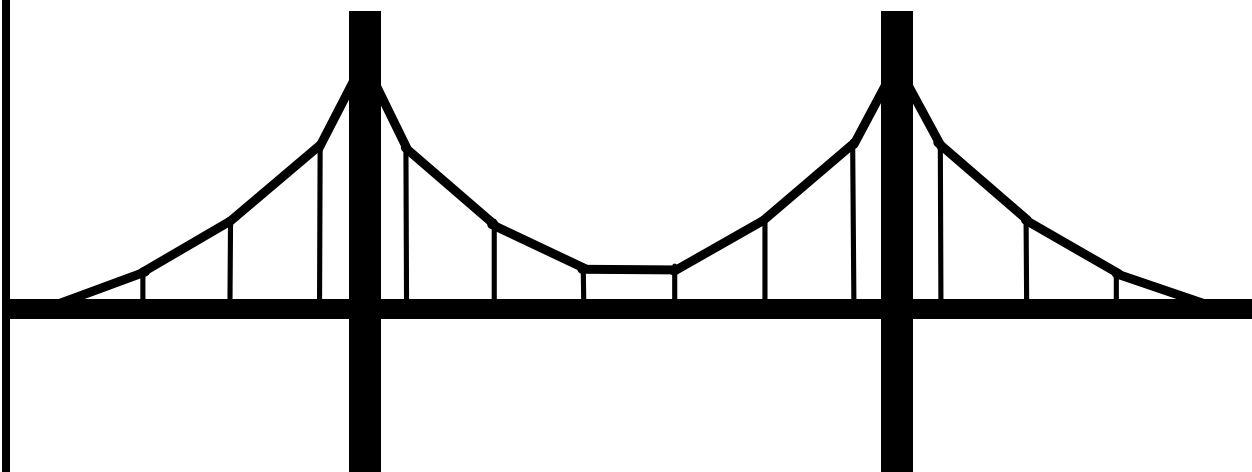


NEW YORK CITY BRIDGE TRAFFIC VOLUMES 2001



The City of New York
Michael R. Bloomberg, Mayor



New York City
Department of Transportation
Iris Weinshall, Commissioner

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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

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 2001 *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 1948-2001 was performed in order to develop trend information. In addition, changes in the traffic volumes for all facilities over the past 53 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

Impacts of 9/11

- Traffic volumes on some of the City's bridges and tunnels (principally those serving lower Manhattan) were heavily impacted by the events of 9/11, and by restrictions on traffic entering Manhattan south of 60th Street during the ensuing months. The most significant impacts were on facilities south of Canal Street. In the fall of 2001, Brooklyn Bridge traffic was 35.3% below its year-earlier level. Brooklyn-Battery Tunnel traffic was down 78.2%, Holland Tunnel traffic down 57.1%.
- Following 9/11, non-essential single-occupant vehicles were prohibited from entering Manhattan via any bridge or tunnel south of 63rd Street between 6:00am and 11:00am on weekdays.
- On weekdays between 5:00am and 6:00pm, only emergency and official vehicles, residential vehicles, commercial traffic, licensed taxis, liveries, and buses were permitted south of Canal Street in Manhattan.
- The following additional restrictions were also placed in effect at Lower Manhattan entry points:
 - The Brooklyn-Battery tunnel was completely closed to non-essential vehicles round-the-clock in both directions.
 - The Manhattan-bound Holland Tunnel was completely closed to all vehicular traffic round-the-clock, except for emergency vehicles. The New Jersey-bound Holland Tunnel was open to passenger cars and buses only (no trucks).
 - On the Brooklyn Bridge, Manhattan-bound traffic was required to access the bridge from the eastbound Brooklyn-Queens Expressway or from Sands Street. The Tillary/Adams Streets entrance was open to emergency vehicles only. Manhattan-bound traffic was directed to the northbound FDR Drive, and was not permitted to exit to either Pearl Street or Centre Street. Brooklyn-bound traffic was required to access the bridge from the southbound FDR Drive only.
- In mid-October, the hours during which non-essential single-occupant vehicles were prohibited from entering Manhattan via any bridge or tunnel south of 63rd Street were reduced, to between 6:00am and 10:00am on weekdays. The following additional easing of restrictions also went into effect:
 - The Brooklyn-Battery tunnel was reopened to Brooklyn-bound traffic, but the only access was from a single southbound FDR Drive lane. The Manhattan-bound Brooklyn-Battery tunnel remained closed to non-essential vehicles round-the-clock.
 - The Manhattan-bound Holland Tunnel was reopened to passenger cars only, with a round-the-clock ban on single-occupant vehicles. The New Jersey-bound Holland Tunnel remained open to passenger cars and buses only (no trucks).
 - On the Brooklyn Bridge, the Manhattan-bound entrance from Tillary/Adams Streets was reopened. Manhattan-bound traffic was permitted to exit to northbound Centre Street, as well as to the northbound FDR Drive. Manhattan-bound traffic was still not permitted to exit to Pearl Street. Brooklyn-bound traffic was permitted to access the bridge from Lafayette Street, as well as from the southbound FDR Drive. There was still no Brooklyn-bound access from Centre Street or from Park Row.

- On November 15, the Manhattan-bound Brooklyn-Battery Tunnel was reopened to passenger vehicles only (no trucks or commercial traffic) on week nights between 8:00pm and 6:00am, and from 8:00pm Friday to 6:00am Monday. Between 6:00am and 8:00pm on weekdays, the Manhattan-bound tunnel was open to emergency vehicles and express buses only. The tunnel also remained open to Brooklyn-bound traffic, with the only access from the southbound FDR Drive.
- On November 29, the round-the-clock ban on single-occupant Manhattan-bound cars at the Holland Tunnel was reduced, to between 6:00am and 10:00am on weekdays. The round-the-clock ban on trucks remained in effect. The New Jersey-bound Holland Tunnel remained open to passenger cars and buses only (no trucks).
- Also as of November 29, all passenger cars were allowed south of Canal Street, except between 6:00am and 10:00am on weekdays. Passenger cars still were not allowed in the frozen zone around Ground Zero. Previously, only residential vehicles had been allowed south of Canal Street, along with emergency and official vehicles, commercial vehicles, taxi and limousine commission certified vehicles, buses, and delivery vehicles.

2001 Volumes

- In 2001, daily traffic on the 47 bridges operated by the New York City Department of Transportation decreased 3.0%, to 2.666 million from 2.748 million in 2000. This was the first decrease following seven consecutive years of increasing volumes. The decrease is largely attributable to the events of 9/11, which severely restricted traffic flow into lower Manhattan. Traffic on the four East River bridges was down 17.0% from 2000 levels, to 427,300 from 514,800.
- The most heavily used City-operated water crossing in 2001 was the Kosciuszko Bridge, which carried 196,600 daily vehicles across Newtown Creek between the boroughs of Brooklyn and Queens.
- Other high volume bridges were the Whitestone Expressway Bridge in Queens (189,000), Queensboro Bridge over the East River between Manhattan and Queens (176,500), Eastern Boulevard Bridge in The Bronx (169,400), Alexander Hamilton Bridge over the Harlem River between Manhattan and The Bronx (168,600), and Mill Basin Bridge (Belt Parkway) in Brooklyn (146,600).

