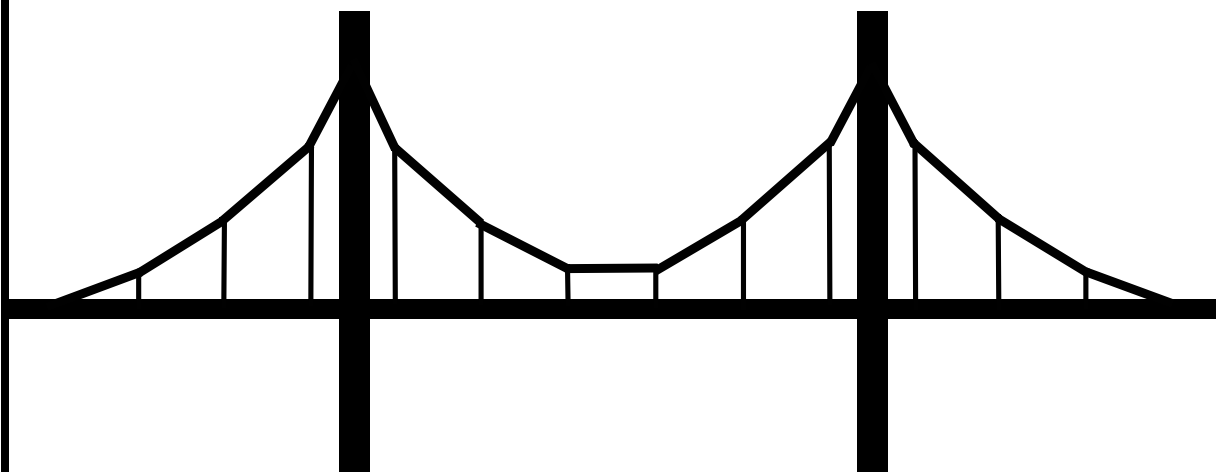


# NEW YORK CITY BRIDGE TRAFFIC VOLUMES 2003



*The City of New York*  
Michael R. Bloomberg, Mayor



**New York City Department of Transportation**  
**Iris Weinshall, Commissioner**

A member of the New York Metropolitan Transportation Council

August 2004

# **New York City Bridge Traffic Volumes 2003**

**Contract D000642**

**2003-2004: PT 2221915, Activity CDOT-02-03**

**2004-2005: PTDT04P00.01**

The preparation of this report was financed in part with funds from the U.S. Department of Transportation, Federal Highway Administration, under the Federal Highway Act of 1956, as amended, and the Urban Mass Transportation Act of 1964, as amended. This document is disseminated by the New York City Department of Transportation in the interest of information exchange. It reflects the views of the New York City Department of Transportation (NYCDOT), which is responsible for the facts and the accuracy of the data presented herein. The report does not necessarily reflect any official views or policies of the Federal Transit Administration, the Federal Highway Administration, or the State of New York. The report does not constitute a standard, specification, or regulation. NYCDOT is grateful to the Metropolitan Transportation Authority Bridges and Tunnels (MTABT), and the Port Authority of New York and New Jersey (PANYNJ), for providing data used to develop this report.

Prepared by:  
New York City Department of Transportation

Iris Weinshall  
Commissioner

Judy Bergtraum  
First Deputy Commissioner

David Woloch  
Deputy Commissioner/Senior Policy Advisor

Michael Primeggia  
Deputy Commissioner

Ann Marie Sledge-Doherty  
Chief, Research, Implementation, and Safety

Richard P. Roan  
Research, Implementation, and Safety

# TABLE OF CONTENTS

	PAGE
<b>INTRODUCTION</b> . . . . .	7
<b>SUMMARY</b> . . . . .	9
2003 Volumes . . . . .	10
Major Increases . . . . .	10
Major Decreases . . . . .	10
Ten-Year Trends: 1993 - 2003 . . . . .	11
Historic Trends . . . . .	11
Major Bridge Reconstruction in 2003 . . . . .	12
New York City Bridges Map . . . . .	30
Average Daily Traffic Volumes 1948 - 2003 . . . . .	32
7am - 7pm Vehicle Classification in 2003 . . . . .	35
Traffic Volume Trends 2002 - 2003 . . . . .	37
10-Year Traffic Growth Rate Trends 1953 - 2003 . . . . .	40
<b>EAST RIVER BRIDGES</b> . . . . .	43
Average Daily Traffic Volumes 1948 - 2003 . . . . .	44
Brooklyn . . . . .	45
Manhattan . . . . .	46
Queensboro . . . . .	47
Williamsburg . . . . .	48
<b>HARLEM RIVER BRIDGES</b> . . . . .	49
Average Daily Traffic Volumes 1948 - 2003 . . . . .	50
Alexander Hamilton . . . . .	52

	PAGE
Broadway . . . . .	53
Macombs Dam . . . . .	54
Madison Avenue . . . . .	55
Third Avenue . . . . .	56
University Heights . . . . .	57
Washington . . . . .	58
Willis Avenue . . . . .	59
145th Street . . . . .	60
<b>BROOKLYN-QUEENS BRIDGES</b> . . . . .	61
Average Daily Traffic Volumes 1948 - 2003 . . . . .	62
Grand Street . . . . .	63
Greenpoint Avenue . . . . .	64
Kosciuszko . . . . .	65
Pulaski . . . . .	66
<b>BRONX BRIDGES</b> . . . . .	67
Average Daily Traffic Volumes 1948 - 2003 . . . . .	68
City Island . . . . .	70
East 174th Street . . . . .	71
Eastchester . . . . .	72
Eastern Boulevard . . . . .	73
Hutchinson River Parkway . . . . .	74
Pelham . . . . .	75

	PAGE
Unionport . . . . .	76
Westchester Avenue . . . . .	77
<b>BROOKLYN BRIDGES</b> . . . . .	<b>78</b>
Average Daily Traffic Volumes 1948 - 2003 . . . . .	79
Carroll Street . . . . .	81
Cropsey Avenue . . . . .	82
Hamilton Avenue . . . . .	83
Metropolitan Avenue . . . . .	84
Mill Basin . . . . .	85
Ninth Street . . . . .	86
Stillwell Avenue . . . . .	87
Third Avenue . . . . .	88
Third Street . . . . .	89
Union Street . . . . .	90
<b>QUEENS BRIDGES</b> . . . . .	<b>91</b>
Average Daily Traffic Volumes 1948 - 2003 . . . . .	92
Borden Avenue . . . . .	94
Flushing . . . . .	95
Hook Creek . . . . .	96
Hunter's Point . . . . .	97
Little Neck . . . . .	98
Midtown Highway . . . . .	99

	PAGE
North Channel . . . . .	100
Rikers Island . . . . .	101
Roosevelt Avenue . . . . .	102
Roosevelt Island . . . . .	103
Whitestone Expressway . . . . .	104
<b>STATEN ISLAND BRIDGES . . . . .</b>	<b>105</b>
Average Daily Traffic Volumes 1948 - 2003 . . . . .	106
Fresh Kills . . . . .	107
<b>MTA BRIDGES AND TUNNELS FACILITIES . . . . .</b>	<b>108</b>
Average Daily Traffic Volumes 1948 -2003	
Manhattan Facilities . . . . .	109
Outer Borough Facilities . . . . .	110
2003 Hourly Volumes	
Manhattan Facilities . . . . .	111
Outer Borough Facilities . . . . .	112
<b>PORT AUTHORITY OF NEW YORK AND NEW JERSEY FACILITIES . . . . .</b>	<b>113</b>
Average Daily Traffic Volumes 1948 - 2003	
Manhattan Facilities . . . . .	114
Outer Borough Bridges . . . . .	115
2003 Hourly Volumes	
Manhattan Facilities . . . . .	116
Outer Borough Bridges . . . . .	117

# *Introduction*

# INTRODUCTION

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 2003 *New York City Bridge Traffic Volumes* report summarizes vehicular volumes, classification data, and trends for the 47 bridges that cross over water. Volume and trend information also is 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 of automobiles, buses, commuter vans, trucks, and commercial vans for the 7am-7pm time period. A regression analysis of the total daily volumes for each facility for the years 1948-2003 was performed in order to develop trend information. In addition, changes in the traffic volumes for all facilities over the past 55 years are shown in graphical form.

The report presents annual growth rates for each bridge. These growth rates are derived from the linear regression equation, which reflects the best fitting straight line for the data plotted. A more comprehensive analysis of bridges and tunnels serving Manhattan is presented in the *Manhattan River Crossings* report which also is published annually.

The 47 New York City bridges and the MTABT and PANYNJ facilities have been designated a highway functional classification. 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 systems 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*

# SUMMARY

## 2003 Volumes

- In 2003, daily traffic on the 47 bridges operated by the New York City Department of Transportation increased 2.2%, to 2.727 million from 2.667 million in 2002.
- Volumes on the East River bridges continued to rebound from the major decline caused by the events of 9/11/2001, which had severely restricted traffic flow into lower Manhattan. Daily traffic on the four East River bridges rose 5.6%, to 493,400 in fall 2003 from 467,100 in fall 2002. This was only 21,400 fewer daily vehicles using the four East River bridges than the 514,800 that had been recorded three years earlier in fall 2000 (prior to the events of 9/11/2001).
- Daily volume using the nine Harlem River bridges was down slightly (-0.4%), to 549,500 in 2003 from 551,800 in 2002.
- Bridge volumes in the outer boroughs were generally up modestly from 2002 levels. Daily traffic using the four bridges over Newtown Creek between Queens and Brooklyn rose 5.2%, to 275,700 in 2003 from 262,100 in 2002.
- The most heavily used City-operated water crossing in 2003 was the Kosciuszko Bridge, which carried 194,500 daily vehicles across Newtown Creek between the boroughs of Brooklyn and Queens.
- Other high volume bridges were the Whitestone Expressway Bridge in Queens (188,800 daily vehicles), the Queensboro Bridge over the East River between Manhattan and Queens (185,000), the Alexander Hamilton Bridge over the Harlem River between The Bronx and Manhattan (182,700), the Eastern Boulevard Bridge in The Bronx (170,700), the Mill Basin Bridge on the Belt Parkway in Brooklyn (141,200), and the Brooklyn Bridge over the East River between Brooklyn and Manhattan (134,400).

## Major Increases

- On bridges carrying more than 50,000 daily vehicles, the largest percentage increase was on the Unionport Bridge over Westchester Creek in The Bronx (+18.8%).
- On bridges carrying fewer than 50,000 daily vehicles, the Macombs Dam Bridge over the Harlem River between The Bronx and Manhattan had the highest percentage increase (+123.8%). This increase constitutes a return to normal traffic levels; during fall 2002, capacity had been reduced by fifty percent, as one of two lanes in each direction was closed round-the-clock for reconstruction.

## Major Decreases

- On bridges carrying more than 50,000 daily vehicles, the Willis Avenue Bridge over the Harlem River between The Bronx and Manhattan showed the largest percentage decline (-9.2%).
- On bridges carrying fewer than 50,000 daily vehicles, the 145<sup>th</sup> Street Bridge over the Harlem River between The Bronx and Manhattan showed the largest percentage reduction (-35.7%). This decrease constitutes a return to normal traffic levels; during fall 2002, the 145<sup>th</sup> Street

Bridge had carried considerable additional traffic diverted from the nearby Macombs Dam Bridge, where capacity had been reduced by the closure of one of two lanes in each direction for reconstruction.

## **Ten-Year Trends: 1993 - 2003**

- Total bridge traffic increased at an average rate of 1.6% per year during this ten-year period, more than twice as fast as the 0.7% average annual growth rate during the preceding decade. The highest annual growth rates occurred on the Madison Avenue Bridge over the Harlem River between The Bronx and Manhattan (+8.2%), the Pulaski Bridge over Newtown Creek between Brooklyn and Queens (+4.7%), the Hutchinson River Parkway Bridge in The Bronx (+4.3%), the University Heights Bridge over the Harlem River between The Bronx and Manhattan (+4.3%), the Fresh Kills Bridge in Staten Island (+4.2%), and the Westchester Avenue Bridge in The Bronx (+4.1%).
- Traffic on the four toll-free East River bridges increased at an average rate of 0.7% per year, seven times the 0.1% annual growth rate during the preceding decade. The highest growth rate occurred on the Queensboro Bridge, +2.4% per year. Average volume on the Brooklyn and Manhattan Bridges declined, by 1.1% per year and 0.7% per year, respectively.
- Traffic on the nine toll-free Harlem River bridges increased 0.7% per year, the same rate as during the preceding decade. The highest growth rate occurred on the Madison Avenue Bridge, +8.2% per year. Average volume on the Macombs Dam Bridge declined by 2.8% annually.
- On the four bridges over Newtown Creek between Brooklyn and Queens, daily traffic increased 2.0% per year, over three times the 0.6% annual growth rate during the preceding decade. The highest growth rate occurred on the Pulaski Bridge, +4.7% per year.
- Daily volume on the eight bridges in the Bronx increased 3.3% per year, over three times the average growth rate of 1.0% per year during the preceding decade. The fastest individual facility growth rates were recorded on the Hutchinson River Parkway Bridge (+4.3% annually), the Westchester Avenue Bridge (+4.1% annually), the Eastern Boulevard Bridge (+3.9% annually), and the Unionport Bridge (+3.5% annually). Average volume on the Pelham Bridge declined by 2.2% annually.
- Average daily traffic on the ten bridges in Brooklyn increased 1.1% per year, compared to the 1.7% annual growth rate during the preceding ten years. The fastest annual growth rates occurred on the Cropsey Avenue Bridge (+2.6%) and the Third Street Bridge (+2.2%). Average volume on the Ninth Street Bridge declined by 1.4% annually.
- Traffic on the eleven Queens bridges increased 2.1% per year, over four times the 0.5% annual growth rate of the preceding decade. The fastest growth rates occurred on the North Channel Bridge (+3.5% annually), the Whitestone Expressway Bridge (+2.9% annually), and the Midtown Highway Bridge (+2.9% annually). Average volume on the Roosevelt Avenue Bridge declined by 1.9% annually.

## **Historic Trends**

- In 1948, traffic on the City-operated bridges was 924,000 daily trips. By 1968, that figure had more than doubled to 1,912,000. In 2003, it stood at 2,727,000 daily trips, nearly three times the 1948 volume.
- Between 1953 and 1963, bridge traffic increased 3.1% per year on the 44 City bridges open during that time. The highest annual growth rates were on the Unionport Bridge in The Bronx

(+15.9%), the Third Street Bridge in Brooklyn (+13.6%), the Brooklyn Bridge over the East River between Manhattan and Brooklyn (+11.4%), and the Carroll Street Bridge in Brooklyn (+8.9%).

- Between 1963 and 1973, bridge traffic increased 1.8% per year on the 45 City bridges open during that time. The Fresh Kills Bridge in Staten Island had the highest annual growth rate (+11.1%), followed by the Eastchester Bridge in The Bronx (+9.9%), and the Roosevelt Island Bridge in Queens (+9.3%).
- Between 1973 and 1983, total traffic on the 47 City bridges showed an average annual growth rate of 0.9%. The highest individual facility annual growth rates were on the Rikers Island Bridge in Queens (+5.3%), the Borden Avenue Bridge in Queens (+5.1%), the Fresh Kills Bridge in Staten Island (+5.1%), and the Midtown Highway Bridge in Queens (+4.0%).
- Between 1983 and 1993, bridge traffic grew 0.7% per year on the 47 City bridges. The highest annual growth rates were on the Rikers Island Bridge in Queens (+7.2%), the Pelham Bridge in The Bronx (+6.8%), the Greenpoint Avenue Bridge over Newtown Creek between Brooklyn and Queens (+5.4%), and the East 174th Street Bridge in The Bronx (+4.9%).
- 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 had exceeded 125,000 vehicles. As a result, traffic on the Harlem River crossings increased 28% between 1962 and 1965.
- Bridge traffic increased steadily in the late 1960s and by 1971 had reached 2,059,000 vehicles per day. The secular decline in the City's economy and gasoline shortages led to a downward trend between 1971 and 1979. Daily bridge traffic in 1979 was 65,000 below the 1969 level. Thereafter, bridge traffic increased in most years, with 761,000 more daily vehicles crossing the bridges in 2003 than in 1979.

## Major Bridge Reconstruction In 2003

### *Brooklyn Bridge*

Prior to November 17, 2003, non-essential **single-occupant vehicles** were banned from the Manhattan-bound roadway on weekdays between 6:00-10:00 am. This restriction had been imposed following the events of 9/11/2001, and was discontinued as of November 17, 2003.

**Eastbound lane closures** were in effect as follows.

01/01-07/25:	10:00am - 3:00pm	Mon-Fri	1 e/b lane closed intermittently,
	5:00am - 2:00pm	Sat-Sun	1 e/b lane closed intermittently.
07/26-08/29:	1:00am - 6:00am	Mon-Fri	1 e/b lane closed intermittently,
	10:00am - 3:00pm	Mon-Fri	1 e/b lane closed intermittently,
	5:00am - 2:00pm	Sat	1 e/b lane closed intermittently.
08/30-12/31:	10:00am - 3:00pm	Mon-Fri	1 e/b lane closed intermittently,
	6:00am - 2:00pm	Sat	1 e/b lane closed intermittently.

**Westbound lane closures** were in effect as follows.

04/05-04/19:	12:01am - 10:00am	Sat	1 w/b lane closed intermittently.
05/06-05/13:	10:00am - 2:00pm	Tue-Thu	1 w/b lane closed intermittently.
09/19-09/26:	12:01am - 5:00am	Fri	2 w/b lanes closed.

12/01-12/12:	12:01am - 5:00am	Mon-Fri	2 w/b lanes closed intermittently.
12/27-12/31:	11:00pm - 6:00am	Mon-Fri	1 w/b lane closed intermittently,
	1:00am - 7:00am	Sat	1 w/b lane closed intermittently,
	1:00am - 9:00am	Sun	1 w/b lane closed intermittently.

The Brooklyn Bridge was completely **closed Manhattan-bound** for commercial film activity according to the following schedule.

10/05-10/09:	10:00pm - 5:00am	Sun-Thu	Manhattan-bound roadway closed.
10/13-10/15:	10:00pm - 5:00am	Mon-Wed	Manhattan-bound roadway closed.
10/17-10/18:	10:00pm - 5:00am	Fri-Sat	Manhattan-bound roadway closed.
10/21-10/22:	10:00pm - 5:00am	Tue-Wed	Manhattan-bound roadway closed.

*During these times, the reversible Lower Roadway of the Manhattan Bridge was operated westbound to Manhattan to accommodate the detoured traffic.*

One lane on the **Tillary Street entrance** (to Manhattan) was closed as follows.

08/09-10/31:	9:00pm - 5:00am	Sun-Fri	1 lane closed.
12/01-12/12:	9:00pm - 5:00am	All days	1 lane closed intermittently.

Throughout 2003, there were additional intermittent closings of single lanes in both directions on the Brooklyn Bridge during off-peak hours.

## ***Manhattan Bridge***

Prior to November 17, 2003, non-essential **single-occupant vehicles** were banned from the Manhattan-bound roadways on weekdays between 6:00-10:00 am. This restriction had been imposed following the events of 9/11/2001, and was discontinued as of November 17, 2003.

Throughout 2003, **pedestrian and bicycle access** was provided on the south side of the Manhattan Bridge, on an interim roadway.

The **North Upper Roadway**, which had been closed round-the-clock for reconstruction since August 1, 2002, was reopened on June 1, 2003.

As of June 2, 2003, one **Lower Roadway** lane was closed round-the-clock for reconstruction, with a second lane also closed intermittently except 5:00-10:00am and 3:00-9:00pm weekdays.

From November 1 through December 31, 2003, either the **Lower Roadway or South Upper Roadway** was closed intermittently weeknights between 9:00pm and 5:00am for installation of overhead message board structure. Only one of these two roadways was closed at any specific time, leaving two operating traffic lanes in each direction.

### **Manhattan Bridge Operation: January 1 - May 31, 2003**

*North Upper Roadway closed round-the-clock (since 01/08/2002).*

*Manhattan-bound traffic could access westbound Canal Street and northbound Bowery only. No direct access to Chrystie Street or eastbound Canal Street.*

*Brooklyn-bound traffic could access Flatbush Avenue and Jay Street.*

***Commercial traffic permitted on the bridge at all times in both directions, with Brooklyn-bound commercial traffic required to use the South Upper Roadway at all times.***

***Lower Roadway (reversible) lane closures in effect as follows.***

01/01-05/31: 5:00am - 10:00am Mon-Fri No closures.  
3:00pm - 9:00pm Mon-Fri No closures.  
All other times 1 lane closed intermittently.

***Three peak direction lanes on weekdays (5:00-10:00am inbound, 3:00-9:00pm outbound).***

**5:00am - 10:00am Mon - Fri. Jan 1 – May 31.**

- Manhattan-bound: 3 lanes on Lower Roadway.
- Brooklyn-bound: 2 lanes on South Upper Roadway.

**3:00pm - 9:00pm Mon - Fri. Jan 1 – May 31.**

- Manhattan-bound: 2 lanes on Lower Roadway.
- Brooklyn-bound: 3 lanes: 2 lanes on South Upper Roadway,  
1 reversed lane on Lower Roadway for  
passenger cars only.

**All other times. Jan 1 – May 31.**

- Manhattan-bound: 2 lanes on Lower Roadway,  
3rd lane available when work not occurring.
- Brooklyn-bound: 2 lanes on South Upper Roadway.

### **Manhattan Bridge Operation: June 1 - October 31, 2003**

***North Upper Roadway reopened June 1 (had been closed round-the-clock since 01/08/2002).***

***Lower Roadway (reversible) lane closures in effect as follows.***

- 1 of 3 lanes closed round-the-clock.
- 2nd lane closed intermittently except 5:00-10:00am & 3:00-9:00pm weekdays.

***Four peak direction lanes available on weekdays (5:00-10:00am inbound, 3:00-9:00pm outbound).***

**5:00am - 10:00am Mon - Fri. June 1 – Oct 31.**

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

**10:00am - 1:00pm Mon - Fri. June 1 – Oct 31.**

- Manhattan-bound: 3-4 lanes: 2 on North Upper Roadway,  
1 or 2 on Lower Roadway.
- Brooklyn-bound: 2 lanes on South Upper Roadway.

**1:00pm - 3:00pm Mon - Fri. June 1 – Oct 31.**

- Manhattan-bound: 2 lanes on North Upper Roadway.
- Brooklyn-bound: 3-4 lanes: 2 on South Upper Roadway,  
1 or 2 on Lower Roadway.

**3:00pm - 9:00pm Mon - Fri. June 1 – Oct 31.**

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

**6:00am - 6:00pm Sat - Sun. Sep 6-7 only.**

- Manhattan-bound: 4 lanes: 2 on North Upper Roadway,  
2 on Lower Roadway.
- Brooklyn-bound: 2 lanes on South Upper Roadway.  
*Williamsburg Bridge Manhattan-bound capacity reduced to two lanes with trucks restricted these dates/hours.*

**10:00pm - 5:00am. Oct 5-9, 13-15, 17, & 21 only.**

- Manhattan-bound: 4 lanes: 2 on North Upper Roadway,  
2 on Lower Roadway.
- Brooklyn-bound: 2 lanes on South Upper Roadway.  
*Brooklyn Bridge closed Manhattan-bound for commercial film activity these dates/hours.*

**All other times. June 1 – Oct 31.**

- Manhattan-bound: 2 lanes on North Upper Roadway.
- Brooklyn-bound: 3-4 lanes: 2 on South Upper Roadway,  
1 or 2 on Lower Roadway.

**Manhattan Bridge Operation: November 1 - December 31, 2003.**

*South Upper Roadway or Lower Roadway closed intermittently weeknights 9:00pm to 5:00am for installation of overhead message board structure.*

*Lower Roadway (reversible) lane closures in effect as follows.*

- 1 of 3 lanes closed round-the-clock.
- 2nd lane closed intermittently except 5:00-10:00am & 3:00-9:00pm weekdays.

*Four peak direction lanes available on weekdays (5:00-10:00am inbound, 3:00-9:00pm outbound).*

**5:00am - 10:00am Mon - Fri. Nov 1 – Dec 31.**

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

**10:00am - 1:00pm Mon - Fri. Nov 1 – Dec 31.**

- Manhattan-bound: 3-4 lanes: 2 on North Upper Roadway,  
1 or 2 on Lower Roadway.
- Brooklyn-bound: 2 lanes on South Upper Roadway.

**1:00pm - 3:00pm Mon - Fri. Nov 1 – Dec 31.**

- Manhattan-bound: 2 lanes on North Upper Roadway.
- Brooklyn-bound: 3-4 lanes: 2 on South Upper Roadway,  
1 or 2 on Lower Roadway.

**3:00pm - 9:00pm Mon - Fri. Nov 1 – Dec 31.**

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

**9:00pm - 5:00am Mon - Fri. Nov 1 – Dec 31.**

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

*South Upper Roadway or Lower Roadway closed intermittently for installation of overhead message board structure.*

**All other times. Nov 1 – Dec 31.**

- Manhattan-bound: 2 lanes on North Upper Roadway.
- Brooklyn-bound: 3-4 lanes: 2 on South Upper Roadway,  
1 or 2 on Lower Roadway.

Throughout 2003, there were additional intermittent closings of single lanes in both directions on individual roadways of the Manhattan Bridge during off-peak hours.

### ***Queensboro Bridge***

Throughout 2003, **trucks** were permitted only on the two Lower Inner Roadways.

Throughout 2003, a **High Occupancy Vehicle (HOV) facility** was in effect on the Queensboro Bridge. The normally Queens-bound South Upper Roadway was reversed between 6:00am and 10:00am on weekdays to accommodate Manhattan-bound HOVs (no trucks) carrying two or more occupants.

#### **Queensboro Bridge Operation: All of 2003.**

- 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).

Throughout 2003, there were intermittent closings of single lanes on individual roadways of the Queensboro Bridge during off-peak hours. These closings were limited to one lane in each direction.

### ***Williamsburg Bridge***

Prior to November 17, 2003, non-essential **single-occupant vehicles** were banned from the Manhattan-bound roadways on weekdays between 6:00-10:00 am. This restriction had been imposed following the events of 9/11/2001, and was discontinued as of November 17, 2003.

Throughout 2003, **trucks** were permitted only on the outer roadways of the Williamsburg Bridge.



Either the **North Inner Roadway or South Inner Roadway** was closed according to the following schedule.

01/01-05/30	5:00am - 3:00pm	Mon-Fri.
01/01-01/12	6:00am - 6:00pm	Sat-Sun.
02/08	5:00am - 3:00pm	Sat.
04/05-05/03	6:30am - 3:00pm	Sat.

The **North Outer Roadway** was closed according to the following schedule.

09/06-11/24	12:01am - 5:00am	Mon-Fri.	<i>Manhattan-bound trucks detoured to</i>
	1:00am - 6:00am	Sat-Sun.	<i>Manhattan Bridge these hours.</i>
11/15-11/16	1:00am Saturday - 8:00pm Sunday.		<i>Manhattan-bound trucks detoured to the Manhattan Bridge.</i>
12/06-12/07	4:00am Saturday - 8:00pm Sunday.		<i>Manhattan-bound trucks detoured to the Manhattan Bridge.</i>

**One North Inner Roadway lane and one North Outer Roadway lane** were closed round-the-clock according to the following schedule.

09/06-11/24	Round-the-clock	All days.
-------------	-----------------	-----------

The **South Outer Roadway** was closed according to the following schedule.

11/08	7:00am - 8:00pm	Sat.
-------	-----------------	------

*Brooklyn-bound trucks detoured to the Manhattan Bridge.*

Either the **South Inner Roadway or South Outer Roadway** was completely closed according to the following schedule.

05/31-06/13	12:01am - 5:00am	Mon-Fri.	<i>Brooklyn-bound trucks detoured to</i>
	2:00am - 7:00am	Sat-Sun.	<i>the Manhattan Bridge these hours.</i>
06/14-09/05	2:00am - 5:00am	Mon-Fri.	<i>Brooklyn-bound trucks detoured to</i>
	2:00am - 7:00am	Sat-Sun.	<i>the Manhattan Bridge these hours.</i>

**One South Inner Roadway lane and one South Outer Roadway lane** were closed according to the following schedule.

05/31-09/05	Round-the-clock	All days.
-------------	-----------------	-----------

**Williamsburg Bridge Operation: January 1 - May 30, 2003.**

*North Inner Roadway or South Inner Roadway closed as noted.*

*South Inner Roadway reversed to Manhattan-bound as noted.*

*Four peak direction lanes available on weekdays (5:00-10:00am inbound, 3:00-9:00pm outbound).*

**Mon-Fri 5:00am - 3:00pm. Jan 1 - May 30.**

- Manhattan-bound: 4 lanes: 2 North Outer Rdwy,  
2 North Inner, or reversed South Inner Rdwy.
- Brooklyn-bound: 2 lanes: South Outer Rdwy.  
*North Inner or South Inner Roadway closed during these hours.*

**Sat-Sun 6:00am - 6:00pm. Jan 1-12 only.**

- Manhattan-bound: 4 lanes: 2 North Outer Rdwy,  
2 North Inner, or reversed South Inner Rdwy.
- Brooklyn-bound: 2 lanes: South Outer Rdwy.  
*North Inner or South Inner Roadway closed during these hours.*

**Saturday 5:00am - 3:00pm. Feb 8 only.**

- Manhattan-bound: 4 lanes: 2 North Outer Rdwy,  
2 South Inner Rdwy (reversed these hours).
- Brooklyn-bound: 2 lanes: South Outer Rdwy.  
*North Inner Roadway closed during these hours.*

**Saturday 6:30am - 3:00pm. April 5 - May 3 only.**

- Manhattan-bound: 4 lanes: 2 North Outer Rdwy,  
2 South Inner Rdwy (reversed these hours).
- Brooklyn-bound: 2 lanes: South Outer Rdwy.  
*North Inner Roadway closed during these hours.*

**All other times. Jan 1 - May 30.**

- Manhattan-bound: 4 lanes: 2 North Outer Rdwy & 2 North Inner Rdwy.
- Brooklyn-bound: 4 lanes: 2 South Outer Rdwy & 2 South Inner Rdwy.

