962	1,434
9-10am	317	10	41	47	415	438	3	44	31	516	931
10-11am	288	7	40	52	387	323	0	37	37	397	784
11-12am	281	2	34	41	358	301	1	48	38	388	746
12-1pm	310	2	32	43	387	288	2	40	38	368	755
1-2pm	368	1	36	42	447	284	1	34	24	343	790
2-3pm	521	4	34	34	593	299	1	31	37	368	961
3-4pm	673	2	29	25	729	335	3	27	31	396	1,125
4-5pm	844	8	22	18	892	387	5	33	19	444	1,336
5-6pm	1,127	7	27	14	1,175	417	2	20	11	450	1,625
6-7pm	1,044	10	17	16	1,087	375	3	8	10	396	1,483
7-8pm	648	5	12	10	675	315	2	13	5	335	1,010
8-9pm	391	1	11	7	410	235	1	13	3	252	662
9-10pm	308	1	7	7	323	204	2	6	4	216	539
10-11pm	272	1	3	5	281	159	0	1	3	163	444
11-12pm	210	1	3	5	219	117	0	6	4	127	346
Totals	9,247	88	530	595	10,460					8,205	18,665
7-10am	1,090	29	117	140	1,376	2,243	14	110	79	2,446	3,822
10am-1pm	879	11	106	136	1,132	912	3	125	113	1,153	2,285
1-4pm	1,562	7	99	101	1,769	918	5	92	92	1,107	2,876
4-7pm	3,015	25	66	48	3,154	1,179	10	61	40	1,290	4,444
7am-7pm	6,546	72	388	425	7,431	5,252	32	388	324	5,996	13,427
6-10am	1,421	34	150	186	1,791	2,798	21	130	90	3,039	4,830
3-7pm	3,688	27	95	73	3,883	1,514	13	88	71	1,686	5,569
6am-7pm	6,877	77	421	471	7,846	5,807	39	408	335	6,589	14,435

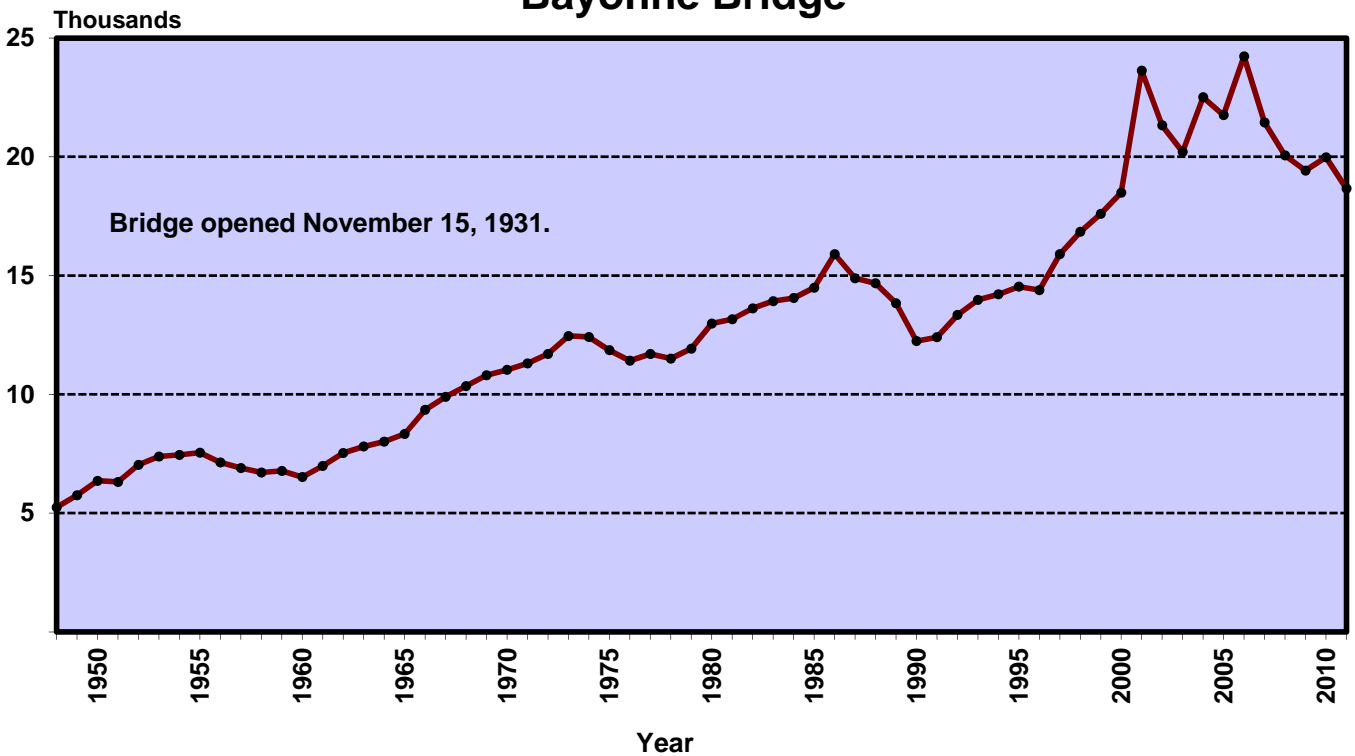
Classification based on October 2011 Data.

\*\* Peak Volumes

## Hourly Vehicular Volumes Bayonne Bridge ~ 2011



## Average Daily Traffic Volumes ~ Total of Both Directions Bayonne Bridge



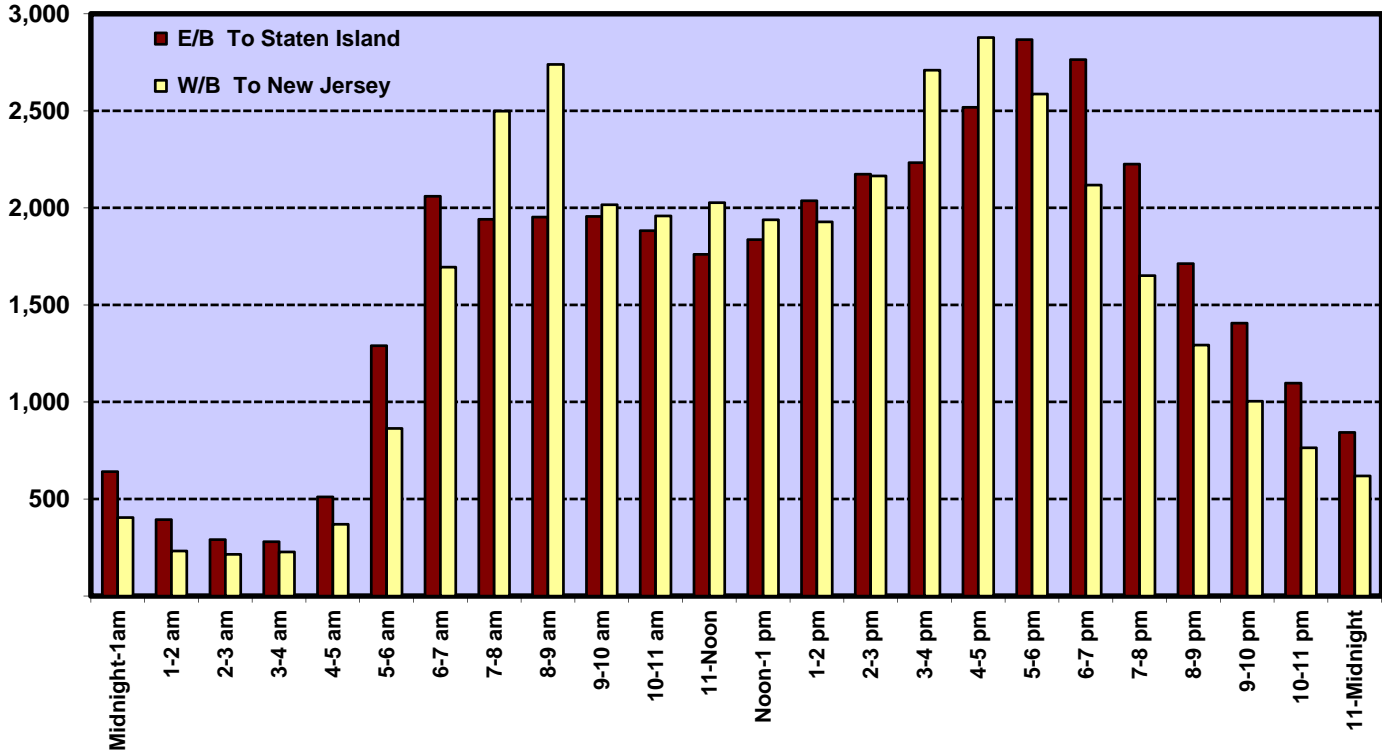
### Hourly Vehicular Volumes Goethals Bridge - 2011

	Eastbound to Staten Island					Westbound to New Jersey					2-Way Grand Totals
	Autos	Buses	Small Trucks	Large Trucks	Total Vehicles	Autos	Buses	Small Trucks	Large Trucks	Total Vehicles	
12-1am	580	5	9	47	641	364	0	14	27	405	1,046
1-2am	326	3	10	55	394					232	626
2-3am	214	3	14	60	291					215	506
3-4am	176	2	20	82	280					227	507
4-5am	325	5	52	129	511					370	881
5-6am	953	8	112	217	1,290	749	13	52	50	864	2,154
6-7am	1,644	10	162	244	2,060	1,509	26	87	73	1,695	3,755
7-8am	1,549	18	148	226	1,941	2,165	51	129	154	2,499	4,440
8-9am	1,586	19	145	203	1,953	2,368	40	148	183	2,739	4,692
9-10am	1,531	36	157	232	1,956	1,677	15	144	180	2,016	3,972
10-11am	1,472	32	148	231	1,883	1,607	4	156	192	1,959	3,842
11-12am	1,400	15	135	211	1,761	1,629	5	171	222	2,027	3,788
12-1pm	1,498	8	125	206	1,837	1,539	9	175	216	1,939	3,776
1-2pm	1,702	9	126	200	2,037	1,538	10	163	217	1,928	3,965
2-3pm	1,861	12	122	179	2,174	1,758	13	188	206	2,165	4,339
3-4pm	1,996	19	111	107	2,233	2,295	10	192	213	2,710	4,943
4-5pm	2,342	24	82	70	2,518	2,570	6	152	150	2,878	5,396
5-6pm	2,694	35	66	72	2,867	2,403	5	90	89	2,587	5,454
6-7pm	2,604	48	53	59	2,764	1,974	7	67	70	2,118	4,882
7-8pm	2,110	31	40	45	2,226	1,562	8	39	42	1,651	3,877
8-9pm	1,627	14	27	45	1,713	1,217	6	32	38	1,293	3,006
9-10pm	1,335	6	20	45	1,406	961	4	18	21	1,004	2,410
10-11pm	1,030	4	18	45	1,097	713	1	22	28	764	1,861
Totals	33,345	368	1,914	3,049	38,676					36,904	75,580
7-10am	4,666	73	450	661	5,850	6,210	106	421	517	7,254	13,104
10am-1pm	4,370	55	408	648	5,481	4,775	18	502	630	5,925	11,406
1-4pm	5,559	40	359	486	6,444	5,591	33	543	636	6,803	13,247
4-7pm	7,640	107	201	201	8,149	6,947	18	309	309	7,583	15,732
7am-7pm	22,235	275	1,418	1,996	25,924	23,523	175	1,775	2,092	27,565	53,489
6-10am	6,310	83	612	905	7,910	7,719	132	508	590	8,949	16,859
3-7pm	9,636	126	312	308	10,382	9,242	28	501	522	10,293	20,675
6am-7pm	23,879	285	1,580	2,240	27,984	25,032	201	1,862	2,165	29,260	57,244