Major Increases

- On bridges carrying more than 50,000 daily vehicles, the largest percentage increase was on the Little Neck Bridge in Queens (+7.9%).
- 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 (+88.6%). This increase constitutes a return to normal traffic levels. In 2000, the bridge was undergoing major reconstruction, with one of two lanes closed in each direction, and trucks banned from the bridge.

Major Decreases

- On bridges carrying more than 50,000 daily vehicles, the Brooklyn Bridge over the East River between Manhattan and Brooklyn showed the largest percentage decline (-35.3%). This is the closest bridge to ground zero. Restrictions on single-occupant vehicles (SOVs) using the bridge, as well as restricted capacity and access to Manhattan streets south of Canal Street caused the decline.
- On bridges carrying fewer than 50,000 daily vehicles, the 145th Street Bridge over the Harlem River between Manhattan and The Bronx showed the largest percentage reduction (-22.7%). This decrease constitutes a return to normal traffic levels. Traffic on the 145th Street Bridge had been

unusually high in 2000 because of diversion caused by major reconstruction on the nearby Macombs Dam Bridge.

Ten-Year Trends: 1991 - 2001

- Total bridge traffic increased at an average rate of 1.7% per year during this ten-year period, somewhat faster than the 1.4% average annual growth rate during the preceding decade. The highest annual growth rates occurred on University Heights Bridge over the Harlem River between Manhattan and The Bronx (+5.2%), Third Street Bridge in Brooklyn (+4.3%), and Madison Avenue Bridge over the Harlem River between Manhattan and The Bronx (+4.2%).
- Traffic on the four toll-free East River bridges increased at an average rate of 1.2% per year, the same rate as during the preceding decade. The highest growth rate occurred on the Queensboro Bridge, +3.8% per year. Average volume on the Brooklyn Bridge declined by 0.4% per year.
- Traffic on the nine toll-free Harlem River bridges increased 0.8% per year, one-half the average annual growth rate of 1.6% during the preceding decade. The highest growth rate occurred on the University Heights Bridge, +5.2% per year. Average volume on the Macombs Dam Bridge declined by 1.9% annually.
- On the four bridges over Newtown Creek between Brooklyn and Queens, daily traffic increased 2.2% per year, just slightly faster than the 2.0% annual growth rate during the preceding decade. The highest growth rate occurred on the Pulaski Bridge, +3.5% per year.
- Daily volume on the eight bridges in the Bronx increased 2.9% per year, notably faster than the average growth rate of 2.2% per year during the preceding decade. The fastest individual facility growth rates were recorded on the Hutchinson River Parkway Bridge (+3.8% annually), the Eastern Boulevard Bridge (+3.6% annually), the Unionport Bridge (+3.3% annually), and the City Island Bridge (+3.2% annually). Average volume on the East 174th Street Bridge declined by 3.6% annually.
- Average daily traffic on the ten bridges in Brooklyn increased 1.6% per year, slightly slower than the 1.9% annual growth rate during the preceding ten years. The fastest growth rates occurred on the Third Street Bridge (+4.3% annually) and the Hamilton Avenue Bridge (+2.9% annually). Average volume on the Ninth Street Bridge declined by 5.0% annually.
- Traffic on the eleven Queens bridges increased 1.9% per year, over twice the 0.7% annual growth rate of the preceding decade. The fastest growth rates occurred on the Whitestone Expressway Bridge (+3.6% annually) and the Hook Creek Bridge (+2.0% annually). Average volume on the Hunters Point Avenue Bridge declined by 2.1% 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 2001, it stood at 2,666,000 daily trips, nearly three times the 1948 volume.
- Between 1951 and 1961, bridge traffic increased 3.4% per year on the 44 City bridges open during that time. The highest annual growth rates were on the Brooklyn Bridge over the East River between Manhattan and Brooklyn (+16.2%), Carroll Street Bridge in Brooklyn (+13.2%), Unionport Bridge in The Bronx (+12.6%), Third Street Bridge in Brooklyn (+9.2%), and Hook Creek Bridge in Queens (+8.9%).
- Between 1961 and 1971, bridge traffic increased 3.1% per year on the 45 City bridges open during that time. The Eastchester Bridge in The Bronx had the highest annual growth rate (+11.9%),

followed by the Whitestone Expressway Bridge in Queens (+11.4%), and the Fresh Kills Bridge in Staten Island (+10.4%).

- Between 1971 and 1981, total traffic on the 47 City bridges showed an average annual growth rate of zero. The highest individual facility annual growth rates were on the Borden Avenue and Rikers Island Bridges in Queens (+4.6% each), and the Fresh Kills Bridge in Staten Island (+3.7%).
- Between 1981 and 1991, bridge traffic grew 1.4% per year on the 47 City bridges. The highest growth rates were on the Rikers Island Bridge in Queens (+7.4% annually) and the East 174th Street Bridge in The Bronx (+7.3% annually).
- 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 699,000 more daily vehicles crossing the bridges in 2001 than in 1979.

Major Bridge Reconstruction In 2001

- Brooklyn Bridge:

Immediately following 9/11, non-essential single-occupant cars were banned from the Manhattan-bound roadway on weekdays between 6:00am and 11:00am. Manhattan-bound access was available only from Sands Street and from the Brooklyn-Queens Expressway, with the Tillary/Adams Streets entrance open to emergency vehicles only. Manhattan-bound traffic was directed to the northbound FDR Drive, and was not permitted to exit to either Pearl Street or Centre Street. Brooklyn-bound traffic was required to access the bridge from the southbound FDR Drive only.

In mid-October, the prohibition on non-essential Manhattan-bound single-occupant vehicles was eased, to between 6:00am and 10:00am on weekdays.

As of October 20, the Manhattan-bound entrance from Tillary/Adams Streets was reopened. Manhattan-bound traffic was permitted to exit to northbound Centre Street, as well as to the northbound FDR Drive, but was still not permitted to exit to Pearl Street. Brooklyn-bound traffic was permitted to access the bridge from Lafayette Street, as well as from the southbound FDR Drive, but there was still no Brooklyn-bound access from Centre Street or from Park Row.

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

09/12-11/02:	Round the clock	All days	1 w/b lane closed.
12/09-12/16:	12:01am - 7:00am	Sun	1 w/b lane closed.
12/23:	12:01am - 5:00am	Sun	1 w/b lane closed.

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

01/01-06/22:	10:00am - 3:00pm	Mon-Fri	1 e/b lane closed.
06/23-09/10:	10:00am - 3:00pm	Mon-Fri	1 e/b lane closed,
	6:00am - 3:00pm	Sat	1 e/b lane closed.

From March 31 to June 15, one of two lanes on the westbound entrance from Tillary/Adams Streets was closed weekdays between 10:00am and 2:00pm.