**Williamsburg Bridge Operation: May 31 – September 5, 2003.**

*One South Inner Roadway lane and one South Outer Roadway lane closed round-the-clock.*

*South Inner or South Outer Roadway completely closed as follows.*

*12:01am-5:00am Mon-Fri May 31-June 13.*

*2:00am-5:00am Mon-Fri June 14-September 5.*

*2:00am-7:00am Sat-Sun May 31-September 5.*

*Brooklyn-bound trucks detoured to Manhattan Bridge during these times.*

*Four peak direction lanes available on weekdays (5:00-10:00am inbound, 3:00-9:00pm outbound).*

**Mon-Fri 12:01am - 5:00am. May 31 - June 13.**

- Manhattan-bound: 4 lanes: 2 North Outer Rdwy, 2 North Inner Rdwy.
- Brooklyn-bound: 1 lane: South Inner or South Outer Rdwy.  
*Brooklyn-bound trucks detoured to Manhattan Bridge during these hours.*

**Mon-Fri 2:00am - 5:00am. June 14 - Sep 5.**

- Manhattan-bound: 4 lanes: 2 North Outer Rdwy, 2 North Inner Rdwy.
- Brooklyn-bound: 1 lane: South Inner or South Outer Rdwy.  
*Brooklyn-bound trucks detoured to Manhattan Bridge during these hours.*

**Mon-Fri 5:00am - 3:00pm. May 31 - July 18.**

- Manhattan-bound: 4 lanes: 2 North Outer Rdwy, 2 North Inner Rdwy.
- Brooklyn-bound: 2 lanes: 1 South Outer Rdwy, 1 South Inner Rdwy.

**Mon-Fri 5:00am - 10:00am. July 19 - Sep 5.**

- Manhattan-bound: 4 lanes: 2 North Outer Rdwy, 2 North Inner Rdwy.
- Brooklyn-bound: 2 lanes: 1 South Outer Rdwy, 1 South Inner Rdwy.

**Mon-Fri 10:00am - 3:00pm. July 19 - Sep 5.**

Manhattan-bound: 3-4 lanes: 1-2 North Outer Rdwy, 1-2 North Inner Rdwy.

Brooklyn-bound: 2 lanes: 1 South Outer Rdwy, 1 South Inner Rdwy.  
*1 lane closed intermittently on westbound North Outer or North Inner Rdwy.*

**Mon-Fri 3:00pm - midnight. May 31 - June 13.**

Manhattan-bound: 2 lanes: North Outer Rdwy.

Brooklyn-bound: 4 lanes: 1 South Outer Rdwy, 1 South Inner Rdwy,  
2 North Inner Rdwy reversed these hours.

**Mon-Fri 3:00pm – 2:00am. June 14 - Sep 5.**

Manhattan-bound: 2 lanes: North Outer Rdwy.

Brooklyn-bound: 4 lanes: 1 South Outer Rdwy, 1 South Inner Rdwy,  
2 North Inner Rdwy reversed these hours.

**Sat-Sun 2:00am - 7:00am. May 31 - Sep 5.**

Manhattan-bound: 4 lanes: 2 North Outer Rdwy, 2 North Inner Rdwy.

Brooklyn-bound: 1 lane: South Inner or South Outer Rdwy.  
*Brooklyn-bound trucks detoured to Manhattan Bridge during these hours.*

**Sat-Sun 7:00am - 3:00pm. May 31 - Sep 5.**

Manhattan-bound: 4 lanes: 2 North Outer Rdwy, 2 North Inner Rdwy.

Brooklyn-bound: 2 lanes: 1 South Outer Rdwy, 1 South Inner Rdwy.

**Sat-Sun 3:00pm - 2:00am. May 31 - Sep 5.**

Manhattan-bound: 2 lanes: North Outer Rdwy.

Brooklyn-bound: 4 lanes: 1 South Outer Rdwy, 1 South Inner Rdwy,  
2 North Inner Rdwy reversed these hours.

**Williamsburg Bridge Operation: September 6 – November 23, 2003.**

*One North Inner Roadway lane and one North Outer Roadway lane closed round-the-clock.*

*One additional westbound lane closed intermittently 10:00am-3:00pm weekdays.*

*Manhattan-bound trucks banned from the bridge round-the-clock.*

*North Outer roadway completely closed as follows.*

09/06-11/24 12:01am-5:00am Mon-Fri,  
1:00am-6:00am Sat-Sun.

11/15-11/16 1:00am Sat. – 8:00pm Sun.

*South Outer roadway completely closed as follows.*

11/08 7:00am-8:00pm Sat.

*Brooklyn-bound trucks banned from the bridge.*

*Four peak direction lanes available on weekdays (5:00-10:00am inbound, 3:00-9:00pm outbound).*

**4:00am Sat – 5:00am Mon. Sep 6-8 only.**

Manhattan-bound: 2 lanes.

Brooklyn-bound: 2 lanes.

*Trucks restricted in both directions during this weekend time.*

**4:00am Sat – 8:00pm Sun. Oct 11 – Nov 2 only.**

Manhattan-bound: 2 lanes. *Trucks restricted in both directions*  
Brooklyn-bound: 2 lanes. *during these weekend times.*

**7:00am – 8:00pm Sat. Nov 8 only.**

Manhattan-bound: 2 lanes. *S. Outer Rdwy closed and Brooklyn-*  
Brooklyn-bound: 2 lanes. *bound trucks banned from the bridge.*

**1:00am Sat – 8:00pm Sun. Nov 15-16 only.**

Manhattan-bound: 3 lanes. *N. Outer Rdwy closed and S. Inner*  
Brooklyn-bound: 2 lanes. *Rdwy operated Manhattan-bound.*

**Mon-Fri 12:01am - 5:00am. Sep 6 – Nov 23.**

Manhattan-bound: 3 lanes: 1 North Inner Rdwy, 2 South Inner Rdwy  
reversed these hours.  
Brooklyn-bound: 2 lanes: South Outer Rdwy.  
*North Outer Roadway closed.*

**Mon-Fri 5:00am -10:00am. Sep 6 – Nov 23.**

Manhattan-bound: 4 lanes: 1 North Outer Rdwy, 1 North Inner Rdwy,  
2 South Inner Rdwy reversed these hours.  
Brooklyn-bound: 2 lanes: South Outer Rdwy.

**Mon-Fri 10:00am - 3:00pm. Sep 6 – Nov 23.**

Manhattan-bound: 3-4 lanes: 0-1 North Outer Rdwy, 0-1 North Inner,  
1-2 South Inner Rdwy reversed these hours.  
Brooklyn-bound: 2 lanes: South Outer Rdwy.  
*One of four Manhattan-bound lanes closed intermittently these hours.*

**Mon-Fri 3:00pm - Midnight. Sep 6 – Nov 23.**

Manhattan-bound: 2 lanes: 1 North Outer Rdwy, 1 North Inner Rdwy.  
Brooklyn-bound: 4 lanes: 2 South Outer Rdwy, 2 South Inner Rdwy.

**Sat-Sun 1:00am - 6:00am. Sep 6 – Nov 23.**

Manhattan-bound: 3 lanes: 1 North Inner Rdwy, 2 South Inner Rdwy  
reversed these hours.  
Brooklyn-bound: 2 lanes: South Outer Rdwy.  
*North Outer Roadway closed.*

**Sat-Sun 6:00am - 3:00pm. Sep 6 – Nov 23.**

Manhattan-bound: 4 lanes: 1 North Outer Rdwy, 1 North Inner Rdwy,  
2 South Inner Rdwy reversed these hours.  
Brooklyn-bound: 2 lanes: South Outer Rdwy.

**Sat-Sun 3:00pm - 1:00am. Sep 6 – Nov 23.**

Manhattan-bound: 2 lanes: 1 North Outer Rdwy, 1 North Inner Rdwy.  
Brooklyn-bound: 4 lanes: 2 South Outer Rdwy, 2 South Inner Rdwy.

**Williamsburg Bridge Operation: November 24 – December 31, 2003.**

*North Outer roadway completely closed as follows.*

12/06-12/07 4:00am Saturday - 8:00pm Sunday.  
*Manhattan-bound trucks banned from the bridge.*

***Four peak direction lanes available on weekdays (5:00-10:00am inbound, 3:00-9:00pm outbound).***

**4:00am Sat – 8:00pm Sun. Dec 6-7 only.**

Manhattan-bound: 2 lanes.

Brooklyn-bound: 4 lanes.

*North Outer Roadway closed, and Manhattan-bound trucks banned from the bridge.*

**Mon-Fri 12:01am - 5:00am. Nov 24 – Dec 31.**

Manhattan-bound: 3 lanes.

Brooklyn-bound: 3 lanes.

*One lane closed in each direction.*

**Mon-Fri 5:00am - 3:00pm. Nov 24 – Dec 31.**

Manhattan-bound: 4 lanes.

Brooklyn-bound: 2 lanes.

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

**Mon-Fri 3:00pm - Midnight. Nov 24 – Dec 31.**

Manhattan-bound: 2 lanes.

Brooklyn-bound: 4 lanes.

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

**Sat-Sun 1:00am - 8:00am. Nov 24 – Dec 31.**

Manhattan-bound: 3 lanes.

Brooklyn-bound: 3 lanes.

*One lane closed in each direction.*

**All other times.**

**Nov 24 – Dec 31.**

Manhattan-bound: 4 lanes.

Brooklyn-bound: 4 lanes.

## ***Broadway Bridge***

As of May 3, one of three lanes in each direction on the Broadway Bridge was closed round-the-clock.

From 6:00am Saturday, July 19, to 5:00am Monday, July 21, two of three lanes in each direction were closed.

## ***Macombs Dam Bridge***

From January 1 to April 4, one of two lanes in each direction on the Macombs Dam Bridge and the 155<sup>th</sup> Street viaduct was closed round-the-clock. In addition, the ramp from southbound Major Deegan Expressway to the bridge (Exit 5), and the ramp from the bridge to southbound Major Deegan Expressway, were also closed. Access to/from the bridge via Adam Clayton Powell, Jr. Boulevard and Macombs Place was also closed.

In addition, there were intermittent closures of one of two lanes in each direction on the Macombs Dam Bridge and the 155<sup>th</sup> Street viaduct according to the following schedule.

04/05-08/15: 10:00am - 3:00pm Mon-Fri.

10:00pm - 6:00am Mon-Fri.

*No closures within two hours of the start or end of Yankee home games.*

08/16-12/31:	10:00am - 3:00pm	Mon-Fri.
	10:00pm - 6:00am	Mon-Fri.
	12:01am - 8:00am	Sat.
	1:00am - 9:00am	Sun.

*No closures within two hours of the start or end of Yankee home games.*

The Macombs Dam Bridge was completely closed according to the following schedule.

07/27:	1:00am - 9:00am	Sun.
08/01-08/05:	12:01am - 5:00am	Fri, Mon, Tue.
	1:00am - 6:00am	Sat, Sun.
11/13:	11:00pm - 5:00am	Thu.
11/17-11/20:	11:00pm - 5:00am	Mon-Thu.
11/22:	1:00am - 7:00am	Sat.
11/24-11/25:	11:00pm - 5:00am	Mon-Tue.
12/09-12/22:	12:01am - 5:00am	Mon-Fri.
	1:00am - 6:00am	Sat.

### ***Madison Avenue Bridge***

Throughout 2003, there were intermittent weekday closings of one of the two Manhattan-bound lanes between 9:30am and 3:00pm, and one of the two Bronx-bound lanes between 8:00am and 3:00pm. There were no lane closures during New York Yankee home games.

The Madison Avenue Bridge was completely closed according to the following schedule.

06/03-06/10:	11:00pm - 5:00am	Mon-Fri.
	12:01am - 6:00am	Sat-Sun.
06/23-06/27:	11:00pm - 5:00am	Mon-Fri.
07/28-07/31:	11:00pm - 5:00am	Mon-Thu.
08/11-08/14:	11:00pm - 5:00am	Mon-Thu.

### ***Third Avenue Bridge (Harlem River)***

Throughout 2003, two of the four Manhattan-bound lanes were closed for long term bridge rehabilitation.

*During this period, on weekdays between 6:00-10:00am, and from 10:00pm to 2:00am following Yankee home games, Manhattan-bound passenger cars were accommodated in a reverse lane on the Willis Avenue Bridge.*

An additional lane on the bridge was also closed intermittently according to the following schedule, leaving only one operational lane.

08/21-08/22:	12:01am - 5:00am	Thu-Fri.	3 <sup>rd</sup> lane closed intermittently.
--------------	------------------	----------	---

From January 1 to April 13, the bridge entrance from Bruckner Boulevard was closed.

As of April 14, the bridge entrance from Third Avenue was closed.

The Third Avenue Bridge was completely closed according to the following schedule.

01/26:	1:00am - 8:00am	Sun.
02/09:	1:00am - 8:00am	Sun.
06/15:	1:00am - 8:00am	Sun.
08/24:	2:00am - 6:00am	Sun.

On June 11, the Second Avenue exit from the bridge was closed between 11:00am and 3:00pm, with traffic routed to the Lexington Avenue exit.

### ***Washington Bridge***

Intermittent lane closures were in effect according to the following schedule.

05/24-12/31:	7:00am - 3:00pm	Mon-Fri	1 of 3 westbound lanes closed intermittently.
	9:00am - 3:00pm	Mon-Fri	1 of 3 eastbound lanes closed intermittently.
	6:00am - 2:00pm	Sat-Sun	1 of 3 lanes in each direction closed intermittently.

### ***Willis Avenue Bridge***

Throughout 2003, one lane was reversed to Manhattan-bound between 6:00-10:00am weekdays, and from 10:00pm to 2:00am following Yankee home games, to accommodate traffic (passenger cars only) from the Third Avenue Bridge reconstruction. Direct access to the reversal lane was available from southbound Major Deegan Expressway (Exit 2), and from local streets via East 134<sup>th</sup> Street. Passenger cars using the reversal lane exited at First Avenue and 125<sup>th</sup> Street in Manhattan, and could turn left for access to southbound FDR Drive, or right for access to local streets.. During these hours, there were two Bronx-bound lanes open (one lane from the First Avenue approach and one lane from the FDR Drive approach).

Throughout 2003, there were intermittent weekday closures of one of two lanes from the First Avenue and FDR Drive approaches between 12:01am and 5:00am.

### ***145<sup>th</sup> Street Bridge***

There were intermittent closures of one of two lanes in each direction as follows.

08/02-12/31:	9:30am - 3:00pm	Mon-Fri.
	6:00am - 2:00pm	Sat.

*There were no lane closures during Yankee home games.*

### ***Kosciuszko Bridge***

Throughout 2003, lane closures were in effect on the Brooklyn-Queens Expressway in the vicinity of the bridge according to the following schedule.

12:01am - 5:00am	Mon-Fri	2 lanes each way closed.
1:00am - 6:00am	Sat	2 lanes each way closed.
1:00am - 8:00am	Sun	2 lanes each way closed.

Throughout 2003, there were additional intermittent closures of single lanes in either direction on the Brooklyn-Queens Expressway in the vicinity of the Kosciuszko Bridge during off-peak hours.

### ***Pulaski Bridge***

From October 11 to October 31, there were intermittent closures of single lanes in either direction during off-peak hours.

### ***Eastern Boulevard Bridge***

Lane closures were in effect on the main roadway of the Eastern Boulevard Bridge (Bruckner Expressway) according to the following schedule.

01/04-12/31: 10:00am - 3:00pm Mon-Fri 1 lane each way closed as needed.

### ***Unionport Bridge***

There is a permanent one-lane closure on the eastbound service road from the northbound Bruckner Expressway exit ramp to the Unionport Bridge.

### ***Carroll Street Bridge***

The Carroll Street Bridge was closed from June 28 to August 30, 2003.

### ***Hamilton Avenue Bridge***

Throughout 2003, there were intermittent closures of single lanes in both directions during off-peak hours.

### ***Mill Basin Bridge***

Lane closures were in effect on the Mill Basin Bridge according to the following schedule.

03/01-04/18:	10:00am - 3:00pm	Mon-Fri	1 w/b lane closed intermittently.
	10:00am - 2:00pm	Mon-Fri	1 e/b lane closed intermittently.
	10:00pm - 5:00am	Mon-Fri	1 lane closed intermittently each way.
	10:00pm Fri - 6:00am Sat		1 w/b lane closed intermittently.
	10:00pm Sat - 8:00am Sun		1 w/b lane closed intermittently.
	11:00pm Fri - 7:00am Sat		1 e/b lane closed intermittently.
	11:00pm Sat - 8:00am Sun		1 e/b lane closed intermittently.
	11:00pm - 5:00am	Mon-Fri	2 lanes closed intermittently each way.
	1:00am - 6:00am	Sat	2 lanes closed intermittently each way.
	2:00am - 9:00am	Sun	2 w/b lanes closed intermittently.
	2:00am - 8:00am	Sun	2 e/b lanes closed intermittently.



### ***Borden Avenue Bridge***

The Borden Avenue Bridge was completely closed in both directions according to the following schedule.

11/21-11/24: 10:00pm Fri - 5:00am Mon.

12/05-12/08: 10:00pm Fri - 5:00am Mon.

### ***Roosevelt Island Bridge***

From August 30 to December 31, only one lane was maintained in each direction daily from 10:00am to 3:00pm, and from 7:00pm to 6:00am.

### ***Whitestone Expressway Bridge***

Lane closures were in effect on the Whitestone Expressway between the Whitestone Expressway Bridge and the Bronx-Whitestone Bridge according to the following schedule.

02/15-12/31:	10:00am - 3:00pm	Mon-Fri	1 lane closed intermittently each way.
	10:00pm - 5:00am	Mon-Fri	1 lane closed intermittently each way.
	10:00pm Fri - 6:00am Sat		1 lane closed intermittently each way.
	10:00pm Sat - 11:00am Sun		1 lane closed intermittently each way.
	1:00am - 5:00am	Tue-Fri	2 lanes closed intermittently each way.
	1:00am - 6:00am	Sat	2 lanes closed intermittently each way.
	2:00am - 9:00am	Sun	2 lanes closed intermittently each way.

### ***Brooklyn-Battery Tunnel***

Prior to November 17, 2003, non-essential **single-occupant vehicles** were banned from entering Manhattan via the Brooklyn-Battery Tunnel on weekdays between 6:00-10:00 am. This restriction had been imposed following the events of 9/11/2001, and was discontinued as of November 17, 2003.

Throughout 2003, the inbound **exit to Trinity Place** was closed weekdays between 6:00-10:00am, and between 3:00-7:00pm, in conjunction with the Church Street Transitway.

One of the two tubes was completely closed according to the following schedule.

07/13-08/22: 9:00pm - 6:00am Sunday nights to Friday mornings.  
*Two-way traffic was maintained in the other tube.*

08/23-12/31: 9:00pm - 5:00am Sunday nights to Friday mornings.  
*Two-way traffic was maintained in the other tube.*

11/15-11/17: 12:01am Saturday - 5:00am Monday.  
*Two-way traffic was maintained in the other tube.*

Throughout 2003, a northbound (Manhattan-bound) contra-flow **HOV lane** was provided on the Gowanus Expressway **between 92<sup>nd</sup> and 65<sup>th</sup> Streets** on weekdays from 6:00-10:00 am for buses, and for passenger cars with three or more persons, exiting the Upper Roadway of the Verrazano-Narrows Bridge. During these hours, there were three lanes

northbound (inbound) and two lanes southbound (outbound) on this section of the Gowanus Expressway.

Throughout 2003, the Gowanus Expressway Manhattan-bound contra-flow **HOV lane between Belt Parkway and Gowanus Canal** was in effect on weekdays from 6:00-10:00 am, with access to the Brooklyn-Battery Tunnel only. This lane was available to buses, and to passenger cars with three or more persons equipped with *EZ-Pass*. During these hours, there were two lanes southbound (outbound) on this section of the Gowanus Expressway. In order to accommodate this special HOV lane, the outbound Gowanus Expressway entrance ramp from Third Avenue/Prospect Avenue was closed between 5:00-11:00am.

Throughout 2003, from 6:00-10:00am on weekdays, a Manhattan-bound contra-flow **bus lane** was also provided from the Prospect Expressway. The ramp from the outbound Gowanus Expressway to the outbound Prospect Expressway was closed from 5:00-6:00am, and from 10:00-11:00am, and was reversed from 6:00-10:00am. This Prospect Expressway priority bus lane runs parallel to the Gowanus Expressway contra-flow HOV lane from the Prospect/Gowanus interchange to the Brooklyn-Battery Tunnel.

### ***Henry Hudson Bridge***

**Northbound** (upper level) lane closures were in effect during 2003 according to the following schedule.

All of 2003: Round-the-clock All days 1 of 3 northbound lanes closed.

**Southbound** (lower level) lane closures were in effect during 2003 according to the following schedule.

All of 2003: Round-the-clock All days 1 of 4 southbound lanes closed.

11/17-11/18: 10:00am - 3:00pm Mon-Tue 2 of 4 southbound lanes closed.

From February 1 to December 31, there were intermittent closures of one or two lanes in each direction on the Henry Hudson Parkway south of the Henry Hudson Bridge, between West 179<sup>th</sup> and Dyckman Streets, during off-peak hours.

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

One of the two tubes was completely closed according to the following schedule.

11/01-11/09: 11:30pm - 1:00pm Saturday night to Sunday afternoon.  
*Two-way traffic maintained in the other tube.*

11/03-11/04: 9:30pm - 5:00am Monday night to Tuesday morning.  
*Two-way traffic maintained in the other tube.*

### ***Triborough Bridge***

Lane closures were in effect on the Triborough Bridge according to the following schedule.

All of 2003: All hours All days 1 lane closed round-the-clock.  
*4 lanes maintained during peak hours, 3 lanes off-peak.*

11/08-12/31: 7:00am Monday - 2:30pm Friday  
One lane closed on the Harlem River lift span leaving Manhattan for Queens/Bronx.

11/08-12/31: 10:00am - 2:30pm Mon-Fri 1 Manhattan-bound lane closed.

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

Lane closures were in effect on the Bronx-Whitestone Bridge according to the following schedule.

01/01-04/11: 10:00am - 3:00pm Mon-Fri 1 lane closed in each direction.

04/12-04/16: All hours Mon-Fri 1 Bronx-bound lane closed.

11:00pm - 5:00am Sat-Sun 2 Bronx-bound lanes closed.

Lane closures were in effect on the Whitestone Expressway (in Queens, just south of the Bronx-Whitestone Bridge) according to the following schedule.

02/15-12/31: 10:00am - 3:00pm Mon-Fri 1 lane closed intermittently each way.

10:00pm - 5:00am Mon-Fri 1 lane closed intermittently each way.

10:00pm Fri - 6:00am Sat 1 lane closed intermittently each way.

10:00pm Sat - 11:00am Sun 1 lane closed intermittently each way.

1:00am - 5:00am Tue-Fri 2 lanes closed intermittently each way.

1:00am - 6:00am Sat 2 lanes closed intermittently each way.

2:00am - 9:00am Sun 2 lanes closed intermittently each way.

Throughout 2003, there were additional intermittent closures of single lanes on the Bronx-Whitestone Bridge during off-peak hours.

### ***Marine Parkway Bridge***

Throughout 2003, one lane in each direction was closed round-the-clock, and wide loads were prohibited from the bridge.

### ***Throgs Neck Bridge***

Lane closures were in effect on the southbound (eastbound) Cross Island Parkway between 14<sup>th</sup> Avenue and the Throgs Neck Bridge according to the following schedule.

07/19-07/25: 10:00pm - 5:00am Sun-Fri 2 southbound/eastbound lanes closed.

07/26-08/22: 11:00pm - 5:00am Sun-Fri 2 southbound/eastbound lanes closed.

Throughout 2003, there were also intermittent closures of single lanes on the Throgs Neck Bridge during off-peak hours.

### ***Verrazano-Narrows Bridge***

Throughout 2003, **trucks** were required to use the upper level.

**Eastbound lane closures** were in effect on the Verrazano-Narrows Bridge according to the following schedule.

01/01-04/25:	10:00am - 3:00pm	Mon-Fri	2 e/b lanes closed, one each level.
04/26-06/20:	Round-the-clock	All days	1 e/b lane closed, upper level.
06/24-12/05:	Round-the-clock	All days	1 e/b lane closed, lower level.

**Westbound lane closures** were in effect on the Verrazano-Narrows Bridge according to the following schedule.

01/01-11/21:	Round-the-clock	All days	1 w/b lane closed, lower level.
--------------	-----------------	----------	---------------------------------

Throughout 2003, there were also intermittent closures of single lanes on the Verrazano-Narrows Bridge roadways during off-peak hours.

### ***George Washington Bridge***

Throughout 2003, **trucks** were required to use the upper level.

Roadway closures were in effect according to the following schedule.

06/07:	12:01am - 8:00am	Sat	Westbound Upper Level closed, Eastbound Lower Level closed.
--------	------------------	-----	--

Throughout 2003, there were also intermittent closures of single lanes on the various George Washington Bridge roadways and ramps during off-peak hours.

### ***Holland Tunnel***

Prior to November 17, 2003, non-essential **single-occupant vehicles** were banned from the Manhattan-bound tube on weekdays between 6:00-10:00 am. This restriction had been imposed following the events of 9/11/2001, and was discontinued as of November 17, 2003.

Throughout 2003, two-axle and three-axle single unit trucks were permitted eastbound to Manhattan. Tractor trailers, and single unit trucks with more than three axles, were not permitted.

From January 1 to July 6, the tunnel was open westbound to New Jersey for passenger cars and buses only.

As of July 7, the tunnel was also open westbound to New Jersey for two-axle and three-axle single unit trucks. Tractor trailers, and single unit trucks with more than three axles, were not permitted.

Eastbound (to Manhattan) lane closures were in effect in the Holland Tunnel according to the following schedule.

02/08-08/31:	10:00pm - 5:00am	Mon-Fri.	1 e/b lane closed.
	11:59pm Fri - 7:00am Sat.		1 e/b lane closed.

Westbound (to New Jersey) lane closures were in effect in the Holland Tunnel according to the following schedule.

07/13-12/31:	11:00pm - 5:00am	Sun-Fri.	1 w/b lane closed intermittently.
--------------	------------------	----------	-----------------------------------

## ***Lincoln Tunnel***

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

01/01-01/10:	11:00pm - 5:00am	Mon-Fri,	<i>Two tubes open, providing two traffic lanes in each direction.</i>
	12:30am - 8:00am	Sat-Sun.	
01/11-12/31:	11:00pm - 5:00am	Sun-Wed,	<i>Two tubes open, providing two traffic lanes in each direction.</i>
	1:00am - 9:00am	Sat-Sun.	

## ***Bayonne Bridge***

Throughout 2003, one lane in each direction was closed intermittently on weekdays between 7:00am and 4:00pm.

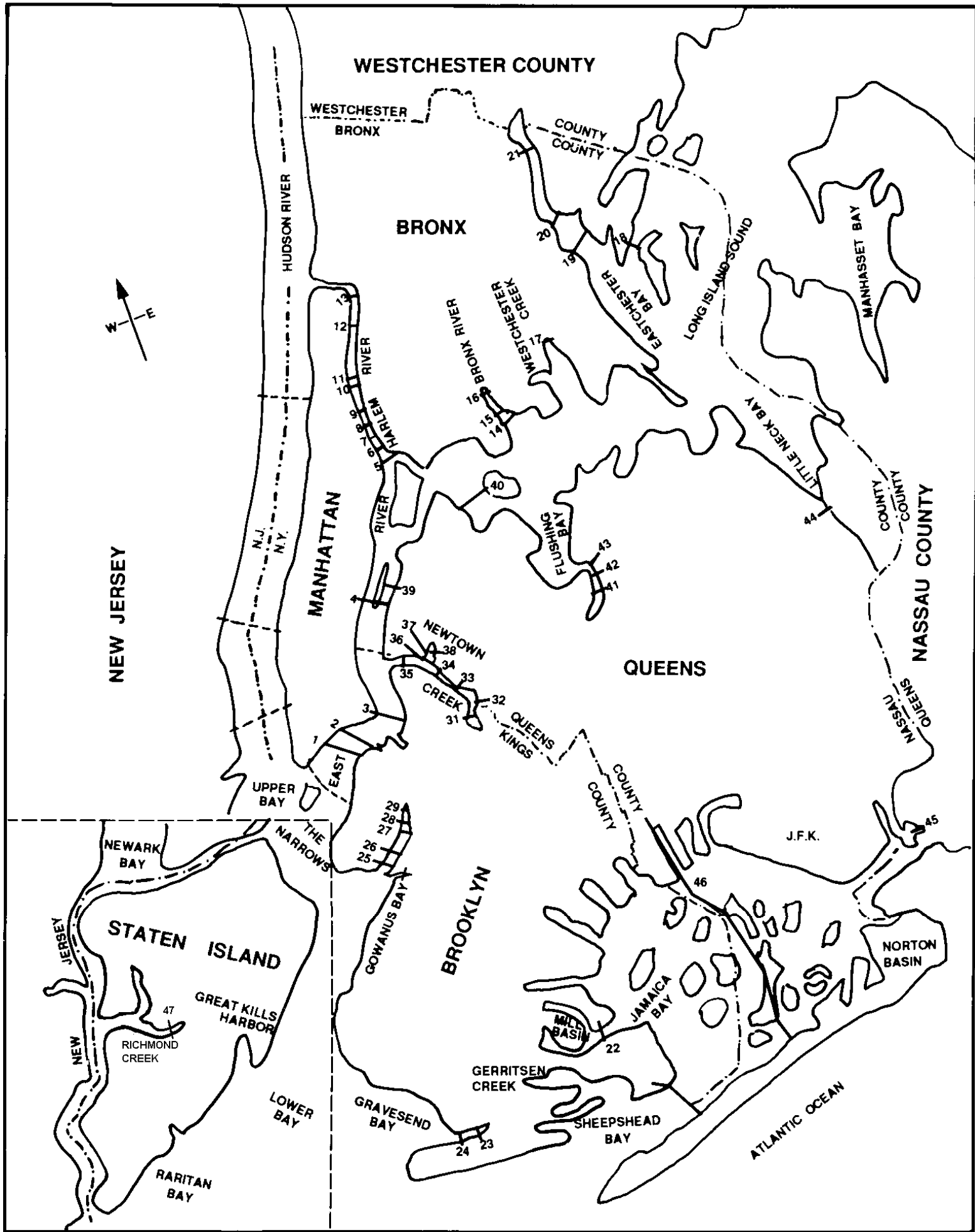
## ***Goethals Bridge***

Throughout 2003, the pedestrian walk was closed.

Throughout 2003, one lane in each direction was closed intermittently during off-peak hours.