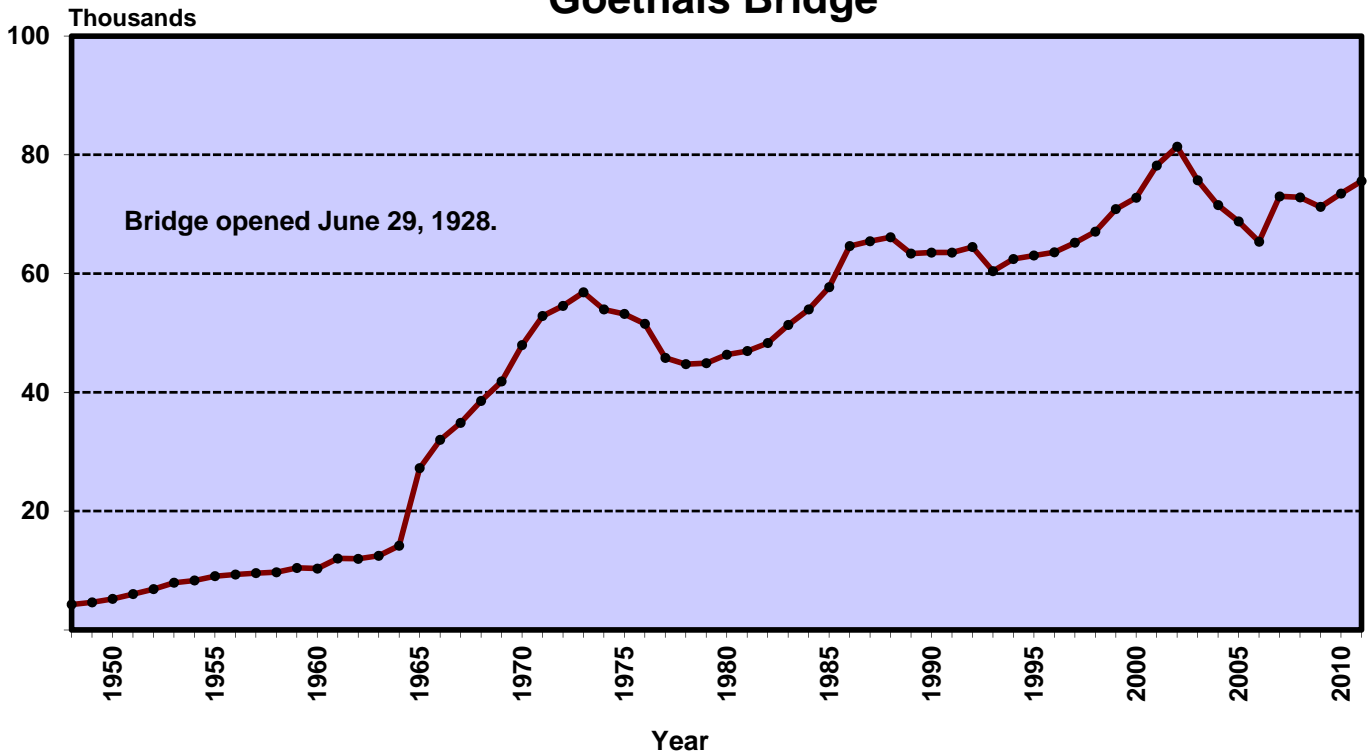
Classification based on October 2011 Data.

\*\* Peak Volumes

## Hourly Vehicular Volumes Goethals Bridge ~ 2011



## Average Daily Traffic Volumes ~ Total of Both Directions Goethals Bridge



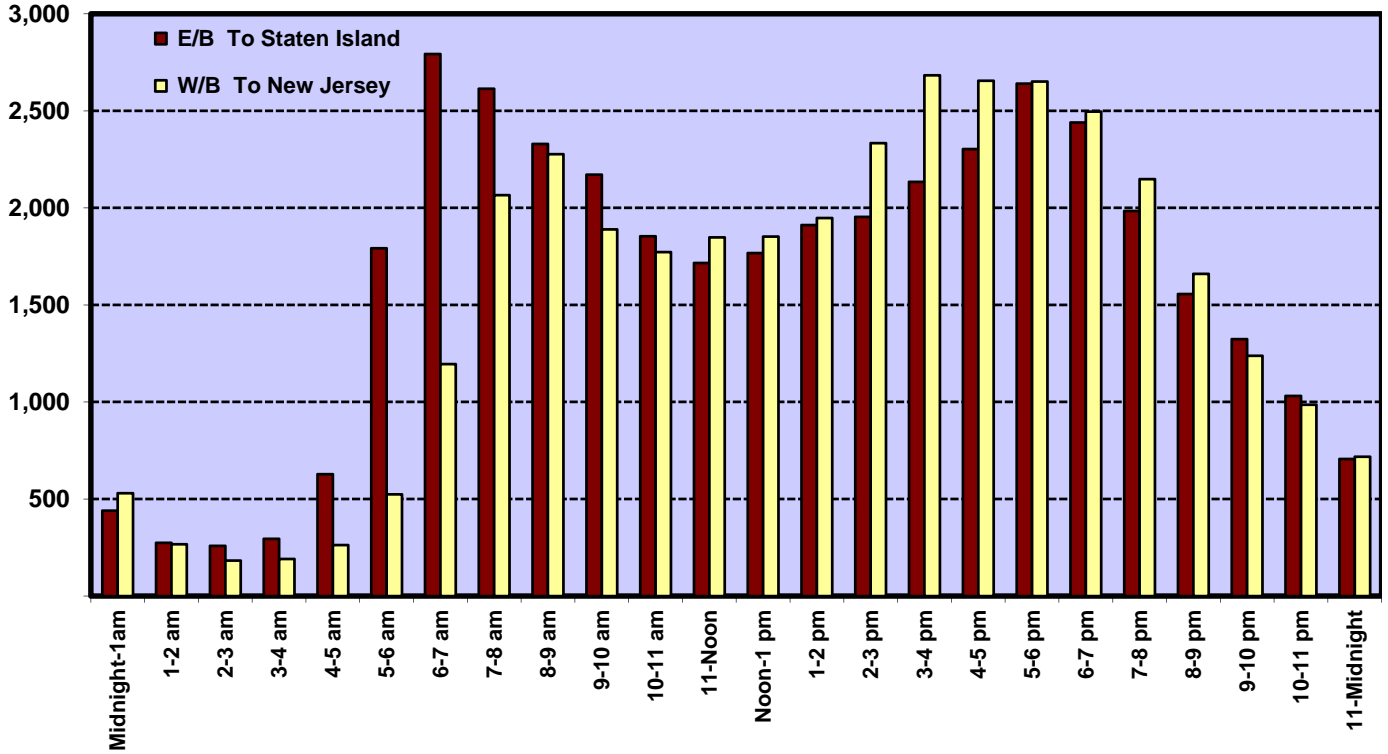
**Hourly Vehicular Volumes  
Outerbridge Crossing - 2011**

	<i>Eastbound to Staten Island</i>					<i>Westbound to New Jersey</i>					<b>2-Way Grand Totals</b>
	Autos	Buses	Small Trucks	Large Trucks	Total Vehicles	Autos	Buses	Small Trucks	Large Trucks	Total Vehicles	
12-1am	375	2	7	56	440	487	2	13	28	530	970
1-2am	207	2	9	56	274					267	541
2-3am	165	1	17	76	259					183	442
3-4am	187	1	20	87	295					191	486
4-5am	438	2	49	139	628					263	891
5-6am	1,559	6	85	142	1,792	453	2	36	33	524	2,316
6-7am	2,584	5	99	105	2,793	1,103	1	48	43	1,195	3,988
7-8am	2,418	2	101	93	2,614	1,928	2	77	59	2,066	4,680
8-9am	2,142	5	100	83	2,330	2,116	6	95	60	2,277	4,607
9-10am	1,958	3	100	110	2,171	1,709	20	101	59	1,889	4,060
10-11am	1,641	4	92	117	1,854	1,566	12	115	79	1,772	3,626
11-12am	1,521	5	86	104	1,716	1,638	6	114	90	1,848	3,564
12-1pm	1,586	5	83	93	1,767	1,646	4	122	80	1,852	3,619
1-2pm	1,737	5	81	89	1,912	1,750	4	118	76	1,948	3,860
2-3pm	1,788	3	84	79	1,954	2,165	3	99	67	2,334	4,288
3-4pm	1,995	6	77	56	2,134	2,554	3	81	45	2,683	4,817
4-5pm	2,212	7	55	29	2,303	2,554	2	53	46	2,655	4,958
5-6pm	2,557	11	45	27	2,640	2,584	5	38	24	2,651	5,291
6-7pm	2,367	9	34	30	2,440	2,429	6	41	20	2,496	4,936
7-8pm	1,907	13	28	36	1,984	2,103	6	26	13	2,148	4,132
8-9pm	1,482	12	23	39	1,556	1,619	6	16	19	1,660	3,216
9-10pm	1,266	3	16	39	1,324	1,205	5	10	18	1,238	2,562
10-11pm	965	2	16	48	1,031	945	3	14	24	986	2,017
<b>Totals</b>	<b>35,699</b>	<b>116</b>	<b>1,317</b>	<b>1,785</b>	<b>38,917</b>					<b>36,374</b>	<b>75,291</b>
7-10am	6,518	10	301	286	7,115	5,753	28	273	178	6,232	13,347
10am-1pm	4,748	14	261	314	5,337	4,850	22	351	249	5,472	10,809
1-4pm	5,520	14	242	224	6,000	6,469	10	298	188	6,965	12,965
4-7pm	7,136	27	134	86	7,383	7,567	13	132	90	7,802	15,185
7am-7pm	23,922	65	938	910	25,835	24,639	73	1,054	705	26,471	52,306
6-10am	9,102	15	400	391	9,908	6,856	29	321	221	7,427	17,335
3-7pm	9,131	33	211	142	9,517	10,121	16	213	135	10,485	20,002
6am-7pm	26,506	70	1,037	1,015	28,628	25,742	74	1,102	748	27,666	56,294