- Manhattan Bridge:

Immediately following 9/11, non-essential Manhattan-bound single-occupant cars were banned on weekdays between 6:00am and 11:00am.

In mid-October, the prohibition on non-essential Manhattan-bound single-occupant vehicles was eased, to between 6:00am and 10:00am on weekdays.

As of June 30, pedestrian and bicycle access was restored on the south side of the Manhattan Bridge, on an interim roadway .

The reversible Lower Roadway of the Manhattan Bridge was operated according to the following schedule.

01/01-01/26:	6:00am - 9:30am All other times	Mon-Fri	Manhattan-bound, Brooklyn-bound.
01/27-12/31:	6:00am - 1:00pm All other times	Mon-Fri	Manhattan-bound, Brooklyn-bound.

Throughout 2001, one of three lanes on the reversible Lower Roadway of the Manhattan Bridge was closed at all times.

The reversible Lower Roadway of the Manhattan Bridge was completely closed according to the following schedule.

01/12-01/22:	9:00pm Fri - 5:00am Mon.
02/17-03/17:	6:00am - 3:00pm Sat.
03/24-04/28:	7:00am - 5:00pm Sat.
05/05-06/23:	12:01am - midnight Sat.

The eastbound South Upper Roadway of the Manhattan Bridge was completely closed according to the following schedule.

05/05-12/31:	9:00pm - 5:00am	Weeknights.
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Weekend capacity on the Manhattan Bridge was also limited by additional lane closures according to the following schedule.

06/30-07/01:	7:00am - 4:00pm	Sat-Sun	2 e/b lanes & 2 w/b lanes open.
07/06-07/08:	9:00pm Fri - 5:00pm Sun		2 e/b lanes & 2 w/b lanes open.
07/14-08/12:	6:00am - 8:00pm	Sat	2 e/b lanes & 2 w/b lanes open.
	6:00am - 5:00pm	Sun	2 e/b lanes & 2 w/b lanes open.
08/18:	12:01am - 2:00pm	Sat	3 e/b lanes & 2 w/b lanes open.
08/25:	7:00am - 3:30pm	Sat	2 e/b lanes & 2 w/b lanes open.
10/06-11/24:	7:00am - 5:00pm	Sat	2 e/b lanes & 2 w/b lanes open.
12/01-12/31:	7:00am - 5:00pm	Sat	2 e/b lanes & 2 w/b lanes open.
	7:00am - 5:00pm	Sun	3 e/b lanes & 2 w/b lanes open.

Throughout 2001, there were additional intermittent closings of single lanes in both directions on individual roadways of the Manhattan Bridge during off-peak hours.

- Queensboro Bridge:

Immediately following 9/11, non-essential Manhattan-bound single-occupant cars were banned on weekdays between 6:00am and 11:00am.

In mid-October, the prohibition on non-essential Manhattan-bound single-occupant vehicles was eased, to between 6:00am and 10:00am on weekdays.

Throughout 2001, trucks were permitted on the two lower inner roadways only.

Throughout 2001, 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 9:30am on weekdays to accommodate Manhattan-bound HOVs (no trucks) carrying two or more occupants.

Queensboro Bridge roadway operating configurations during 2001

All 2001:	N. Inner:	W/B all times; W/B trucks required to use this roadway.
	S. Inner:	E/B all times; E/B trucks required to use this roadway.
	N. Upper:	W/B all times.
	N. Outer:	Bicyclists and pedestrians all times.
	S. Outer:	E/B all times (passenger cars only).
01/01-09/11	S. Upper:	W/B HOVs 6:00-9:30am weekdays, E/B all other times.
09/12-12/31	S. Upper:	W/B HOVs 5:00-9:30am weekdays, E/B all other times.

Throughout 2001, there were intermittent closings of single lanes on individual roadways of the Queensboro Bridge during off-peak hours. Closings were limited to one lane in each direction.

- Williamsburg Bridge:

Immediately following 9/11, non-essential Manhattan-bound single-occupant cars were banned on weekdays between 6:00am and 11:00am.

In mid-October, the prohibition on non-essential Manhattan-bound single-occupant vehicles was eased, to between 6:00am and 10:00am on weekdays.

Throughout 2001, trucks were permitted only on the outer roadways of the Williamsburg Bridge.

Williamsburg Bridge roadway operating configurations during 2001

01/03-01/12:	North Outer Rdwy:	Inbound all hours.
	South Outer Rdwy:	Outbound all hours.
	North Inner Rdwy: (Inbound)	6:00am - 3:00pm Mon-Sat Both lanes closed, All other times 1 lane closed.
	South Inner Rdwy: (Reversible)	6:00am - 10:00am Mon-Fri 2 lanes inbound, 6:00am - 3:00 pm Sat 2 lanes inbound, All other times 2 lanes outbound.

01/13-01/28:	North Outer Rdwy:	10:00am - 3:00pm	Mon-Fri	1 lane closed.
	South Outer Rdwy:	Outbound all hours.		
	North Inner Rdwy:	6:00am - 3:00pm	Mon-Fri	Both lanes closed,
	<i>(Inbound)</i>	All other times		1 lane closed.
	South Inner Rdwy:	6:00am - 3:00pm	Mon-Fri	2 lanes inbound,
	<i>(Reversible)</i>	All other times		2 lanes outbound.
01/29-12/09:	North Outer Rdwy:	Closed all hours. <i>Inbound trucks banned from bridge.</i>		
	South Outer Rdwy:	Outbound all hours.		
	North Inner Rdwy:	Closed all hours.		
	South Inner Rdwy:	Inbound all hours.		
12/10-12/30:	North Outer Rdwy:	Inbound all hours.		
	South Outer Rdwy:	Outbound all hours.		
	North Inner Rdwy:	Closed all hours.		
	South Inner Rdwy:	5:30am - 2:30pm	Mon-Fri	2 lanes inbound,
	<i>(Reversible)</i>	All other times		2 lanes outbound.

Throughout 2001, there were intermittent closings of single lanes on individual roadways of the Williamsburg Bridge during off-peak hours.

- Alexander Hamilton Bridge:

Throughout 2001, one of three lanes in each direction on the Cross Bronx Expressway between the Alexander Hamilton Bridge and Castle Hill Avenue was closed intermittently at work areas from 10:00pm to 6:00am weeknights. Two of three lanes were closed intermittently from 12:01am to 5:00am.

- Macombs Dam Bridge:

From January 1 to March 31, one of two lanes in each direction on the Macombs Dam Bridge and the 155th Street Viaduct was closed at all times. Trucks were banned from the bridge. Access from Adam Clayton Powell, Jr. Boulevard to/from the bridge/viaduct was closed. The southbound Major Deegan Expressway exit ramp to the bridge was closed.

There were intermittent complete closures of the entire bridge in the Manhattan-bound direction according to the following schedule.

02/25-03/31:	11:00pm – 5:00am	Sun-Thu,
	11:00pm – 8:00am	Fri-Sat,
	11:00pm – 9:00am	Sat-Sun.