## Bridges Maintained by the New York City Department of Transportation

Number	Bridge Name	Borough	Water Crossing
1	Brooklyn Bridge	Manhattan-Brooklyn	East River
2	Manhattan Bridge	Manhattan-Brooklyn	East River
3	Williamsburg Bridge	Manhattan-Brooklyn	East River
4	Queensboro Bridge	Manhattan-Queens	East River
5	Willis Avenue Bridge	Manhattan-Bronx	Harlem River
6	Third Avenue Bridge	Manhattan-Bronx	Harlem River
7	Madison Avenue Bridge	Manhattan-Bronx	Harlem River
8	145th Street Bridge	Manhattan-Bronx	Harlem River
9	Macombs Dam Bridge	Manhattan-Bronx	Harlem River
10	Alexander Hamilton Bridge	Manhattan-Bronx	Harlem River
11	Washington Bridge	Manhattan-Bronx	Harlem River
12	University Heights Bridge	Manhattan-Bronx	Harlem River
13	Broadway Bridge	Manhattan-Bronx	Harlem River
14	Eastern Boulevard Bridge	Bronx	Bronx River
15	Westchester Avenue Bridge	Bronx	Bronx River
16	East 174th Street Bridge	Bronx	Bronx River
17	Unionport Bridge	Bronx	Westchester Creek
18	City Island Bridge	Bronx	Pelham Bay Narrows
19	Pelham Bridge	Bronx	Eastchester Creek
20	Hutchinson River Parkway Bridge	Bronx	Eastchester Creek
21	Eastchester Bridge	Bronx	Eastchester Creek
22	Mill Basin Bridge	Brooklyn	Mill Basin
23	Stillwell Avenue Bridge	Brooklyn	Coney Island Creek
24	Cropsey Avenue Bridge	Brooklyn	Coney Island Creek
25	Hamilton Avenue Bridge	Brooklyn	Gowanus Canal
26	Ninth Street Bridge	Brooklyn	Gowanus Canal
27	Third Street Bridge	Brooklyn	Gowanus Canal
28	Carroll Street Bridge	Brooklyn	Gowanus Canal
29	Union Street Bridge	Brooklyn	Gowanus Canal
30	Third Avenue Bridge	Brooklyn	Fifth Street Basin
31	Metropolitan Avenue Bridge	Brooklyn	English Kills
32	Grand Street Bridge	Brooklyn-Queens	Newtown Creek
33	Kosciuszko Bridge	Brooklyn-Queens	Newtown Creek
34	Greenpoint Avenue Bridge	Brooklyn-Queens	Newtown Creek
35	Pulaski Bridge	Brooklyn-Queens	Newtown Creek
36	Borden Avenue Bridge	Queens	Dutch Kills
37	Midtown Highway Bridge	Queens	Dutch Kills
38	Hunters Point Avenue Bridge	Queens	Dutch Kills
39	Roosevelt Island Bridge	Queens	East River East Channel
40	Rikers Island Bridge	Queens	Rikers Island Channel
41	Roosevelt Avenue Bridge	Queens	Flushing River
42	Flushing Bridge	Queens	Flushing Channel
43	Whitestone Expressway Bridge	Queens	Flushing Channel
44	Little Neck Bridge	Queens	Alley Creek
45	Hook Creek Bridge	Queens	Hook Creek
46	North Channel Bridge	Queens	Jamaica Bay
47	Fresh Kills Bridge	Staten Island	Richmond Creek



**Total NYC Toll Free Bridges  
Average Daily Traffic Volumes  
1948 - 2003**

<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



**Total NYC Toll Free Bridges (cont'd)**  
**Average Daily Traffic Volumes**  
**1948 - 2003**

<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

**NYC Tolled Facilities**  
**Average Daily Traffic Volumes**  
**1948 - 2003**

<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

PANYNJ one-way tolls initiated 8/12/1970

PANYNJ toll increases May 1975, January 1984, April 1987, April 1991, March 2001

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.

**N.Y.C. Bridges 2003**  
**7am-7pm Vehicle Classification**  
**Both Directions**  
**page 1 of 2**

<b>EAST RIVER BRIDGES</b>	<b>Autos</b>	<b>Buses</b>	<b>Commuter</b>		<b>Commercial</b>		<b>Total</b>
			<b>Vans</b>	<b>Trucks</b>	<b>Vans</b>		
Brooklyn	73,192	253	2,814	49	3,088		79,396
Manhattan	20,773	1,060	4,350	10,419	7,344		43,946
Queensboro	83,970	2,316	5,909	5,875	10,299		108,369
Williamsburg	39,214	1,121	9,392	6,048	4,851		60,626
<b>Total East River</b>	<b>217,149</b>	<b>4,750</b>	<b>22,465</b>	<b>22,391</b>	<b>25,582</b>		<b>292,337</b>

**HARLEM RIVER BRIDGES**

Alexander Hamilton	91,833	287	2,484	16,000	3,449		114,053
Broadway	23,802	753	396	726	897		26,574
Macombs Dam	24,497	373	307	1,212	2,154		28,543
Madison Avenue	23,159	1,303	1,081	1,302	1,716		28,561
Third Avenue	20,103	514	1,627	1,901	1,785		25,930
University Heights	28,926	379	989	1,101	1,763		33,158
Washington	37,036	1,097	986	1,243	1,717		42,079
Willis Avenue	33,972	659	1,092	2,365	2,770		40,858
145th Street	13,454	397	540	725	641		15,757
<b>Total Harlem River</b>	<b>296,782</b>	<b>5,762</b>	<b>9,502</b>	<b>26,575</b>	<b>16,892</b>		<b>355,513</b>

**BROOKLYN-QUEENS BRIDGES**

Grand Street	7,634	215	392	1,942	552		10,735
Greenpoint Avenue	15,125	247	781	3,834	1,640		21,627
Kosciuszko	102,425	436	2,086	9,178	7,529		121,654
Pulaski	20,517	360	809	3,648	2,761		28,095
<b>Total Brooklyn-Queens</b>	<b>145,701</b>	<b>1,258</b>	<b>4,068</b>	<b>18,602</b>	<b>12,482</b>		<b>182,111</b>

**BRONX BRIDGES**

City Island	9,257	151	111	203	475		10,197
East 174th Street	9,372	549	302	357	492		11,072
Eastchester	16,207	297	165	1,182	663		18,514
Eastern Boulevard	104,318	1,261	1,563	6,276	3,580		116,998
Hutchinson River Pky	79,561	67	1,027	1,465	1,603		83,723
Pelham	10,907	248	155	508	519		12,337
Unionport	38,802	575	513	2,251	1,596		43,737
Westchester Avenue	18,650	850	122	538	922		21,082
<b>Total Bronx</b>	<b>287,074</b>	<b>3,998</b>	<b>3,958</b>	<b>12,780</b>	<b>9,850</b>		<b>317,660</b>

East River bridges based on 1996 classification data:  
All other bridges based on 1989 classification data:

**N.Y.C. Bridges 2003**  
**7am-7pm Vehicle Classification**  
**Both Directions**  
**page 2 of 2**

<b>BROOKLYN BRIDGES</b>	<b>Autos</b>	<b>Buses</b>	<b>Commuter</b>		<b>Commercial</b>		<b>Total</b>
			<b>Vans</b>	<b>Trucks</b>	<b>Vans</b>	<b>Trucks</b>	
Carroll Street	478	3	87	186	166		920
Cropsey Avenue	21,171	1,232	28	1,074	1,458		24,963
Hamilton Avenue	32,358	606	1,394	4,777	4,019		43,154
Metropolitan Avenue	21,264	491	890	4,050	1,866		28,561
Mill Basin	90,252	611	292	1,393	4,169		96,717
Ninth Street	5,311	320	112	810	427		6,980
Stillwell Avenue	6,131	635	0	1,213	0		7,979
Third Avenue	11,959	192	5	1,464	1,206		14,826
Third Street	6,838	84	138	571	481		8,112
Union Street	3,189	52	0	240	284		3,765
<b>Total Brooklyn</b>	<b>198,951</b>	<b>4,226</b>	<b>2,946</b>	<b>15,778</b>	<b>14,076</b>		<b>235,977</b>

**QUEENS BRIDGES**

Borden Avenue	9,061	245	230	1,588	804		11,928
Flushing	36,380	386	692	2,060	3,706		43,224
Hook Creek	45,465	208	1,106	1,838	1,324		49,941
Hunters Point	4,421	74	152	554	603		5,804
Little Neck	41,453	526	643	1,371	1,679		45,672
Midtown Highway	48,505	1,334	1,381	2,351	3,494		57,065
North Channel	14,567	404	164	804	1,155		17,094
Rikers Island	9,424	451	288	465	473		11,101
Roosevelt Avenue	12,589	432	222	575	708		14,526
Roosevelt Island	5,659	186	147	220	164		6,376
Whitestone Expwy	109,870	1,198	3,524	7,755	6,244		128,591
<b>Total Queens</b>	<b>337,394</b>	<b>5,444</b>	<b>8,549</b>	<b>19,581</b>	<b>20,354</b>		<b>391,322</b>

**STATEN ISLAND**

Fresh Kills	39,668	1,545	2,314	4,226	1,588		49,341
<b>Total Staten Island</b>	<b>39,668</b>	<b>1,545</b>	<b>2,314</b>	<b>4,226</b>	<b>1,588</b>		<b>49,341</b>

<b>GRAND TOTALS</b>	<b>1,522,719</b>	<b>26,983</b>	<b>53,802</b>	<b>119,933</b>	<b>100,824</b>		<b>1,824,261</b>
---------------------	------------------	---------------	---------------	----------------	----------------	--	------------------

**2002-2003 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>2002</b>	<b>2003</b>	<b>Percent Change</b>
Brooklyn	Principal Arterial	121,145	134,444	11.0 %
Manhattan	Principal Arterial	66,152	73,767	11.5 %
Queensboro	Principal Arterial	176,419	184,964	4.8 %
Williamsburg	Principal Arterial	103,364	100,243	- 3.0 %
<b>Total East River</b>		<b>467,080</b>	<b>493,418</b>	<b>5.6 %</b>

***HARLEM RIVER BRIDGES***

Alexander Hamilton	Interstate	168,079	182,704	8.7 %
Broadway	Principal Arterial	38,287	36,888	- 3.7 %
Macombs Dam	Principal Arterial	18,878	42,254	123.8 %
Madison Avenue	Principal Arterial	49,487	41,575	- 16.0 %
Third Avenue	Principal Arterial	58,949	43,065	- 26.9 %
University Heights	Principal Arterial	45,311	50,126	10.6 %
Washington	Minor Arterial	63,609	63,154	- 0.7 %
Willis Avenue	Principal Arterial	73,435	66,710	- 9.2 %
145th Street	Minor Arterial	35,796	23,034	- 35.7 %
<b>Total Harlem River</b>		<b>551,831</b>	<b>549,510</b>	<b>- 0.4 %</b>

***BROOKLYN-QUEENS BRIDGES***

Grand Street	Principal Arterial	13,088	14,139	8.0 %
Greenpoint Avenue	Principal Arterial	26,306	28,755	9.3 %
Kosciuszko	Interstate	184,379	194,497	5.5 %
Pulaski	Principal Arterial	38,348	38,346	- 0.0 %
<b>Total Brooklyn-Queens</b>		<b>262,121</b>	<b>275,737</b>	<b>5.2 %</b>

***BRONX BRIDGES***

City Island	Minor Arterial	16,637	14,617	- 12.1 %
East 174th Street	Minor Arterial	12,786	14,229	11.3 %
Eastchester	Principal Arterial	22,255	24,193	8.7 %
Eastern Boulevard	Interstate	178,983	170,735	- 4.6 %
Hutchinson River	Principal Arterial	110,141	117,195	6.4 %
Pelham	Minor Arterial	15,663	18,023	15.1 %
Unionport	Principal Arterial	51,347	60,993	18.8 %
Westchester Avenue	Principal Arterial	29,551	28,201	- 4.6 %
<b>Total Bronx</b>		<b>437,363</b>	<b>448,186</b>	<b>2.5 %</b>

**2002-2003 Traffic Volume Trends**  
**N.Y.C. Bridges and Tunnels**  
**Both Directions**  
**page 2 of 3**

<b>BROOKLYN BRIDGES</b>	<b>Highway Functional Classification</b>	<b>2002</b>	<b>2003</b>	<b>Percent Change</b>
Carroll Street	Local	1,248	1,150	- 7.9 %
Cropsey Avenue	Principal Arterial	33,325	35,137	5.4 %
Hamilton Avenue	Principal Arterial	60,075	59,108	- 1.6 %
Metropolitan Avenue	Principal Arterial	39,944	40,284	0.9 %
Mill Basin	Principal Arterial	142,105	141,212	- 0.6 %
Ninth Street	Minor Arterial	8,399	9,406	12.0 %
Stillwell Avenue	Principal Arterial	9,534	10,138	6.3 %
Third Avenue	Principal Arterial	20,538	20,517	- 0.1 %
Third Street	Minor Arterial	10,146	10,010	- 1.3 %
Union Street	Minor Arterial	4,435	4,843	9.2 %
<b>Total Brooklyn</b>		<b>329,749</b>	<b>331,805</b>	<b>0.6 %</b>
<b>QUEENS BRIDGES</b>				
Borden Avenue	Minor Arterial	15,788	16,035	1.6 %
Flushing	Principal Arterial	64,301	62,644	- 2.6 %
Hook Creek	Principal Arterial	69,963	72,562	3.7 %
Hunters Point	Collector	7,822	7,412	- 5.2 %
Little Neck	Principal Arterial	58,529	60,033	2.6 %
Midtown Highway	Interstate	81,392	84,243	3.5 %
North Channel	Principal Arterial	22,779	23,958	5.2 %
Rikers Island	Collector	13,447	16,966	26.2 %
Roosevelt Avenue	Principal Arterial	22,235	20,281	- 8.8 %
Roosevelt Island	Collector	9,444	9,203	- 2.6 %
Whitestone Expwy	Interstate	188,758	188,770	0.0 %
<b>Total Queens</b>		<b>554,458</b>	<b>562,107</b>	<b>1.4 %</b>
<b>STATEN ISLAND</b>				
Fresh Kills	Principal Arterial	64,563	66,155	2.5 %
<b>TOLL-FREE GRAND TOTALS</b>		<b>2,667,165</b>	<b>2,726,918</b>	<b>2.2 %</b>

**2002-2003 Traffic Volume Trends**  
**N.Y.C. Bridges and Tunnels**  
**Both Directions**  
**page 3 of 3**

<b>MTABT Manhattan Facilities</b>	<b>Highway Functional Classification</b>	<b>2002</b>	<b>2003</b>	<b>Percent Change</b>
Brooklyn-Battery Tunnel	Interstate	56,976	56,271	- 1.2 %
Henry Hudson Bridge	Principal Arterial	70,731	72,209	2.1 %
Queens-Midtown Tunnel	Interstate	82,834	85,377	3.1 %
Triborough Bridge Manhattan Plaza	Principal Arterial	94,759	93,177	- 1.7 %
<b>Total MTABT Manhattan</b>		<b>305,300</b>	<b>307,034</b>	<b>0.6 %</b>

<b>PANYNJ Manhattan Facilities</b>				
George Washington Bridge	Interstate	310,771	319,029	2.7 %
Holland Tunnel	Interstate	92,557	101,097	9.2 %
Lincoln Tunnel	Principal Arterial	129,511	127,323	- 1.7 %
<b>Total Manhattan - New Jersey</b>		<b>532,839</b>	<b>547,449</b>	<b>2.7 %</b>

<b>MTABT Outer Borough Bridges</b>				
Bronx-Whitestone	Interstate	123,258	113,441	- 8.0 %
Cross Bay	Minor Arterial	20,010	20,233	1.1 %
Marine Parkway	Minor Arterial	21,684	21,745	0.3 %
Throgs Neck	Interstate	104,535	111,092	6.3 %
Triborough Bridge Bronx Plaza	Interstate	72,259	74,113	2.6 %
Verrazano-Narrows	Interstate	212,491	206,444	- 2.8 %
<b>Total MTABT Outer Boroughs</b>		<b>554,237</b>	<b>547,068</b>	<b>- 1.3 %</b>

<b>PANYNJ Staten Island Bridges</b>				
Bayonne	Principal Arterial	21,327	20,208	- 5.2 %
Goethals	Interstate	81,384	75,724	- 7.0 %
Outerbridge Crossing	Principal Arterial	76,429	78,650	2.9 %
<b>Total Staten Island - New Jersey</b>		<b>179,140</b>	<b>174,582</b>	<b>- 2.5 %</b>

**10-Year Traffic Growth Rate Trends  
N.Y.C. Bridges  
1953-2003**

Page 1 of 3

<b>East River Bridges</b>	<b>1953-1963</b>	<b>1963-1973</b>	<b>1973-1983</b>	<b>1983-1993</b>	<b>1993-2003</b>
Brooklyn	11.4%	3.1%	0.8%	1.5%	- 1.1%
Manhattan	- 4.2%	1.9%	1.8%	- 2.4%	- 0.7%
Queensboro	1.3%	1.4%	- 1.1%	- 0.1%	2.4%
Williamsburg	0.3%	- 0.6%	0.5%	0.4%	1.4%
<b>Total</b>	<b>1.3%</b>	<b>1.5%</b>	<b>0.3%</b>	<b>0.1%</b>	<b>0.7%</b>

<b>Harlem River Bridges</b>					
Alexander Hamilton	<i>Opened January 1963</i>		1.4%	1.2%	- 0.2%
Broadway	3.3%	1.6%	2.4%	2.5%	0.7%
Macombs Dam	3.0%	0.8%	1.3%	- 1.8%	- 2.8%
Madison Avenue	- 1.7%	0.7%	- 0.7%	- 0.4%	8.2%
Third Avenue	6.4%	- 2.2%	0.4%	0.9%	- 1.9%
University Heights	4.3%	2.0%	- 0.2%	- 0.5%	4.3%
Washington	4.0%	1.2%	- 0.5%	2.0%	1.7%
Willis Avenue	4.2%	- 1.9%	0.7%	0.4%	0.3%
145th Street	0.1%	- 2.2%	0.4%	0.3%	2.0%
<b>Total</b>	<b>3.2%</b>	<b>2.0%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>0.7%</b>

<b>Brooklyn-Queens Bridges</b>					
Grand Street	5.1%	0.7%	1.8%	1.7%	1.2%
Greenpoint Avenue	- 3.6%	4.0%	- 3.7%	5.4%	0.5%
Kosciuszko	7.4%	1.1%	2.8%	0.1%	1.8%
Pulaski	0.6%	- 0.4%	- 1.6%	- 1.6%	4.7%
<b>Total</b>	<b>3.9%</b>	<b>1.1%</b>	<b>1.4%</b>	<b>0.6%</b>	<b>2.0%</b>

<b>Bronx Bridges</b>					
City Island	5.5%	3.0%	- 0.9%	3.1%	2.5%
East 174th Street	0.5%	1.1%	- 4.3%	4.9%	- 0.5%
Eastchester	- 6.3%	9.9%	- 1.7%	0.3%	1.8%
Eastern Blvd	2.4%	4.6%	1.2%	- 1.3%	3.9%
Hutchinson River Pkwy	1.2%	1.9%	2.6%	2.5%	4.3%
Pelham	6.6%	2.2%	0.6%	6.8%	- 2.2%
Unionport	15.9%	- 4.7%	1.5%	- 0.6%	3.5%
Westchester Avenue	1.9%	1.0%	- 1.3%	1.2%	4.1%
<b>Total</b>	<b>5.2%</b>	<b>0.4%</b>	<b>0.7%</b>	<b>1.0%</b>	<b>3.3%</b>



**10-Year Traffic Growth Rate Trends  
N.Y.C. Bridges  
1953-2003**

Page 2 of 3

<b>Brooklyn Bridges</b>	<b>1953-1963</b>	<b>1963-1973</b>	<b>1973-1983</b>	<b>1983-1993</b>	<b>1993-2003</b>
Carroll Street	8.9%	- 8.7%	3.8%	- 5.4%	0.8%
Cropsey Avenue	3.5%	3.0%	0.8%	- 1.1%	2.6%
Hamilton Avenue	3.6%	- 0.4%	1.1%	1.3%	0.8%
Metropolitan Avenue	5.1%	2.1%	3.5%	0.1%	1.1%
Mill Basin	6.5%	2.5%	1.1%	2.4%	0.1%
Ninth Street	4.3%	- 2.6%	2.2%	- 0.4%	- 1.4%
Stillwell Avenue	3.0%	0.9%	n/a	n/a	0.3%
Third Avenue	0.6%	- 2.6%	2.0%	4.4%	- 0.1%
Third Street	13.6%	- 2.0%	n/a	n/a	2.2%
Union Street	1.3%	- 1.6%	- 2.1%	- 7.0%	0.1%
<b>Total</b>	<b>4.7%</b>	<b>1.0%</b>	<b>1.0%</b>	<b>1.7%</b>	<b>1.1%</b>

<b>Queens Bridges</b>					
Borden Avenue	4.0%	0.2%	5.1%	- 3.2%	0.7%
Flushing	- 1.3%	2.7%	- 0.7%	0.2%	1.3%
Hook Creek	8.7%	3.1%	0.1%	1.9%	1.6%
Hunters Point Avenue	2.5%	2.0%	n/a	n/a	0.6%
Little Neck Pkwy	- 2.9%	4.2%	0.5%	- 0.3%	1.9%
Midtown Highway	6.4%	2.2%	4.0%	- 2.5%	2.9%
North Channel	6.7%	0.5%	- 1.3%	0.9%	3.5%
Rikers Island	<i>Opened 11/22/1966</i>		5.3%	7.2%	1.9%
Roosevelt Avenue	3.6%	- 1.0%	- 1.9%	3.2%	- 1.9%
Roosevelt Island	<i>Opened 05/18/1955</i>	9.3%	1.0%	1.5%	- 0.3%
Whitestone Expwy	- 0.8%	6.4%	1.1%	0.8%	2.9%
<b>Total</b>	<b>2.2%</b>	<b>3.6%</b>	<b>1.0%</b>	<b>0.5%</b>	<b>2.1%</b>

<b>Staten Island Bridges</b>					
Fresh Kills	2.1%	11.1%	5.1%	0.0%	4.2%

<b>TOLL FREE GRAND TOTAL</b>	<b>3.1%</b>	<b>1.8%</b>	<b>0.9%</b>	<b>0.7%</b>	<b>1.6%</b>
------------------------------	-------------	-------------	-------------	-------------	-------------

**10-Year Traffic Growth Rate Trends  
N.Y.C. Tolled Facilities  
1953-2003**

Page 3 of 3

<b>Manhattan MTABT Facilities:</b>	<b>1953-1963</b>	<b>1963-1973</b>	<b>1973-1983</b>	<b>1983-1993</b>	<b>1993-2003</b>
Brooklyn-Battery Tunnel	0.3%	0.7%	2.7%	0.0%	- 2.1%
Henry Hudson Bridge	- 2.6%	- 1.0%	- 1.6%	5.2%	2.5%
Queens-Midtown Tunnel	5.9%	1.8%	1.2%	0.4%	1.4%
Triborough (Manhattan Plz)	1.4%	3.3%	2.0%	0.1%	1.1%
<b>Total</b>	<b>1.1%</b>	<b>1.5%</b>	<b>1.4%</b>	<b>1.0%</b>	<b>0.9%</b>

<b>Manhattan PANYNJ Facilities:</b>					
George Washington Bridge	3.1%	5.7%	1.6%	0.0%	2.4%
Holland Tunnel	0.8%	0.8%	1.5%	2.5%	- 1.1%
Lincoln Tunnel	4.2%	2.3%	1.2%	0.2%	0.5%
<b>Total</b>	<b>2.8%</b>	<b>3.9%</b>	<b>1.5%</b>	<b>0.5%</b>	<b>1.3%</b>

<b>Outer Borough MTABT Bridges:</b>					
Bronx-Whitestone	- 3.0%	4.0%	1.5%	- 0.5%	2.1%
Cross Bay	0.4%	0.4%	- 2.8%	0.2%	4.0%
Marine Parkway	1.0%	2.1%	- 1.8%	0.9%	0.4%
Throgs Neck	<i>Opened 1961</i>	2.0%	0.3%	0.7%	0.8%
Triborough (Bronx Plz)	1.4%	2.8%	0.1%	- 0.7%	0.6%
Verrazano-Narrows	<i>Opened 11/21/1964</i>		3.2%	2.0%	2.0%
<b>Total</b>	<b>2.6%</b>	<b>5.8%</b>	<b>1.2%</b>	<b>0.7%</b>	<b>1.6%</b>

<b>Staten Island PANYNJ Bridges:</b>					
Bayonne	- 0.1%	4.8%	1.4%	- 1.1%	5.3%
Goethals	4.6%	15.0%	- 1.5%	1.5%	3.0%
Outerbridge Crossing	2.2%	4.0%	17.0%	3.1%	1.8%
<b>Total</b>	<b>2.5%</b>	<b>10.7%</b>	<b>3.8%</b>	<b>1.9%</b>	<b>2.7%</b>

*East  
River  
Bridges*

**East River Bridges**  
**Average Daily Traffic Volumes**  
**1948 - 2003**

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

## Hourly Vehicular Volumes Brooklyn Bridge - 2003

	<b>Eastbound to Brooklyn</b>						<b>Westbound to Manhattan</b>						<b>2-Way Totals</b>
	Autos	Commuter		Commercial		Totals	Autos	Commuter		Commercial		Totals	
		Buses	Vans	Trucks	Vans			Buses	Vans	Trucks	Vans		
12-1am	---	---	---	---	---	2,724	---	---	---	---	---	1,525	4,249
1-2am	---	---	---	---	---	1,548	---	---	---	---	---	926	2,474
2-3am	---	---	---	---	---	992	---	---	---	---	---	616	1,608
3-4am	---	---	---	---	---	724	---	---	---	---	---	602	1,326
4-5am	---	---	---	---	---	782	---	---	---	---	---	1,058	1,840
5-6am	---	---	---	---	---	1,341	---	---	---	---	---	2,771	4,112
6-7am	---	---	---	---	---	2,473	---	---	---	---	---	3,869	6,342
7-8am	2,788	2	119	1	73	2,983	3,710	19	37	3	258	4,027 **	7,010
8-9am	2,821	32	133	0	95	3,081	3,587	6	59	8	218	3,878	6,959
9-10am	2,528	21	83	2	148	2,782	3,047	5	58	4	293	3,407	6,189
10-11am	2,322	4	93	0	140	2,559	2,743	3	126	7	153	3,032	5,591
11-12am	2,468	1	102	0	78	2,649	2,632	7	147	4	164	2,954	5,603
12-1pm	2,514	1	124	3	125	2,767	2,794	0	125	3	126	3,048	5,815
1-2pm	2,743	1	161	0	115	3,020	2,811	58	140	3	151	3,163	6,183
2-3pm	3,280	11	96	1	125	3,513	3,056	5	191	1	125	3,378	6,891
3-4pm	3,485	21	63	0	74	3,643	3,248	11	142	0	133	3,534	7,177
4-5pm	3,502	11	90	0	37	3,640	3,251	6	234	1	111	3,603	7,243
5-6pm	3,598	4	93	1	24	3,720	3,378	17	178	1	166	3,740	7,460 **
6-7pm	3,673	3	75	5	44	3,800	3,213	4	145	1	112	3,475	7,275
7-8pm	---	---	---	---	---	3,851	---	---	---	---	---	3,173	7,024
8-9pm	---	---	---	---	---	3,897 **	---	---	---	---	---	3,255	7,152
9-10pm	---	---	---	---	---	3,769	---	---	---	---	---	3,207	6,976
10-11pm	---	---	---	---	---	3,420	---	---	---	---	---	2,974	6,394
11-12pm	---	---	---	---	---	3,283	---	---	---	---	---	2,268	5,551
Totals	---	---	---	---	---	66,961	---	---	---	---	---	67,483	134,444
7-10am	8,137	55	335	3	316	8,846	10,344	30	154	15	769	11,312	20,158
10am-1pm	7,304	6	319	3	343	7,975	8,169	10	398	14	443	9,034	17,009
1-4pm	9,508	33	320	1	314	10,176	9,115	74	473	4	409	10,075	20,251
4-7pm	10,773	18	258	6	105	11,160	9,842	27	557	3	389	10,818	21,978
7am-7pm	35,722	112	1,232	13	1,078	38,157	37,470	141	1,582	36	2,010	41,239	79,396

Based on October 1996 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Manhattan Bridge - 2003

	<b>Eastbound to Brooklyn</b>						<b>Westbound to Manhattan</b>						<b>2-Way Totals</b>
	Autos	Commuter		Commercial		Totals	Autos	Commuter		Commercial		Totals	
		Buses	Vans	Trucks	Vans			Buses	Vans	Trucks	Vans		
12-1am	---	---	---	---	---	1,575	---	---	---	---	---	969	2,544
1-2am	---	---	---	---	---	978	---	---	---	---	---	663	1,641
2-3am	---	---	---	---	---	711	---	---	---	---	---	565	1,276
3-4am	---	---	---	---	---	598	---	---	---	---	---	549	1,147
4-5am	---	---	---	---	---	644	---	---	---	---	---	771	1,415
5-6am	---	---	---	---	---	706	---	---	---	---	---	1,329	2,035
6-7am	---	---	---	---	---	1,156	---	---	---	---	---	1,992	3,148
7-8am	665	54	134	389	131	1,373	1,479	95	215	444	394	2,627 **	4,000
8-9am	773	140	138	470	160	1,681	1,301	38	216	473	484	2,512	4,193 **
9-10am	539	85	164	490	187	1,465	952	33	158	578	453	2,174	3,639
10-11am	545	23	152	488	220	1,428	669	30	140	623	347	1,809	3,237
11-12am	583	25	152	498	240	1,498	685	29	151	540	348	1,753	3,251
12-1pm	551	21	105	466	321	1,464	779	37	198	503	202	1,719	3,183
1-2pm	603	28	218	514	374	1,737	666	35	140	455	169	1,465	3,202
2-3pm	698	20	231	470	357	1,776	763	26	107	378	305	1,579	3,355
3-4pm	916	71	290	507	392	2,176	820	43	180	290	247	1,580	3,756
4-5pm	1,188	59	273	467	550	2,537	847	23	99	258	219	1,446	3,983
5-6pm	1,331	44	255	408	552	2,590 **	970	37	158	203	175	1,543	4,133
6-7pm	1,356	41	350	367	371	2,485	1,094	23	126	140	146	1,529	4,014
7-8pm	---	---	---	---	---	2,176	---	---	---	---	---	1,383	3,559
8-9pm	---	---	---	---	---	2,004	---	---	---	---	---	1,321	3,325
9-10pm	---	---	---	---	---	1,803	---	---	---	---	---	1,363	3,166
10-11pm	---	---	---	---	---	1,812	---	---	---	---	---	1,507	3,319
11-12pm	---	---	---	---	---	1,787	---	---	---	---	---	1,459	3,246
Totals	---	---	---	---	---	38,160	---	---	---	---	---	35,607	73,767
7-10am	1,977	279	436	1,349	478	4,519	3,732	166	589	1,495	1,331	7,313	11,832
10am-1pm	1,679	69	409	1,452	781	4,390	2,133	96	489	1,666	897	5,281	9,671
1-4pm	2,217	119	739	1,491	1,123	5,689	2,249	104	427	1,123	721	4,624	10,313
4-7pm	3,875	144	878	1,242	1,473	7,612	2,911	83	383	601	540	4,518	12,130
7am-7pm	9,748	611	2,462	5,534	3,855	22,210	11,025	449	1,888	4,885	3,489	21,736	43,946