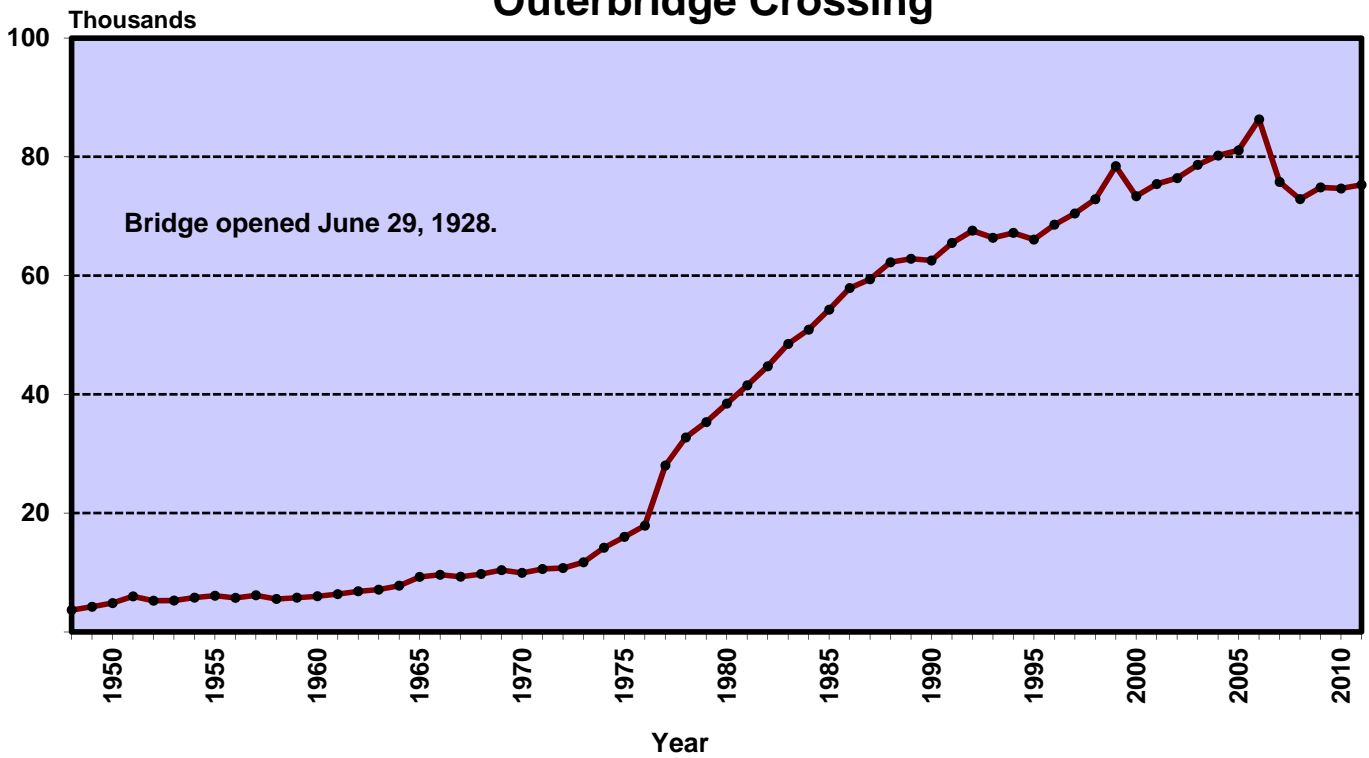
Classification based on October 2011 Data.

\*\* Peak Volumes

## Hourly Vehicular Volumes Outerbridge Crossing ~ 2011



## Average Daily Traffic Volumes ~ Total of Both Directions Outerbridge Crossing







# **APPENDIX**

## **2011 Bridge and Tunnel Reconstruction**



# APPENDIX

## Major Bridge Reconstruction In 2011

### ***Brooklyn Bridge (East River between Brooklyn & Manhattan)***

As of Monday night, April 4, 2011, the Brooklyn Bridge was closed to Manhattan-bound traffic during the following times.

04/04 – 12/23: 11:00pm–6:00am Sun–Fri,  
12:01am–7:00am Sat,  
12:01am–9:00am Sun.

Bicycle and pedestrian access was maintained during these times.

The northbound FDR Drive exit to the bridge was closed during these times.

The Brooklyn –Queens Expressway eastbound exit to the bridge was closed during these times.

The Manhattan Bridge Lower Roadway was operated Manhattan-bound weekdays from 9:00pm to 3:00pm.

There were no closures the weekend of July 4.

There were no closures the weekend of October 28-31.

There were no closures the weekend of November 11-14.

There were no closures November 23-28.

There were no closures December 23, 2011 to January 2, 2012.

The northbound FDR Drive Ramp C to the Brooklyn Bridge eastbound and Civic Center was closed as follows:

07/22 – 08/22: 11:00pm Friday – 6:00am Monday.

09/23 – 09/26: 11:00pm Friday – 6:00am Monday.

09/30– 10/09: 11:00pm Friday – 6:00am Sunday.

10/14 – 10/17: 11:00pm Friday – 6:00am Monday.

10/21– 10/23: 11:00pm Friday – 6:00am Sunday.

11/04 – 11/07: 11:00pm Friday – 6:00am Monday.

11/18 – 12/19: 11:00pm Friday – 6:00am Monday.

The southbound FDR Drive Exit Ramp A to the Brooklyn Bridge westbound Pearl Street exit were closed as follows:

10/28 – 10/31: 11:00pm Friday – 6:00am Monday.

11/11 – 11/14: 11:00pm Friday – 6:00am Monday.

## ***Ed Koch Queensboro Bridge (East River between Queens & Manhattan)***

This bridge was officially renamed on April 11, 2011, when Mayor Michael R. Bloomberg signed the legislation which had been passed by the City Council on March 23, 2011.

Throughout 2011, trucks were permitted only on the two Lower Inner Roadways.

Throughout 2011, a High Occupancy Vehicle (HOV) facility was in effect on the Ed Koch 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 2011, the North Outer Roadway was reserved for bicyclists and pedestrians.

### **Ed Koch Queensboro Bridge Operation: All 2011 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).

### **South Outer Roadway closed as follows in 2011.**

04/30 – 05/05:	12:30am – 7:30am	Sat.
	12:30am – 5:30am	Mon-Thu.
06/08:	1:00am – 5:30am	Wed.
06/11 – 06/16:	1:00am – 8:00am	Sat.
	12:30am – 5:30am	Mon-Thu.
06/22:	1:00am – 5:30am	Wed.

### **South Outer Roadway closed intermittently as follows in 2011.**

01/05 – 01/19:	1:00am – 5:30am	Wed.	Roadway closed as needed.
05/16 – 06/06:	1:00am – 5:30am		One weeknight per week, closed as needed.
05/18 – 05/25:	1:00am – 5:30am	Wed.	Roadway closed as needed.
09/10 – 10/28:	12:30am – 5:30am	Weekdays.	Roadway closed as needed.
	1:00am – 8:00am	Sat-Sun.	Roadway closed as needed.

### **Entrance ramp from 21st Street at Queens Plaza North closed as follows in 2011.**

11:00pm Monday, Dec. 12 – 5:00am Tuesday, Dec. 13.

Throughout 2011, there were additional intermittent closings of single lanes on individual roadways of the Ed Koch Queensboro Bridge during off-peak hours.

## ***Manhattan Bridge (East River between Brooklyn & Manhattan)***

The Manhattan Bridge was open to pedestrians and bicyclists during all hours throughout 2011. From January 1 to July 17, the north path was for cyclists and the south path was for pedestrians. As of July 18, pedestrians and bicyclists traded paths so that the north path was for pedestrians and the south path was for cyclists.

### **Manhattan Bridge Operation: January 1 - April 3, 2011**

- **6:00am – 10:00am weekdays.**

*One of three lanes closed on the Lower Roadway.*

- Manhattan-bound: 4 lanes. 2 lanes on the North Upper Roadway (no trucks, left lane reserved for buses and HOV 2+), plus 2 lanes on the Lower Roadway for all vehicle types.
- Brooklyn-bound: 2 lanes on the South Upper Roadway.

- **10:00am – 2:00pm weekdays.**

*Two of three lanes closed on the Lower Roadway.*

- Manhattan-bound: 3 lanes. 2 lanes on the North Upper Roadway (no trucks), plus 1 lane on the Lower Roadway for all vehicle types.
- Brooklyn-bound: 2 lanes on the South Upper Roadway.

- **2:00pm – 3:00pm weekdays.**

*Lower Roadway closed for reversal.*

- Manhattan-bound: Two lanes on the North Upper Roadway.
- Brooklyn-bound: Two lanes on the South Upper Roadway.

- **3:00pm – 5:00am weekdays.**

*One of three lanes closed on the Lower Roadway.*

- Manhattan-bound: Two lanes on the North Upper Roadway.
- Brooklyn-bound: Four lanes. Two lanes on the South Upper Roadway, and two lanes on the Lower Roadway.

- **5:00am – 6:00am weekdays.**

*Lower Roadway closed for reversal.*

- Manhattan-bound: 2 lanes on the North Upper Roadway.
- Brooklyn-bound: 2 lanes on the South Upper Roadway.

- **9:00pm Friday – 10:00am Monday.**

*One of three lanes closed on the Lower Roadway.*

- Manhattan-bound: 2 lanes. 2 lanes on the North Upper Roadway, and 2 lanes on the Lower Roadway.
- Brooklyn-bound: 2 lanes on the South Upper Roadway.

- **North Upper Roadway closed as follows.**

01/08-01/15: 12:01am – 6:00am Saturdays.

## **Manhattan Bridge Operation: April 4 - December 31, 2011**

**Note:** *During these dates, the nearby Brooklyn Bridge was closed to Manhattan-bound traffic during overnight hours.*

- **6:00am – 10:00am weekdays.**

*One of three lanes closed on the Lower Roadway.*

- Manhattan-bound: 4 lanes. 2 lanes on the North Upper Roadway (no trucks, left lane reserved for buses and HOV 2+), plus 2 lanes on the Lower Roadway for all vehicle types.
- Brooklyn-bound: 2 lanes on the South Upper Roadway.