Throughout 2001, there were intermittent closings of single lanes on the Macombs Dam Bridge during off-peak hours; there were no such closures during New York Yankee home games.

Following the completion of the New York Yankee post season home game schedule, one of two lanes in each direction was closed round the clock through the end of 2001. The Major Deegan Expressway southbound ramp to the bridge, and the ramp from the bridge to the southbound Major Deegan Expressway, were also closed.

- Madison Avenue Bridge:

Throughout 2001, 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.

- Third Avenue Bridge (Harlem River):

Throughout 2001, there were intermittent weekday closures of one lane on the approach from Bruckner Boulevard and Third Avenue between 10:am and 3:00pm.

- Willis Avenue Bridge:

From January 1 to September 21, there were intermittent weekday closures of one of the two approach lanes from First Avenue between 9:30am and 2:0pm.

From January 1 to September 21, only one lane was available on the Bruckner Boulevard exit ramp weeknights between 10:00pm and 6:00am.

From October 6 to December 31, there were intermittent weekday closures of one lane on the Willis Avenue Bridge between 10:00am and 3:00pm.

On Wednesday, May 30, The Willis Avenue Bridge was completely closed from 12:01am to 5:30am.

- Grand Street Bridge:

The Grand Street Bridge was completely closed in both directions according to the following schedule:

01/29-03/30: 10:00pm - 6:00am Mon-Thu.

03/31-06/29: 6:00am - 4:30pm Sat-Sun.

- Kosciuszko Bridge:

Throughout 2001, lane closures were in effect on the Kosciuszko Bridge, and/or on the Brooklyn-Queens Expressway in the vicinity of the bridge, according to the following schedule.

10:00am - 2:00pm	Mon-Fri	1 lane each way closed intermittently,
10:00pm - 5:00am	Mon-Fri	1 lane each way closed intermittently,
11:00pm Fri - 6:00am Sat		1 lane each way closed intermittently,
11:00pm Sat - 9:00am Sun		1 lane each way closed intermittently,
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.

- Eastern Boulevard Bridge:

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

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

- Midtown Highway Bridge:

Throughout 2001, intermittent lane closures were in effect on the Midtown Highway Bridge, and/or on the Long Island Expressway in the vicinity of the bridge, during off-peak hours.

- Whitestone Expressway Bridge:

Lane closures were in effect on the Van Wyck Expressway at Roosevelt Avenue (just south of the Whitestone Expressway Bridge) according to the following schedule.

01/01-12/31:	10:00am - 3:00pm	Mon-Fri	1 lane closed each way,
	11:00pm Sat - 11:00am Sun		1 n/b lane closed,
	1:00am - 7:30am Sun		2 n/b lanes closed,
	1:00am - 9:00am Sun		2 s/b lanes closed.

Lane closures were in effect on the Van Wyck Expressway between northern Boulevard and the Grand Central Parkway (just south of the Whitestone Expressway Bridge) according to the following schedule.

01/01-11/23:	9:00pm - 6:00am	Mon-Fri	1 n/b lane closed intermittently,
	9:00pm Fri - noon Sat		1 n/b lane closed intermittently,
	8:00pm - 7:00am	Mon-Fri	1 s/b lane closed intermittently,
	9:00pm Fri - 3:00pm Sat		1 s/b lane closed intermittently,
	12:01am - 5:30am	Mon-Fri	2 n/b lanes closed intermittently,
	1:00am - 6:00am	Sat	2 n/b lanes closed intermittently,
	12:01am - 6:00am	Mon-Fri	2 s/b lanes closed intermittently,
	1:00am - 6:00am	Sat	2 s/b lanes closed intermittently.

- Brooklyn-Battery Tunnel:

Immediately following 9/11, the Brooklyn-Battery tunnel was completely closed to non-essential vehicles round-the-clock in both directions.

On October 13, the tunnel was reopened to Brooklyn-bound traffic, but the only access was from the southbound FDR Drive. The Manhattan-bound Brooklyn-Battery tunnel remained closed to non-essential vehicles round-the-clock.

On November 15, the Manhattan-bound Brooklyn-Battery Tunnel was reopened to passenger vehicles only (no trucks or commercial traffic) on week nights between 8:00pm and 6:00am, and from 8:00pm Friday to 6:00am Monday. Between 6:00am and 8:00pm on weekdays, the Manhattan-bound tunnel was open to emergency vehicles and express buses only. The tunnel also remained open to Brooklyn-bound traffic, with the only access from the southbound FDR Drive.

From 6:00am to 10:00am on weekdays, a Manhattan-bound High Occupancy Vehicle (HOV) lane for vehicles carrying two or more persons and equipped with *EZ-Pass* was provided on the outbound roadway of the Gowanus Expressway from the Belt Parkway to the Brooklyn-Battery Tunnel, with access to the Brooklyn-Battery Tunnel only. During these times, two outbound lanes were available on the Gowanus Expressway. In order to accommodate the HOV facility, the outbound Gowanus Expressway entrance ramp from Third Avenue/Prospect Avenue was closed between 5:00am and 11:00am. The ramp from the outbound Gowanus Expressway to the outbound Prospect Expressway was closed from 5:00am to 6:00am and from 10:00am to 11:00am, and was reversed from 6:00am to 10:00am in order to accommodate the Prospect Expressway HOV lane as described below.

From 6:00am to 10:00am on weekdays, a Manhattan-bound HOV lane for vehicles carrying two or more persons and equipped with *EZ-Pass* was also provided from the Prospect

Expressway by reversing the ramp from the outbound Gowanus Expressway to the outbound Prospect Expressway. This Prospect Expressway HOV lane runs parallel to the Gowanus Expressway HOV lane from the Prospect/Gowanus interchange to the Brooklyn-Battery Tunnel.

Lane closures were in effect in the Brooklyn-Battery tunnel according to the following schedule.

01/01-02/02:	11:00pm - 5:45am	Mon-Fri	1 lane closed in each direction.
02/03-02/16:	11:00pm - 5:00am 12:01am - 6:00am	Mon-Fri Sat	1 lane closed in each direction, 1 inbound lane closed.
02/17-03/16:	11:00pm - 5:00am	Mon-Fri	1 lane closed in each direction.
03/17-05/25:	11:00pm - 5:00am	Sun-Fri	1 lane closed in each direction.
05/26-06/01:	11:00pm - 5:00am	Tue-Fri	1 lane closed in each direction.
06/02-08/03:	11:00pm - 5:00am	Mon-Fri	1 lane closed in each direction.
08/04-08/10:	11:00pm - 5:00am 12:01am - 7:00am 12:01am - 6:00am	Mon-Fri Sat Sun	1 lane closed in each direction, 1 lane closed in each direction, 1 lane closed in each direction.
08/11-09/11:	11:00pm - 5:00am 12:01am - 7:00am	Mon-Fri Sat	1 lane closed in each direction, 1 lane closed in each direction.