Based on October 1996 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Queensboro Bridge - 2003

	<i>Eastbound to Queens</i>						<i>Westbound to Manhattan</i>						<b>2-Way Totals</b>
	Autos	Commuter		Commercial		Totals	Autos	Commuter		Commercial		Totals	
		Buses	Vans	Trucks	Vans			Buses	Vans	Trucks	Vans		
12-1am	---	---	---	---	---	4,243	---	---	---	---	---	2,012	6,255
1-2am	---	---	---	---	---	2,690	---	---	---	---	---	1,396	4,086
2-3am	---	---	---	---	---	1,657	---	---	---	---	---	1,096	2,753
3-4am	---	---	---	---	---	1,301	---	---	---	---	---	1,284	2,585
4-5am	---	---	---	---	---	1,492	---	---	---	---	---	2,092	3,584
5-6am	---	---	---	---	---	2,207	---	---	---	---	---	4,219	6,426
6-7am	---	---	---	---	---	3,201	---	---	---	---	---	6,647	9,848
7-8am	2,650	123	259	107	177	3,316	5,413	113	300	302	776	6,904 **	10,220
8-9am	2,174	164	235	164	144	2,881	4,270	66	294	358	895	5,883	8,764
9-10am	1,843	171	210	224	182	2,630	3,513	58	356	296	698	4,921	7,551
10-11am	2,507	80	186	229	315	3,317	2,952	60	264	369	566	4,211	7,528
11-12am	2,622	78	288	235	460	3,683	2,898	88	306	302	455	4,049	7,732
12-1pm	2,885	90	208	201	480	3,864	3,095	48	245	226	331	3,945	7,809
1-2pm	2,808	68	343	309	534	4,062	3,286	102	253	257	288	4,186	8,248
2-3pm	3,417	70	209	381	505	4,582	3,419	72	256	204	456	4,407	8,989
3-4pm	4,404	144	163	426	580	5,717	3,818	43	287	153	323	4,624	10,341
4-5pm	4,847	175	185	433	623	6,263 **	3,832	37	225	127	234	4,455	10,718 **
5-6pm	4,739	203	186	333	551	6,012	4,208	35	163	59	166	4,631	10,643
6-7pm	4,525	171	250	106	376	5,428	3,845	57	238	74	184	4,398	9,826
7-8pm	---	---	---	---	---	4,851	---	---	---	---	---	4,182	9,033
8-9pm	---	---	---	---	---	4,871	---	---	---	---	---	3,564	8,435
9-10pm	---	---	---	---	---	4,624	---	---	---	---	---	3,455	8,079
10-11pm	---	---	---	---	---	4,544	---	---	---	---	---	3,391	7,935
11-12pm	---	---	---	---	---	4,677	---	---	---	---	---	2,899	7,576
Totals	---	---	---	---	---	92,113	---	---	---	---	---	92,851	184,964
7-10am	6,667	458	704	495	503	8,827	13,196	237	950	956	2,369	17,708	26,535
10am-1pm	8,014	248	682	665	1,255	10,864	8,945	196	815	897	1,352	12,205	23,069
1-4pm	10,629	282	715	1,116	1,619	14,361	10,523	217	796	614	1,067	13,217	27,578
4-7pm	14,111	549	621	872	1,550	17,703	11,885	129	626	260	584	13,484	31,187
7am-7pm	39,421	1,537	2,722	3,148	4,927	51,755	44,549	779	3,187	2,727	5,372	56,614	108,369

Based on October 1996 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Williamsburg Bridge - 2003

	<i>Eastbound to Brooklyn</i>						<i>Westbound to Manhattan</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	1,874	---	---	---	---	---	1,170	3,044
1-2am	---	---	---	---	---	1,155	---	---	---	---	---	844	1,999
2-3am	---	---	---	---	---	768	---	---	---	---	---	672	1,440
3-4am	---	---	---	---	---	568	---	---	---	---	---	649	1,217
4-5am	---	---	---	---	---	612	---	---	---	---	---	992	1,604
5-6am	---	---	---	---	---	1,020	---	---	---	---	---	2,131	3,151
6-7am	---	---	---	---	---	1,649	---	---	---	---	---	2,910	4,559
7-8am	1,331	22	218	163	100	1,834	2,184	101	480	338	363	3,466 **	5,300
8-9am	1,343	118	234	194	148	2,037	2,087	44	528	308	451	3,418	5,455
9-10am	1,098	82	321	197	131	1,829	1,887	40	461	286	305	2,979	4,808
10-11am	1,095	42	261	405	75	1,878	1,715	33	463	277	261	2,749	4,627
11-12am	1,115	22	282	415	110	1,944	1,429	31	421	270	263	2,414	4,358
12-1pm	1,178	13	332	296	164	1,983	1,450	31	387	214	264	2,346	4,329
1-2pm	1,294	23	341	337	159	2,154	1,391	67	540	237	209	2,444	4,598
2-3pm	1,481	30	456	342	61	2,370	1,849	42	448	179	229	2,747	5,117
3-4pm	1,991	72	446	367	173	3,049	1,814	32	351	172	217	2,586	5,635
4-5pm	2,243	92	420	356	201	3,312 **	1,672	32	403	109	185	2,401	5,713 **
5-6pm	2,214	68	418	253	238	3,191	1,665	33	393	112	187	2,390	5,581
6-7pm	2,273	25	374	131	186	2,989	1,415	26	414	90	171	2,116	5,105
7-8pm	---	---	---	---	---	2,832	---	---	---	---	---	2,186	5,018
8-9pm	---	---	---	---	---	2,738	---	---	---	---	---	2,089	4,827
9-10pm	---	---	---	---	---	2,466	---	---	---	---	---	2,017	4,483
10-11pm	---	---	---	---	---	2,264	---	---	---	---	---	1,991	4,255
11-12pm	---	---	---	---	---	2,265	---	---	---	---	---	1,755	4,020
Totals	---	---	---	---	---	48,781	---	---	---	---	---	51,462	100,243
7-10am	3,772	222	773	554	379	5,700	6,158	185	1,469	932	1,119	9,863	15,563
10am-1pm	3,388	77	875	1,116	349	5,805	4,594	95	1,271	761	788	7,509	13,314
1-4pm	4,766	125	1,243	1,046	393	7,573	5,054	141	1,339	588	655	7,777	15,350
4-7pm	6,730	185	1,212	740	625	9,492	4,752	91	1,210	311	543	6,907	16,399
7am-7pm	18,656	609	4,103	3,456	1,746	28,570	20,558	512	5,289	2,592	3,105	32,056	60,626

Based on October 1996 Classification Survey Data

\*\* Peak Volumes



*Harlem  
River  
Bridges*

**Harlem River Bridges**  
**Average Daily Traffic Volumes**  
**1948 - 2003**

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

**Harlem River Bridges (cont'd)**  
**Average Daily Traffic Volumes**  
**1948 - 2003**

<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

## Hourly Vehicular Volumes Alexander Hamilton Bridge - 2003

	<i>Eastbound to Bronx</i>						<i>Westbound to Manhattan</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	
12-1am	---	---	---	---	---	1,551	---	---	---	---	---	2,068	3,619
1-2am	---	---	---	---	---	1,404	---	---	---	---	---	1,406	2,810
2-3am	---	---	---	---	---	1,500	---	---	---	---	---	1,391	2,891
3-4am	---	---	---	---	---	1,715	---	---	---	---	---	1,493	3,208
4-5am	---	---	---	---	---	2,301	---	---	---	---	---	1,899	4,200
5-6am	---	---	---	---	---	3,692	---	---	---	---	---	3,358	7,050
6-7am	---	---	---	---	---	5,415	---	---	---	---	---	5,012	10,427
7-8am	4,322	14	250	826	125	5,537 **	4,260	10	91	453	224	5,038	10,575 **
8-9am	3,767	5	246	946	220	5,184	4,372	36	36	508	161	5,113 **	10,297
9-10am	3,673	5	235	1,203	132	5,248	3,382	48	28	742	197	4,397	9,645
10-11am	4,388	3	104	343	49	4,887	3,908	27	17	422	142	4,516	9,403
11-12am	3,479	11	250	774	128	4,642	3,262	14	21	1,017	289	4,603	9,245
12-1pm	3,971	0	112	448	49	4,580	3,593	10	9	502	127	4,241	8,821
1-2pm	3,465	8	165	826	82	4,546	3,656	13	26	950	248	4,893	9,439
2-3pm	3,683	6	196	764	108	4,757	3,639	20	45	976	196	4,876	9,633
3-4pm	4,084	7	82	319	89	4,581	4,033	22	16	474	87	4,632	9,213
4-5pm	3,782	5	142	473	108	4,510	3,590	4	41	906	219	4,760	9,270
5-6pm	4,078	5	114	384	95	4,676	3,766	2	31	839	164	4,802	9,478
6-7pm	3,919	9	205	449	79	4,661	3,761	3	22	456	131	4,373	9,034
7-8pm	---	---	---	---	---	4,185	---	---	---	---	---	4,477	8,662
8-9pm	---	---	---	---	---	3,814	---	---	---	---	---	4,083	7,897
9-10pm	---	---	---	---	---	3,489	---	---	---	---	---	3,602	7,091
10-11pm	---	---	---	---	---	2,957	---	---	---	---	---	3,181	6,138
11-12pm	---	---	---	---	---	2,012	---	---	---	---	---	2,646	4,658
Totals	---	---	---	---	---	91,844	---	---	---	---	---	90,860	182,704
7-10am	11,762	24	731	2,975	477	15,969	12,014	94	155	1,703	582	14,548	30,517
10am-1pm	11,838	14	466	1,565	226	14,109	10,763	51	47	1,941	558	13,360	27,469
1-4pm	11,232	21	443	1,909	279	13,884	11,328	55	87	2,400	531	14,401	28,285
4-7pm	11,779	19	461	1,306	282	13,847	11,117	9	94	2,201	514	13,935	27,782
7am-7pm	46,611	78	2,101	7,755	1,264	57,809	45,222	209	383	8,245	2,185	56,244	114,053

Based on 1989 Classification Survey Dat:

\*\* Peak Volumes

## Hourly Vehicular Volumes Broadway Bridge - 2003

	<i>Northbound to Bronx</i>						<i>Southbound to Manhattan</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	
12-1am	---	---	---	---	---	328	---	---	---	---	---	254	582
1-2am	---	---	---	---	---	196	---	---	---	---	---	155	351
2-3am	---	---	---	---	---	122	---	---	---	---	---	105	227
3-4am	---	---	---	---	---	72	---	---	---	---	---	82	154
4-5am	---	---	---	---	---	100	---	---	---	---	---	158	258
5-6am	---	---	---	---	---	197	---	---	---	---	---	361	558
6-7am	---	---	---	---	---	457	---	---	---	---	---	897	1,354
7-8am	577	32	17	58	24	708	1,462	67	46	33	48	1,656	2,364
8-9am	823	60	21	36	28	968	1,258	43	29	44	43	1,417	2,385
9-10am	620	21	3	25	55	724	905	35	26	53	41	1,060	1,784
10-11am	660	16	2	33	23	734	802	21	12	37	10	882	1,616
11-12am	614	19	8	25	38	704	745	25	25	53	54	902	1,606
12-1pm	735	21	5	21	23	805	883	22	4	18	12	939	1,744
1-2pm	783	24	3	27	28	865	920	26	10	21	17	994	1,859
2-3pm	702	20	1	30	60	813	1,050	33	25	37	19	1,164	1,977
3-4pm	1,031	25	9	13	35	1,113	1,298	37	15	21	12	1,383	2,496
4-5pm	1,194	42	29	25	58	1,348	1,409	37	26	44	43	1,559	2,907
5-6pm	1,426	33	10	14	74	1,557 **	1,525	39	40	24	31	1,659 **	3,216 **
6-7pm	1,140	22	0	13	112	1,287	1,240	33	30	21	9	1,333	2,620
7-8pm	---	---	---	---	---	1,047	---	---	---	---	---	1,028	2,075
8-9pm	---	---	---	---	---	826	---	---	---	---	---	843	1,669
9-10pm	---	---	---	---	---	554	---	---	---	---	---	691	1,245
10-11pm	---	---	---	---	---	511	---	---	---	---	---	492	1,003
11-12pm	---	---	---	---	---	463	---	---	---	---	---	375	838
Totals	---	---	---	---	---	16,499	---	---	---	---	---	20,389	36,888
7-10am	2,020	113	41	119	107	2,400	3,625	145	101	130	132	4,133	6,533
10am-1pm	2,009	56	15	79	84	2,243	2,430	68	41	108	76	2,723	4,966
1-4pm	2,516	69	13	70	123	2,791	3,268	96	50	79	48	3,541	6,332
4-7pm	3,760	97	39	52	244	4,192	4,174	109	96	89	83	4,551	8,743
7am-7pm	10,305	335	108	320	558	11,626	13,497	418	288	406	339	14,948	26,574

Based on 1989 Classification Survey Data:

\*\* Peak Volumes

## Hourly Vehicular Volumes Macombs Dam Bridge - 2003

	<i>Eastbound to Bronx</i>						<i>Westbound to Manhattan</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	439	---	---	---	---	---	430	869
1-2am	---	---	---	---	---	222	---	---	---	---	---	231	453
2-3am	---	---	---	---	---	195	---	---	---	---	---	189	384
3-4am	---	---	---	---	---	162	---	---	---	---	---	151	313
4-5am	---	---	---	---	---	179	---	---	---	---	---	138	317
5-6am	---	---	---	---	---	256	---	---	---	---	---	347	603
6-7am	---	---	---	---	---	551	---	---	---	---	---	915	1,466
7-8am	776	32	20	48	71	947	1,183	38	6	84	225	1,536	2,483
8-9am	950	13	17	58	97	1,135	1,268	11	2	100	179	1,560	2,695
9-10am	761	17	12	48	51	889	999	21	14	116	189	1,339	2,228
10-11am	710	7	2	30	37	786	903	8	7	39	54	1,011	1,797
11-12am	665	8	11	55	65	804	782	6	12	69	77	946	1,750
12-1pm	813	10	6	27	36	892	902	17	3	18	39	979	1,871
1-2pm	907	3	6	28	25	969	1,005	20	8	22	81	1,136	2,105
2-3pm	885	14	22	70	76	1,067	1,204	26	18	59	104	1,411	2,478
3-4pm	1,073	22	10	58	68	1,231	1,383	42	12	26	52	1,515	2,746
4-5pm	1,042	9	34	89	169	1,343	1,350	12	37	49	91	1,539	2,882
5-6pm	1,173	10	16	42	155	1,396 **	1,433	16	12	23	78	1,562 **	2,958 **
6-7pm	1,177	3	7	28	47	1,262	1,153	8	13	26	88	1,288	2,550
7-8pm	---	---	---	---	---	1,147	---	---	---	---	---	1,242	2,389
8-9pm	---	---	---	---	---	1,046	---	---	---	---	---	1,108	2,154
9-10pm	---	---	---	---	---	922	---	---	---	---	---	879	1,801
10-11pm	---	---	---	---	---	776	---	---	---	---	---	820	1,596
11-12pm	---	---	---	---	---	665	---	---	---	---	---	701	1,366
Totals	---	---	---	---	---	19,281	---	---	---	---	---	22,973	42,254
7-10am	2,487	62	49	154	219	2,971	3,450	70	22	300	593	4,435	7,406
10am-1pm	2,188	25	19	112	138	2,482	2,587	31	22	126	170	2,936	5,418
1-4pm	2,865	39	38	156	169	3,267	3,592	88	38	107	237	4,062	7,329
4-7pm	3,392	22	57	159	371	4,001	3,936	36	62	98	257	4,389	8,390
7am-7pm	10,932	148	163	581	897	12,721	13,565	225	144	631	1,257	15,822	28,543

Based on 1989 Classification Survey Data:

\*\* Peak Volumes

## Hourly Vehicular Volumes Madison Avenue Bridge - 2003

	<i>Eastbound to Bronx</i>						<i>Westbound to Manhattan</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	395	---	---	---	---	---	354	749
1-2am	---	---	---	---	---	228	---	---	---	---	---	221	449
2-3am	---	---	---	---	---	144	---	---	---	---	---	178	322
3-4am	---	---	---	---	---	117	---	---	---	---	---	138	255
4-5am	---	---	---	---	---	122	---	---	---	---	---	217	339
5-6am	---	---	---	---	---	194	---	---	---	---	---	577	771
6-7am	---	---	---	---	---	519	---	---	---	---	---	1,454	1,973
7-8am	718	36	79	47	42	922	1,632	130	18	66	147	1,993	** 2,915
8-9am	765	52	68	40	50	975	1,540	128	36	81	158	1,943	** 2,918
9-10am	543	48	70	58	36	755	1,022	73	41	177	135	1,448	2,203
10-11am	520	24	31	23	29	627	943	79	26	26	85	1,159	1,786
11-12am	419	17	55	68	62	621	859	33	44	85	108	1,129	1,750
12-1pm	591	19	23	28	30	691	1,008	45	34	41	73	1,201	1,892
1-2pm	643	22	24	33	36	758	1,064	72	37	20	57	1,250	2,008
2-3pm	624	24	55	76	77	856	1,096	92	38	41	105	1,372	2,228
3-4pm	961	20	30	54	50	1,115	1,239	86	25	33	56	1,439	2,554
4-5pm	974	24	110	91	108	1,307	1,346	83	36	32	59	1,556	2,863
5-6pm	1,070	29	92	75	71	1,337	** 1,335	60	42	33	51	1,521	2,858
6-7pm	938	55	37	48	63	1,141	1,309	52	30	26	28	1,445	2,586
7-8pm	---	---	---	---	---	984	---	---	---	---	---	1,196	2,180
8-9pm	---	---	---	---	---	934	---	---	---	---	---	940	1,874
9-10pm	---	---	---	---	---	734	---	---	---	---	---	788	1,522
10-11pm	---	---	---	---	---	627	---	---	---	---	---	761	1,388
11-12pm	---	---	---	---	---	558	---	---	---	---	---	634	1,192
Totals	---	---	---	---	---	16,661	---	---	---	---	---	24,914	41,575
7-10am	2,026	136	217	145	128	2,652	4,194	331	95	324	440	5,384	8,036
10am-1pm	1,530	60	109	119	121	1,939	2,810	157	104	152	266	3,489	5,428
1-4pm	2,228	66	109	163	163	2,729	3,399	250	100	94	218	4,061	6,790
4-7pm	2,982	108	239	214	242	3,785	3,990	195	108	91	138	4,522	8,307
7am-7pm	8,766	370	674	641	654	11,105	14,393	933	407	661	1,062	17,456	28,561

Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Third Avenue Bridge - 2003

	<u>Northbound to Bronx</u>						<u>Southbound to Manhattan</u>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am							---	---	---	---	---	945	945
1-2am							---	---	---	---	---	676	676
2-3am							---	---	---	---	---	531	531
3-4am							---	---	---	---	---	565	565
4-5am							---	---	---	---	---	960	960
5-6am							---	---	---	---	---	1,871	1,871
6-7am							---	---	---	---	---	2,375	2,375
7-8am							1,492	31	231	311	257	2,322	2,322
8-9am							1,342	19	133	271	283	2,048	2,048
9-10am							1,412	23	186	275	218	2,114	2,114
10-11am							1,649	20	109	106	87	1,971	1,971
11-12am							1,306	36	212	250	155	1,959	1,959
12-1pm							1,728	52	89	100	77	2,046	2,046
1-2pm							1,550	71	135	118	202	2,076	2,076
2-3pm							1,511	75	188	185	217	2,176	2,176
3-4pm							1,951	58	67	54	49	2,179	2,179
4-5pm							1,915	44	103	99	114	2,275	2,275
5-6pm							2,126	42	88	74	63	2,393 **	2,393 **
6-7pm							2,121	43	86	58	63	2,371	2,371
7-8pm							---	---	---	---	---	2,275	2,275
8-9pm							---	---	---	---	---	1,928	1,928
9-10pm							---	---	---	---	---	1,888	1,888
10-11pm							---	---	---	---	---	1,654	1,654
11-12pm							---	---	---	---	---	1,467	1,467
Totals							---	---	---	---	---	43,065	43,065
7-10am							4,246	73	550	857	758	6,484	6,484
10am-1pm							4,683	108	410	456	319	5,976	5,976
1-4pm							5,012	204	390	357	468	6,431	6,431
4-7pm							6,162	129	277	231	240	7,039	7,039
7am-7pm							20,103	514	1,627	1,901	1,785	25,930	25,930

Based on 1989 Classification Survey Data

\*\* Peak Volumes



## Hourly Vehicular Volumes University Heights Bridge - 2003

	<i>Eastbound to Bronx</i>						<i>Westbound to Manhattan</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	620	---	---	---	---	---	571	1,191
1-2am	---	---	---	---	---	409	---	---	---	---	---	312	721
2-3am	---	---	---	---	---	296	---	---	---	---	---	244	540
3-4am	---	---	---	---	---	163	---	---	---	---	---	199	362
4-5am	---	---	---	---	---	206	---	---	---	---	---	346	552
5-6am	---	---	---	---	---	292	---	---	---	---	---	792	1,084
6-7am	---	---	---	---	---	662	---	---	---	---	---	1,424	2,086
7-8am	772	54	99	48	50	1,023	1,659	27	43	48	136	1,913	2,936
8-9am	892	10	94	67	86	1,149	1,684	17	36	68	137	1,942	3,091
9-10am	695	9	69	79	80	932	1,160	15	19	59	117	1,370	2,302
10-11am	847	4	44	42	34	971	1,242	5	5	34	74	1,360	2,331
11-12am	709	8	74	86	43	920	1,157	9	16	73	104	1,359	2,279
12-1pm	855	14	26	29	24	948	1,333	3	7	37	64	1,444	2,392
1-2pm	1,024	51	50	39	31	1,195	1,514	5	6	28	51	1,604	2,799
2-3pm	980	15	83	61	58	1,197	1,498	14	29	67	142	1,750	2,947
3-4pm	1,138	19	26	33	32	1,248	1,676	59	8	36	74	1,853	3,101
4-5pm	993	5	61	46	35	1,140	1,704	26	24	35	126	1,915	3,055
5-6pm	1,090	0	69	33	50	1,242	1,666	1	20	18	74	1,779	3,021
6-7pm	1,093	0	68	23	69	1,253	1,545	9	13	12	72	1,651	2,904
7-8pm	---	---	---	---	---	1,219	---	---	---	---	---	1,492	2,711
8-9pm	---	---	---	---	---	1,147	---	---	---	---	---	1,258	2,405
9-10pm	---	---	---	---	---	1,020	---	---	---	---	---	1,026	2,046
10-11pm	---	---	---	---	---	870	---	---	---	---	---	926	1,796
11-12pm	---	---	---	---	---	744	---	---	---	---	---	730	1,474
Totals	---	---	---	---	---	20,866	---	---	---	---	---	29,260	50,126
7-10am	2,359	73	262	194	216	3,104	4,503	59	98	175	390	5,225	8,329
10am-1pm	2,411	26	144	157	101	2,839	3,732	17	28	144	242	4,163	7,002
1-4pm	3,142	85	159	133	121	3,640	4,688	78	43	131	267	5,207	8,847
4-7pm	3,176	5	198	102	154	3,635	4,915	36	57	65	272	5,345	8,980
7am-7pm	11,088	189	763	586	592	13,218	17,838	190	226	515	1,171	19,940	33,158

Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Washington Bridge - 2003

	<i>Eastbound to Bronx</i>						<i>Westbound to Manhattan</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	1,111	---	---	---	---	---	458	1,569
1-2am	---	---	---	---	---	665	---	---	---	---	---	311	976
2-3am	---	---	---	---	---	450	---	---	---	---	---	248	698
3-4am	---	---	---	---	---	360	---	---	---	---	---	213	573
4-5am	---	---	---	---	---	382	---	---	---	---	---	300	682
5-6am	---	---	---	---	---	469	---	---	---	---	---	576	1,045
6-7am	---	---	---	---	---	1,183	---	---	---	---	---	1,131	2,314
7-8am	1,904	73	41	66	140	2,224	1,297	61	116	38	26	1,538	3,762
8-9am	1,967	60	36	106	180	2,349	1,303	71	79	59	32	1,544	3,893
9-10am	1,517	50	32	120	114	1,833	1,003	34	51	39	27	1,154	2,987
10-11am	1,355	40	9	38	50	1,492	990	35	11	27	22	1,085	2,577
11-12am	1,284	31	18	71	81	1,485	1,075	51	32	34	41	1,233	2,718
12-1pm	1,333	45	20	27	65	1,490	1,194	31	11	23	17	1,276	2,766
1-2pm	1,486	36	6	38	57	1,623	1,294	33	19	21	15	1,382	3,005
2-3pm	1,558	38	28	76	90	1,790	1,400	66	49	59	47	1,621	3,411
3-4pm	1,980	46	13	38	99	2,176	1,624	50	50	50	24	1,798	3,974
4-5pm	2,101	50	63	77	234	2,525	1,616	46	82	100	55	1,899	4,424
5-6pm	2,404	45	67	47	127	2,690 **	1,749	35	53	40	50	1,927 **	4,617 **
6-7pm	1,982	26	35	27	88	2,158	1,620	44	65	22	36	1,787	3,945
7-8pm	---	---	---	---	---	1,947	---	---	---	---	---	1,580	3,527
8-9pm	---	---	---	---	---	1,799	---	---	---	---	---	1,293	3,092
9-10pm	---	---	---	---	---	1,412	---	---	---	---	---	1,046	2,458
10-11pm	---	---	---	---	---	1,167	---	---	---	---	---	915	2,082
11-12pm	---	---	---	---	---	1,339	---	---	---	---	---	720	2,059
Totals	---	---	---	---	---	36,119	---	---	---	---	---	27,035	63,154
7-10am	5,388	183	109	292	434	6,406	3,603	166	246	136	85	4,236	10,642
10am-1pm	3,972	116	47	136	196	4,467	3,259	117	54	84	80	3,594	8,061
1-4pm	5,024	120	47	152	246	5,589	4,318	149	118	130	86	4,801	10,390
4-7pm	6,487	121	165	151	449	7,373	4,985	125	200	162	141	5,613	12,986
7am-7pm	20,871	540	368	731	1,325	23,835	16,165	557	618	512	392	18,244	42,079

Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Willis Avenue Bridge - 2003

	<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	Totals	
12-1am	---	---	---	---	---	2,160						0	2,160
1-2am	---	---	---	---	---	1,181						0	1,181
2-3am	---	---	---	---	---	779						0	779
3-4am	---	---	---	---	---	669						0	669
4-5am	---	---	---	---	---	785						0	785
5-6am	---	---	---	---	---	1,448						0	1,448
6-7am	---	---	---	---	---	2,454	758	0	0	0	0	758	3,212
7-8am	2,430	72	113	141	98	2,854	734	0	0	0	0	734	3,588
8-9am	2,290	97	85	165	201	2,838	759	0	0	0	0	759	3,597
9-10am	1,982	116	97	237	219	2,651	621	0	0	0	0	621	3,272
10-11am	2,181	51	70	164	154	2,620						0	2,620
11-12am	2,034	36	120	292	270	2,752						0	2,752
12-1pm	2,467	42	52	152	103	2,816						0	2,816
1-2pm	2,699	25	41	113	143	3,021						0	3,021
2-3pm	2,542	31	124	365	369	3,431						0	3,431
3-4pm	3,493	63	60	168	163	3,947						0	3,947
4-5pm	3,131	36	120	268	421	3,976						0	3,976
5-6pm	3,283	58	109	183	404	4,037						0	4,037
6-7pm	3,326	32	101	117	225	3,801						0	3,801
7-8pm	---	---	---	---	---	3,772						0	3,772
8-9pm	---	---	---	---	---	3,390						0	3,390
9-10pm	---	---	---	---	---	3,082						0	3,082
10-11pm	---	---	---	---	---	2,827						0	2,827
11-12pm	---	---	---	---	---	2,547						0	2,547
Totals	---	---	---	---	---	63,838						2,872	66,710
7-10am	6,702	285	295	543	518	8,343	2,114	0	0	0	0	2,114	10,457
10am-1pm	6,682	129	242	608	527	8,188	0	0	0	0	0	0	8,188
1-4pm	8,734	119	225	646	675	10,399	0	0	0	0	0	0	10,399
4-7pm	9,740	126	330	568	1,050	11,814	0	0	0	0	0	0	11,814
7am-7pm	31,858	659	1,092	2,365	2,770	38,744	2,114	0	0	0	0	2,114	40,858

*This bridge is normally 1-way northbound to The Bronx.*

*In 2003, one lane was reversed to southbound 6-10am weekdays (for passenger cars only) in order to compensate for reconstruction lane closures on the Third Avenue Bridge*

Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes 145th Street Bridge - 2003