- **10:00am – 2:00pm weekdays.**

*Two of three lanes closed on the Lower Roadway.*

- Manhattan-bound: 3 lanes. 2 lanes on the North Upper Roadway (no trucks), plus 1 lane on the Lower Roadway for all vehicle types.
- Brooklyn-bound: 2 lanes on the South Upper Roadway.

- **2:00pm – 3:00pm weekdays.**

*Lower Roadway closed for reversal.*

- Manhattan-bound: 2 lanes on the North Upper Roadway.
- Brooklyn-bound: 2 lanes on the South Upper Roadway.

- **3:00pm – 9:00pm weekdays.**

*One of three lanes closed on the Lower Roadway.*

- Manhattan-bound: 2 lanes on the North Upper Roadway.
- Brooklyn-bound: 4 lanes. 2 lanes on the South Upper Roadway, and 2 lanes on the Lower Roadway.

- **9:00pm – 9:30pm weekdays.**

*Lower Roadway closed for reversal.*

- Manhattan-bound: Two lanes on the North Upper Roadway.
- Brooklyn-bound: Two lanes on the South Upper Roadway.

- **9:30pm – 6:00am weekdays.**

*One of three lanes closed on the Lower Roadway.*

- Manhattan-bound: Four lanes. Two lanes on the North Upper Roadway, and two lanes on the Lower Roadway.
- Brooklyn-bound: Two lanes on the South Upper Roadway.

- **9:30pm Friday – 10:00am Monday.**

*One of three lanes closed on the Lower Roadway.*

- Manhattan-bound: 4 lanes. 2 lanes on the North Upper Roadway, and 2 lanes on the Lower Roadway.
- Brooklyn-bound: 2 lanes on the South Upper Roadway.

- **North Upper Roadway closed as follows.**

07/24-07/25: 11:00pm Sunday – 5:00am Monday.

### **Manhattan Bridge Lower Roadway**

- Available to all vehicle types at all times.
- Manhattan-bound trucks required to use the Lower Roadway weekdays 6:00am – 2:00pm.
- Access to westbound Canal Street in Manhattan.
- Off-peak lane closures as needed on the Lower Roadway.

### **Manhattan Bridge North Upper Roadway**

- Manhattan-bound all hours.
- No trucks weekdays 6:00am – 2:00pm.
- Left lane reserved for buses and HOVs weekdays 6:00am – 10:00am. Access to the HOV lane 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.
- The North Upper Roadway was closed as follows during 2011.
  - 01/08-01/15: 12:01am – 6:00am Saturdays.
  - 07/24-07/25: 11:00pm Sunday – 5:00am Monday.
- Off-peak lane closures as needed on the Manhattan-bound North Upper Roadway.

### **Manhattan Bridge South Upper Roadway**

- Brooklyn-bound all hours for all vehicle types.
- Off-peak lane closures as needed on the Brooklyn-bound South Upper Roadway.

## ***Williamsburg Bridge (East River between Brooklyn & Manhattan)***

Throughout 2011 trucks were permitted only on the outer roadways.

Pedestrian and bicycle access was maintained on the bridge at all times throughout 2011.

As of May 13, the bicycle-pedestrian path at Delancey Street and Clinton Street was narrowed. Bicyclists and pedestrians shared the area during sidewalk work by NYCDOT Bridges.

From June 13 to July 31: Brooklyn south path access at Bedford Avenue near South 6<sup>th</sup> Street. Construction work required complete closure of the south path access from June 13 to July 31, 2011. During this period, the bike path at South 5<sup>th</sup> Place near South 5<sup>th</sup> Street was used as a shared bike and pedestrian path, and access was maintained at all times. To access this entrance, it was recommended to proceed north on Bedford Avenue to South 5<sup>th</sup>

Street, turn right on South 5<sup>th</sup> Street and proceed two blocks to path entrance at South 5<sup>th</sup> Place and South 5<sup>th</sup> Street.

As of July 14, construction work required partial closure of the north path access. The path was never fully closed during this phase of the project.

**Williamsburg Bridge Operation: All 2011, Except as noted below.**

• **6:00am – 10:00am weekdays.**

*Two lanes closed in the off-peak direction.*

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

• **10:00am – 3:00pm weekdays.**

*Three lanes closed.*

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

• **All other times.**

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

**The North Outer Roadway was closed as follows.**

03/26-04/10: 5:00am – 6:00pm Sat. (Rain date Sun.)

*South Inner Roadway reversed to Manhattan-bound.*

*Manhattan-bound trucks banned from the bridge.*

Manhattan-bound: 4 lanes (No Trucks).

Brooklyn-bound: 2 lanes.

08/06-08/13: 12:01am – 2:00pm Sat. (Rain date Sun.),  
10:00am – 5:00am Weeknights ~ Closed as necessary

*South Inner Roadway reversed to Manhattan-bound 5:00am – 2:00pm Sat.*

*Manhattan-bound trucks banned from the bridge.*

Manhattan-bound: 4 lanes (No Trucks).

Brooklyn-bound: 2 lanes.

**The North Inner Roadway was closed as follows.**

07/09-07/24: 10:00pm – 5:00am Weeknights,  
12:01am – 2:00pm Sat-Sun.

*South Inner Roadway reversed to Manhattan-bound Sat. & Sun.  
5:00am - 2:00pm.*

Manhattan-bound: 4 lanes.

Brooklyn-bound: 2 lanes.



07/30: 12:01am – 2:00pm Sat.  
*South Inner Roadway reversed to Manhattan-bound Sat  
5:00am - 2:00pm.*  
Manhattan-bound: 4 lanes.  
Brooklyn-bound: 2 lanes.

**The South Outer Roadway was closed as follows.**

04/16-04/17: 5:00am – 6:00pm Sat. (Rain date Sun.)  
*Brooklyn-bound trucks banned from the bridge.*  
Manhattan-bound: 4 lanes.  
Brooklyn-bound: 2 lanes (No Trucks).

04/30-05/01: 5:00am – 6:00pm Sat. (Rain date Sun.)  
*Brooklyn-bound trucks banned from the bridge.*  
Manhattan-bound: 4 lanes.  
Brooklyn-bound: 2 lanes (No Trucks).

05/14-05/15: 5:00am – 6:00pm Sat. (Rain date Sun.)  
*Brooklyn-bound trucks banned from the bridge.*  
Manhattan-bound: 4 lanes.  
Brooklyn-bound: 2 lanes (No Trucks).

**Two of four Brooklyn-bound lanes were closed as follows.**

10/08-12/09: 4:00am – Noon Sat-Sun.

***Third Avenue Bridge (Harlem River from Bronx to Manhattan)***

The ramp from the bridge to the southbound FDR Drive was closed as follows.

04/09-04/13: 12:30am - 5:00am Sat., Tue., Wed.  
04/19-04/20: 12:01am - 5:00am Tue-Wed.

*Motorists were advised to use the Lexington Avenue exit southbound to 125<sup>th</sup> Street and turn left proceeding eastbound to enter the Drive under the R.F.K. Bridge during these closures.*

The entire bridge was closed as follows.

05/17-05/19: 12:01am - 5:00am Tue-Thu. Closed one night only.

*Motorists were advised to use the Macombs Dam Bridge, the 145th Street Bridge, or the Madison Avenue Bridge during these hours.*

The Major Deegan Expressway northbound Exit 2 to the Third Avenue Bridge was closed as follows.

11/08–11/12: 12:01am – 5:00am Thu.-Sat.

The Major Deegan Expressway southbound Exit 2 to the Third Avenue Bridge was closed as follows.

11/07–11/28: Round-the-clock All Days.

### **Washington Bridge (Harlem River between Bronx & Manhattan)**

The ramp from the eastbound Trans-Manhattan Expressway (I-95) to the Washington Bridge was closed as follows.

01/01-11/25: Round-the-clock All days Ramp closed since Aug. 19, 2009.

The ramp from the westbound Washington Bridge onto the George Washington Bridge was closed as follows.

06/04-10/28: 12:01am – 6:00am Weeknights.

Eastbound Lane closures were in effect as follows.

01/01-10/28: 12:01am - 6:00am Weeknights 1 of 3 E/B lanes closed.  
*No closures until 2 hours after Yankee Home games.*

Westbound Lane closures were in effect as follows.

01/01-06/17: 12:01am - 6:00am Weeknights 1 of 3 W/B lanes closed.  
*No closures until 2 hours after Yankee Home games.*

06/18-07/01: 12:01am - 6:00am Weeknights 1 of 3 W/B lanes closed.  
9:00am – 3:00pm Weekdays 1 of 3 W/B lanes closed as needed.  
10:00pm – 5:00am nightly 2 of 3 W/B lanes closed as needed.  
*No closures until 2 hours after Yankee Home games.*

07/02-10/28 : 12:01am - 6:00am Weeknights 1 of 3 W/B lanes closed.  
9:00am – 3:00pm Weekdays 1 of 3 W/B lanes closed as needed.  
9:30am – 2:00pm Weekdays 2 of 3 W/B lanes closed as needed.  
10:00pm – 5:00am nightly 2 of 3 W/B lanes closed as needed.  
*No closures until 2 hours after Yankee Home games.*

### **Willis Avenue Bridge (Harlem River from Manhattan to Bronx)**

Throughout 2011, the pedestrian access at First Avenue and East 125<sup>th</sup> Street was closed, and a temporary access stairway was available at First Avenue and East 127<sup>th</sup> 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. This closure was in effect since December 11, 2008.

The entire bridge was closed as needed for testing operations as follows:

01/18:	1:00am - 5:30am	Tuesday.
02/08:	1:00am - 5:30am	Tuesday.
02/12:	2:00am - 6:00am	Saturday.
03/26-04/23:	1:00am - 5:30am 2:00am - 6:00am	Tue-Fri. Saturday.
05/03-05/05:	1:00am - 5:30am	Tue-Thu.
05/24-05/27:	1:00am - 5:30am	Tue-Fri.

06/07-06/11:	1:00am - 5:30am 2:00am - 6:00am	Tue-Fri. Saturday.
10/04-10/15:	1:00am - 5:30am 2:00am - 6:00am	Tue-Fri. Saturday.
11/01-11/04:	1:00am - 5:30am 2:00am - 6:00am	Tue-Fri. Saturday.
11/15-11/19:	1:00am - 5:30am 2:00am - 6:00am	Tue-Fri. Saturday.
12/13-12/23:	1:00am - 5:30am 2:00am - 6:00am	Tue-Fri. Saturday.

*Motorists were advised to use the Madison Avenue Bridge during these closures. Pedestrians and bicyclists advised to use the Third Avenue Bridge during these closures.*

*No closures when the 145<sup>th</sup> Street Bridge was closed.*

*No closures until 2 hours after Yankee Home games.*

*No closures April 19-22 during Harlem River Drive resurfacing.*

Throughout 2011, there were additional lane closures on the Willis Avenue Bridge as needed during off-peak hours.