- Henry Hudson Bridge:

One of three northbound (upper level) lanes was closed according to the following schedule.

01/01-03/16:	Round the clock	All days	1 n/b approach lane from Dyckman Street to toll plaza closed.
04/28-06/15:	Round the clock	All days	1 n/b lane closed.
06/16-12/31:	6:00am - 2:00pm	Mon-Fri	1 n/b lane closed.

Southbound (upper level) lane closures were in effect according to the following schedule.

02/03-03/09:	10:00am - noon 9:00pm Mon - 4:00am Tue 10:00am - 3:00pm	Mon Tue-Fri	1 s/b toll lane closed, 1 s/b toll lane closed, 1 s/b toll lane closed.
03/10-03/16:	10:00am - 3:00pm	Mon-Fri	1 s/b toll lane closed.
03/17-06/15:	10:00am - 3:00pm	Mon-Fri	2 s/b toll lanes closed.
06/16-08/03:	10:00am - 3:00pm	Mon-Fri	1 s/b lane closed.
08/04-12/31:	10:00am - 2:00pm	Mon-Fri	1 s/b toll lane closed.

Lane closures were in effect between Dyckman Street and the toll Plaza according to the following schedule:

03/17-04/27:	Round the clock	All days	1 lane closed each direction.
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Throughout 2001, there were additional intermittent closings of single lanes in both directions on the Henry Hudson Bridge during off-peak hours.

- Queens-Midtown Tunnel:

Following September 11, non-essential single-occupant Manhattan-bound passenger cars were banned on weekdays between 6:00am and 11:00am.

As of mid-October, single-occupant Manhattan-bound passenger cars were banned on weekdays between 6:00am and 10:00am.

One entire tube was closed according the following schedule.

01/01-02/02: 11:30pm - 6:00am Mon-Fri.
02/03-04/27: 10:00pm - 6:00am Mon-Fri.
04/28-05/25: 10:00pm - 6:00am Sun-Fri.
05/26-07/20: 10:00pm - 6:00am Mon-Fri.
06/16-08/24: 11:30pm Sun - 5:30am Mon.

During these tube closures, one lane in each direction was maintained in the other tube, with tractor trailers and motorcycles banned from the tunnel.

One lane in each tube was closed according the following schedule.

01/01-03/16: 11:30pm Sun - 5:30am Mon.
06/16-08/24: 11:30pm Sun - 5:30am Mon.
08/25-12/31: 11:30pm Sun - 5:30am Mon,
10:00pm - 5:30am Mon-Fri.

Throughout 2001, there were additional intermittent closings of single lanes in both tubes of the Queens-Midtown Tunnel during off-peak hours.

- Triborough Bridge:

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

01/01-02/02: 9:30am - 3:00pm Mon-Thu 1 lane closed on each roadway,
10:00am - noon Fri 1 lane closed on each roadway.
02/03-03/16: 9:30am - 3:00pm Mon-Thu 1 lane closed on each roadway,
9:30am - 2:30pm Fri 1 lane closed on each roadway.
03/17-04/27: 10:00am - 3:00pm Mon-Thu 1 lane closed on each roadway,
10:00am - 2:30pm Fri 1 lane closed on each roadway.
04/28-06/15: 9:30am - 3:00pm Mon-Thu 1 lane closed on each roadway,
9:30am - 2:30pm Fri 1 lane closed on each roadway.
06/16-12/31: 10:00am - 3:00pm Mon-Thu 1 lane closed on each roadway,
10:00am - 2:30pm Fri 1 lane closed on each roadway.

From June 23 to August 24, inbound traffic from the Bruckner Expressway to Manhattan was detoured to Bruckner Boulevard via the 138th Street exit (Exit 45) to Saint Anne's Place for re-entry to the Triborough Bridge. The Cypress Avenue/135th Street entrance to the bridge from local Bronx streets to Queens was open during that period.

From January 1 to November 9, the ramp from the Triborough Bridge to the northbound Major Deegan Expressway was reduced to one lane.

Lane closures were in effect at work areas on the Major Deegan Expressway between the Triborough Bridge and the Bronx/Westchester border according to the following schedule.

01/01-03/23: 10:00am - 3:00pm Mon-Fri 1 lane each way closed as needed,
10:00pm - 5:00am Mon-Fri 1 lane each way closed as needed,
12:30am - 5:00am Mon-Fri 2 lanes each way closed as needed.

Throughout 2001, capacity was limited to two lanes in each direction at all times on the Triborough Bridge connector ramp to/from the Brooklyn-Queens Expressway between 31st Avenue and Astoria Boulevard.

Throughout 2001, there were additional closures of single lanes on the Triborough Bridge roadways during off-peak hours.

- Bronx-Whitestone Bridge:

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

01/01-02/02:	6:00am - noon	Sun	1 lane closed in each direction,
	10:00am - 3:00pm	Mon-Thu	1 lane closed in each direction,
	10:00am - noon	Fri	1 lane closed in each direction.
02/03-02/09:	10:00am - 3:00pm	Mon-Thu	1 lane closed in each direction,
	9:30am - 2:30pm	Fri	1 lane closed in each direction.
02/10-03/09:	10:00am - 3:00pm	Mon-Thu	1 lane closed in each direction,
	10:00am - 2:30pm	Fri	1 lane closed in each direction.
03/10-04/27:	10:00am - 3:00pm	Mon- Fri	1 lane closed in each direction.
04/28-05/11:	10:00pm - 6:00am	Sun-Thu	1 lane closed in each direction,
	10:00pm - 10:00am	Fri-Sat	1 lane closed in each direction.
05/12-06/15:	10:00pm - 6:00am	Sun-Thu	1 s/b lane closed,
	10:00pm - 10:00am	Fri-Sat	1 s/b lane closed.
06/16-08/03:	12:01am - 6:00am	Sun	1 lane closed in each direction,
	7:00am - noon	Sun	1 lane closed in each direction,
	10:00am - 3:00pm	Mon-Thu	1 lane closed in each direction,
	10:00am - 2:30pm	Fri	1 lane closed in each direction,
	10:00pm - 6:00am	Mon-Fri	1 lane closed in each direction,
	12:01am - noon	Sat	1 lane closed in each direction.
08/04-12/31:	10:00am - 3:00pm	Mon-Fri	1 lane closed in each direction.

- Cross Bay Bridge:

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

01/01-02/02:	8:00am - 4:30pm	Mon	1 s/b lane closed.
05/12-05/19:	9:00am - 4:00pm	Mon-Fri	2 s/b lanes closed. <i>Westbound Beach Channel Drive ramp also closed.</i>

- Marine Parkway Bridge:

Throughout 2001, one lane in each direction was closed continuously, and wide loads were prohibited from the bridge.

- Throgs Neck Bridge:

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

01/01-02/02:	10:00am - 3:00pm	Mon-Thu	1 lane closed in each direction,
	10:00am - noon	Fri	1 lane closed in each direction.