	<i>Eastbound to Bronx</i>						<i>Westbound to Manhattan</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	319	---	---	---	---	---	256	575
1-2am	---	---	---	---	---	210	---	---	---	---	---	168	378
2-3am	---	---	---	---	---	212	---	---	---	---	---	163	375
3-4am	---	---	---	---	---	171	---	---	---	---	---	141	312
4-5am	---	---	---	---	---	149	---	---	---	---	---	166	315
5-6am	---	---	---	---	---	128	---	---	---	---	---	177	305
6-7am	---	---	---	---	---	223	---	---	---	---	---	498	721
7-8am	370	18	24	24	6	442	894	41	18	39	35	1,027 **	1,469
8-9am	567	20	35	37	22	681	812	28	32	27	50	949	1,630 **
9-10am	420	9	28	45	18	520	510	17	30	24	54	635	1,155
10-11am	484	8	13	22	23	550	392	13	27	20	39	491	1,041
11-12am	429	14	26	59	37	565	386	10	39	40	46	521	1,086
12-1pm	535	12	16	38	16	617	532	10	10	8	13	573	1,190
1-2pm	521	11	29	27	15	603	556	28	10	14	8	616	1,219
2-3pm	463	14	25	79	34	615	508	19	24	23	34	608	1,223
3-4pm	669	17	18	33	23	760	640	25	7	6	9	687	1,447
4-5pm	640	10	42	71	40	803	622	13	12	7	17	671	1,474
5-6pm	668	8	38	55	50	819 **	668	15	12	8	11	714	1,533
6-7pm	582	18	20	16	32	668	586	19	5	3	9	622	1,290
7-8pm	---	---	---	---	---	601	---	---	---	---	---	552	1,153
8-9pm	---	---	---	---	---	566	---	---	---	---	---	436	1,002
9-10pm	---	---	---	---	---	482	---	---	---	---	---	373	855
10-11pm	---	---	---	---	---	388	---	---	---	---	---	310	698
11-12pm	---	---	---	---	---	326	---	---	---	---	---	262	588
Totals	---	---	---	---	---	11,418	---	---	---	---	---	11,616	23,034
7-10am	1,357	47	87	106	46	1,643	2,216	86	80	90	139	2,611	4,254
10am-1pm	1,448	34	55	119	76	1,732	1,310	33	76	68	98	1,585	3,317
1-4pm	1,653	42	72	139	72	1,978	1,704	72	41	43	51	1,911	3,889
4-7pm	1,890	36	100	142	122	2,290	1,876	47	29	18	37	2,007	4,297
7am-7pm	6,348	159	314	506	316	7,643	7,106	238	226	219	325	8,114	15,757

Based on 1989 Classification Survey Data

\*\* Peak Volumes

*Brooklyn-Queens  
Bridges*

**Brooklyn - Queens Bridges**  
**Average Daily Traffic Volumes**  
**1948 - 2003**

<b>Year</b>	<b>Grand Street</b>	<b>Greenpoint Avenue</b>	<b>Kosciuszko</b>	<b>Pulaski</b>	<b>Totals</b>
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

## Hourly Vehicular Volumes Grand Street Bridge - 2003

	<i>Eastbound to Queens</i>						<i>Westbound to Brooklyn</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans	Totals	
12-1am	---	---	---	---	---	61	---	---	---	---	---	75	136
1-2am	---	---	---	---	---	62	---	---	---	---	---	79	141
2-3am	---	---	---	---	---	59	---	---	---	---	---	54	113
3-4am	---	---	---	---	---	77	---	---	---	---	---	84	161
4-5am	---	---	---	---	---	88	---	---	---	---	---	105	193
5-6am	---	---	---	---	---	175	---	---	---	---	---	221	396
6-7am	---	---	---	---	---	371	---	---	---	---	---	567	938
7-8am	256	9	8	37	12	322	513	19	38	151	35	756 **	1,078 **
8-9am	188	4	8	72	17	289	359	7	34	188	57	645	934
9-10am	201	14	2	64	20	301	365	11	36	210	59	681	982
10-11am	202	4	4	47	24	281	401	12	14	76	21	524	805
11-12am	154	5	9	86	28	282	298	6	29	114	31	478	760
12-1pm	286	8	3	35	9	341	400	11	16	52	14	493	834
1-2pm	286	5	9	49	15	364	302	13	23	62	15	415	779
2-3pm	228	9	10	89	31	367	255	5	34	151	39	484	851
3-4pm	345	7	4	39	8	403	452	19	13	80	16	580	983
4-5pm	398	13	14	51	19	495 **	400	10	28	83	23	544	1,039
5-6pm	388	7	10	55	22	482	382	5	23	70	18	498	980
6-7pm	296	6	8	51	15	376	279	6	15	30	4	334	710
7-8pm	---	---	---	---	---	199	---	---	---	---	---	252	451
8-9pm	---	---	---	---	---	111	---	---	---	---	---	146	257
9-10pm	---	---	---	---	---	101	---	---	---	---	---	142	243
10-11pm	---	---	---	---	---	98	---	---	---	---	---	106	204
11-12pm	---	---	---	---	---	78	---	---	---	---	---	93	171
Totals	---	---	---	---	---	5,783	---	---	---	---	---	8,356	14,139
7-10am	645	27	18	173	49	912	1,237	37	108	549	151	2,082	2,994
10am-1pm	642	17	16	168	61	904	1,099	29	59	242	66	1,495	2,399
1-4pm	859	21	23	177	54	1,134	1,009	37	70	293	70	1,479	2,613
4-7pm	1,082	26	32	157	56	1,353	1,061	21	66	183	45	1,376	2,729
7am-7pm	3,228	91	89	675	220	4,303	4,406	124	303	1,267	332	6,432	10,735

Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Greenpoint Avenue Bridge - 2003

	<i>Eastbound to Queens</i>						<i>Westbound to Brooklyn</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans	Totals	
12-1am	---	---	---	---	---	154	---	---	---	---	---	111	265
1-2am	---	---	---	---	---	111	---	---	---	---	---	84	195
2-3am	---	---	---	---	---	85	---	---	---	---	---	75	160
3-4am	---	---	---	---	---	94	---	---	---	---	---	85	179
4-5am	---	---	---	---	---	132	---	---	---	---	---	125	257
5-6am	---	---	---	---	---	344	---	---	---	---	---	456	800
6-7am	---	---	---	---	---	756	---	---	---	---	---	994	1,750
7-8am	718	14	24	154	51	961	782	12	60	238	95	1,187	2,148
8-9am	602	17	27	228	52	926	768	13	38	218	97	1,134	2,060
9-10am	389	6	26	201	68	690	516	16	63	310	133	1,038	1,728
10-11am	537	3	7	78	35	660	570	5	29	164	56	824	1,484
11-12am	429	11	18	179	75	712	326	6	19	236	130	717	1,429
12-1pm	612	3	13	86	29	743	466	5	26	114	58	669	1,412
1-2pm	668	12	17	94	23	814	485	15	37	120	42	699	1,513
2-3pm	593	7	26	186	90	902	179	11	95	354	134	773	1,675
3-4pm	939	9	11	90	37	1,086	884	8	30	126	37	1,085	2,171
4-5pm	839	13	37	141	87	1,117	958	12	43	143	65	1,221	2,338
5-6pm	881	9	35	136	77	1,138	763	10	58	85	66	982	2,120
6-7pm	697	15	20	89	62	883	524	15	22	64	41	666	1,549
7-8pm	---	---	---	---	---	659	---	---	---	---	---	495	1,154
8-9pm	---	---	---	---	---	472	---	---	---	---	---	340	812
9-10pm	---	---	---	---	---	356	---	---	---	---	---	292	648
10-11pm	---	---	---	---	---	289	---	---	---	---	---	212	501
11-12pm	---	---	---	---	---	226	---	---	---	---	---	181	407
Totals	---	---	---	---	---	14,310	---	---	---	---	---	14,445	28,755
7-10am	1,709	37	77	583	171	2,577	2,066	41	161	766	325	3,359	5,936
10am-1pm	1,578	17	38	343	139	2,115	1,362	16	74	514	244	2,210	4,325
1-4pm	2,200	28	54	370	150	2,802	1,548	34	162	600	213	2,557	5,359
4-7pm	2,417	37	92	366	226	3,138	2,245	37	123	292	172	2,869	6,007
7am-7pm	7,904	119	261	1,662	686	10,632	7,221	128	520	2,172	954	10,995	21,627

Based on 1989 Classification Survey Data

\*\* Peak Volumes



## Hourly Vehicular Volumes Kosciuszko Bridge - 2003

	<i>Eastbound to Queens</i>						<i>Westbound to Brooklyn</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans	Totals	
12-1am	---	---	---	---	---	2,599	---	---	---	---	---	1,698	4,297
1-2am	---	---	---	---	---	1,665	---	---	---	---	---	1,203	2,868
2-3am	---	---	---	---	---	1,302	---	---	---	---	---	954	2,256
3-4am	---	---	---	---	---	1,204	---	---	---	---	---	1,057	2,261
4-5am	---	---	---	---	---	1,710	---	---	---	---	---	1,788	3,498
5-6am	---	---	---	---	---	3,025	---	---	---	---	---	4,132	7,157
6-7am	---	---	---	---	---	4,883	---	---	---	---	---	6,041	10,924
7-8am	4,258	56	115	447	289	5,165	5,047	15	68	399	377	5,906	11,071
8-9am	4,230	19	135	469	312	5,165	4,603	15	39	435	380	5,472	10,637
9-10am	3,671	37	106	402	310	4,526	4,042	15	64	528	376	5,025	9,551
10-11am	4,061	23	113	270	212	4,679	4,683	8	39	276	181	5,187	9,866
11-12am	3,520	12	190	590	426	4,738	3,908	8	75	603	321	4,915	9,653
12-1pm	4,237	11	72	271	190	4,781	4,169	8	72	332	167	4,748	9,529
1-2pm	3,821	39	119	515	429	4,923	3,608	10	85	589	392	4,684	9,607
2-3pm	4,090	22	174	529	471	5,286	3,982	15	81	595	412	5,085	10,371
3-4pm	4,851	16	78	112	229	5,286	4,795	20	26	256	185	5,282	10,568
4-5pm	4,587	24	130	235	428	5,404	4,417	18	71	355	287	5,148	10,552
5-6pm	4,597	19	90	324	286	5,316	4,236	8	48	327	307	4,926	10,242
6-7pm	4,853	11	78	109	290	5,341	4,159	7	18	210	272	4,666	10,007
7-8pm	---	---	---	---	---	5,281	---	---	---	---	---	4,509	9,790
8-9pm	---	---	---	---	---	4,697	---	---	---	---	---	3,801	8,498
9-10pm	---	---	---	---	---	4,358	---	---	---	---	---	3,730	8,088
10-11pm	---	---	---	---	---	3,723	---	---	---	---	---	3,472	7,195
11-12pm	---	---	---	---	---	3,287	---	---	---	---	---	2,724	6,011
Totals	---	---	---	---	---	98,344	---	---	---	---	---	96,153	194,497
7-10am	12,159	112	356	1,318	911	14,856	13,692	45	171	1,362	1,133	16,403	31,259
10am-1pm	11,818	46	375	1,131	828	14,198	12,760	24	186	1,211	669	14,850	29,048
1-4pm	12,762	77	371	1,156	1,129	15,495	12,385	45	192	1,440	989	15,051	30,546
4-7pm	14,037	54	298	668	1,004	16,061	12,812	33	137	892	866	14,740	30,801
7am-7pm	50,776	289	1,400	4,273	3,872	60,610	51,649	147	686	4,905	3,657	61,044	121,654

Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Pulaski Bridge - 2003

	<b>Northbound to Queens</b>						<b>Southbound to Brooklyn</b>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans	Totals	
12-1am	---	---	---	---	---	200	---	---	---	---	---	338	538
1-2am	---	---	---	---	---	154	---	---	---	---	---	196	350
2-3am	---	---	---	---	---	132	---	---	---	---	---	157	289
3-4am	---	---	---	---	---	143	---	---	---	---	---	169	312
4-5am	---	---	---	---	---	230	---	---	---	---	---	164	394
5-6am	---	---	---	---	---	654	---	---	---	---	---	367	1,021
6-7am	---	---	---	---	---	1,477	---	---	---	---	---	719	2,196
7-8am	1,298	28	61	199	171	1,757 **	711	14	28	197	120	1,070	2,827
8-9am	1,190	21	47	220	167	1,645	760	14	38	213	169	1,194	2,839
9-10am	753	17	47	217	152	1,186	618	17	28	201	154	1,018	2,204
10-11am	745	13	24	111	81	974	742	12	20	97	67	938	1,912
11-12am	543	11	44	221	154	973	539	15	38	214	139	945	1,918
12-1pm	750	9	19	106	80	964	850	13	18	109	68	1,058	2,022
1-2pm	721	19	25	113	81	959	716	19	27	93	51	906	1,865
2-3pm	636	17	37	203	152	1,045	776	17	43	342	128	1,306	2,351
3-4pm	891	20	15	96	73	1,095	1,261	22	29	122	91	1,525	2,620
4-5pm	830	10	35	106	123	1,104	1,341	13	54	186	156	1,750 **	2,854 **
5-6pm	843	7	38	37	98	1,023	1,346	10	37	119	125	1,637	2,660
6-7pm	698	12	33	57	83	883	959	10	24	69	78	1,140	2,023
7-8pm	---	---	---	---	---	652	---	---	---	---	---	813	1,465
8-9pm	---	---	---	---	---	475	---	---	---	---	---	634	1,109
9-10pm	---	---	---	---	---	400	---	---	---	---	---	546	946
10-11pm	---	---	---	---	---	401	---	---	---	---	---	430	831
11-12pm	---	---	---	---	---	355	---	---	---	---	---	445	800
Totals	---	---	---	---	---	18,881	---	---	---	---	---	19,465	38,346
7-10am	3,241	66	155	636	490	4,588	2,089	45	94	611	443	3,282	7,870
10am-1pm	2,038	33	87	438	315	2,911	2,131	40	76	420	274	2,941	5,852
1-4pm	2,248	56	77	412	306	3,099	2,753	58	99	557	270	3,737	6,836
4-7pm	2,371	29	106	200	304	3,010	3,646	33	115	374	359	4,527	7,537
7am-7pm	9,898	184	425	1,686	1,415	13,608	10,619	176	384	1,962	1,346	14,487	28,095

Based on 1989 Classification Survey Data

\*\* Peak Volumes

*Bronx  
Bridges*

**Bronx Bridges**  
**Average Daily Traffic Volumes**  
**1948 - 2003**

<b>Year</b>	<b>City Island</b>	<b>East 174th Street</b>	<b>Eastchester</b>	<b>Eastern Boulevard</b>	<b>Hutchinson River Pky</b>
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

**Bronx Bridges (cont'd)**  
**Average Daily Traffic Volumes**  
**1948 - 2003**

<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

## Hourly Vehicular Volumes City Island Bridge - 2003

	<b>Eastbound</b>						<b>Westbound</b>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	56	---	---	---	---	---	64	120
1-2am	---	---	---	---	---	27	---	---	---	---	---	33	60
2-3am	---	---	---	---	---	14	---	---	---	---	---	19	33
3-4am	---	---	---	---	---	7	---	---	---	---	---	11	18
4-5am	---	---	---	---	---	10	---	---	---	---	---	18	28
5-6am	---	---	---	---	---	36	---	---	---	---	---	78	114
6-7am	---	---	---	---	---	125	---	---	---	---	---	296	421
7-8am	206	8	11	5	17	247	478	10	0	20	21	529 **	776
8-9am	232	13	11	7	34	297	425	15	0	15	33	488	785
9-10am	186	4	4	6	23	223	272	4	0	8	16	300	523
10-11am	234	0	4	6	7	251	278	3	1	7	2	291	542
11-12am	322	5	9	6	33	375	300	5	0	2	3	310	685
12-1pm	412	2	9	3	21	447	356	8	0	4	2	370	817
1-2pm	412	2	1	6	20	441	421	2	0	6	20	449	890
2-3pm	397	9	13	18	38	475	390	10	2	21	30	453	928
3-4pm	495	10	6	7	12	530	473	15	0	5	10	503	1,033
4-5pm	508	2	22	10	41	583	432	2	0	8	26	468	1,051
5-6pm	600	7	12	8	22	649 **	436	5	0	9	18	468	1,117 **
6-7pm	588	4	6	9	16	623	404	6	0	7	10	427	1,050
7-8pm	---	---	---	---	---	576	---	---	---	---	---	408	984
8-9pm	---	---	---	---	---	458	---	---	---	---	---	420	878
9-10pm	---	---	---	---	---	348	---	---	---	---	---	416	764
10-11pm	---	---	---	---	---	244	---	---	---	---	---	353	597
11-12pm	---	---	---	---	---	145	---	---	---	---	---	258	403
Totals	---	---	---	---	---	7,187	---	---	---	---	---	7,430	14,617
7-10am	624	25	26	18	74	767	1,175	29	0	43	70	1,317	2,084
10am-1pm	968	7	22	15	61	1,073	934	16	1	13	7	971	2,044
1-4pm	1,304	21	20	31	70	1,446	1,284	27	2	32	60	1,405	2,851
4-7pm	1,696	13	40	27	79	1,855	1,272	13	0	24	54	1,363	3,218
7am-7pm	4,592	66	108	91	284	5,141	4,665	85	3	112	191	5,056	10,197

Based on 1989 Classification Survey Data:

\*\* Peak Volumes

### Hourly Vehicular Volumes East 174th Street Bridge - 2003

	<i>Eastbound</i>						<i>Westbound</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	78	---	---	---	---	---	71	149
1-2am	---	---	---	---	---	47	---	---	---	---	---	37	84
2-3am	---	---	---	---	---	32	---	---	---	---	---	28	60
3-4am	---	---	---	---	---	28	---	---	---	---	---	17	45
4-5am	---	---	---	---	---	38	---	---	---	---	---	30	68
5-6am	---	---	---	---	---	105	---	---	---	---	---	73	178
6-7am	---	---	---	---	---	206	---	---	---	---	---	253	459
7-8am	299	27	9	13	15	363	594	31	22	8	39	694	1,057
8-9am	349	52	11	34	14	460	628	33	29	14	45	749	1,209
9-10am	253	25	10	15	18	321	309	14	10	8	28	369	690
10-11am	261	16	5	13	9	304	281	24	4	4	1	314	618
11-12am	249	21	21	32	27	350	296	13	4	24	30	367	717
12-1pm	288	9	9	14	13	333	344	19	4	7	9	383	716
1-2pm	332	9	11	11	13	376	341	15	6	5	10	377	753
2-3pm	408	35	26	39	24	532	364	35	14	18	31	462	994
3-4pm	584	40	14	15	15	668	448	38	9	1	25	521	1,189
4-5pm	534	14	25	32	27	632	442	17	14	14	28	515	1,147
5-6pm	558	15	16	22	21	632	460	18	13	1	22	514	1,146
6-7pm	422	19	6	11	16	474	328	10	10	2	12	362	836
7-8pm	---	---	---	---	---	344	---	---	---	---	---	293	637
8-9pm	---	---	---	---	---	262	---	---	---	---	---	248	510
9-10pm	---	---	---	---	---	216	---	---	---	---	---	175	391
10-11pm	---	---	---	---	---	193	---	---	---	---	---	149	342
11-12pm	---	---	---	---	---	129	---	---	---	---	---	105	234
Totals	---	---	---	---	---	7,123	---	---	---	---	---	7,106	14,229
7-10am	901	104	30	62	47	1,144	1,531	78	61	30	112	1,812	2,956
10am-1pm	798	46	35	59	49	987	921	56	12	35	40	1,064	2,051
1-4pm	1,324	84	51	65	52	1,576	1,153	88	29	24	66	1,360	2,936
4-7pm	1,514	48	47	65	64	1,738	1,230	45	37	17	62	1,391	3,129
7am-7pm	4,537	282	163	251	212	5,445	4,835	267	139	106	280	5,627	11,072

Based on 1989 Classification Survey Data:

\*\* Peak Volumes

## Hourly Vehicular Volumes Eastchester Bridge - 2003

	<b>Northbound</b>						<b>Southbound</b>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans	Totals	
12-1am	---	---	---	---	---	102	---	---	---	---	---	129	231
1-2am	---	---	---	---	---	67	---	---	---	---	---	65	132
2-3am	---	---	---	---	---	46	---	---	---	---	---	37	83
3-4am	---	---	---	---	---	49	---	---	---	---	---	48	97
4-5am	---	---	---	---	---	66	---	---	---	---	---	67	133
5-6am	---	---	---	---	---	139	---	---	---	---	---	170	309
6-7am	---	---	---	---	---	374	---	---	---	---	---	413	787
7-8am	502	16	0	29	22	569	605	11	11	84	24	735	1,304
8-9am	567	14	0	50	40	671	568	15	17	93	30	723	1,394
9-10am	499	16	0	41	34	590	484	23	24	149	53	733	1,323
10-11am	594	8	0	26	21	649	654	10	19	47	24	754	1,403
11-12am	637	6	0	40	45	728	575	10	19	99	45	748	1,476
12-1pm	757	10	0	14	26	807	769	9	7	37	22	844	1,651
1-2pm	765	9	0	15	22	811	782	9	5	46	14	856	1,667
2-3pm	762	18	0	40	26	846	624	12	15	115	30	796	1,642
3-4pm	842	15	0	23	22	902 **	787	18	10	49	13	877	1,779 **
4-5pm	755	10	0	25	38	828	765	9	16	43	21	854	1,682
5-6pm	722	9	0	26	38	795	793	10	13	41	30	887 **	1,682
6-7pm	648	12	0	13	14	687	751	18	9	37	9	824	1,511
7-8pm	---	---	---	---	---	554	---	---	---	---	---	709	1,263
8-9pm	---	---	---	---	---	403	---	---	---	---	---	515	918
9-10pm	---	---	---	---	---	347	---	---	---	---	---	411	758
10-11pm	---	---	---	---	---	253	---	---	---	---	---	294	547
11-12pm	---	---	---	---	---	178	---	---	---	---	---	243	421
Totals	---	---	---	---	---	11,461	---	---	---	---	---	12,732	24,193
7-10am	1,568	46	0	120	96	1,830	1,657	49	52	326	107	2,191	4,021
10am-1pm	1,988	24	0	80	92	2,184	1,998	29	45	183	91	2,346	4,530
1-4pm	2,369	42	0	78	70	2,559	2,193	39	30	210	57	2,529	5,088
4-7pm	2,125	31	0	64	90	2,310	2,309	37	38	121	60	2,565	4,875
7am-7pm	8,050	143	0	342	348	8,883	8,157	154	165	840	315	9,631	18,514

Based on 1989 Classification Survey Data:

\*\* Peak Volumes



### Hourly Vehicular Volumes Eastern Boulevard Bridge - 2003

	<i>Eastbound</i>						<i>Westbound</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans	Totals	
12-1am	---	---	---	---	---	1,100	---	---	---	---	---	1,411	2,511
1-2am	---	---	---	---	---	755	---	---	---	---	---	869	1,624
2-3am	---	---	---	---	---	640	---	---	---	---	---	697	1,337
3-4am	---	---	---	---	---	765	---	---	---	---	---	697	1,462
4-5am	---	---	---	---	---	1,322	---	---	---	---	---	1,222	2,544
5-6am	---	---	---	---	---	2,604	---	---	---	---	---	2,927	5,531
6-7am	---	---	---	---	---	3,906	---	---	---	---	---	5,521	9,427
7-8am	3,516	53	66	395	129	4,159	5,668	103	123	364	268	6,526	10,685
8-9am	2,926	85	78	415	176	3,680	5,529	78	148	471	303	6,529 **	10,209
9-10am	2,719	85	98	455	176	3,533	4,306	44	80	313	228	4,971	8,504
10-11am	3,276	24	48	269	103	3,720	3,806	33	49	150	89	4,127	7,847
11-12am	3,098	15	141	414	250	3,918	3,493	24	97	270	190	4,074	7,992
12-1pm	3,904	21	70	214	124	4,333	3,956	26	32	166	95	4,275	8,608
1-2pm	4,763	31	1	167	96	5,058	3,955	52	54	161	56	4,278	9,336
2-3pm	5,071	45	0	285	210	5,611	4,054	111	88	336	129	4,718	10,329
3-4pm	5,909	42	0	157	99	6,207	4,918	71	44	191	55	5,279	11,486
4-5pm	5,723	37	0	302	190	6,252 **	4,593	111	132	305	179	5,320	11,572 **
5-6pm	5,798	60	0	91	168	6,117	4,484	35	136	173	86	4,914	11,031
6-7pm	4,526	37	0	125	121	4,809	4,327	38	78	87	60	4,590	9,399
7-8pm	---	---	---	---	---	4,015	---	---	---	---	---	3,768	7,783
8-9pm	---	---	---	---	---	3,424	---	---	---	---	---	3,083	6,507
9-10pm	---	---	---	---	---	3,063	---	---	---	---	---	2,798	5,861
10-11pm	---	---	---	---	---	2,562	---	---	---	---	---	2,561	5,123
11-12pm	---	---	---	---	---	1,959	---	---	---	---	---	2,068	4,027
Totals	---	---	---	---	---	83,512	---	---	---	---	---	87,223	170,735
7-10am	9,161	223	242	1,265	481	11,372	15,503	225	351	1,148	799	18,026	29,398
10am-1pm	10,278	60	259	897	477	11,971	11,255	83	178	586	374	12,476	24,447
1-4pm	15,743	118	1	609	405	16,876	12,927	234	186	688	240	14,275	31,151
4-7pm	16,047	134	0	518	479	17,178	13,404	184	346	565	325	14,824	32,002
7am-7pm	51,229	535	502	3,289	1,842	57,397	53,089	726	1,061	2,987	1,738	59,601	116,998

Based on 1989 Classification Survey Data

\*\* Peak Volumes

### Hourly Vehicular Volumes Hutchinson River Parkway Bridge - 2003

	<i>Northbound</i>						<i>Southbound</i>						<b>2-Way Totals</b>
	Autos	Commuter Buses	Commercial Vans	Trucks	Vans	Totals	Autos	Commuter Buses	Commercial Vans	Trucks	Vans	Totals	
12-1am	---	---	---	---	---	712	---	---	---	---	---	567	1,279
1-2am	---	---	---	---	---	327	---	---	---	---	---	309	636
2-3am	---	---	---	---	---	231	---	---	---	---	---	190	421
3-4am	---	---	---	---	---	182	---	---	---	---	---	157	339
4-5am	---	---	---	---	---	274	---	---	---	---	---	426	700
5-6am	---	---	---	---	---	1,008	---	---	---	---	---	1,408	2,416
6-7am	---	---	---	---	---	3,032	---	---	---	---	---	3,096	6,128
7-8am	4,260	4	109	159	79	4,611 **	3,859	1	19	9	106	3,994	8,605 **
8-9am	4,063	7	72	140	56	4,338	3,969	2	6	7	79	4,063	8,401
9-10am	2,930	1	82	103	66	3,182	3,029	7	13	12	89	3,150	6,332
10-11am	2,518	3	34	58	32	2,645	2,632	3	6	6	28	2,675	5,320
11-12am	2,249	0	103	99	63	2,514	2,392	0	9	10	113	2,524	5,038
12-1pm	2,419	0	30	51	24	2,524	2,578	0	3	3	37	2,621	5,145
1-2pm	2,552	6	47	65	30	2,700	2,592	5	7	0	56	2,660	5,360
2-3pm	3,159	5	124	176	68	3,532	3,067	6	13	6	106	3,198	6,730
3-4pm	3,950	3	59	76	37	4,125	3,853	12	3	3	73	3,944	8,069
4-5pm	3,653	1	86	229	81	4,050	4,229	0	18	0	78	4,325	8,375
5-6pm	3,789	1	85	141	63	4,079	4,300	0	11	9	96	4,416 **	8,495
6-7pm	3,525	0	72	101	60	3,758	3,994	0	16	2	83	4,095	7,853
7-8pm	---	---	---	---	---	3,252	---	---	---	---	---	3,369	6,621
8-9pm	---	---	---	---	---	2,527	---	---	---	---	---	2,349	4,876
9-10pm	---	---	---	---	---	2,252	---	---	---	---	---	1,925	4,177
10-11pm	---	---	---	---	---	1,915	---	---	---	---	---	1,562	3,477
11-12pm	---	---	---	---	---	1,399	---	---	---	---	---	1,003	2,402
Totals	---	---	---	---	---	59,169	---	---	---	---	---	58,026	117,195
7-10am	11,253	12	263	402	201	12,131	10,857	10	38	28	274	11,207	23,338
10am-1pm	7,186	3	167	208	119	7,683	7,602	3	18	19	178	7,820	15,503
1-4pm	9,661	14	230	317	135	10,357	9,512	23	23	9	235	9,802	20,159
4-7pm	10,967	2	243	471	204	11,887	12,523	0	45	11	257	12,836	24,723
7am-7pm	39,067	31	903	1,398	659	42,058	40,494	36	124	67	944	41,665	83,723

Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Pelham Bridge - 2003

	<b>Northbound</b>						<b>Southbound</b>						<b>2-Way Totals</b>
	Autos	Commuter Buses	Commercial Vans	Trucks	Vans	Totals	Autos	Commuter Buses	Commercial Vans	Trucks	Vans	Totals	
12-1am	---	---	---	---	---	145	---	---	---	---	---	109	254
1-2am	---	---	---	---	---	65	---	---	---	---	---	50	115
2-3am	---	---	---	---	---	47	---	---	---	---	---	32	79
3-4am	---	---	---	---	---	26	---	---	---	---	---	22	48
4-5am	---	---	---	---	---	26	---	---	---	---	---	20	46
5-6am	---	---	---	---	---	77	---	---	---	---	---	79	156
6-7am	---	---	---	---	---	238	---	---	---	---	---	262	500
7-8am	300	13	11	22	15	361	357	12	9	17	16	411	772
8-9am	350	15	5	31	27	428	341	14	11	30	29	425	853
9-10am	266	6	2	20	23	317	268	5	7	28	17	325	642
10-11am	313	2	3	28	22	368	319	7	10	10	24	370	738
11-12am	352	4	5	21	30	412	339	5	13	67	29	453	865
12-1pm	449	10	2	5	16	482	453	13	3	11	7	487	969
1-2pm	467	7	0	13	9	496	530	10	8	20	13	581	1,077
2-3pm	478	19	8	28	30	563	511	13	7	31	20	582	1,145
3-4pm	555	13	1	14	21	604	571	23	6	18	11	629	1,233
4-5pm	625	6	5	16	35	687	619	8	3	20	18	668	1,355
5-6pm	707	10	4	22	36	779 **	612	16	17	14	33	692 **	1,471 **
6-7pm	640	9	3	5	26	683	485	8	12	17	12	534	1,217
7-8pm	---	---	---	---	---	612	---	---	---	---	---	576	1,188
8-9pm	---	---	---	---	---	557	---	---	---	---	---	506	1,063
9-10pm	---	---	---	---	---	528	---	---	---	---	---	435	963
10-11pm	---	---	---	---	---	408	---	---	---	---	---	317	725
11-12pm	---	---	---	---	---	289	---	---	---	---	---	260	549
Totals	---	---	---	---	---	9,198	---	---	---	---	---	8,825	18,023
7-10am	916	34	18	73	65	1,106	966	31	27	75	62	1,161	2,267
10am-1pm	1,114	16	10	54	68	1,262	1,111	25	26	88	60	1,310	2,572
1-4pm	1,500	39	9	55	60	1,663	1,612	46	21	69	44	1,792	3,455
4-7pm	1,972	25	12	43	97	2,149	1,716	32	32	51	63	1,894	4,043
7am-7pm	5,502	114	49	225	290	6,180	5,405	134	106	283	229	6,157	12,337

Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Unionport Bridge - 2003

	<i>Eastbound</i>						<i>Westbound</i>						<b>2-Way Totals</b>
	Autos	Commuter Buses	Commercial Vans	Trucks	Vans	Totals	Autos	Commuter Buses	Commercial Vans	Trucks	Vans	Totals	
12-1am	---	---	---	---	---	389	---	---	---	---	---	382	771
1-2am	---	---	---	---	---	200	---	---	---	---	---	226	426
2-3am	---	---	---	---	---	161	---	---	---	---	---	169	330
3-4am	---	---	---	---	---	143	---	---	---	---	---	154	297
4-5am	---	---	---	---	---	188	---	---	---	---	---	220	408
5-6am	---	---	---	---	---	401	---	---	---	---	---	648	1,049
6-7am	---	---	---	---	---	994	---	---	---	---	---	1,213	2,207
7-8am	1,606	42	24	134	44	1,850	1,477	29	2	31	44	1,583	3,433
8-9am	1,736	42	54	148	78	2,058	1,458	18	0	50	36	1,562	3,620
9-10am	1,108	30	55	117	73	1,383	1,285	17	0	37	49	1,388	2,771
10-11am	876	13	14	57	32	992	1,590	22	0	19	58	1,689	2,681
11-12am	1,169	15	60	165	80	1,489	1,797	21	0	116	140	2,074 **	3,563
12-1pm	1,309	14	28	83	38	1,472	1,843	13	0	42	37	1,935	3,407
1-2pm	1,388	12	46	165	90	1,701	1,612	24	2	116	116	1,870	3,571
2-3pm	1,833	20	55	166	68	2,142	1,611	26	0	97	99	1,833	3,975
3-4pm	2,319	18	22	78	46	2,483 **	1,753	44	0	42	62	1,901	4,384 **
4-5pm	2,133	21	44	170	83	2,451	1,608	25	0	61	120	1,814	4,265
5-6pm	2,095	27	53	153	44	2,372	1,566	25	0	55	66	1,712	4,084
6-7pm	1,980	39	54	118	41	2,232	1,650	18	0	31	52	1,751	3,983
7-8pm	---	---	---	---	---	1,732	---	---	---	---	---	1,593	3,325
8-9pm	---	---	---	---	---	1,376	---	---	---	---	---	1,126	2,502
9-10pm	---	---	---	---	---	1,288	---	---	---	---	---	1,106	2,394
10-11pm	---	---	---	---	---	982	---	---	---	---	---	1,119	2,101
11-12pm	---	---	---	---	---	722	---	---	---	---	---	724	1,446
Totals	---	---	---	---	---	31,201	---	---	---	---	---	29,792	60,993
7-10am	4,450	114	133	399	195	5,291	4,220	64	2	118	129	4,533	9,824
10am-1pm	3,354	42	102	305	150	3,953	5,230	56	0	177	235	5,698	9,651
1-4pm	5,540	50	123	409	204	6,326	4,976	94	2	255	277	5,604	11,930
4-7pm	6,208	87	151	441	168	7,055	4,824	68	0	147	238	5,277	12,332
7am-7pm	19,552	293	509	1,554	717	22,625	19,250	282	4	697	879	21,112	43,737

Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Westchester Avenue Bridge - 2003

	<i>Eastbound</i>						<i>Westbound</i>						<b>2-Way Totals</b>
	Autos	Commuter Buses	Commercial Vans	Trucks	Vans	Totals	Autos	Commuter Buses	Commercial Vans	Trucks	Vans	Totals	
12-1am	---	---	---	---	---	229	---	---	---	---	---	168	397
1-2am	---	---	---	---	---	134	---	---	---	---	---	104	238
2-3am	---	---	---	---	---	99	---	---	---	---	---	91	190
3-4am	---	---	---	---	---	79	---	---	---	---	---	69	148
4-5am	---	---	---	---	---	107	---	---	---	---	---	79	186
5-6am	---	---	---	---	---	183	---	---	---	---	---	167	350
6-7am	---	---	---	---	---	406	---	---	---	---	---	504	910
7-8am	642	39	19	28	25	753	1,041	47	1	29	75	1,193 **	1,946
8-9am	763	65	10	31	30	899	925	49	1	37	53	1,065	1,964
9-10am	670	34	14	14	20	752	608	16	0	28	59	711	1,463
10-11am	672	35	5	11	16	739	557	18	0	13	9	597	1,336
11-12am	684	31	9	38	47	809	505	18	0	40	61	624	1,433
12-1pm	788	24	2	9	17	840	593	23	0	29	29	674	1,514
1-2pm	794	48	10	18	18	888	613	23	0	12	28	676	1,564
2-3pm	859	63	7	37	55	1,021	658	34	0	23	49	764	1,785
3-4pm	1,100	85	2	18	14	1,219	777	28	0	15	19	839	2,058
4-5pm	1,098	45	26	25	22	1,216	757	35	0	24	47	863	2,079
5-6pm	1,125	26	14	24	39	1,228 **	737	21	0	22	77	857	2,085 **
6-7pm	1,032	33	2	10	45	1,122	652	10	0	3	68	733	1,855
7-8pm	---	---	---	---	---	895	---	---	---	---	---	609	1,504
8-9pm	---	---	---	---	---	614	---	---	---	---	---	460	1,074
9-10pm	---	---	---	---	---	535	---	---	---	---	---	333	868
10-11pm	---	---	---	---	---	424	---	---	---	---	---	283	707
11-12pm	---	---	---	---	---	311	---	---	---	---	---	236	547
Totals	---	---	---	---	---	15,502	---	---	---	---	---	12,699	28,201
7-10am	2,075	138	43	73	75	2,404	2,574	112	2	94	187	2,969	5,373
10am-1pm	2,144	90	16	58	80	2,388	1,655	59	0	82	99	1,895	4,283
1-4pm	2,753	196	19	73	87	3,128	2,048	85	0	50	96	2,279	5,407
4-7pm	3,255	104	42	59	106	3,566	2,146	66	0	49	192	2,453	6,019
7am-7pm	10,227	528	120	263	348	11,486	8,423	322	2	275	574	9,596	21,082

Based on 1989 Classification Survey Data

\*\* Peak Volumes

*Brooklyn  
Bridges*

**Brooklyn Bridges**  
**Average Daily Traffic Volumes**  
**1948 - 2003**

<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

**Brooklyn Bridges (cont'd)**  
**Average Daily Traffic Volumes**  
**1948 - 2003**

<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



## Hourly Vehicular Volumes Carroll Street Bridge - 2003

	<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	Totals	
12-1am	---	---	---	---	---	7							7
1-2am	---	---	---	---	---	5							5
2-3am	---	---	---	---	---	4							4
3-4am	---	---	---	---	---	3							3
4-5am	---	---	---	---	---	3							3
5-6am	---	---	---	---	---	11							11
6-7am	---	---	---	---	---	27							27
7-8am	18	0	10	13	10	51							51
8-9am	32	3	10	31	27	103							103
9-10am	18	0	5	18	7	48							48
10-11am	26	0	0	15	11	52							52
11-12am	18	0	6	15	13	52							52
12-1pm	12	0	11	17	19	59							59
1-2pm	14	0	7	9	20	50							50
2-3pm	2	0	18	43	23	86							86
3-4pm	77	0	2	8	6	93							93
4-5pm	98	0	4	10	16	128 **							128 **
5-6pm	90	0	9	5	9	113							113
6-7pm	73	0	5	2	5	85							85
7-8pm	---	---	---	---	---	52							52
8-9pm	---	---	---	---	---	39							39
9-10pm	---	---	---	---	---	31							31
10-11pm	---	---	---	---	---	28							28
11-12pm	---	---	---	---	---	20							20
Totals	---	---	---	---	---	1,150	---	---	---	---	---	---	1,150
7-10am	68	3	25	62	44	202	---	---	---	---	---	---	202
10am-1pm	56	0	17	47	43	163	---	---	---	---	---	---	163
1-4pm	93	0	27	60	49	229	---	---	---	---	---	---	229
4-7pm	261	0	18	17	30	326	---	---	---	---	---	---	326
7am-7pm	478	3	87	186	166	920	---	---	---	---	---	---	920

*Bridge is 1-way eastbound*

Based on 1989 Classification Survey Data

\*\* Peak Volumes

### Hourly Vehicular Volumes Cropsey Avenue Bridge - 2003

	<i>Northbound</i>						<i>Southbound</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	211	---	---	---	---	---	277	488
1-2am	---	---	---	---	---	129	---	---	---	---	---	181	310
2-3am	---	---	---	---	---	104	---	---	---	---	---	116	220
3-4am	---	---	---	---	---	91	---	---	---	---	---	99	190
4-5am	---	---	---	---	---	146	---	---	---	---	---	147	293
5-6am	---	---	---	---	---	356	---	---	---	---	---	464	820
6-7am	---	---	---	---	---	932	---	---	---	---	---	781	1,713
7-8am	920	81	2	48	90	1,141	943	101	0	55	38	1,137 **	2,278
8-9am	957	63	3	58	65	1,146	930	75	2	51	37	1,095	2,241
9-10am	752	50	1	50	89	942	748	90	4	53	73	968	1,910
10-11am	765	43	0	27	38	873	709	24	0	32	36	801	1,674
11-12am	839	29	0	77	68	1,013	657	24	1	69	74	825	1,838
12-1pm	885	48	0	33	42	1,008	793	28	0	25	21	867	1,875
1-2pm	884	66	0	34	46	1,030	838	32	1	21	36	928	1,958
2-3pm	947	91	3	72	86	1,199	910	52	0	61	76	1,099	2,298
3-4pm	1,142	107	1	37	47	1,334 **	865	69	2	23	48	1,007	2,341 **
4-5pm	1,090	49	0	65	81	1,285	867	49	0	24	81	1,021	2,306
5-6pm	1,106	14	0	70	84	1,274	855	18	8	40	89	1,010	2,284
6-7pm	861	22	0	35	47	965	908	7	0	14	66	995	1,960
7-8pm	---	---	---	---	---	768	---	---	---	---	---	930	1,698
8-9pm	---	---	---	---	---	605	---	---	---	---	---	816	1,421
9-10pm	---	---	---	---	---	539	---	---	---	---	---	675	1,214
10-11pm	---	---	---	---	---	456	---	---	---	---	---	576	1,032
11-12pm	---	---	---	---	---	365	---	---	---	---	---	410	775
Totals	---	---	---	---	---	17,912	---	---	---	---	---	17,225	35,137
7-10am	2,629	194	6	156	244	3,229	2,621	266	6	159	148	3,200	6,429
10am-1pm	2,489	120	0	137	148	2,894	2,159	76	1	126	131	2,493	5,387
1-4pm	2,973	264	4	143	179	3,563	2,613	153	3	105	160	3,034	6,597
4-7pm	3,057	85	0	170	212	3,524	2,630	74	8	78	236	3,026	6,550
7am-7pm	11,148	663	10	606	783	13,210	10,023	569	18	468	675	11,753	24,963

Based on 1989 Classification Survey Data:

\*\* Peak Volumes

## Hourly Vehicular Volumes Hamilton Avenue Bridge - 2003

	<b>Northbound</b>						<b>Southbound</b>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	410	---	---	---	---	---	334	744
1-2am	---	---	---	---	---	301	---	---	---	---	---	195	496
2-3am	---	---	---	---	---	241	---	---	---	---	---	146	387
3-4am	---	---	---	---	---	238	---	---	---	---	---	124	362
4-5am	---	---	---	---	---	386	---	---	---	---	---	251	637
5-6am	---	---	---	---	---	1,496	---	---	---	---	---	385	1,881
6-7am	---	---	---	---	---	2,882	---	---	---	---	---	839	3,721
7-8am	2,608	38	48	240	284	3,218 **	439	45	184	378	191	1,237	4,455
8-9am	2,498	15	47	279	334	3,173	774	45	75	310	176	1,380	4,553 **
9-10am	2,225	32	39	297	296	2,889	567	53	99	478	194	1,391	4,280
10-11am	2,001	16	19	155	146	2,337	933	34	55	197	110	1,329	3,666
11-12am	1,576	18	22	221	215	2,052	469	19	110	283	206	1,087	3,139
12-1pm	1,664	9	9	86	76	1,844	739	5	48	106	72	970	2,814
1-2pm	1,494	23	9	113	74	1,713	774	12	44	146	94	1,070	2,783
2-3pm	1,292	46	19	201	186	1,744	476	13	110	282	245	1,126	2,870
3-4pm	1,634	62	9	119	104	1,928	1,109	14	65	104	88	1,380	3,308
4-5pm	1,644	55	15	170	181	2,065	1,273	11	130	168	172	1,754	3,819
5-6pm	1,703	17	15	180	147	2,062	1,665	9	106	113	190	2,083 **	4,145
6-7pm	1,330	6	13	72	125	1,546	1,471	9	104	79	113	1,776	3,322
7-8pm	---	---	---	---	---	1,368	---	---	---	---	---	1,214	2,582
8-9pm	---	---	---	---	---	998	---	---	---	---	---	680	1,678
9-10pm	---	---	---	---	---	802	---	---	---	---	---	496	1,298
10-11pm	---	---	---	---	---	752	---	---	---	---	---	448	1,200
11-12pm	---	---	---	---	---	582	---	---	---	---	---	386	968
Totals	---	---	---	---	---	37,027	---	---	---	---	---	22,081	59,108
7-10am	7,331	85	134	816	914	9,280	1,780	143	358	1,166	561	4,008	13,288
10am-1pm	5,241	43	50	462	437	6,233	2,141	58	213	586	388	3,386	9,619
1-4pm	4,420	131	37	433	364	5,385	2,359	39	219	532	427	3,576	8,961
4-7pm	4,677	78	43	422	453	5,673	4,409	29	340	360	475	5,613	11,286
7am-7pm	21,669	337	264	2,133	2,168	26,571	10,689	269	1,130	2,644	1,851	16,583	43,154

Based on 1989 Classification Survey Data:

\*\* Peak Volumes

### Hourly Vehicular Volumes Metropolitan Avenue Bridge - 2003

	<i>Eastbound</i>						<i>Westbound</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	355	---	---	---	---	---	223	578
1-2am	---	---	---	---	---	258	---	---	---	---	---	194	452
2-3am	---	---	---	---	---	206	---	---	---	---	---	199	405
3-4am	---	---	---	---	---	210	---	---	---	---	---	211	421
4-5am	---	---	---	---	---	240	---	---	---	---	---	281	521
5-6am	---	---	---	---	---	384	---	---	---	---	---	650	1,034
6-7am	---	---	---	---	---	673	---	---	---	---	---	1,609	2,282
7-8am	587	15	15	126	40	783	1,515	43	84	289	115	2,046	2,829 **
8-9am	553	16	22	179	89	859	1,253	20	58	319	134	1,784	2,643
9-10am	425	36	22	243	97	823	847	40	45	344	123	1,399	2,222
10-11am	704	8	11	99	38	860	960	21	29	110	38	1,158	2,018
11-12am	543	15	26	258	79	921	677	18	49	249	85	1,078	1,999
12-1pm	802	16	18	105	33	974	863	17	27	116	39	1,062	2,036
1-2pm	841	29	9	105	52	1,036	876	23	22	91	40	1,052	2,088
2-3pm	706	12	29	185	88	1,020	759	18	32	203	91	1,103	2,123
3-4pm	1,091	14	28	114	52	1,299	1,018	24	20	119	59	1,240	2,539
4-5pm	1,150	38	64	176	129	1,557	961	16	33	167	81	1,258	2,815
5-6pm	1,250	15	78	170	134	1,647	967	11	64	106	89	1,237	2,884 **
6-7pm	1,159	13	63	128	96	1,459	757	13	42	49	45	906	2,365
7-8pm	---	---	---	---	---	1,077	---	---	---	---	---	799	1,876
8-9pm	---	---	---	---	---	760	---	---	---	---	---	595	1,355
9-10pm	---	---	---	---	---	627	---	---	---	---	---	522	1,149
10-11pm	---	---	---	---	---	528	---	---	---	---	---	394	922
11-12pm	---	---	---	---	---	408	---	---	---	---	---	320	728
Totals	---	---	---	---	---	18,964	---	---	---	---	---	21,320	40,284
7-10am	1,565	67	59	548	226	2,465	3,615	103	187	952	372	5,229	7,694
10am-1pm	2,049	39	55	462	150	2,755	2,500	56	105	475	162	3,298	6,053
1-4pm	2,638	55	66	404	192	3,355	2,653	65	74	413	190	3,395	6,750
4-7pm	3,559	66	205	474	359	4,663	2,685	40	139	322	215	3,401	8,064
7am-7pm	9,811	227	385	1,888	927	13,238	11,453	264	505	2,162	939	15,323	28,561

Based on 1989 Classification Survey Data

\*\* Peak Volumes

### Hourly Vehicular Volumes Mill Basin Bridge - 2003

	<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	Totals	
12-1am	---	---	---	---	---	972	---	---	---	---	---	1,020	1,992
1-2am	---	---	---	---	---	578	---	---	---	---	---	575	1,153
2-3am	---	---	---	---	---	374	---	---	---	---	---	361	735
3-4am	---	---	---	---	---	386	---	---	---	---	---	304	690
4-5am	---	---	---	---	---	650	---	---	---	---	---	570	1,220
5-6am	---	---	---	---	---	2,017	---	---	---	---	---	1,800	3,817
6-7am	---	---	---	---	---	3,819	---	---	---	---	---	3,779	7,598
7-8am	4,167	58	21	5	226	4,477	4,030	19	0	126	153	4,328	8,805
8-9am	4,072	16	14	15	186	4,303	3,514	45	0	102	179	3,840	8,143
9-10am	3,467	9	17	23	248	3,764	3,947	77	1	119	203	4,347	8,111
10-11am	3,554	9	12	15	97	3,687	3,236	16	0	35	59	3,346	7,033
11-12am	2,961	4	65	30	288	3,348	3,135	0	5	166	165	3,471	6,819
12-1pm	3,446	5	21	15	120	3,607	3,131	0	0	73	120	3,324	6,931
1-2pm	3,487	96	14	12	116	3,725	3,351	10	0	37	77	3,475	7,200
2-3pm	3,902	41	27	16	319	4,305	3,850	7	0	118	179	4,154	8,459
3-4pm	4,393	26	16	6	158	4,599 **	4,189	75	0	82	115	4,461	9,060
4-5pm	4,238	13	40	7	253	4,551	4,173	41	2	130	197	4,543 **	9,094 **
5-6pm	4,123	6	18	14	200	4,361	4,171	31	3	135	167	4,507	8,868
6-7pm	3,675	4	15	5	188	3,887	4,040	3	1	107	156	4,307	8,194
7-8pm	---	---	---	---	---	3,663	---	---	---	---	---	3,793	7,456
8-9pm	---	---	---	---	---	3,201	---	---	---	---	---	3,227	6,428
9-10pm	---	---	---	---	---	2,855	---	---	---	---	---	2,776	5,631
10-11pm	---	---	---	---	---	2,127	---	---	---	---	---	2,332	4,459
11-12pm	---	---	---	---	---	1,611	---	---	---	---	---	1,705	3,316
Totals	---	---	---	---	---	70,867	---	---	---	---	---	70,345	141,212
7-10am	11,706	83	52	43	660	12,544	11,491	141	1	347	535	12,515	25,059
10am-1pm	9,961	18	98	60	505	10,642	9,502	16	5	274	344	10,141	20,783
1-4pm	11,782	163	57	34	593	12,629	11,390	92	0	237	371	12,090	24,719
4-7pm	12,036	23	73	26	641	12,799	12,384	75	6	372	520	13,357	26,156
7am-7pm	45,485	287	280	163	2,399	48,614	44,767	324	12	1,230	1,770	48,103	96,717

Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Ninth Street Bridge - 2003

	<i>Eastbound</i>						<i>Westbound</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	49	---	---	---	---	---	85	134
1-2am	---	---	---	---	---	37	---	---	---	---	---	67	104
2-3am	---	---	---	---	---	23	---	---	---	---	---	41	64
3-4am	---	---	---	---	---	26	---	---	---	---	---	32	58
4-5am	---	---	---	---	---	26	---	---	---	---	---	60	86
5-6am	---	---	---	---	---	45	---	---	---	---	---	159	204
6-7am	---	---	---	---	---	144	---	---	---	---	---	287	431
7-8am	126	18	4	15	10	173	359	9	0	41	35	444	617
8-9am	136	19	8	42	14	219	450	5	0	46	37	538	757 **
9-10am	129	16	3	39	18	205	360	9	0	37	23	429	634
10-11am	152	14	3	17	9	195	325	8	0	15	12	360	555
11-12am	130	12	8	36	8	194	211	23	0	70	32	336	530
12-1pm	140	9	8	18	8	183	223	24	0	62	30	339	522
1-2pm	106	13	14	74	14	221	259	6	34	22	22	343	564
2-3pm	124	13	9	40	15	201	280	16	13	30	22	361	562
3-4pm	171	11	2	17	12	213	302	17	0	26	15	360	573
4-5pm	168	10	4	24	17	223 **	281	12	0	44	28	365	588
5-6pm	172	14	1	26	10	223 **	291	20	0	20	14	345	568
6-7pm	143	13	1	37	14	208	273	9	0	12	8	302	510
7-8pm	---	---	---	---	---	156	---	---	---	---	---	213	369
8-9pm	---	---	---	---	---	127	---	---	---	---	---	184	311
9-10pm	---	---	---	---	---	94	---	---	---	---	---	155	249
10-11pm	---	---	---	---	---	91	---	---	---	---	---	144	235
11-12pm	---	---	---	---	---	69	---	---	---	---	---	112	181
Totals	---	---	---	---	---	3,345	---	---	---	---	---	6,061	9,406
7-10am	391	53	15	96	42	597	1,169	23	0	124	95	1,411	2,008
10am-1pm	422	35	19	71	25	572	759	55	0	147	74	1,035	1,607
1-4pm	401	37	25	131	41	635	841	39	47	78	59	1,064	1,699
4-7pm	483	37	6	87	41	654	845	41	0	76	50	1,012	1,666
7am-7pm	1,697	162	65	385	149	2,458	3,614	158	47	425	278	4,522	6,980

Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Stillwell Avenue Bridge - 2003

	<i>Northbound</i>						<i>Southbound</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	50	---	---	---	---	---	51	101
1-2am	---	---	---	---	---	40	---	---	---	---	---	30	70
2-3am	---	---	---	---	---	25	---	---	---	---	---	23	48
3-4am	---	---	---	---	---	16	---	---	---	---	---	23	39
4-5am	---	---	---	---	---	20	---	---	---	---	---	28	48
5-6am	---	---	---	---	---	34	---	---	---	---	---	95	129
6-7am	---	---	---	---	---	104	---	---	---	---	---	248	352
7-8am	154	14	0	25	0	193	287	63	0	20	0	370	563
8-9am	154	21	0	28	0	203	365	48	0	28	0	441	644
9-10am	174	27	0	32	0	233	233	22	0	103	0	358	591
10-11am	181	28	0	45	0	254	254	27	0	71	0	352	606
11-12am	214	12	0	60	0	286	285	18	0	53	0	356	642
12-1pm	206	14	0	75	0	295	305	22	0	53	0	380	675
1-2pm	211	24	0	78	0	313	286	24	0	82	0	392	705
2-3pm	222	27	0	62	0	311	295	34	0	122	0	451	762
3-4pm	259	35	0	41	0	335	400	26	0	65	0	491 **	826 **
4-5pm	276	37	0	44	0	357 **	304	23	0	49	0	376	733
5-6pm	283	22	0	20	0	325	305	19	0	34	0	358	683
6-7pm	224	24	0	11	0	259	254	24	0	12	0	290	549
7-8pm	---	---	---	---	---	176	---	---	---	---	---	267	443
8-9pm	---	---	---	---	---	154	---	---	---	---	---	167	321
9-10pm	---	---	---	---	---	119	---	---	---	---	---	128	247
10-11pm	---	---	---	---	---	97	---	---	---	---	---	102	199
11-12pm	---	---	---	---	---	78	---	---	---	---	---	84	162
Totals	---	---	---	---	---	4,277	---	---	---	---	---	5,861	10,138
7-10am	482	62	0	85	0	629	885	133	0	151	0	1,169	1,798
10am-1pm	601	54	0	180	0	835	844	67	0	177	0	1,088	1,923
1-4pm	692	86	0	181	0	959	981	84	0	269	0	1,334	2,293
4-7pm	783	83	0	75	0	941	863	66	0	95	0	1,024	1,965
7am-7pm	2,558	285	0	521	0	3,364	3,573	350	0	692	0	4,615	7,979

Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Third Avenue Bridge - 2003

	<i>Northbound</i>						<i>Southbound</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	51	---	---	---	---	---	100	151
1-2am	---	---	---	---	---	53	---	---	---	---	---	81	134
2-3am	---	---	---	---	---	46	---	---	---	---	---	60	106
3-4am	---	---	---	---	---	91	---	---	---	---	---	45	136
4-5am	---	---	---	---	---	307	---	---	---	---	---	61	368
5-6am	---	---	---	---	---	817	---	---	---	---	---	108	925
6-7am	---	---	---	---	---	1,167	---	---	---	---	---	249	1,416
7-8am	1,010	19	0	142	104	1,275 **	258	7	0	47	36	348	1,623
8-9am	624	8	0	64	56	752	280	11	0	63	33	387	1,139
9-10am	352	7	0	118	81	558	294	8	2	69	46	419	977
10-11am	479	9	0	35	31	554	383	5	1	39	29	457	1,011
11-12am	396	8	1	85	52	542	383	5	0	73	50	511	1,053
12-1pm	534	3	0	33	24	594	463	4	1	29	26	523	1,117
1-2pm	400	8	0	57	41	506	452	5	0	35	30	522	1,028
2-3pm	324	14	0	93	68	499	449	7	0	100	59	615	1,114
3-4pm	560	15	0	54	47	676	748	7	0	29	38	822	1,498
4-5pm	538	10	0	69	74	691	786	10	0	81	94	971	1,662 **
5-6pm	404	5	0	21	32	462	881	5	0	57	74	1,017 **	1,479
6-7pm	264	6	0	21	14	305	697	6	0	50	67	820	1,125
7-8pm	---	---	---	---	---	267	---	---	---	---	---	529	796
8-9pm	---	---	---	---	---	211	---	---	---	---	---	391	602
9-10pm	---	---	---	---	---	165	---	---	---	---	---	264	429
10-11pm	---	---	---	---	---	130	---	---	---	---	---	221	351
11-12pm	---	---	---	---	---	95	---	---	---	---	---	182	277
Totals	---	---	---	---	---	10,814	---	---	---	---	---	9,703	20,517
7-10am	1,986	34	0	324	241	2,585	832	26	2	179	115	1,154	3,739
10am-1pm	1,409	20	1	153	107	1,690	1,229	14	2	141	105	1,491	3,181
1-4pm	1,284	37	0	204	156	1,681	1,649	19	0	164	127	1,959	3,640
4-7pm	1,206	21	0	111	120	1,458	2,364	21	0	188	235	2,808	4,266
7am-7pm	5,885	112	1	792	624	7,414	6,074	80	4	672	582	7,412	14,826

Based on 1989 Classification Survey Data

\*\* Peak Volumes



## Hourly Vehicular Volumes Third Street Bridge - 2003

	<i>Eastbound</i>						<i>Westbound</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	26	---	---	---	---	---	41	67
1-2am	---	---	---	---	---	12	---	---	---	---	---	23	35
2-3am	---	---	---	---	---	8	---	---	---	---	---	20	28
3-4am	---	---	---	---	---	9	---	---	---	---	---	15	24
4-5am	---	---	---	---	---	15	---	---	---	---	---	25	40
5-6am	---	---	---	---	---	29	---	---	---	---	---	129	158
6-7am	---	---	---	---	---	99	---	---	---	---	---	346	445
7-8am	134	6	0	17	14	171	576	13	6	34	47	676	847
8-9am	223	0	0	21	16	260	783	9	5	42	64	903 **	1,163 **
9-10am	150	0	0	21	27	198	467	1	1	42	49	560	758
10-11am	169	0	0	7	7	183	356	0	0	29	28	413	596
11-12am	153	0	2	25	10	190	233	3	2	63	55	356	546
12-1pm	182	0	0	8	10	200	310	3	0	26	16	355	555
1-2pm	189	0	0	0	7	196	272	11	13	22	19	337	533
2-3pm	207	0	0	14	9	230	251	8	38	57	21	375	605
3-4pm	264	9	0	9	4	286	334	12	18	24	12	400	686
4-5pm	309	0	0	11	22	342	262	3	19	36	13	333	675
5-6pm	324	0	0	14	27	365 **	262	3	15	28	0	308	673
6-7pm	246	0	0	7	2	255	182	3	19	14	2	220	475
7-8pm	---	---	---	---	---	177	---	---	---	---	---	186	363
8-9pm	---	---	---	---	---	112	---	---	---	---	---	141	253
9-10pm	---	---	---	---	---	79	---	---	---	---	---	112	191
10-11pm	---	---	---	---	---	71	---	---	---	---	---	102	173
11-12pm	---	---	---	---	---	49	---	---	---	---	---	72	121
Totals	---	---	---	---	---	3,562	---	---	---	---	---	6,448	10,010
7-10am	507	6	0	59	57	629	1,826	23	12	118	160	2,139	2,768
10am-1pm	504	0	2	40	27	573	899	6	2	118	99	1,124	1,697
1-4pm	660	9	0	23	20	712	857	31	69	103	52	1,112	1,824
4-7pm	879	0	0	32	51	962	706	9	53	78	15	861	1,823
7am-7pm	2,550	15	2	154	155	2,876	4,288	69	136	417	326	5,236	8,112

Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Union Street Bridge - 2003

	<i>Eastbound</i>						<i>Westbound</i>						<b>Grand Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	56							56
1-2am	---	---	---	---	---	29							29
2-3am	---	---	---	---	---	17							17
3-4am	---	---	---	---	---	15							15
4-5am	---	---	---	---	---	16							16
5-6am	---	---	---	---	---	35							35
6-7am	---	---	---	---	---	98							98
7-8am	156	9	0	16	17	198							198
8-9am	251	11	0	34	31	327							327
9-10am	194	5	0	21	41	261							261
10-11am	231	5	0	9	11	256							256
11-12am	200	2	0	23	25	250							250
12-1pm	235	2	0	11	22	270							270
1-2pm	220	5	0	14	14	253							253
2-3pm	248	5	0	45	34	332							332
3-4pm	381	4	0	19	15	419							419
4-5pm	356	2	0	23	29	410							410
5-6pm	394	1	0	8	21	424 **							424 **
6-7pm	323	1	0	17	24	365							365
7-8pm	---	---	---	---	---	271							271
8-9pm	---	---	---	---	---	188							188
9-10pm	---	---	---	---	---	150							150
10-11pm	---	---	---	---	---	114							114
11-12pm	---	---	---	---	---	89							89
Totals	---	---	---	---	---	4,843	---	---	---	---	---	---	4,843
7-10am	601	25	0	71	89	786	---	---	---	---	---	---	786
10am-1pm	666	9	0	43	58	776	---	---	---	---	---	---	776
1-4pm	849	14	0	78	63	1,004	---	---	---	---	---	---	1,004
4-7pm	1,073	4	0	48	74	1,199	---	---	---	---	---	---	1,199
7am-7pm	3,189	52	0	240	284	3,765	---	---	---	---	---	---	3,765

*Bridge is 1-way eastbound*

Based on 1989 Classification Survey Data

\*\* Peak Volumes

*Queens  
Bridges*

**Queens Bridges**  
**Average Daily Traffic Volumes**  
**1948 - 2003**

<b>Year</b>	<b>Borden Avenue</b>	<b>Flushing</b>	<b>Hook Creek</b>	<b>Hunters Point</b>	<b>Little Neck</b>	<b>Midtown Highway</b>
1948	4,846	26,276	9,620	5,500	22,255	28,754
1949	11,052	29,949	14,969	9,482	21,190	27,963
1950	6,222	30,836	18,240	6,751	19,549	32,429
1951	5,930	50,918	16,064	6,000	30,873	31,812
1952	6,155	40,589	16,856	5,688	31,544	35,088
1953	7,473	46,952	17,218	6,575	29,266	34,513
1954	5,997	39,837	23,389	7,611	35,614	30,495
1955	6,793	34,201	19,481	2,984	30,428	39,650
1956	7,612	47,985	20,796	6,267	43,761	49,944
1957	7,759	53,836	18,691	7,018	38,387	47,481
1958	7,833	43,075	28,031	5,735	30,029	45,593
1959	9,992	28,616	30,663	7,603	27,072	55,665
1960	9,739	37,833	33,549	7,753	23,718	62,051
1961	9,030	36,383	34,598	7,337	24,851	62,520
1962	8,860	35,370	36,590	7,150	26,670	57,600
1963	9,480	46,210	37,450	7,170	30,040	57,770
1964	16,530	40,220	38,620	5,110	27,980	60,610
1965	8,026	40,484	35,185	6,652	33,504	60,973
1966	9,461	42,613	38,742	6,882	33,383	68,752
1967	9,348	32,479	38,995	6,206	37,097	72,962
1968	8,761	38,664	44,000	6,601	36,281	69,058
1969	11,083	47,945	51,067	7,073	38,901	62,712
1970	10,318	47,311	44,588	6,544	42,606	84,844
1971	11,721	48,238	44,185	7,072	44,528	75,706
1972	11,201	50,499	45,365	6,825	38,604	65,481
1973	11,276	54,597	50,681	8,515	44,193	73,292
1974	12,272	48,909	53,120	5,899	39,506	68,127
1975	17,135	53,431	48,089	Closed	37,741	67,933
1976	17,883	47,569	55,722	Closed	39,382	64,438
1977	17,072	49,420	44,370	Closed	43,122	60,501
1978	16,769	48,491	47,286	Closed	42,052	85,223
1979	16,055	35,518	52,650	Closed	46,197	70,893
1980	15,068	48,856	45,169	Closed	38,735	74,334
1981	18,630	42,040	50,566	Closed	41,135	100,182
1982	21,793	54,661	52,193	Closed	41,470	100,182
1983	22,123	51,237	54,087	Closed	44,436	88,132
1984	18,724	54,323	50,681	4,044	47,623	89,000
1985	18,723	64,382	50,458	4,755	42,737	73,315
1986	14,714	64,371	56,735	5,870	44,125	71,938
1987	15,067	62,811	57,634	5,938	45,069	70,079
1988	14,907	62,956	61,083	6,549	43,826	71,761
1989	14,698	61,756	63,406	6,746	36,085	65,160
1990	18,430	61,248	57,660	10,849	28,746	66,269
1991	16,122	58,189	57,442	10,279	42,895	74,328
1992	13,146	61,306	64,502	10,997	48,388	72,144
1993	15,074	54,005	60,517	8,138	48,906	64,368
1994	14,412	58,837	64,545	6,804	48,314	66,633
1995	14,074	59,543	66,517	7,594	50,034	67,810
1996	16,661	61,211	66,151	7,781	49,640	69,394
1997	14,293	59,792	63,618	7,275	51,718	69,273
1998	15,182	60,864	66,123	7,024	52,876	70,486
1999	14,156	63,348	70,555	8,509	52,846	72,749
2000	15,063	66,243	74,130	8,475	49,504	79,662
2001	15,780	62,364	72,027	8,261	53,423	82,431
2002	15,788	64,301	69,963	7,822	58,529	81,392
2003	16,035	62,644	72,562	7,412	60,033	84,243

**Queens Bridges (cont'd)**  
**Average Daily Traffic Volumes**  
**1948 - 2003**

<b>Year</b>	<b>North Channel</b>	<b>Rikers Island</b>	<b>Roosevelt Avenue</b>	<b>Roosevelt Island</b>	<b>Whitestone Expressway</b>	<b>Totals</b>
1948	8,521	Bridge opened	14,044	Bridge opened	27,290	147,106
1949	8,855		18,907		31,558	173,925
1950	7,361	11/22/1966	20,451	05/18/1955	38,771	180,610
1951	9,868		9,330		39,368	200,163
1952	8,952		23,596		44,219	212,687
1953	10,941		20,473		47,455	220,866
1954	10,661		18,007		50,089	221,700
1955	11,315		20,123	2,144	51,577	218,696
1956	10,216		17,987	2,689	57,982	265,239
1957	6,192		20,984	2,157	58,606	261,111
1958	12,763		19,653	3,137	60,687	256,536
1959	13,453		29,616	2,760	58,761	264,201
1960	14,923		18,153	3,014	48,615	259,348
1961	13,165		21,475	2,947	53,542	265,848
1962	15,900		24,440	3,220	41,340	257,140
1963	19,730		29,500	3,220	47,620	288,190
1964	18,020		18,110	3,440	83,450	312,090
1965	20,629		20,143	3,791	81,201	310,588
1966	18,890		18,728	4,133	71,795	313,379
1967	17,748	1,973	21,493	5,973	110,363	354,637
1968	18,258	2,809	21,352	4,987	136,741	387,512
1969	18,957	2,983	19,588	4,675	122,162	387,146
1970	20,937	3,543	21,656	6,201	111,833	400,381
1971	22,426	3,594	21,587	6,182	117,614	402,853
1972	20,342	3,680	20,754	7,007	118,050	387,808
1973	17,885	4,850	20,910	7,944	113,395	407,538
1974	19,541	4,794	19,545	8,656	123,204	403,573
1975	18,971	4,784	19,256	6,417	116,750	390,507
1976	15,231	4,891	17,351	7,031	118,164	387,662
1977	16,228	4,423	18,776	7,809	125,682	387,403
1978	18,456	4,728	19,058	6,851	121,123	410,037
1979	19,004	5,491	19,980	6,838	121,123	393,749
1980	19,156	6,066	19,090	7,501	110,606	384,581
1981	15,931	6,085	17,911	8,383	132,023	432,886
1982	15,931	6,946	16,944	8,064	120,944	439,128
1983	15,392	7,807	15,051	8,940	139,721	446,926
1984	16,323	9,487	20,292	8,787	129,834	449,118
1985	21,619	6,019	25,548	8,190	134,650	450,396
1986	18,480	8,056	23,219	9,199	139,464	456,171
1987	16,620	12,386	19,567	8,754	153,040	466,965
1988	17,032	12,070	22,567	10,207	150,777	473,735
1989	17,242	11,493	24,440	9,501	151,292	461,819
1990	18,115	11,195	23,285	9,275	145,247	450,319
1991	19,267	12,491	23,466	10,236	141,824	466,539
1992	19,666	15,579	23,687	9,751	145,669	484,835
1993	17,699	14,206	28,012	9,830	146,440	467,195
1994	16,516	12,494	24,631	9,638	155,969	478,793
1995	17,388	12,213	22,758	9,382	147,029	474,342
1996	17,519	11,906	22,543	9,489	163,578	495,873
1997	18,991	12,461	24,566	9,302	172,034	503,323
1998	19,114	15,672	22,994	10,048	182,516	522,899
1999	19,337	14,240	23,784	9,491	192,099	541,114
2000	20,673	13,150	22,749	9,198	192,482	551,329
2001	20,785	14,503	22,856	9,655	189,031	551,116
2002	22,779	13,447	22,235	9,444	188,758	554,458
2003	23,958	16,966	20,281	9,203	188,770	562,107

## Hourly Vehicular Volumes Borden Avenue Bridge - 2003

	<i>Eastbound</i>						<i>Westbound</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	52	---	---	---	---	---	94	146
1-2am	---	---	---	---	---	41	---	---	---	---	---	65	106
2-3am	---	---	---	---	---	29	---	---	---	---	---	72	101
3-4am	---	---	---	---	---	38	---	---	---	---	---	102	140
4-5am	---	---	---	---	---	33	---	---	---	---	---	165	198
5-6am	---	---	---	---	---	68	---	---	---	---	---	516	584
6-7am	---	---	---	---	---	134	---	---	---	---	---	1,085	1,219
7-8am	93	7	3	44	23	170	862	17	33	107	109	1,128	1,298
8-9am	122	7	6	78	38	251	1,032	11	15	99	43	1,200	1,451
9-10am	124	9	3	83	47	266	627	5	12	101	65	810	1,076
10-11am	191	5	9	51	22	278	592	10	5	53	17	677	955
11-12am	138	4	3	102	44	291	480	9	10	141	53	693	984
12-1pm	216	6	3	39	20	284	529	7	5	64	20	625	909
1-2pm	197	2	3	40	19	261	489	6	5	66	41	607	868
2-3pm	157	2	21	89	42	311	414	12	9	110	38	583	894
3-4pm	295	4	10	30	12	351	495	39	4	41	19	598	949
4-5pm	311	8	20	40	30	409	441	40	11	77	21	590	999
5-6pm	363	4	12	51	24	454	408	18	7	23	20	476	930
6-7pm	188	1	12	35	23	259	297	12	9	24	14	356	615
7-8pm	---	---	---	---	---	188	---	---	---	---	---	322	510
8-9pm	---	---	---	---	---	108	---	---	---	---	---	230	338
9-10pm	---	---	---	---	---	74	---	---	---	---	---	213	287
10-11pm	---	---	---	---	---	72	---	---	---	---	---	192	264
11-12pm	---	---	---	---	---	59	---	---	---	---	---	155	214
Totals	---	---	---	---	---	4,481	---	---	---	---	---	11,554	16,035
7-10am	339	23	12	205	108	687	2,521	33	60	307	217	3,138	3,825
10am-1pm	545	15	15	192	86	853	1,601	26	20	258	90	1,995	2,848
1-4pm	649	8	34	159	73	923	1,398	57	18	217	98	1,788	2,711
4-7pm	862	13	44	126	77	1,122	1,146	70	27	124	55	1,422	2,544
7am-7pm	2,395	59	105	682	344	3,585	6,666	186	125	906	460	8,343	11,928

Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Flushing Bridge - 2003

	<b>Eastbound</b>						<b>Westbound</b>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	574	---	---	---	---	---	426	1,000
1-2am	---	---	---	---	---	392	---	---	---	---	---	280	672
2-3am	---	---	---	---	---	264	---	---	---	---	---	250	514
3-4am	---	---	---	---	---	220	---	---	---	---	---	260	480
4-5am	---	---	---	---	---	242	---	---	---	---	---	360	602
5-6am	---	---	---	---	---	343	---	---	---	---	---	784	1,127
6-7am	---	---	---	---	---	711	---	---	---	---	---	1,891	2,602
7-8am	955	42	7	83	114	1,201	2,307	14	58	110	253	2,742 **	3,943
8-9am	1,255	30	18	120	138	1,561	2,102	25	52	137	276	2,592	4,153 **
9-10am	1,308	14	33	141	102	1,598	1,497	10	60	153	250	1,970	3,568
10-11am	1,358	17	20	70	84	1,549	1,471	12	15	74	86	1,658	3,207
11-12am	1,241	8	48	122	209	1,628	1,314	2	25	123	159	1,623	3,251
12-1pm	1,535	8	27	62	98	1,730	1,425	6	6	74	90	1,601	3,331
1-2pm	1,492	21	17	68	141	1,739	1,472	13	22	67	42	1,616	3,355
2-3pm	1,280	28	34	136	339	1,817	1,381	21	56	107	96	1,661	3,478
3-4pm	1,663	20	18	52	184	1,937	1,707	32	24	56	48	1,867	3,804
4-5pm	1,610	14	30	63	286	2,003	1,511	12	33	62	93	1,711	3,714
5-6pm	1,746	13	15	51	256	2,081 **	1,453	7	48	53	93	1,654	3,735
6-7pm	1,761	9	10	37	214	2,031	1,536	8	16	39	55	1,654	3,685
7-8pm	---	---	---	---	---	1,871	---	---	---	---	---	1,483	3,354
8-9pm	---	---	---	---	---	1,516	---	---	---	---	---	1,408	2,924
9-10pm	---	---	---	---	---	1,181	---	---	---	---	---	1,253	2,434
10-11pm	---	---	---	---	---	1,073	---	---	---	---	---	1,020	2,093
11-12pm	---	---	---	---	---	829	---	---	---	---	---	789	1,618
Totals	---	---	---	---	---	30,091	---	---	---	---	---	32,553	62,644
7-10am	3,518	86	58	344	354	4,360	5,906	49	170	400	779	7,304	11,664
10am-1pm	4,134	33	95	254	391	4,907	4,210	20	46	271	335	4,882	9,789
1-4pm	4,435	69	69	256	664	5,493	4,560	66	102	230	186	5,144	10,637
4-7pm	5,117	36	55	151	756	6,115	4,500	27	97	154	241	5,019	11,134
7am-7pm	17,204	224	277	1,005	2,165	20,875	19,176	162	415	1,055	1,541	22,349	43,224

Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Hook Creek Bridge - 2003

	<i>Northbound</i>						<i>Southbound</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	391	---	---	---	---	---	697	1,088
1-2am	---	---	---	---	---	246	---	---	---	---	---	360	606
2-3am	---	---	---	---	---	172	---	---	---	---	---	249	421
3-4am	---	---	---	---	---	203	---	---	---	---	---	211	414
4-5am	---	---	---	---	---	384	---	---	---	---	---	242	626
5-6am	---	---	---	---	---	1,044	---	---	---	---	---	464	1,508
6-7am	---	---	---	---	---	2,136	---	---	---	---	---	1,295	3,431
7-8am	2,369	17	57	73	41	2,557 **	1,508	13	137	137	100	1,895	4,452
8-9am	2,069	16	76	111	64	2,336	1,743	9	132	153	88	2,125	4,461
9-10am	1,551	6	54	119	58	1,788	1,589	7	79	126	81	1,882	3,670
10-11am	1,601	2	12	45	38	1,698	1,577	2	11	54	45	1,689	3,387
11-12am	1,454	9	39	164	76	1,742	1,595	2	13	102	82	1,794	3,536
12-1pm	1,705	8	23	53	18	1,807	1,858	0	12	43	26	1,939	3,746
1-2pm	1,707	12	38	66	48	1,871	1,771	6	62	121	51	2,011	3,882
2-3pm	1,752	15	43	77	70	1,957	2,059	3	34	96	81	2,273	4,230
3-4pm	2,012	32	10	25	15	2,094	2,406	3	20	38	44	2,511	4,605
4-5pm	1,938	10	24	41	32	2,045	2,421	3	42	56	65	2,587	4,632
5-6pm	1,967	11	37	38	80	2,133	2,447	7	58	40	75	2,627	4,760 **
6-7pm	1,756	11	40	22	18	1,847	2,610	4	53	38	28	2,733 **	4,580
7-8pm	---	---	---	---	---	1,633	---	---	---	---	---	2,509	4,142
8-9pm	---	---	---	---	---	1,517	---	---	---	---	---	1,829	3,346
9-10pm	---	---	---	---	---	1,217	---	---	---	---	---	1,551	2,768
10-11pm	---	---	---	---	---	1,031	---	---	---	---	---	1,357	2,388
11-12pm	---	---	---	---	---	784	---	---	---	---	---	1,099	1,883
Totals	---	---	---	---	---	34,633	---	---	---	---	---	37,929	72,562
7-10am	5,989	39	187	303	163	6,681	4,840	29	348	416	269	5,902	12,583
10am-1pm	4,760	19	74	262	132	5,247	5,030	4	36	199	153	5,422	10,669
1-4pm	5,471	59	91	168	133	5,922	6,236	12	116	255	176	6,795	12,717
4-7pm	5,661	32	101	101	130	6,025	7,478	14	153	134	168	7,947	13,972
7am-7pm	21,881	149	453	834	558	23,875	23,584	59	653	1,004	766	26,066	49,941

Based on 1989 Classification Survey Data

\*\* Peak Volumes



## Hourly Vehicular Volumes Hunters Point Bridge - 2003

	<i>Eastbound</i>						<i>Westbound</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	28	---	---	---	---	---	34	62
1-2am	---	---	---	---	---	17	---	---	---	---	---	30	47
2-3am	---	---	---	---	---	14	---	---	---	---	---	22	36
3-4am	---	---	---	---	---	12	---	---	---	---	---	27	39
4-5am	---	---	---	---	---	13	---	---	---	---	---	66	79
5-6am	---	---	---	---	---	36	---	---	---	---	---	164	200
6-7am	---	---	---	---	---	118	---	---	---	---	---	349	467
7-8am	101	0	14	15	12	142	286	1	16	26	56	385	527
8-9am	95	0	6	25	43	169	340	0	7	28	29	404	573 **
9-10am	112	0	2	31	36	181	219	0	3	40	45	307	488
10-11am	167	0	5	23	7	202	209	0	1	23	14	247	449
11-12am	109	1	8	30	23	171	204	0	2	49	30	285	456
12-1pm	128	0	7	20	20	175	236	0	2	35	23	296	471
1-2pm	140	0	11	21	23	195	221	3	3	24	26	277	472
2-3pm	149	0	22	40	40	251 **	215	10	2	37	35	299	550
3-4pm	196	0	8	21	7	232	251	4	1	8	4	268	500
4-5pm	170	0	13	19	33	235	180	39	2	9	28	258	493
5-6pm	190	0	11	2	21	224	210	11	1	16	17	255	479
6-7pm	124	1	2	6	15	148	169	4	3	6	16	198	346
7-8pm	---	---	---	---	---	98	---	---	---	---	---	113	211
8-9pm	---	---	---	---	---	62	---	---	---	---	---	75	137
9-10pm	---	---	---	---	---	55	---	---	---	---	---	59	114
10-11pm	---	---	---	---	---	58	---	---	---	---	---	45	103
11-12pm	---	---	---	---	---	46	---	---	---	---	---	67	113
Totals	---	---	---	---	---	2,882	---	---	---	---	---	4,530	7,412
7-10am	308	0	22	71	91	492	845	1	26	94	130	1,096	1,588
10am-1pm	404	1	20	73	50	548	649	0	5	107	67	828	1,376
1-4pm	485	0	41	82	70	678	687	17	6	69	65	844	1,522
4-7pm	484	1	26	27	69	607	559	54	6	31	61	711	1,318
7am-7pm	1,681	2	109	253	280	2,325	2,740	72	43	301	323	3,479	5,804

Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Little Neck Bridge - 2003

	<i>Eastbound</i>						<i>Westbound</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	181	---	---	---	---	---	248	429
1-2am	---	---	---	---	---	94	---	---	---	---	---	132	226
2-3am	---	---	---	---	---	67	---	---	---	---	---	84	151
3-4am	---	---	---	---	---	57	---	---	---	---	---	62	119
4-5am	---	---	---	---	---	87	---	---	---	---	---	90	177
5-6am	---	---	---	---	---	376	---	---	---	---	---	260	636
6-7am	---	---	---	---	---	1,535	---	---	---	---	---	761	2,296
7-8am	2,046	65	114	177	109	2,511 **	1,909	79	7	39	99	2,133	4,644
8-9am	1,837	29	86	77	57	2,086	1,990	55	3	41	85	2,174	4,260
9-10am	1,453	21	65	80	29	1,648	1,512	9	0	44	83	1,648	3,296
10-11am	1,330	10	32	51	34	1,457	1,411	12	0	31	38	1,492	2,949
11-12am	1,233	14	31	71	57	1,406	1,363	9	0	85	71	1,528	2,934
12-1pm	1,359	15	11	47	14	1,446	1,496	13	0	35	57	1,601	3,047
1-2pm	1,347	11	24	36	38	1,456	1,608	3	0	30	45	1,686	3,142
2-3pm	1,316	16	64	86	64	1,546	1,756	15	0	63	124	1,958	3,504
3-4pm	1,587	19	18	36	21	1,681	2,369	18	0	27	85	2,499	4,180
4-5pm	1,569	13	72	127	84	1,865	2,353	28	0	70	170	2,621	4,486
5-6pm	1,919	21	58	48	97	2,143	2,529	19	0	15	96	2,659 **	4,802 **
6-7pm	1,898	19	58	46	39	2,060	2,263	13	0	9	83	2,368	4,428
7-8pm	---	---	---	---	---	1,751	---	---	---	---	---	1,788	3,539
8-9pm	---	---	---	---	---	1,213	---	---	---	---	---	1,268	2,481
9-10pm	---	---	---	---	---	959	---	---	---	---	---	940	1,899
10-11pm	---	---	---	---	---	765	---	---	---	---	---	710	1,475
11-12pm	---	---	---	---	---	468	---	---	---	---	---	465	933
Totals	---	---	---	---	---	28,858	---	---	---	---	---	31,175	60,033
7-10am	5,336	115	265	334	195	6,245	5,411	143	10	124	267	5,955	12,200
10am-1pm	3,922	39	74	169	105	4,309	4,270	34	0	151	166	4,621	8,930
1-4pm	4,250	46	106	158	123	4,683	5,733	36	0	120	254	6,143	10,826
4-7pm	5,386	53	188	221	220	6,068	7,145	60	0	94	349	7,648	13,716
7am-7pm	18,894	253	633	882	643	21,305	22,559	273	10	489	1,036	24,367	45,672

Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Midtown Highway Bridge - 2003

	<i>Eastbound</i>						<i>Westbound</i>						2-Way Totals
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	1,264	---	---	---	---	---	469	1,733
1-2am	---	---	---	---	---	662	---	---	---	---	---	157	819
2-3am	---	---	---	---	---	419	---	---	---	---	---	106	525
3-4am	---	---	---	---	---	316	---	---	---	---	---	106	422
4-5am	---	---	---	---	---	444	---	---	---	---	---	247	691
5-6am	---	---	---	---	---	766	---	---	---	---	---	1,124	1,890
6-7am	---	---	---	---	---	1,446	---	---	---	---	---	2,301	3,747
7-8am	1,319	67	14	130	85	1,615	2,528	138	64	113	249	3,092	4,707
8-9am	1,200	97	13	104	79	1,493	2,657	62	61	123	246	3,149	4,642
9-10am	1,090	118	10	128	87	1,433	2,608	78	112	183	260	3,241	4,674
10-11am	1,521	54	3	49	63	1,690	2,218	28	32	65	88	2,431	4,121
11-12am	1,492	41	5	98	89	1,725	1,852	17	102	115	128	2,214	3,939
12-1pm	1,788	24	18	72	77	1,979	1,737	8	59	66	59	1,929	3,908
1-2pm	2,039	35	75	162	268	2,579	1,429	18	113	121	114	1,795	4,374
2-3pm	2,636	16	67	159	208	3,086	1,453	70	87	123	98	1,831	4,917
3-4pm	2,888	29	33	55	123	3,128	1,685	66	68	53	75	1,947	5,075
4-5pm	2,769	24	79	100	320	3,292	1,707	177	143	48	159	2,234	5,526
5-6pm	3,140	26	24	61	281	3,532	2,000	103	115	105	110	2,433	5,965
6-7pm	2,916	10	31	68	172	3,197	1,833	28	53	50	56	2,020	5,217
7-8pm	---	---	---	---	---	2,814	---	---	---	---	---	1,578	4,392
8-9pm	---	---	---	---	---	2,567	---	---	---	---	---	1,233	3,800
9-10pm	---	---	---	---	---	2,372	---	---	---	---	---	1,233	3,605
10-11pm	---	---	---	---	---	2,075	---	---	---	---	---	981	3,056
11-12pm	---	---	---	---	---	1,740	---	---	---	---	---	758	2,498
Totals	---	---	---	---	---	45,634	---	---	---	---	---	38,609	84,243
7-10am	3,609	282	37	362	251	4,541	7,793	278	237	419	755	9,482	14,023
10am-1pm	4,801	119	26	219	229	5,394	5,807	53	193	246	275	6,574	11,968
1-4pm	7,563	80	175	376	599	8,793	4,567	154	268	297	287	5,573	14,366
4-7pm	8,825	60	134	229	773	10,021	5,540	308	311	203	325	6,687	16,708
7am-7pm	24,798	541	372	1,186	1,852	28,749	23,707	793	1,009	1,165	1,642	28,316	57,065

Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes North Channel Bridge - 2003

	<i>Northbound</i>						<i>Southbound</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	122	---	---	---	---	---	151	273
1-2am	---	---	---	---	---	67	---	---	---	---	---	90	157
2-3am	---	---	---	---	---	52	---	---	---	---	---	61	113
3-4am	---	---	---	---	---	75	---	---	---	---	---	44	119
4-5am	---	---	---	---	---	112	---	---	---	---	---	47	159
5-6am	---	---	---	---	---	384	---	---	---	---	---	127	511
6-7am	---	---	---	---	---	849	---	---	---	---	---	332	1,181
7-8am	1,190	33	20	23	36	1,302 **	423	29	8	46	76	582	1,884 **
8-9am	935	31	21	44	73	1,104	351	25	1	39	59	475	1,579
9-10am	582	9	7	66	39	703	331	19	4	59	67	480	1,183
10-11am	546	11	8	27	9	601	379	11	0	18	29	437	1,038
11-12am	472	8	8	57	48	593	338	8	0	49	68	463	1,056
12-1pm	471	15	0	30	28	544	452	11	0	17	25	505	1,049
1-2pm	533	4	4	18	15	574	545	7	0	15	30	597	1,171
2-3pm	624	23	11	54	46	758	622	32	5	32	89	780	1,538
3-4pm	727	25	12	22	23	809	819	27	0	27	65	938	1,747
4-5pm	608	33	13	44	33	731	855	11	3	34	103	1,006 **	1,737
5-6pm	559	9	16	28	24	636	896	7	0	20	61	984	1,620
6-7pm	471	9	19	24	38	561	838	7	4	11	71	931	1,492
7-8pm	---	---	---	---	---	494	---	---	---	---	---	757	1,251
8-9pm	---	---	---	---	---	414	---	---	---	---	---	608	1,022
9-10pm	---	---	---	---	---	342	---	---	---	---	---	483	825
10-11pm	---	---	---	---	---	300	---	---	---	---	---	418	718
11-12pm	---	---	---	---	---	255	---	---	---	---	---	280	535
Totals	---	---	---	---	---	12,382	---	---	---	---	---	11,576	23,958
7-10am	2,707	73	48	133	148	3,109	1,105	73	13	144	202	1,537	4,646
10am-1pm	1,489	34	16	114	85	1,738	1,169	30	0	84	122	1,405	3,143
1-4pm	1,884	52	27	94	84	2,141	1,986	66	5	74	184	2,315	4,456
4-7pm	1,638	51	48	96	95	1,928	2,589	25	7	65	235	2,921	4,849
7am-7pm	7,718	210	139	437	412	8,916	6,849	194	25	367	743	8,178	17,094

Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Rikers Island Bridge - 2003

	<i>Northbound</i>						<i>Southbound</i>						2-Way Totals
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	57	---	---	---	---	---	332	389
1-2am	---	---	---	---	---	47	---	---	---	---	---	57	104
2-3am	---	---	---	---	---	40	---	---	---	---	---	37	77
3-4am	---	---	---	---	---	107	---	---	---	---	---	18	125
4-5am	---	---	---	---	---	310	---	---	---	---	---	21	331
5-6am	---	---	---	---	---	551	---	---	---	---	---	38	589
6-7am	---	---	---	---	---	1,096 **	---	---	---	---	---	79	1,175
7-8am	736	11	4	48	90	889	433	30	16	16	6	501	1,390
8-9am	508	11	2	30	41	592	391	21	25	32	13	482	1,074
9-10am	277	40	2	36	45	400	91	10	3	18	5	127	527
10-11am	266	21	0	28	32	347	174	17	5	15	2	213	560
11-12am	226	19	3	34	41	323	183	30	19	33	15	280	603
12-1pm	463	22	2	15	29	531	315	14	15	11	7	362	893
1-2pm	442	40	2	12	20	516	469	20	25	16	7	537	1,053
2-3pm	764	20	2	24	57	867	758	22	42	35	18	875	1,742 **
3-4pm	220	9	1	5	11	246	1,050	20	33	20	2	1,125 **	1,371
4-5pm	135	10	1	3	8	157	741	11	30	18	0	800	957
5-6pm	100	10	1	0	12	123	351	11	19	3	5	389	512
6-7pm	72	24	3	6	7	112	259	8	33	7	0	307	419
7-8pm	---	---	---	---	---	95	---	---	---	---	---	349	444
8-9pm	---	---	---	---	---	64	---	---	---	---	---	270	334
9-10pm	---	---	---	---	---	151	---	---	---	---	---	332	483
10-11pm	---	---	---	---	---	707	---	---	---	---	---	227	934
11-12pm	---	---	---	---	---	154	---	---	---	---	---	726	880
Totals	---	---	---	---	---	8,482	---	---	---	---	---	8,484	16,966
7-10am	1,521	62	8	114	176	1,881	915	61	44	66	24	1,110	2,991
10am-1pm	955	62	5	77	102	1,201	672	61	39	59	24	855	2,056
1-4pm	1,426	69	5	41	88	1,629	2,277	62	100	71	27	2,537	4,166
4-7pm	307	44	5	9	27	392	1,351	30	82	28	5	1,496	1,888
7am-7pm	4,209	237	23	241	393	5,103	5,215	214	265	224	80	5,998	11,101

Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Roosevelt Avenue Bridge - 2003

	<i>Eastbound</i>						<i>Westbound</i>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	154	---	---	---	---	---	122	276
1-2am	---	---	---	---	---	95	---	---	---	---	---	70	165
2-3am	---	---	---	---	---	75	---	---	---	---	---	52	127
3-4am	---	---	---	---	---	54	---	---	---	---	---	53	107
4-5am	---	---	---	---	---	98	---	---	---	---	---	89	187
5-6am	---	---	---	---	---	138	---	---	---	---	---	153	291
6-7am	---	---	---	---	---	231	---	---	---	---	---	384	615
7-8am	282	24	10	26	17	359	569	5	17	42	39	672	1,031
8-9am	384	16	11	39	42	492	662	19	11	22	35	749	1,241
9-10am	377	7	10	39	45	478	483	51	11	26	30	601	1,079
10-11am	456	6	10	22	27	521	533	9	3	20	7	572	1,093
11-12am	412	11	11	40	46	520	520	18	4	22	11	575	1,095
12-1pm	517	6	9	17	14	563	527	11	2	3	4	547	1,110
1-2pm	534	33	3	10	23	603	542	14	0	2	5	563	1,166
2-3pm	472	32	15	54	48	621	527	8	3	14	13	565	1,186
3-4pm	604	13	9	27	33	686	539	75	2	10	12	638	1,324
4-5pm	529	9	28	51	82	699	563	14	4	10	11	602	1,301
5-6pm	625	5	22	28	80	760	632	8	3	12	8	663	1,423
6-7pm	619	4	17	26	64	730	681	34	7	13	12	747	1,477
7-8pm	---	---	---	---	---	586	---	---	---	---	---	533	1,119
8-9pm	---	---	---	---	---	462	---	---	---	---	---	416	878
9-10pm	---	---	---	---	---	510	---	---	---	---	---	343	853
10-11pm	---	---	---	---	---	427	---	---	---	---	---	286	713
11-12pm	---	---	---	---	---	213	---	---	---	---	---	211	424
Totals	---	---	---	---	---	10,075	---	---	---	---	---	10,206	20,281
7-10am	1,043	47	31	104	104	1,329	1,714	75	39	90	104	2,022	3,351
10am-1pm	1,385	23	30	79	87	1,604	1,580	38	9	45	22	1,694	3,298
1-4pm	1,610	78	27	91	104	1,910	1,608	97	5	26	30	1,766	3,676
4-7pm	1,773	18	67	105	226	2,189	1,876	56	14	35	31	2,012	4,201
7am-7pm	5,811	166	155	379	521	7,032	6,778	266	67	196	187	7,494	14,526

Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Roosevelt Island Bridge - 2003

	<i>Eastbound</i>						<i>Westbound</i>						2-Way Totals
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	162	---	---	---	---	---	82	244
1-2am	---	---	---	---	---	47	---	---	---	---	---	42	89
2-3am	---	---	---	---	---	24	---	---	---	---	---	29	53
3-4am	---	---	---	---	---	23	---	---	---	---	---	23	46
4-5am	---	---	---	---	---	21	---	---	---	---	---	36	57
5-6am	---	---	---	---	---	40	---	---	---	---	---	94	134
6-7am	---	---	---	---	---	89	---	---	---	---	---	291	380
7-8am	274	15	14	5	4	312	494	9	30	13	8	554 **	866 **
8-9am	237	16	20	16	8	297	334	5	2	12	4	357	654
9-10am	141	8	9	21	5	184	159	4	8	11	2	184	368
10-11am	146	2	4	9	5	166	124	4	1	9	7	145	311
11-12am	158	5	9	16	17	205	119	3	8	22	8	160	365
12-1pm	190	4	2	14	6	216	181	25	3	6	4	219	435
1-2pm	170	6	2	4	7	189	154	5	1	8	6	174	363
2-3pm	197	3	3	19	6	228	193	6	4	8	7	218	446
3-4pm	437	24	1	8	10	480	317	9	5	4	3	338	818
4-5pm	496	7	11	2	11	527 **	208	8	6	2	6	230	757
5-6pm	306	5	0	4	10	325	199	7	0	3	7	216	541
6-7pm	193	2	1	1	12	209	232	4	3	3	1	243	452
7-8pm	---	---	---	---	---	195	---	---	---	---	---	202	397
8-9pm	---	---	---	---	---	162	---	---	---	---	---	188	350
9-10pm	---	---	---	---	---	131	---	---	---	---	---	170	301
10-11pm	---	---	---	---	---	136	---	---	---	---	---	167	303
11-12pm	---	---	---	---	---	230	---	---	---	---	---	243	473
Totals	---	---	---	---	---	4,598	---	---	---	---	---	4,605	9,203
7-10am	652	39	43	42	17	793	987	18	40	36	14	1,095	1,888
10am-1pm	494	11	15	39	28	587	424	32	12	37	19	524	1,111
1-4pm	804	33	6	31	23	897	664	20	10	20	16	730	1,627
4-7pm	995	14	12	7	33	1,061	639	19	9	8	14	689	1,750
7am-7pm	2,945	97	76	119	101	3,338	2,714	89	71	101	63	3,038	6,376

Based on 1989 Classification Survey Data

\*\* Peak Volumes

## Hourly Vehicular Volumes Whitestone Expressway Bridge - 2003

	<i>Northbound</i>						<i>Southbound</i>						2-Way Totals
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	1,803	---	---	---	---	---	1,850	3,653
1-2am	---	---	---	---	---	1,059	---	---	---	---	---	1,067	2,126
2-3am	---	---	---	---	---	719	---	---	---	---	---	678	1,397
3-4am	---	---	---	---	---	650	---	---	---	---	---	555	1,205
4-5am	---	---	---	---	---	1,016	---	---	---	---	---	704	1,720
5-6am	---	---	---	---	---	2,217	---	---	---	---	---	1,282	3,499
6-7am	---	---	---	---	---	4,489	---	---	---	---	---	3,208	7,697
7-8am	4,716	89	171	290	336	5,602	5,009	52	204	446	562	6,273	11,875
8-9am	4,467	69	266	355	219	5,376	5,929	77	202	504	430	7,142	12,518 **
9-10am	3,526	70	165	417	208	4,386	5,400	93	243	635	519	6,890	11,276
10-11am	3,908	40	93	267	163	4,471	5,011	24	124	234	134	5,527	9,998
11-12am	3,501	30	172	594	299	4,596	3,618	23	195	445	237	4,518	9,114
12-1pm	4,213	74	68	274	137	4,766	3,680	27	89	207	143	4,146	8,912
1-2pm	4,594	63	45	240	129	5,071	3,537	52	80	227	142	4,038	9,109
2-3pm	4,636	66	141	476	397	5,716	3,270	58	131	382	234	4,075	9,791
3-4pm	5,722	27	79	226	230	6,284	4,083	75	92	176	127	4,553	10,837
4-5pm	5,570	24	155	317	380	6,446	4,298	51	187	336	251	5,123	11,569
5-6pm	5,657	32	153	245	372	6,459 **	4,758	23	139	196	143	5,259	11,718
6-7pm	5,718	49	159	162	308	6,396	5,049	10	171	104	144	5,478	11,874
7-8pm	---	---	---	---	---	5,697	---	---	---	---	---	4,905	10,602
8-9pm	---	---	---	---	---	4,834	---	---	---	---	---	4,018	8,852
9-10pm	---	---	---	---	---	4,203	---	---	---	---	---	3,378	7,581
10-11pm	---	---	---	---	---	3,717	---	---	---	---	---	2,877	6,594
11-12pm	---	---	---	---	---	2,819	---	---	---	---	---	2,434	5,253
Totals	---	---	---	---	---	98,792	---	---	---	---	---	89,978	188,770
7-10am	12,709	228	602	1,062	763	15,364	16,338	222	649	1,585	1,511	20,305	35,669
10am-1pm	11,622	144	333	1,135	599	13,833	12,309	74	408	886	514	14,191	28,024
1-4pm	14,952	156	265	942	756	17,071	10,890	185	303	785	503	12,666	29,737
4-7pm	16,945	105	467	724	1,060	19,301	14,105	84	497	636	538	15,860	35,161
7am-7pm	56,228	633	1,667	3,863	3,178	65,569	53,642	565	1,857	3,892	3,066	63,022	128,591

Based on 1989 Classification Survey Data

\*\* Peak Volumes



*Staten Island  
Bridges*

**Staten Island Bridges**  
**Average Daily Traffic Volumes**  
**1948 - 2003**

<b>Year</b>	<b>Fresh Kills</b>
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

## Hourly Vehicular Volumes Fresh Kills Bridge - 2003

	<b>Northbound</b>						<b>Southbound</b>						<b>2-Way Totals</b>
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	194	---	---	---	---	---	301	495
1-2am	---	---	---	---	---	109	---	---	---	---	---	149	258
2-3am	---	---	---	---	---	86	---	---	---	---	---	91	177
3-4am	---	---	---	---	---	90	---	---	---	---	---	55	145
4-5am	---	---	---	---	---	236	---	---	---	---	---	82	318
5-6am	---	---	---	---	---	753	---	---	---	---	---	244	997
6-7am	---	---	---	---	---	1,813	---	---	---	---	---	550	2,363
7-8am	1,458	152	440	489	232	2,771 **	923	62	6	37	31	1,059	3,830
8-9am	1,119	245	483	592	166	2,605	1,046	22	4	68	34	1,174	3,779
9-10am	1,587	28	233	313	58	2,219	983	18	4	81	39	1,125	3,344
10-11am	1,729	39	78	114	22	1,982	1,269	15	0	48	27	1,359	3,341
11-12am	1,504	79	190	298	38	2,109	1,530	16	2	140	74	1,762	3,871
12-1pm	1,759	29	96	186	35	2,105	1,672	37	0	93	49	1,851	3,956
1-2pm	1,725	52	68	80	40	1,965	1,909	80	0	74	29	2,092	4,057
2-3pm	1,473	84	141	225	24	1,947	2,006	71	0	229	119	2,425	4,372
3-4pm	1,889	95	88	93	14	2,179	2,296	41	5	94	85	2,521	4,700
4-5pm	1,627	45	125	151	34	1,982	2,335	27	4	169	107	2,642	4,624
5-6pm	1,628	94	168	149	24	2,063	2,471	37	4	227	150	2,889 **	4,952 **
6-7pm	1,621	147	161	117	36	2,082	2,109	30	14	159	121	2,433	4,515
7-8pm	---	---	---	---	---	1,745	---	---	---	---	---	2,233	3,978
8-9pm	---	---	---	---	---	1,249	---	---	---	---	---	1,955	3,204
9-10pm	---	---	---	---	---	856	---	---	---	---	---	1,614	2,470
10-11pm	---	---	---	---	---	576	---	---	---	---	---	886	1,462
11-12pm	---	---	---	---	---	388	---	---	---	---	---	559	947
Totals	---	---	---	---	---	34,104	---	---	---	---	---	32,051	66,155
7-10am	4,164	425	1,156	1,394	456	7,595	2,952	102	14	186	104	3,358	10,953
10am-1pm	4,992	147	364	598	95	6,196	4,471	68	2	281	150	4,972	11,168
1-4pm	5,087	231	297	398	78	6,091	6,211	192	5	397	233	7,038	13,129
4-7pm	4,876	286	454	417	94	6,127	6,915	94	22	555	378	7,964	14,091
7am-7pm	19,119	1,089	2,271	2,807	723	26,009	20,549	456	43	1,419	865	23,332	49,341

Based on 1989 Classification Survey Data

\*\* Peak Volumes

***MTABT***  
***Facilities***

**Manhattan MTABT Facilities**  
**Average Daily Traffic Volumes**  
**1948 - 2003**

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

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.

**Outer Borough MTABT Bridges**  
**Average Daily Traffic Volumes**  
**1948 - 2003**

<b>Year</b>	<b>Bronx-Whitestone</b>	<b>Cross Bay</b>	<b>Marine Parkway</b>	<b>Throgs Neck</b>	<b>Triborough Bronx Plz.</b>	<b>Verrazano-Narrows</b>	<b>Totals</b>
1948	33,343	11,421	10,216	Opened	25,997	Opened	80,977
1949	41,485	12,579	11,743	01/11/1961	31,310	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	60,697	57,949		199,418
1963	45,352	16,421	17,978	75,532	58,657		213,940
1964	64,573	16,594	18,145	76,245	61,152		236,709
1965	72,053	16,864	18,855	77,755	67,090	48,842	301,459
1966	71,382	17,684	19,745	80,647	68,806	58,720	316,984
1967	73,931	17,448	19,904	81,237	70,791	66,607	329,918
1968	78,773	18,367	21,424	83,634	73,232	77,393	352,823
1969	79,416	17,608	21,406	85,708	75,482	86,114	365,734
1970	81,582	17,908	22,076	83,734	81,868	96,953	384,121
1971	86,573	18,399	22,426	84,279	83,804	106,014	401,495
1972	80,704	16,813	20,956	89,595	74,777	105,898	388,743
1973	81,548	16,783	21,502	95,326	75,552	111,385	402,096
1974	82,699	16,769	19,734	89,622	76,673	109,671	395,168
1975	81,081	15,019	18,715	87,725	70,338	108,572	381,450
1976	82,060	14,281	17,804	89,520	67,887	110,761	382,313
1977	81,992	14,489	16,724	90,635	67,590	113,040	384,470
1978	86,537	13,955	17,750	89,847	64,746	125,799	398,634
1979	90,394	13,690	17,404	86,315	63,046	124,667	395,516
1980	88,346	13,903	16,472	87,011	63,219	130,904	399,855
1981	84,475	11,583	16,510	91,511	76,200	137,695	417,974
1982	90,312	13,072	17,119	93,867	74,092	143,811	432,273
1983	97,945	13,412	18,003	97,706	78,885	140,645	446,596
1984	97,636	14,835	19,749	90,153	79,300	155,892	457,565
1985	109,012	15,279	20,595	84,517	83,747	162,632	475,782
1986	102,567	15,162	19,965	94,395	80,703	162,426	475,218
1987	102,115	14,289	20,512	93,770	81,424	170,319	482,429
1988	98,235	14,989	21,098	102,333	83,002	174,416	494,073
1989	95,762	14,466	19,666	94,147	78,877	172,529	475,447
1990	104,377	14,645	21,489	91,237	80,346	175,948	488,042
1991	99,054	14,925	20,893	94,377	81,364	178,340	488,953
1992	96,830	14,821	21,042	98,135	77,125	183,218	491,171
1993	93,712	14,578	20,137	101,402	70,458	178,416	478,703
1994	104,819	14,442	20,623	97,471	71,777	181,156	490,288
1995	108,185	15,423	20,568	97,282	72,012	184,634	498,104
1996	101,048	14,845	21,212	97,629	74,522	184,557	493,813
1997	93,018	14,221	19,782	102,094	76,937	182,871	488,923
1998	104,125	16,286	19,583	99,471	81,913	194,592	515,970
1999	120,170	16,975	19,904	90,986	80,019	194,623	522,677
2000	117,583	17,962	21,609	98,357	79,243	202,580	537,334
2001	111,764	19,626	19,527	104,429	77,631	218,971	551,948
2002	123,258	20,010	21,684	104,535	72,259	212,491	554,237
2003	113,441	20,233	21,745	111,092	74,113	206,444	547,068

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.

## Hourly Vehicular Volumes

### Metropolitan Transportation Authority Bridges & Tunnels 2003

	<i>Brooklyn-Battery Tunnel</i>		<i>Henry Hudson Bridge</i>		<i>Queens-Midtown Tunnel</i>		<i>Triborough Bridge (Mahattan Plaza)</i>		<i>Totals</i>	
	<i>N/B</i>	<i>S/B</i>	<i>S/B</i>	<i>N/B</i>	<i>W/B</i>	<i>E/B</i>	<i>W/B</i>	<i>E/B</i>	<i>Entering Manhattan</i>	<i>Leaving Manhattan</i>
12-1am	230	588	173	604	384	870	489	560	1,276	2,622
1-2am	115	205	90	246	178	421	205	276	588	1,148
2-3am	80	118	56	144	118	245	113	158	367	665
3-4am	100	67	60	85	133	176	124	143	417	471
4-5am	190	77	131	98	259	265	220	360	800	800
5-6am	801	112	527	150	925	588	926	1,041	3,179	1,891
6-7am	2,160	344	2389	639	2297	1,141	3,112	1,851	9,958	3,975
7-8am	3,157	609	3527	1,436	3606	1,289	4,041 **	2,301	14,331	5,635
8-9am	3,304 **	745	3544 **	1,774	4203 **	1,259	3,958	2,313	15,009 **	6,091
9-10am	2,769	768	2919	1,307	4006	1,209	3,313	2,269	13,007	5,553
10-11am	1,965	761	2163	1,079	3101	1,521	2,955	1,861	10,184	5,222
11-12am	1,558	865	1894	1,146	2777	1,622	2,482	1,911	8,711	5,544
12-1pm	1,451	992	1724	1,213	2478	1,824	2,373	1,999	8,026	6,028
1-2pm	1,432	1107	1657	1,400	2329	2,079	2,358	2,179	7,776	6,765
2-3pm	1,572	1367	1898	1,856	2424	2,501	2,661	2,605	8,555	8,329
3-4pm	1,737	1893	2447	2,317	2687	2,775	3,001	3,061	9,872	10,046
4-5pm	1,599	2406	2627	2,694	2778	2,931 **	3,081	3,195 **	10,085	11,226
5-6pm	1,718	2518 **	2876	3,150 **	3081	2,865	3,349	2,973	11,024	11,506 **
6-7pm	1,464	2358	2797	3,086	2681	2,761	3,159	2,761	10,101	10,966
7-8pm	1,226	1939	1963	2,590	2061	2,407	2,546	2,450	7,796	9,386
8-9pm	849	1646	1132	1,953	1557	2,265	1,929	1,971	5,467	7,835
9-10pm	738	1350	925	1,908	1345	2,079	1,809	1,834	4,817	7,171
10-11pm	677	1145	627	1,672	1052	1,869	1,422	1,522	3,778	6,208
11-12pm	502	897	363	1,153	720	1,235	1,000	957	2,585	4,242
Totals	31,394	24,877	38,509	33,700	47,180	38,197	50,626	42,551	167,709	139,325
7-10am	9,230	2,122	9,990	4,517	11,815	3,757	11,312	6,883	42,347	17,279
10am-1pm	4,974	2,618	5,781	3,438	8,356	4,967	7,810	5,771	26,921	16,794
1-4pm	4,741	4,367	6,002	5,573	7,440	7,355	8,020	7,845	26,203	25,140
4-7pm	4,781	7,282	8,300	8,930	8,540	8,557	9,589	8,929	31,210	33,698
7am-7pm	23,726	16,389	30,073	22,458	36,151	24,636	36,731	29,428	126,681	92,911

\*\* Peak Volumes

## Hourly Vehicular Volumes

### Metropolitan Transportation Authority Bridges & Tunnels

#### 2003

	<i>Bronx-Whitestone Bridge</i>		<i>Cross Bay Bridge</i>		<i>Marine Parkway Bridge</i>		<i>Throgs Neck Bridge</i>		<i>Triborough Bridge (Bronx Plaza)</i>		<i>Verrazano-Narrows Bridge</i>	
	<i>N/B</i>	<i>S/B</i>	<i>N/B</i>	<i>S/B</i>	<i>N/B</i>	<i>S/B</i>	<i>N/B</i>	<i>S/B</i>	<i>N/B</i>	<i>S/B</i>	<i>E/B</i>	<i>W/B</i>
12-1am	854	703	76	145	53	127	511	660	542	470	2,792	1,957
1-2am	450	437	43	85	29	65	340	439	328	309	1,448	993
2-3am	322	340	40	49	18	36	292	342	211	235	787	667
3-4am	311	376	55	32	29	28	342	361	231	286	636	486
4-5am	505	729	103	39	52	28	633	516	383	500	649	643
5-6am	1,399	1,877	369	104	264	91	1,837	1,078	797	1,133	1,045	1,220
6-7am	3,346	3,496	868	272	782	317	4,342	2,482	1,935	2,545	3,594	3,024
7-8am	4,709 **	3,771	1,236 **	496	1,609 **	441	4,837 **	3,091	2,742 **	2,360	8,829	4,335
8-9am	4,483	3,677	965	494	1,159	477	4,577	3,027	2,646	2,239	10,274 **	5,009
9-10am	3,233	2,866	566	435	805	391	3,824	2,773	2,004	2,146	8,368	4,775
10-11am	2,271	2,257	485	409	575	372	3,399	2,609	1,885	1,977	6,417	3,966
11-12am	1,968	2,209	497	384	534	422	2,800	2,497	1,772	1,959	5,117	4,137
12-1pm	1,992	2,234	501	416	515	435	2,641	2,526	1,762	1,905	4,520	4,155
1-2pm	2,033	2,318	519	493	512	525	2,737	2,906	1,833	2,004	4,297	4,738
2-3pm	2,717	2,993	671	628	556	662	2,910	3,765	1,963	2,181	4,527	6,321
3-4pm	3,370	3,870	706	760	686	926	3,073	4,177	2,240	2,464	5,029	7,590
4-5pm	3,648	4,159	605	747	659	968	2,848	4,400	2,169	2,576 **	6,016	7,952
5-6pm	3,581	4,250 **	571	820 **	633	1,040 **	2,846	4,435 **	2,115	2,508	6,416	7,967 **
6-7pm	3,362	4,069	470	790	518	938	2,832	4,038	1,993	2,184	6,413	7,549
7-8pm	2,950	3,643	373	619	383	725	2,282	3,194	1,664	1,794	5,662	6,275
8-9pm	2,485	2,618	288	494	270	559	1,725	2,320	1,332	1,494	4,603	5,046
9-10pm	2,238	2,144	216	397	192	456	1,521	1,914	1,219	1,344	3,734	3,993
10-11pm	1,928	1,798	194	327	178	349	1,286	1,413	1,101	1,009	3,434	3,044
11-12pm	1,352	1,100	155	226	128	228	773	921	921	703	3,364	2,631
Totals	55,507	57,934	10,572	9,661	11,139	10,606	55,208	55,884	35,788	38,325	107,971	98,473
7-10am	12,425	10,314	2,767	1,425	3,573	1,309	13,238	8,891	7,392	6,745	27,471	14,119
10am-1pm	6,231	6,700	1,483	1,209	1,624	1,229	8,840	7,632	5,419	5,841	16,054	12,258
1-4pm	8,120	9,181	1,896	1,881	1,754	2,113	8,720	10,848	6,036	6,649	13,853	18,649
4-7pm	10,591	12,478	1,646	2,357	1,810	2,946	8,526	12,873	6,277	7,268	18,845	23,468
7am-7pm	37,367	38,673	7,792	6,872	8,761	7,597	39,324	40,244	25,124	26,503	76,223	68,494

\*\* Peak Volumes



***PANYNJ***  
***Facilities***

**PANYNJ Manhattan - New Jersey Facilities**  
**Average Daily Traffic Volumes**  
**1948 - 2003**

<b>Year</b>	<b>George Washington Bridge</b>	<b>Holland Tunnel</b>	<b>Lincoln Tunnel</b>	<b>Totals</b>
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

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

PANYNJ toll increases May 1975, January 1984, April, 1987, April 1991, March 2001.

**PANYNJ Staten Island - New Jersey Bridges**  
**Average Daily Traffic Volumes**  
**1948 - 2003**

<b>Year</b>	<b>Bayonne Bridge</b>	<b>Goethals Bridge</b>	<b>Outerbridge Crossing</b>	<b>Totals</b>
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

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

PANYNJ toll increases May 1975, January 1984, April, 1987, April 1991, March 2001.

## Hourly Vehicular Volumes Port Authority of New York & New Jersey 2003

	<i>George Washington Bridge</i>		<i>Holland Tunnel</i>		<i>Lincoln Tunnel</i>		<i>Totals</i>	
	<i>E/B</i>	<i>W/B</i>	<i>E/B</i>	<i>W/B</i>	<i>E/B</i>	<i>W/B</i>	<i>Entering Manhattan</i>	<i>Leaving Manhattan</i>
12-1am	1,874	3,955	760	1,410	1,002	1,713	3,636	7,078
1-2am	1,277	2,408	513	1,090	584	978	2,374	4,476
2-3am	1,129	1,788	383	728	431	569	1,943	3,085
3-4am	1,274	1,657	382	597	452	483	2,108	2,737
4-5am	2,035	2,001	616	699	779	591	3,430	3,291
5-6am	5,581	3,750	2,324	1,249	2,431	994	10,336	5,993
6-7am	10,958 **	6,981	2,833	2,207	5,227 **	1,670	19,018 **	10,858
7-8am	10,703	9,023	2,871 **	2,931	4,847	2,249	18,421	14,203
8-9am	9,582	8,937	2,631	2,750	4,660	2,439	16,873	14,126
9-10am	9,040	9,420	2,582	2,141	4,680	2,251	16,302	13,812
10-11am	7,828	7,677	2,728	2,290	3,850	2,181	14,406	12,148
11-12am	6,866	8,101	2,327	2,149	3,251	2,353	12,444	12,603
12-1pm	6,544	7,300	2,116	2,238	2,827	2,790	11,487	12,328
1-2pm	6,540	7,316	2,103	2,545	2,726	3,344	11,369	13,205
2-3pm	7,055	8,373	2,279	2,972	2,843	4,307	12,177	15,652
3-4pm	8,041	9,979	2,530	3,029	3,048	4,458	13,619	17,466
4-5pm	8,963	11,046 **	2,769	3,188 **	2,683	5,095 **	14,415	19,329 **
5-6pm	9,527	10,633	2,747	3,185	2,062	4,052	14,336	17,870
6-7pm	9,404	10,681	2,781	3,093	2,399	4,345	14,584	18,119
7-8pm	7,711	9,721	2,639	3,164	2,780	4,843	13,130	17,728
8-9pm	5,782	9,162	2,153	2,761	2,359	3,751	10,294	15,674
9-10pm	5,055	7,080	1,922	2,579	2,169	3,295	9,146	12,954
10-11pm	4,319	6,406	1,524	2,380	2,190	3,234	8,033	12,020
11-12pm	3,145	5,401	1,214	1,995	1,877	3,181	6,236	10,577
Totals	150,233	168,796	47,727	53,370	62,157	65,166	260,117	287,332
7-10am	29,325	27,380	8,084	7,822	14,187	6,939	51,596	42,141
10am-1pm	21,238	23,078	7,171	6,677	9,928	7,324	38,337	37,079
1-4pm	21,636	25,668	6,912	8,546	8,617	12,109	37,165	46,323
4-7pm	27,894	32,360	8,297	9,466	7,144	13,492	43,335	55,318
7am-7pm	100,093	108,486	30,464	32,511	39,876	39,864	170,433	180,861

\*\* Peak Volumes

## Hourly Vehicular Volumes Port Authority of New York & New Jersey 2003

	<i>Bayonne Bridge</i>		<i>Goethals Bridge</i>		<i>Outerbridge Crossing</i>		<i>Totals</i>	
	<i>S/B</i>	<i>N/B</i>	<i>E/B</i>	<i>W/B</i>	<i>E/B</i>	<i>W/B</i>	<i>To Staten Island</i>	<i>To New Jersey</i>
12-1am	190	76	627	377	490	486	1,307	939
1-2am	111	46	430	247	341	281	882	574
2-3am	85	46	350	202	301	227	736	475
3-4am	75	47	336	255	352	218	763	520
4-5am	104	65	488	410	681	272	1,273	747
5-6am	247	266	1,156	1,026	2,033	494	3,436	1,786
6-7am	435	691	1,853	1,838	2,798	1,356	5,086	3,885
7-8am	487	1,165 **	1,578	2,761	2,548	2,300	4,613	6,226
8-9am	507	1,035	1,669	2,928 **	2,275	2,546	4,451	6,509 **
9-10am	485	573	1,748	2,411	2,201	2,074	4,434	5,058
10-11am	400	411	1,726	2,303	1,898	1,936	4,024	4,650
11-12am	424	387	1,696	2,227	1,781	1,932	3,901	4,546
12-1pm	444	353	1,764	2,067	1,827	1,857	4,035	4,277
1-2pm	506	378	1,947	2,160	1,989	1,796	4,442	4,334
2-3pm	636	365	2,244	1,908	2,172	2,209	5,052	4,482
3-4pm	859	431	2,456	2,305	2,339	2,569	5,654	5,305
4-5pm	1,092	511	2,751	2,161	2,694	2,867 **	6,537	5,539
5-6pm	1,395 **	437	3,171 **	2,434	3,074 **	2,604	7,640 **	5,475
6-7pm	1,140	343	2,906	1,936	2,603	2,465	6,649	4,744
7-8pm	667	261	2,329	1,499	2,040	1,915	5,036	3,675
8-9pm	431	194	1,828	1,157	1,696	1,446	3,955	2,797
9-10pm	340	213	1,561	967	1,491	1,454	3,392	2,634
10-11pm	299	162	1,251	788	1,184	975	2,734	1,925
11-12pm	268	125	963	529	845	718	2,076	1,372
<b>Totals</b>	<b>11,627</b>	<b>8,581</b>	<b>38,828</b>	<b>36,896</b>	<b>41,653</b>	<b>36,997</b>	<b>92,108</b>	<b>82,474</b>
7-10am	1,479	2,773	4,995	8,100	7,024	6,920	13,498	17,793
10am-1pm	1,268	1,151	5,186	6,597	5,506	5,725	11,960	13,473
1-4pm	2,001	1,174	6,647	6,373	6,500	6,574	15,148	14,121
4-7pm	3,627	1,291	8,828	6,531	8,371	7,936	20,826	15,758
7am-7pm	8,375	6,389	25,656	27,601	27,401	27,155	61,432	61,145

\*\* Peak Volumes