### **145<sup>th</sup> Street Bridge (Harlem River between Bronx & Manhattan)**

The entire bridge was fully closed as needed in 2011 according to the following schedule for testing operations to complete the NYC DOT bridge reconstruction project:

02/21–02/26:	10:00pm – 6:00am	Mon-Sat.
02/28–03/12:	10:00pm – 6:00am 12:01am – 7:00am	Weeknights; Sat.
03/14–04/16:	10:00pm – 6:00am 12:01am – 7:00am	Weeknights; Sat.
04/30:	12:01am – 7:00am	Sat.
06/28–06/29:	12:01am – 6:00am	Tue-Wed.
07/05–07/15:	12:01am – 6:00am	Tue-Sat.
07/22–07/23:	12:01am – 6:00am	Fri-Sat.
08/08–08/13:	10:00pm – 6:00am 12:01am – 7:00am	Weeknights; Sat.
11/05–11/28:	10:00pm – 6:00am 12:01am – 7:00am	Weeknights; Sat.
12/20–12/23:	10:00pm – 6:00am	Fri-Sat.

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

*Motorists advised to use the Macombs Dam Bridge or the Madison Avenue Bridge during these closures.*

Throughout 2011, there were additional closures of single lanes in each direction on the 145<sup>th</sup> Street Bridge and its approach ramps as needed during off-peak hours.

## **Grand Street Bridge (Newtown Creek between Brooklyn & Queens)**

Grand Street, just west of the bridge between Gardner Avenue and Metropolitan Avenue, was closed as follows.

12/03–12/16: 8:00pm – 5:00am Weeknights.

## **Eastern Boulevard Bridge (Bruckner Expressway over Bronx River)**

Eastbound Main Roadway (Bruckner Expressway) lane closures were in effect as follows.

01/01–05/13:	9:00am – 2:00pm	Weekdays.	<i>1 lane closed as needed.</i>
	12:01am – 5:30am	Weeknights.	<i>1 lane closed as needed.</i>
	1:00am – 6:00am	Sat.	<i>1 lane closed as needed.</i>
	1:00am – 7:00am	Sun.	<i>1 lane closed as needed.</i>
05/14–12/31:	1:00am – 5:30am	Weeknights.	<i>1 lane closed as needed.</i>
	1:00am – 6:00am	Sat.	<i>1 lane closed as needed.</i>
	1:00am – 7:00am	Sun.	<i>1 lane closed as needed.</i>

Eastbound Service Roadway (Bruckner Boulevard) lane closures were in effect as follows.

01/01–05/13:	9:00am – 2:00pm	Weekdays.	<i>1 lane closed as needed.</i>
	10:00pm – 5:30am	Weeknights.	<i>1 lane closed as needed.</i>
	12:01am – 6:00am	Sat.	<i>1 lane closed as needed.</i>
	12:01am – 7:00am	Sun.	<i>1 lane closed as needed.</i>
05/14–12/31:	10:00pm – 5:30am	Weeknights.	<i>1 lane closed as needed.</i>
	12:01am – 6:00am	Sat.	<i>1 lane closed as needed.</i>
	12:01am – 7:00am	Sun.	<i>1 lane closed as needed.</i>

Westbound Main Roadway (Bruckner Expressway) lane closures were in effect as follows.

01/01–06/17:	1:00am – 5:00am	Weeknights.	<i>1 lane closed as needed.</i>
	1:00am – 6:00am	Sat.	<i>1 lane closed as needed.</i>
	1:00am – 7:00am	Sun.	<i>1 lane closed as needed.</i>

Westbound Service Roadway (Bruckner Boulevard) lane closures were in effect as follows.

01/01–06/15:	12:01am – 5:00am	Weeknights.	<i>1 lane closed as needed.</i>
	12:01am – 6:00am	Sat.	<i>1 lane closed as needed.</i>
	12:01am – 7:00am	Sun.	<i>1 lane closed as needed.</i>
06/16–12/31:	10:00pm – 5:00am	Weeknights.	<i>All lanes closed.</i>

## **Unionport Bridge (Westchester Creek, Bronx)**

One eastbound lane and the entrance ramp from Zerega Avenues to the Hutchinson River Parkway/Bruckner Expressway were closed as follows.

02/08–02/11: 11:00pm – 5:00am Thu.-Fri. *1 night only.*

The eastbound approaches were closed as follows.

09/19–09/25: 11:00pm – 5:00am Weeknights.

## ***Carroll Street Bridge (Gowanus Canal, Brooklyn)***

The Carroll Street Bridge (1-way eastbound) was closed as follows.

08/09–08/31: Round the Clock    All Days.  
*Motorists advised to use the Union Street Bridge or the 3<sup>rd</sup> Avenue Bridge.*  
11/05–11/14: 9:00am - Noon    Weekdays.

## ***Hamilton Avenue Bridge (Gowanus Canal, Brooklyn)***

Throughout 2011, there were intermittent closures of single lanes in both directions as needed during off-peak hours.

## ***9<sup>th</sup> Street Bridge (Gowanus Canal, Brooklyn)***

The 9<sup>th</sup> Street Bridge was closed as follows.

03/29–03/30: 11:00pm – 5:00am    Tue.-Wed.

## ***Mill Basin Bridge (Belt Parkway, Brooklyn)***

Eastbound closures were in effect as follows.

01/01-05/06:	10:00pm - 1:00am	Mon.-Thu.	1 of 3 E/B lanes closed.
	11:00pm - 1:00am	Fri.	1 of 3 E/B lanes closed.
	1:00am – 5:00am	Weeknights	2 of 3 E/B lanes closed.
	5:00am – 6:00am	Weeknights	1 of 3 E/B lanes closed.
03/21-03/26:	10:00pm - Midnight	Mon.-Fri.	1 of 3 E/B lanes closed.
	12:01pm - 5:00am	Tue.-Fri.	All 3 E/B lanes closed.
	5:00am – 6:00am	Weeknights	1 of 3 E/B lanes closed.
	12:01am – 7:00am	Sat.	All 3 E/B lanes closed.
03/27[-05/06:	10:00pm - 1:00am	Mon.-Thu.	1 of 3 E/B lanes closed.
	11:00pm - 1:00am	Fri.	1 of 3 E/B lanes closed.
	1:00am – 5:00am	Weeknights	2 of 3 E/B lanes closed.
	5:00am – 6:00am	Weeknights	1 of 3 E/B lanes closed.

Westbound closures were in effect as follows.

01/01-05/06:	10:00pm - 1:00am	Mon.-Thu.	1 of 3 W/B lanes closed.
	11:00pm - 1:00am	Fri.	1 of 3 W/B lanes closed.
	1:00am – 5:00am	Weeknights	2 of 3 W/B lanes closed.
	5:00am – 6:00am	Weeknights	1 of 3 W/B lanes closed.

## ***Borden Avenue Bridge (Dutch Kills, Queens)***

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

From January 2 to May 6, there were single lane closures to complete sidewalk work.

## ***Flushing Bridge (Northern Boulevard over Flushing River, Queens)***

Eastbound lane closures were in effect as follows.

03/02-07/22:	11:00pm - 6:00am	Mon.-Thu.	1 E/B lane closed.
	11:00pm Fri - 2:00pm	Sat.	1 E/B lane closed.
	12:01am – 5:00am	Mon.-Thu.	2 E/B lanes closed.
	1:00am – 6:30am	Sat.	2 E/B lanes closed.

Westbound lane closures were in effect as follows.

03/02-07/22:	10:00pm - 6:00am	Mon.-Thu.	1 W/B lane closed.
	10:00pm Fri - 7:00am	Sat.	1 W/B lane closed.
	12:01am – 5:00am	Mon.-Thu.	2 W/B lanes closed.
	1:00am – 6:30am	Sat.	2 W/B lanes closed.

## ***Roosevelt Avenue Bridge (Flushing River, Queens)***

The bridge was closed eastbound when needed as follows.

06/24-06/29:	9:00pm - 5:00am	All Days	Bridge closed E/B as needed.
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## ***Roosevelt Island Bridge (East River between Queens & Roosevelt Island)***

This bridge was subject to intermittent 15-minute closures as follows.

03/21-04/15:	10:00am - 2:00pm	Weekdays	<i>Intermittent 15-minute closures.</i>
05/03-06/10:	10:00am - 2:00pm	Weekdays	<i>Intermittent 15-minute closures.</i>
09/18-09/22:	7:00am - 7:00pm	Weekdays	<i>Intermittent 15-minute closures.</i>

## ***Henry Hudson Bridge***

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

01/01-04/15:	10:00am – 3:00pm	Mon-Fri.	1 of 4 Manhattan-bound lanes closed as needed.
04/16-04/29:	10:00am – 2:00pm	Mon.	1 of 4 Manhattan-bound lanes closed as needed.
	10:00am – 3:00pm	Tue-Fri.	1 of 4 Manhattan-bound lanes closed as needed.
04/30-05/06:	10:00am – 3:00pm	Mon-Fri.	1 of 4 Manhattan-bound lanes closed as needed.
05/07-05/13:	10:00am – 2:00pm	Mon-Fri.	1 of 4 Manhattan-bound lanes closed as needed.
	10:00pm – 1:00am	Tue.	1 of 4 Manhattan-bound lanes closed as needed.
05/14-07/22:	10:00am – 3:00pm	Mon-Fri.	1 of 4 Manhattan-bound lanes closed as needed.

07/23-08/12:	10:00am – 2:00pm	Mon-Fri.	1 of 4 Manhattan-bound lanes closed as needed.
	7:00pm – 5:00am	Sun-Thu.	2 of 4 Manhattan-bound lanes closed as needed.
08/13-08/19:	10:00am – 2:00pm	Mon-Fri.	1 of 4 Manhattan-bound lanes closed as needed.
	9:00pm – 5:00am	Sun-Mon.	2 of 4 Manhattan-bound lanes closed as needed.
	7:00pm – 5:00am	Mon-Thu.	2 of 4 Manhattan-bound lanes closed as needed.
08/20-09/02:	10:00am – 2:00pm	Mon-Fri.	1 of 4 Manhattan-bound lanes closed as needed.
	9:00pm – 5:00am	Sun-Mon.	2 of 4 Manhattan-bound lanes closed as needed.
	7:00pm – 5:00am	Mon-Fri.	2 of 4 Manhattan-bound lanes closed as needed.
09/03-09/09:	10:00am – 3:00pm	Tue-Fri.	2 of 4 Manhattan-bound lanes closed as needed.
09/10-09/16:	10:00am – 2:00pm	Mon-Fri.	1 of 4 Manhattan-bound lanes closed as needed.
	10:00pm – 5:00am	Wed.	1 of 4 Manhattan-bound lanes closed as needed.
09/17-10/07:	10:00am – 3:00pm	Mon-Fri.	1 of 4 Manhattan-bound lanes closed as needed.
10/08-10/14:	10:00am – 2:00pm	Tue.	2 of 4 Manhattan-bound lanes closed as needed.
	10:00am – 3:00pm	Mon.	1 of 4 Manhattan-bound lanes closed as needed.
	10:00am – 3:00pm	Wed-Fri.	1 of 4 Manhattan-bound lanes closed as needed.
10/15-10/28:	10:00am – 2:00pm	Mon-Fri.	2 of 4 Manhattan-bound lanes closed as needed.
10/29-11/20:	10:00am – 3:00pm	Mon-Fri.	1 of 4 Manhattan-bound lanes closed as needed.