02/02-03/09:	10:00am - 3:00pm	Tue & Thu	1 lane closed in each direction,
	10:00am - 3:00pm	Mon & Wed	1 n/b lane closed,
	9:00pm Thu - 5:00am Fri		1 n/b lane closed,
	10:00am - 2:00pm	Fri	1 n/b lane closed,
	11:00pm Fri - 6:00am Sat		1 n/b lane closed.
03/10-03/16:	10:00am - 3:00pm	Mon-Fri	1 lane closed in each direction,
	Round the clock	All days	2 n/b toll lanes closed.
03/17-04/27:	10:00am - 3:00pm	Mon-Thu	1 lane closed in each direction,
	10:00am - 2:00pm	Fri	1 lane closed in each direction,
	Round the clock	All days	2 n/b toll lanes closed.
04/28-06/15:	9:00am - 3:00pm	Mon-Thu	1 s/b lane closed,
	9:00am - 2:00pm	Fri	1 s/b lane closed,
	Round the clock	All days	2 s/b toll lanes closed.
06/16-07/20:	9:00am - 3:00pm	Mon-Thu	1 s/b lane closed,
	9:00am - 2:00pm	Fri	1 s/b lane closed,
	10:00am - 3:00pm	Mon-Thu	1 n/b lane closed,
	10:00am - 2:00pm	Fri	1 n/b lane closed.
07/21-08/03:	10:00am - 3:00pm	Mon-Thu	1 s/b lane closed,
	9:00am - 2:00pm	Fri	1 s/b lane closed,
	10:00am - 3:00pm	Mon-Thu	1 n/b lane closed,
	10:00am - 2:00pm	Fri	1 n/b lane closed.
08/04-12/31:	10:00am - 3:00pm	Mon-Thu	1 s/b lane closed,
	9:00am - 2:00pm	Fri	1 s/b lane closed.

- Verrazano-Narrows Bridge:

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

01/01-10/05:	Round the clock	All days	1 w/b lower level lane closed.
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Eastbound lane closures were in effect on the Verrazano-Narrows Bridge according to the following schedule.

01/01-02/02:	10:00am - 3:00pm	Mon-Wed	2 e/b lanes closed, one each level,
	10:00am - noon	Thu	2 e/b lanes closed, one each level.
02/03-12/31:	10:00am - 3:00pm	Mon-Fri	2 e/b lanes closed, one each level.

As of May 19, the westbound entrance ramp from 92nd Street in Brooklyn was closed weekdays between 6:00am and 3:00pm.

Following September 11, all trucks were required to use the upper level.

Throughout 2001, there were additional intermittent closures of single lanes on the various Verrazano-Narrows Bridge roadways and ramps, and on the Staten Island Expressway, during off-peak hours.

- George Washington Bridge:

Following September 11, all trucks were required to use the upper level.

Throughout 2001, there were intermittent closures of single lanes on the various George Washington Bridge roadways and ramps during off-peak hours.

- Holland Tunnel:

Following September 11, the tunnel was completely closed to Manhattan-bound traffic round-the-clock, except for emergency vehicles. The tunnel was open to New Jersey-bound traffic, but trucks were banned.

In mid-October, the tunnel was opened to Manhattan-bound traffic, but single-occupant passenger cars were banned round-the-clock. Trucks were banned in both directions round-the-clock.

As of November 29, single-occupant Manhattan-bound passenger cars were banned only on weekdays between 6:00am and 6:00pm. The round-the-clock ban on trucks in both directions remained in effect.

Throughout 2001, there were intermittent closures of one of two lanes in both directions in the Holland Tunnel during off-peak hours and on weekends.

- Lincoln Tunnel:

Following September 11, non-essential single-occupant Manhattan-bound passenger cars were banned on weekdays between 6:00am and 11:00am.

As of mid-October, single-occupant Manhattan-bound passenger cars were banned on weekdays between 6:00am and 10:00am.

One of the three tubes of the Lincoln Tunnel was closed according to the following schedule.

01/01-03/09:	11:00pm - 5:00am	Mon-Wed
	1:00am - 9:00am	Sun.
03/10-12/31:	11:00pm - 5:00am	Mon-Fri,
	12:30am - 8:00am	Sat-Sun.

During these closures, two tubes remained open, providing two lanes of traffic in each direction.

- Bayonne Bridge:

From January to March, the west roadway was closed, with one lane in each direction maintained on the east roadway.

From March to December, there were intermittent weekday closures of one of the two lanes in each direction between 10:00pm and 6:00am.

- Goethals Bridge:

Throughout 2001, the pedestrian walk was closed.

From January 1 to March 30, there were intermittent weekday closures of one of the two lanes in each direction between 10:00pm and 6:00am.

- Outerbridge Crossing:

Roadway and lane closures were in effect on the Outerbridge Crossing according to the following schedule.

01/01-03/09:	10:00pm - 6:00am	Mon-Fri	1 e/b lane closed intermittently,
	10:00pm - 6:00am	Mon-Fri	1 w/b lane closed intermittently.

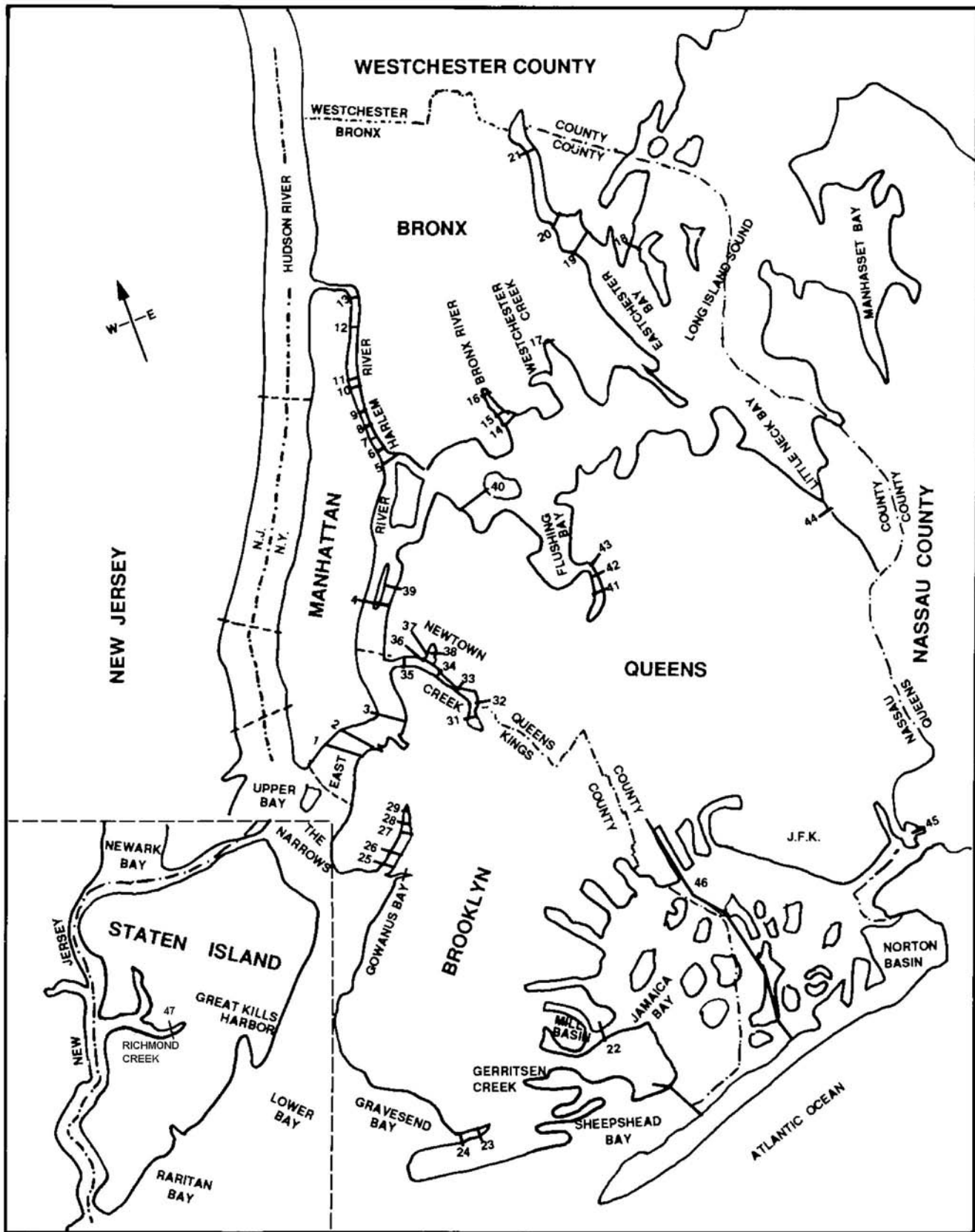
03/10-04/01:	10:00pm - 5:30am	Mon-Fri	1 e/b lane closed intermittently,
	10:00pm - 5:30am	Mon-Fri	1 w/b lane closed intermittently,
	11:00pm Fri - 7:00am Sat		1 e/b lane closed intermittently,
	11:00pm Fri - 7:00am Sat		1 w/b lane closed intermittently.

The Outerbridge Crossing was completely closed according the following schedule.

04/02-04/20:	10:00pm - 6:00am	Mon-Thu	closed both directions,
	11:00pm Fri - 8:00am Sat		closed both directions,
	11:00pm Sat - 9:00am Sun		closed both directions.
04/21-06/01:	10:00pm - 6:00am	Mon-Thu	closed w/b,
	11:00pm Fri - 8:00am Sat		closed w/b,
	11:00pm Sat - 9:00am Sun		closed w/b.
06/02-12/07:	9:30pm - 6:00am	Mon-Thu	closed w/b,
	11:00pm Fri - 6:00am Sat		closed w/b,
	11:00pm Sat - 7:00am Sun		closed w/b.

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 - 2001

Total NYC Toll Free Bridges (cont'd)
Average Daily Traffic Volumes
1948 - 2001

<i>Year</i>	<i>East River</i>	<i>Harlem River</i>	<i>Brooklyn-Queens</i>	<i>Bronx</i>	<i>Year</i>	<i>Brooklyn</i>	<i>Queens</i>	<i>Staten Island</i>	<i>Totals</i>
1948	254,068	207,177	76,884	141,247	1948	91,917	147,106	5,597	923,996
1949	260,933	193,510	65,778	135,682	1949	111,439	173,925	5,759	947,026
1950	240,227	222,671	78,998	150,973	1950	122,058	180,610	6,250	1,001,787
1951	269,352	249,199	95,480	145,227	1951	140,124	200,163	8,023	1,107,568
1952	261,704	222,196	108,369	183,453	1952	127,050	212,687	7,891	1,123,350
1953	292,726	248,629	108,718	177,999	1953	141,728	220,866	7,858	1,198,524
1954	297,903	236,056	118,199	183,057	1954	154,877	221,700	9,098	1,220,890
1955	293,633	250,239	116,018	180,249	1955	140,907	218,696	9,841	1,209,583
1956	297,866	266,781	120,881	197,809	1956	157,758	265,239	9,415	1,315,749
1957	297,028	316,530	137,610	184,031	1957	153,756	261,111	9,897	1,359,963
1958	304,470	329,747	110,097	196,948	1958	179,537	256,536	10,121	1,387,456
1959	312,431	342,349	144,137	188,531	1959	176,508	264,201	8,573	1,436,730
1960	322,660	345,199	135,059	205,757	1960	181,995	259,348	8,147	1,458,165
1961	316,813	333,463	145,861	259,905	1961	207,273	265,848	10,270	1,539,433
1962	318,170	313,230	160,540	263,020	1962	217,232	257,140	9,400	1,538,732
1963	333,880	309,090	160,400	291,240	1963	210,610	288,190	12,450	1,605,860
1964	341,030	407,680	172,570	328,190	1964	213,469	312,090	15,010	1,790,039
1965	353,518	401,259	171,379	351,358	1965	241,570	310,588	15,539	1,845,211
1966	355,745	402,487	198,884	354,029	1966	223,516	313,379	17,175	1,865,215
1967	352,936	427,744	197,695	337,982	1967	211,307	354,637	17,309	1,899,610
1968	357,232	362,095	147,024	389,519	1968	248,667	387,512	19,789	1,911,838
1969	379,416	412,992	199,029	378,854	1969	251,115	387,146	22,379	2,030,931
1970	371,743	429,690	194,709	366,604	1970	238,020	400,381	21,631	2,022,778
1971	364,070	432,195	200,624	391,040	1971	241,116	402,853	26,744	2,058,642
1972	390,292	422,364	200,199	345,542	1972	240,091	387,808	28,455	2,014,751
1973	394,290	449,670	168,037	272,116	1973	226,608	407,538	37,213	1,955,472
1974	394,631	439,112	180,771	282,009	1974	240,762	403,573	36,207	1,977,065
1975	404,379	440,354	194,534	284,772	1975	234,623	390,507	38,684	1,987,853
1976	398,248	429,629	190,701	280,315	1976	237,416	387,662	34,675	1,958,646
1977	398,140	442,200	192,432	268,480	1977	228,117	387,403	30,295	1,947,067
1978	400,146	450,758	194,721	301,248	1978	226,627	410,037	34,467	2,018,004
1979	382,028	427,816	201,314	277,666	1979	247,018	393,749	36,806	1,966,397
1980	392,460	446,292	196,019	284,383	1980	242,682	384,581	41,604	1,988,021
1981	395,125	448,323	201,487	287,933	1981	240,109	432,886	46,947	2,052,810
1982	414,984	470,785	179,788	291,600	1982	258,284	439,128	68,481	2,123,050
1983	413,152	491,153	221,703	301,686	1983	253,358	446,926	46,450	2,174,428
1984	428,541	496,949	224,209	306,019	1984	274,583	449,118	50,341	2,229,760
1985	476,032	538,263	225,050	311,072	1985	275,566	450,396	53,590	2,329,969
1986	469,711	546,896	224,816	356,257	1986	271,818	456,171	44,230	2,369,899
1987	460,092	530,228	238,975	362,490	1987	271,080	466,965	50,372	2,380,202
1988	460,858	520,282	222,871	364,570	1988	281,731	473,735	50,385	2,374,432
1989	461,102	539,381	239,889	354,927	1989	299,865	461,819	36,550	2,393,533
1990	448,713	539,563	243,408	343,574	1990	320,122	450,319	53,442	2,399,141
1991	447,969	533,368	236,472	338,921	1991	273,185	466,539	49,197	2,345,651
1992	443,145	537,353	231,197	343,744	1992	310,084	484,835	48,507	2,398,865
1993	431,874	542,306	230,020	336,776	1993	308,495	467,195	49,969	2,366,635
1994	448,263	526,044	231,657	340,515	1994	302,135	478,793	48,562	2,375,969
1995	464,903	521,882	237,305	348,009	1995	300,832	474,342	47,132	2,394,405
1996	463,482	530,950	239,752	361,505	1996	315,395	495,873	49,740	2,456,697
1997	511,410	546,750	258,585	362,846	1997	318,101	503,323	51,738	2,552,753
1998	523,690	560,062	268,324	392,771	1998	322,057	522,899	53,770	2,643,573
1999	516,507	563,182	266,762	403,934	1999	338,261	541,114	65,577	2,695,337
2000	514,767	578,770	279,944	424,946	2000	331,090	551,329	66,980	2,747,826
2001	427,321	568,759	276,288	439,239	2001	335,404	551,116	67,465	2,665,592