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

01/01-05/06:	7:00am – 2:00pm	Mon-Fri.	1 of 3 Bronx-bound lanes closed as needed.
05/07-05/13:	10:00am – 2:00pm	Mon-Tue.	1 of 3 Bronx-bound lanes closed as needed.
	7:30pm – 5:00am	Tue-Thu.	2 of 3 Bronx-bound lanes closed as needed.
	Round-the -clock	Wed-Sun.	1 of 3 Bronx-bound lanes closed.
05/14-08/12:	9:30am – 11:30am	Mon-Fri.	2 of 3 Bronx-bound lanes closed as needed.
	Round-the -clock	All Days.	1 of 3 Bronx-bound lanes closed.
08/13-08/19:	9:30am – 11:30am	Mon-Fri.	2 of 3 Bronx-bound lanes closed as needed.

	Midnight – 5:00am	Fri.	All Bronx-bound lanes closed as needed for 15 minute periods.
	Round-the -clock	All Days.	1 of 3 Bronx-bound lanes closed.
08/20-09/02:	9:30am – 11:30am	Mon-Fri.	2 of 3 Bronx-bound lanes closed as needed.
	6:00am – 2:00pm	Mon.	2 of 3 Bronx-bound lanes closed as needed.
	Round-the -clock	All Days.	1 of 3 Bronx-bound lanes closed.
09/03-09/09:	9:30am – 11:30am	Tue-Fri.	2 of 3 Bronx-bound lanes closed as needed.
	Round-the -clock	All Days.	1 of 3 Bronx-bound lanes closed.
09/10-09/16:	9:30am – 11:30am	Mon-Fri.	2 of 3 Bronx-bound lanes closed as needed.
	10:00pm – 5:00am	Wed.	2 of 3 Bronx-bound lanes closed as needed.
	Round-the -clock	All Days.	1 of 3 Bronx-bound lanes closed.
09/17-09/23:	9:30am – 11:30am	Mon-Fri.	2 of 3 Bronx-bound lanes closed as needed.
	Round-the -clock	All Days.	1 of 3 Bronx-bound lanes closed.
09/24-10/07:	9:30am – 11:30am	Mon-Fri.	2 of 3 Bronx-bound lanes closed as needed.
	10:00pm – 5:00am	Mon-Tue.	2 of 3 Bronx-bound lanes closed as needed.
	Round-the -clock	All Days.	1 of 3 Bronx-bound lanes closed.
10/08-11/04:	9:30am – 11:30am	Mon-Fri.	2 of 3 Bronx-bound lanes closed as needed.
	Round-the -clock	All Days.	1 of 3 Bronx-bound lanes closed.
11/05-11/11:	9:30am – 11:30am	Mon.	2 of 3 Bronx-bound lanes closed as needed.
	9:30am – 11:30am	Wed-Thu.	2 of 3 Bronx-bound lanes closed as needed.
	Round-the -clock	All Days.	1 of 3 Bronx-bound lanes closed.
11/12-11/20:	9:30am – 11:30am	Mon-Fri.	2 of 3 Bronx-bound lanes closed as needed.
	Round-the -clock	All Days.	1 of 3 Bronx-bound lanes closed.

Throughout 2011, there were additional intermittent lane closures in both directions during off-peak hours.

### ***Hugh L. Carey Tunnel (Brooklyn-Battery Tunnel)***

Throughout 2011, the inbound **exit to Trinity Place** was closed weekdays between 6:00-10:00am, and between 3:00–7:00pm.

Throughout 2011, between 6:00am and 10:00am on weekdays, there were three lanes inbound and one lane outbound.

Throughout 2011, 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 2011, one tube was closed intermittently as needed during the following hours:

01/01-05/13:	10:00pm - 5:30am 10:00am – 2:00pm	Sun-Thu. Mon-Fri.
05/14-05/20:	10:00pm - 5:30am 9:00pm – 5:30am 10:00am – 2:00pm	Mon-Thu. Sun. Mon-Fri .
05/21-06/17:	10:00pm - 5:30am 10:00am – 2:00pm	Sun-Thu. Mon-Fri .
06/18-07/22:	9:00pm - 5:30am 10:00am – 2:00pm	Sun-Thu. Mon-Fri .
07/23-09/02:	10:00pm - 5:30am 10:00am – 2:00pm	Sun-Thu. Mon-Fri .
09/03-09/09:	10:00pm - 5:30am 10:00am – 2:00pm	Tue-Thu. Tue-Fri.
09/10-09/16:	10:00pm - 5:30am 10:00am – 2:00pm	Sun-Thu. Mon-Fri .
09/17-10/07:	10:00pm - 5:30am 10:00am – 2:00pm 11:00pm Sat (09/24) – 8:00am Sun (09/25).	Sun-Thu. Mon-Fri .
10/08-10/14:	10:00pm - 5:30am	Mon-Thu.
10/15-11/04:	10:00pm - 5:30am	Sun-Thu.
11/05-11/20:	10:00pm - 5:30am	Sun, Tue, Wed.

In addition, due to a major electrical equipment project, there were a series of 21 weekend tube closures. One tube (2 lanes) was closed from 10:00pm on Fridays through 5:00am on Mondays. The closures, which began Friday, November 11 through Monday, November 14, were not consecutive, but occurred in a series of phases through the end of 2012. Signs were posted in advance of these closures as well as on the MTA website.

*2-way traffic was maintained in the open tube during all the above-described tube closures.*

On Sunday, September 25, from 8:00am to 3:00pm, the entire tunnel was closed in both directions to accommodate the annual Tunnel-to-Towers charity run.

Throughout 2011, there were additional intermittent closures of single lanes in both directions during off-peak hours.

### ***Queens-Midtown Tunnel***

One tube was closed as follows.

07/08-07/11:	9:00pm Friday – 2:00am Monday. <i>2-way traffic maintained in the open tube.</i>
07/30-08/01:	1:00am Saturday – 3:00am Monday. <i>2-way traffic maintained in the open tube, no trucks allowed.</i>

Throughout 2011, there were also intermittent closures of single lanes in both directions during off-peak hours.

### ***Robert F. Kennedy Bridge (formerly Triborough Bridge)***

At the **Harlem River Lift Span**, the following closures were in effect as needed.

- 01/01–04/15: 10:00am – 2:30pm Mon-Fri.
- 1 of 3 lanes closed to Manhattan and to Queens/Bronx.
- 04/16–06/17: 10:00am – 2:30pm Mon-Fri.
- 1 of 3 lanes closed to Manhattan and to Queens/Bronx.
- Midnight – 5:00am Mon-Fri.
- 1 of 3 lanes closed to Manhattan and to Queens/Bronx.
- 06/18–09/02: 10:00am – 2:30pm Mon-Fri.
- 1 of 3 lanes closed to Manhattan and to Queens/Bronx.
- 9:00pm – 5:00am Mon-Thu.
- 2 of 3 lanes closed to Manhattan and to Queens/Bronx.
- 10:00pm – 10:00am Fri-Sat.
- 2 of 3 lanes closed to Manhattan and to Queens/Bronx.
- 09/03–09/23: 10:00am – 2:30pm Mon-Fri.
- 1 of 3 lanes closed Manhattan and to Queens/Bronx.
- 9:00pm – 5:00am Mon-Thu.
- 2 of 3 lanes closed to Queens/Bronx.
- 10:00pm – 10:00am Fri-Sat.
- 2 of 3 lanes closed to Queens/Bronx.
- 09/24–10/28: 10:00am – 2:30pm Mon-Fri.
- 1 of 3 lanes closed to Manhattan.
- 9:00pm – 5:00am Mon-Thu.
- 2 of 3 lanes closed to Queens/Bronx.
- 10:00pm – 10:00am Fri-Sat.
- 2 of 3 lanes closed to Queens/Bronx.
- 10/29–11/04: 10:00am – 2:30pm Mon-Fri.
- 1 of 3 lanes closed to Manhattan.
- 11/05–11/11: 10:00am – 2:30pm Mon-Fri.
- 1 of 3 lanes closed to Manhattan.
- 9:00pm – 9:00am Fri-Sat.
- 2 of 3 lanes closed to Manhattan and to Queens/Bronx.
- 11/12–11/20: 10:00am – 2:30pm Mon-Fri.
- 1 of 3 lanes closed to Manhattan.

10:00pm – 9:00am Mon-Fri.

- 2 of 3 lanes closed to Queens/Bronx.

At the **Queens Suspended Span/Viaduct**, the following closures were in effect as needed.

01/01–03/11: 10:00am – 3:00pm Mon-Fri.

- 1 of 4 lanes closed to Bronx/Manhattan.

6:00am – 3:00pm Mon-Fri.

- 1 of 4 lanes closed to Queens.

9:00pm – 5:00am Mon-Fri.

- 2 of 4 lanes closed to Bronx/Manhattan.
- 2 of 4 lanes closed to Queens.

03/12–04/08: 10:00am – 3:00pm Mon-Fri.

- 1 of 4 lanes closed to Bronx/Manhattan.

Midnight – 5:00am Sat-Sun.

- 3 of 4 lanes closed to Bronx/Manhattan.

9:00pm – 5:00am Mon-Fri.

- 2 of 4 lanes closed to Bronx/Manhattan.
- 2 of 4 lanes closed to Queens.

04/09–04/15: 10:00am – 3:00pm Mon-Fri.

- 1 of 4 lanes closed to Bronx/Manhattan.

Midnight – 5:00am Sat-Sun.

- 3 of 4 lanes closed to Bronx/Manhattan.

9:00pm – 5:00am Mon-Fri.

- 2 of 4 lanes closed to Bronx/Manhattan.
- 2 of 4 lanes closed to Queens.

6:00am – 3:00pm Mon-Fri.

- 1 of 4 lanes closed to Queens.

04/16–04/29: 10:00am – 3:00pm Mon-Fri.

- 1 of 4 lanes closed to Bronx/Manhattan.

10:00am – 2:00pm Mon.

- 1 of 4 lanes closed to Queens.

6:00am – 3:00pm Tue-Fri.

- 1 of 4 lanes closed to Queens.

04/30–05/20: 10:00am – 3:00pm Mon-Fri.

- 1 of 4 lanes closed to Bronx/Manhattan.

- 6:00am – 3:00pm Mon-Fri.
  - 1 of 4 lanes closed to Queens.
- 9:00pm – 5:00am Mon-Thu.
  - 2 of 4 lanes closed to Queens.
- 10:00pm – 10:00am Fri-Sat.
  - 2 of 4 lanes closed to Queens.
- 05/21–06/03: 10:00am – 3:00pm Mon-Fri.
  - 1 of 4 lanes closed to Bronx/Manhattan.
- 5:00am – 3:00pm Mon-Fri.
  - 1 of 4 lanes closed to Queens.
- 9:00pm – 5:00am Mon-Thu.
  - 2 of 4 lanes closed to Queens.
- 10:00pm – 10:00am Fri-Sat.
  - 2 of 4 lanes closed to Queens.
- 06/04–06/17: 10:00am – 3:00pm Mon-Fri.
  - 1 of 4 lanes closed to Bronx/Manhattan.
- 5:00am – 3:00pm Mon-Fri.
  - 1 of 4 lanes closed to Queens.
- 9:00pm – 5:00am Mon-Thu.
  - 2 of 4 lanes closed to Queens.
- Midnight – 5:00am Mon-Thu.
  - 3 of 4 lanes closed to Queens.
- 10:00pm – 10:00am Fri-Sat.
  - 2 of 4 lanes closed to Queens.
- Midnight – 5:00am Fri-Sat.
  - 3 of 4 lanes closed to Queens.
- 06/18–07/14: 10:00am – 3:00pm Mon-Fri.
  - 1 of 4 lanes closed to Bronx/Manhattan.
- 5:00am – 3:00pm Mon-Fri.
  - 1 of 4 lanes closed to Queens.
- 9:00pm – 5:00am Mon-Thu.
  - 2 of 4 lanes closed to Queens.
- 10:00pm – 10:00am Fri-Sat.
  - 2 of 4 lanes closed to Queens.
- 07/15–10/14: 10:00am – 3:00pm Mon-Fri.
  - 1 of 4 lanes closed to Bronx/Manhattan.

- 9:00pm – 5:00am Mon-Thu.
  - 2 of 4 lanes closed to Bronx/Manhattan.
- 10:00pm – 10:00am Fri-Sat.
  - 2 of 4 lanes closed to Bronx/Manhattan.
  - 3 of 4 lanes closed 12:01am to 5:00am.
- Round-the-clock Sat-Sun.
  - 1 of 3 lanes closed on Queens to Manhattan ramp.
- 5:00am – 3:00pm Mon-Fri.
  - 1 of 4 lanes closed to Queens.
- 9:00pm – 5:00am Mon-Thu.
  - 2 of 4 lanes closed to Queens.
  - 3 of 4 lanes closed 12:01 am to 5:00am.
- 10:00pm – 10:00am Fri-Sat.
  - 2 of 4 lanes closed to Queens.
  - 3 of 4 lanes closed 12:01ma to 5:00am.
- 7:00am – 4:00pm Mon-Fri.
  - 1 of 2 lanes closed on Randall’s Island ramp.
- 10/14–12/31: 10:00am – 3:00pm Mon-Fri.
  - 1 of 4 lanes closed to Bronx/Manhattan.
- 5:00am – 3:00pm Mon-Fri.
  - 1 of 4 lanes closed to Queens.
- 7:00am – 4:00pm Mon-Fri.
  - 1 of 2 lanes closed on Randall’s Island ramp.

At the **Bronx Span**, the following closures were in effect as needed.

- 01/01–12/31: 10:00am – 3:00pm Mon-Fri.
  - 1 lane closed as needed to Bronx.
  - 1 lane closed as needed to Manhattan/Queens.
- 10:00pm – 5:00am Mon-Fri.
  - 2 lanes closed as needed to Manhattan/Queens.
  - 2 lanes closed as needed to Bronx.

### ***Bronx-Whitestone Bridge***

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

- |              |                  |         |                               |
|--------------|------------------|---------|-------------------------------|
| 01/01–02/25: | 10:00am – 3:00pm | Mon-Thu | 1 S/B lane closed as needed.  |
|              | 10:00am – 2:30pm | Fri     | 1 S/B lane closed as needed.  |
|              | 11:00pm – 5:30am | Sat-Sun | 2 S/B lanes closed as needed. |
|              | 6:00am – Noon    | Sat-Sun | 1 S/B lane closed as needed.  |

02/26–04/15:	6:00am – Noon	Sat-Sun	1 S/B lane closed as needed.
	11:00pm – 5:30am	Sat-Sun	2 S/B lanes closed as needed.
	11:00pm – 5:30am	Mon-Fri	1 S/B lane closed as needed.
04/16–04/29:	6:00am – Noon	Sat	1 S/B lane closed as needed.
	11:00pm – 5:30am	Sat	2 S/B lanes closed as needed.
	11:00pm – 5:30am	Mon-Fri	1 S/B lane closed as needed.
04/30–05/20:	6:00am – Noon	Sat-Sun	1 S/B lane closed as needed.
	11:00pm – 5:30am	Sat-Sun	2 S/B lanes closed as needed.
	11:00pm – 5:30am	Mon-Fri	1 S/B lane closed as needed.
05/21–05/30:	10:00am – 2:45pm	Mon-Thu	1 S/B lane closed as needed.
	10:00am – 11:59am	Fri	1 S/B lane closed as needed.
05/31–07/01:	6:00am – Noon	Sat-Sun	1 S/B lane closed as needed.
	11:00pm – 5:30am	Sat-Sun	2 S/B lanes closed as needed.
	11:00pm – 5:30am	Mon-Fri	1 S/B lane closed as needed.
07/02–07/10:	6:00am – Noon	Sat-Sun	1 S/B lane closed as needed.
	11:00pm – 5:30am	Sat-Sun	2 S/B lanes closed as needed.
	11:00pm – 5:30am	Tue-Fri	1 S/B lane closed as needed.
07/11–09/02:	6:00am – Noon	Sat-Sun	1 S/B lane closed as needed.
	11:00pm – 5:30am	Sat-Sun	2 S/B lanes closed as needed.
	11:00pm – 5:30am	Mon-Fri	1 S/B lane closed as needed.
09/03–09/09:	11:00pm – 5:30am	Tue-Fri	1 S/B lane closed as needed.
09/10–09/16:	6:00am – Noon	Sat-Sun	1 S/B lane closed as needed.
	11:00pm – 5:30am	Sat-Sun	2 S/B lanes closed as needed.
	11:00pm – 5:30am	Mon & Wed	2 S/B lanes closed as needed.
	6:00pm – 6:00am	Tu, Th, & Fr	2 S/B lanes closed as needed.
09/17–10/14:	6:00am – Noon	Sat-Sun	1 S/B lane closed as needed.
	11:00pm – 5:30am	Sat-Sun	2 S/B lanes closed as needed.
	11:00pm – 5:30am	Tue-Fri	1 S/B lane closed as needed.
10/15–10/28:	6:00am – Noon	Sat-Sun	1 S/B lane closed as needed.
	11:00pm – 5:30am	Sat-Sun	2 S/B lanes closed as needed.
	11:00pm – 5:30am	Mon-Fri	1 S/B lane closed as needed.
10/29–11/04:	6:00am – Noon	Sat-Sun	1 S/B lane closed as needed.
	10:00am – 3:00pm	Mon-Thu	1 S/B lane closed as needed.
	10:00am – 2:30pm	Fri	1 S/B lane closed as needed.
	11:00pm – 5:30am	Sat-Sun	2 S/B lanes closed as needed.
11/05–11/11:	6:00am – Noon	Sat-Sun	1 S/B lane closed as needed.
	10:00am – 3:00pm	Mon-Thu	1 S/B lane closed as needed.
	10:00am – 2:30pm	Fri	1 S/B lane closed as needed.
	11:00pm – 5:30am	Sat	1 S/B lane closed as needed.
11/12–11/20:	6:00am – Noon	Sat-Sun	1 S/B lane closed as needed.
	10:00am – 3:00pm	Mon-Thu	1 S/B lane closed as needed.
	10:00am – 2:30pm	Fri	1 S/B lane closed as needed.
	11:00pm – 5:30am	Sat-Sun	1 S/B lane closed as needed.

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

01/01–02/25:	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.
	6:00am – Noon	Sat-Sun	1 N/B lane closed as needed.
02/26–04/15:	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	1 N/B lane closed as needed.
	11:00pm – 5:30am	Mon-Fri	2 N/B lanes closed as needed.
04/16–04/29:	10:00am – 2:00pm	Mon	1 N/B lane closed as needed.
	10:00am – 3:00pm	Tue-Thu	1 N/B lane closed as needed.
	10:00am – Noon	Fri	1 N/B lane closed as needed.
	11:00pm – 5:30am	Sat	1 N/B lane closed as needed.
	11:00pm – 5:30am	Mon-Fri	2 N/B lanes closed as needed.
04/30–05/20:	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	1 N/B lane closed as needed.
	11:00pm – 5:30am	Mon-Fri	2 N/B lanes closed as needed.
05/31–07/01:	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	1 N/B lane closed as needed.
	11:00pm – 5:30am	Mon-Fri	2 N/B lanes closed as needed.
07/02–07/10:	Noon – 3:00pm	Tue	1 N/B lane closed as needed.
	10:00am – 3:00pm	Wed-Fri	1 N/B lane closed as needed.
	11:00pm – 5:30am	Sat-Sun	1 N/B lane closed as needed.
	11:00pm – 5:30am	Tue-Fri	2 N/B lanes closed as needed.
07/11–09/02:	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	1 N/B lane closed as needed.
	11:00pm – 5:30am	Mon-Fri	2 N/B lanes closed as needed.
09/03–09/09:	10:00am – 3:00pm	Tue-Thu	1 N/B lane closed as needed.
	10:00am – 2:30pm	Fri	1 N/B lane closed as needed.
	11:00pm – 5:30am	Tue-Fri	2 N/B lanes closed as needed.
09/10–09/16:	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	1 N/B lane closed as needed.
	11:00pm – 5:30am	Mon-Fri	1 N/B lane closed as needed.
09/17–10/14:	10:00am – 3:00pm	Tue-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	1 N/B lane closed as needed.
	11:00pm – 5:30am	Tue-Fri	2 N/B lanes closed as needed.
10/15–10/28:	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	1 N/B lane closed as needed.
	11:00pm – 5:30am	Mon-Fri	2 N/B lanes closed as needed.
10/29–11/04:	6:00am – Noon	Sat-Sun	1 N/B lane closed as needed.
	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.

11/05–11/11:	6:00am – Noon	Sat-Sun	1 N/B lane closed as needed.
	10:00am – 3:00pm	Mon-Thu	1 N/B lane closed as needed.
	10:00pm – 11:55pm	Fri	2 N/B lanes closed as needed.
	Midnight – 5:30am	Sat	2 N/B lanes closed as needed.
11/12–11/20:	6:00am – Noon	Sat-Sun	1 N/B lane closed as needed.
	10:00am – 3:00pm	Mon-Thu	1 N/B lane closed as needed.
	10:00pm – 11:55pm	Fri	1 N/B lane closed as needed.
	11:00pm – 5:30am	Sat-Sun	1 N/B lane closed as needed.

### ***Cross Bay Veterans Memorial Bridge***

Northbound lane closures (to Queens) were in effect on the bridge as follows.

04/02–05/07:	8:00am – 3:00pm	Mon-Fri.	1 N/B lane closed.
06/04–06/12:	9:00am – 3:00pm	Thu.	2 N/B lanes closed.
	9:00am – Noon	Fri.	2 N/B lanes closed.
06/13–07/01:	8:00am – 9:00am	Mon-Fri.	1 N/B lane closed.
	9:00am – 3:00pm	Mon-Fri.	2 N/B lanes closed.
07/02–07/15:	9:00am – 3:00pm	Tue-Thu.	2 N/B lanes closed.
	9:00am – Noon	Fri.	2 N/B lanes closed.
08/20–09/02:	8:00am – 3:00pm	Tue-Thu.	1 N/B lane closed.
	8:00am – Noon	Fri.	1 N/B lane closed.
09/03–09/23:	9:00am – 3:00pm	Tue-Thu.	1 N/B lane closed.
	9:00am – Noon	Fri.	1 N/B lane closed.
09/24–10/07:	9:00am – 3:00pm	Mon-Thu.	1 N/B lane closed.
	9:00am – Noon	Fri.	1 N/B lane closed.

Southbound lane closures (to Rockaway) were in effect on the bridge as follows.

04/02–05/07:	8:00am – 3:00pm	Mon-Fri.	2 S/B lanes closed.
06/04–06/12:	8:00am – 3:00pm	Mon-Wed.	2 S/B lanes closed.
07/02–07/15:	8:00am – 3:00pm	Tue-Thu.	2 S/B lanes closed.
	8:00am – Noon	Fri.	2 S/B lanes closed.
08/13–08/19:	8:00am – 3:00pm	Mon-Thu.	2 S/B lanes closed.
08/20–09/02:	8:00am – 3:00pm	Mon-Thu.	2 S/B lanes closed.
	8:00am – Noon	Fri.	1 S/B lane closed.
09/03–09/23:	8:00am – 3:00pm	Tue-Thu.	1 S/B lane closed.
	8:00am – Noon	Fri.	1 S/B lane closed.
09/24–10/07:	8:00am – 3:00pm	Mon-Thu.	1 S/B lane closed.
	8:00am – Noon	Fri.	1 S/B lane closed.
10/29–11/20:	8:00am – 3:00pm	Mon-Fri.	1 S/B lane closed.

### ***Marine Parkway Gil Hodges Memorial Bridge***

There were maintenance bridge lifts requiring 15-minute closures of the bridge to vehicular traffic according to the following schedule.

01/21–09/02:	10:00am	Wed.	1 maintenance lift per week.
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09/03–09/09:	10:00am 10:00am – 3:00pm	Wed. Tue-Fri	1 maintenance lift per week. Additional intermittent emergency maintenance lifts.
09/10–09/16:	10:00am – 3:00pm	Mon-Fri	Intermittent emergency maintenance lifts.
09/17–09/23:	10:00am – 3:00pm	Mon-Fri	Intermittent maintenance lifts.
09/24–10/07:	10:00am	Wed.	1 maintenance lift per week.
10/08–11/04:	10:00am – 3:00pm	Tue-Fri	Intermittent maintenance lifts.
11/05–11/20:	10:00am – 3:00pm	Mon-Fri	Intermittent maintenance lifts.

Northbound (to Brooklyn) lane closures were in effect as follows.

06/18–08/19:	9:00am – 3:00pm 9:00am – Noon	Mon-Thu Fri	1 N/B lane closed as needed. 1 N/B lane closed as needed.
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Southbound (to Rockaways) lane closures were in effect as follows.

07/16–08/19:	8:00am – 3:00pm 8:00am – Noon	Mon-Thu Fri	1 S/B lane closed as needed. 1 S/B lane closed as needed.
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Throughout 2011, there were additional intermittent closures of single lanes in both directions during off-peak hours.

## ***Throgs Neck Bridge***

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

05/14–05/20:	9:30am – 2:30pm 10:00pm – 5:00am 11:00pm – 7:00am	Mon-Fri Mon-Thu Fri	1 S/B lane closed as needed. 2 S/B lanes closed as needed. 2 S/B lanes closed as needed.
05/21–06/03:	9:30am – 2:30pm 9:30am – 11:59am 10:00pm – 5:00am	Mon-Thu Fri Mon-Thu	1 S/B lane closed as needed. 1 S/B lane closed as needed. 2 S/B lanes closed as needed.
06/04–06/16:	9:30am – 2:30pm	Mon-Fri	1 S/B lane closed as needed.
06/17–07/01:	9:30am – 2:30pm 10:00pm – 5:00am	Mon-Fri Mon & Tue	1 S/B lane closed as needed. 2 S/B lanes closed as needed.
07/23–08/12:	9:30am – 2:30pm 9:30am – 2:30pm 10:00pm – 5:00am 11:00pm – 5:00am 10:00pm – 5:00am	Mon-Tue Thu-Fri Mon & Tue Wed Thu & Fri	1 S/B lane closed as needed. 1 S/B lane closed as needed. 1 S/B lane closed as needed. 2 S/B lanes closed as needed. 1 S/B lane closed as needed.
10/29–11/04:	9:30am – 2:30pm 10:00pm – 5:00am 11:00pm – 7:00am	Mon-Fri Mon-Thu Fri	1 S/B lane closed as needed. 2 S/B lanes closed as needed. 2 S/B lanes closed as needed.
11/05–11/20:	Round-the-clock	All Days	1 S/B lane closed round-the-clock.

10:00pm – 5:00am	Mon-Thu	Additional S/B lane closed as needed.
11:00pm – 7:00am	Fri	Additional S/B lane closed as needed.
10:00pm – 5:00am	Sat-Sun	Additional S/B lane closed as needed.

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

05/14–05/20:	10:00am – 3:00pm	Mon-Thu	1 N/B lane closed as needed.
	10:00pm – 5:00am	Mon-Thu	2 N/B lanes closed as needed.
	10:00am – 2:30pm	Fri	1 N/B lane closed as needed.
	11:00pm – 7:00am	Fri	2 N/B lanes closed as needed.
05/21–06/03:	10:00am – 3:00pm	Mon-Thu	1 N/B lane closed as needed.
	10:00pm – 5:00am	Mon-Thu	2 N/B lanes closed as needed.
	10:00am – 11:59am	Fri	1 N/B lane closed as needed.
06/04–06/16:	10:00am – 3:00pm	Mon-Thu	1 N/B lane closed as needed.
	10:00pm – 5:00am	Mon-Thu	2 N/B lanes closed as needed.
	10:00am – 2:30pm	Fri	1 N/B lane closed as needed.
	11:00pm – 7:00am	Fri	2 N/B lanes closed as needed.
06/17–07/01:	10:00am – 3:00pm	Mon-Thu	1 N/B lane closed as needed.
	10:00pm – 5:00am	Tue-Thu	2 N/B lanes closed as needed.
	10:00am – 2:30pm	Fri	1 N/B lane closed as needed.
07/23–08/12:	10:00am – 3:00pm	Mon-Thu	1 N/B lane closed as needed.
	10:00pm – 2:30pm	Fri	1 N/B lane closed as needed.
	10:00pm – 5:00am	Mon-Fri	1 N/B lane closed as needed.
10/29–11/04:	7:00am – Noon	Sat	1 N/B lane closed as needed.
	10:00am – 3:00pm	Mon-Thu	1 N/B lane closed as needed.
	10:00pm – 5:00am	Mon-Thu	2 N/B lanes closed as needed.
	10:00am – 2:30pm	Fri	1 N/B lane closed as needed.
	10:00pm – 7:00am	Fri	2 N/B lanes closed as needed.
11/05–11/20:	7:00am – Noon	Sat	1 N/B lane closed as needed.
	10:00am – 3:00pm	Mon-Thu	1 N/B lane closed as needed.
	10:00pm – 5:00am	Mon-Thu	2 N/B lanes closed as needed.
	10:00am – 2:30pm	Fri	1 N/B lane closed as needed.
	10:00pm – 7:00am	Fri	2 N/B lanes closed as needed.

Throughout 2011, there were additional intermittent closures of single lanes on the Throgs Neck Bridge during off-peak hours.

## **Verrazano-Narrows Bridge**

Throughout 2011, trucks were required to use the upper level.

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

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

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

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

Throughout 2011, there were additional intermittent closures of single lanes in both directions on the Verrazano-Narrows Bridge roadways during off-peak hours.

### ***George Washington Bridge (Hudson River between Manhattan & New Jersey)***

Throughout 2011, there were intermittent closures of single lanes during off-peak hours to facilitate PANYNJ maintenance work.

### ***Holland Tunnel (Hudson River between Manhattan & New Jersey)***

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 2011:	11:30pm – 5:30am	Mon–Fri.	1 w/b lane closed.
	12:01am – 8:00am	Sat.	1 w/b lane closed.

### ***Lincoln Tunnel (Hudson River between Manhattan & New Jersey)***

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

All 2011	11:00pm – 5:00am	Mon–Fri.	<i>Two tubes open, providing two traffic lanes in each direction.</i>
	1:00am – 9:00am	Sat.	
	1:00am – 10:00am	Sun.	

### ***Bayonne Bridge (Kill Van Kull between Staten Island & New Jersey)***

Throughout 2011, there were intermittent closures of one of the two lanes in either or both directions weekdays between 6:30am and 2:00pm.

### ***Goethals Bridge (Arthur Kill between Staten Island & New Jersey)***

Throughout 2011, there were intermittent closures of one of the two lanes in either or both directions during off-peak hours.