NYC Tolled Facilities
Average Daily Traffic Volumes
1948 - 2001

<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

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.

N.Y.C. Bridges 2001
7am-7pm Vehicle Classification

EAST RIVER BRIDGES	Autos	Buses	Commuter		Commercial		Total
			Vans	Trucks	Vans	Vans	
Brooklyn	50,670	178	1,989	36	2,153	55,026	
Manhattan	19,803	978	4,046	9,702	6,842	41,371	
Queensboro	77,994	2,138	5,435	5,401	9,383	100,351	
Williamsburg	31,069	888	7,407	4,787	3,698	47,849	
Total East River	179,536	4,182	18,877	19,926	22,076	244,597	

HARLEM RIVER BRIDGES							
Alexander Hamilton	81,842	250	2,263	14,056	3,007	101,418	
Broadway	26,451	836	434	835	1,003	29,559	
Macombs Dam	22,462	328	286	1,114	1,929	26,119	
Madison Avenue	23,672	1,247	1,256	1,446	1,780	29,401	
Third Avenue	35,820	907	2,962	3,529	3,305	46,523	
University Heights	26,242	342	914	1,019	1,604	30,121	
Washington	34,433	1,024	936	1,136	1,510	39,039	
Willis Avenue	37,562	789	1,297	2,753	3,247	45,648	
145th Street	15,457	451	626	834	751	18,119	
Total Harlem River	303,941	6,174	10,974	26,722	18,136	365,947	

BROOKLYN-QUEENS BRIDGES							
Grand Street	7,466	212	371	1,879	541	10,469	
Greenpoint Avenue	13,837	230	715	3,557	1,528	19,867	
Kosciuszko	99,943	427	2,036	8,917	7,358	118,681	
Pulaski	20,873	365	824	3,666	2,799	28,527	
Total Brooklyn-Queens	142,119	1,234	3,946	18,019	12,226	177,544	

BRONX BRIDGES							
City Island	11,590	191	140	254	598	12,773	
East 174th Street	7,773	451	253	294	408	9,179	
Eastchester	14,826	272	155	1,086	604	16,943	
Eastern Boulevard	103,130	1,249	1,545	6,203	3,559	115,686	
Hutchinson River Pky	74,321	62	963	1,375	1,494	78,215	
Pelham	13,177	306	182	601	622	14,888	
Unionport	33,796	507	432	1,925	1,379	38,039	
Westchester Avenue	20,287	918	132	583	997	22,917	
Total Bronx	278,900	3,956	3,802	12,321	9,661	308,640	

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

BROOKLYN BRIDGES	Autos	Buses	Commuter		Commercial		Total
			Vans	Trucks	Vans	Vans	
Carroll Street	524	3	101	213	193	1,034	
Cropsey Avenue	20,163	1,179	27	1,013	1,388	23,770	
Hamilton Avenue	33,406	623	1,510	4,895	4,141	44,575	
Metropolitan Avenue	20,990	487	874	4,005	1,846	28,202	
Mill Basin	92,729	635	294	1,449	4,275	99,382	
Ninth Street	4,396	267	96	668	352	5,779	
Stillwell Avenue	5,576	582	0	1,086	0	7,244	
Third Avenue	12,858	205	5	1,609	1,317	15,994	
Third Street	6,725	84	126	541	465	7,941	
Union Street	2,951	43	0	217	258	3,469	
Total Brooklyn	200,318	4,108	3,033	15,696	14,235	237,390	

QUEENS BRIDGES							
Borden Avenue	9,018	245	226	1,530	776	11,795	
Flushing	35,717	377	677	2,008	3,633	42,412	
Hook Creek	46,572	220	1,085	1,859	1,335	51,071	
Hunters Point	4,944	69	165	600	675	6,453	
Little Neck	37,256	477	620	1,250	1,470	41,073	
Midtown Highway	47,867	1,289	1,351	2,297	3,441	56,245	
North Channel	12,253	338	135	681	969	14,376	
Rikers Island	8,060	382	246	399	404	9,491	
Roosevelt Avenue	14,311	493	249	657	806	16,516	
Roosevelt Island	5,832	189	153	226	170	6,570	
Whitestone Expwy	109,306	1,184	3,465	7,580	6,194	127,729	
Total Queens	331,136	5,263	8,372	19,087	19,873	383,731	

STATEN ISLAND							
Fresh Kills	40,248	1,494	2,158	4,072	1,522	49,494	

GRAND TOTALS	1,476,198	26,411	51,162	115,843	97,729	1,767,343
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**2000-2001 Traffic Volume Trends
N.Y.C. Bridges and Tunnels
Both Directions**

EAST RIVER BRIDGES	Highway Functional Classification	2000	2001	Percent Change
Brooklyn	Principal Arterial	147,767	95,586	-35.3 %
Manhattan	Principal Arterial	75,684	73,064	- 3.5 %
Queensboro	Principal Arterial	182,940	176,469	- 3.5 %
Williamsburg	Principal Arterial	108,376	82,202	-24.2 %
Total East River		514,767	427,321	-17.0 %

HARLEM RIVER BRIDGES

Alexander Hamilton	Interstate	177,899	168,605	- 5.2 %
Broadway	Principal Arterial	37,990	41,175	8.4 %
Macombs Dam	Principal Arterial	21,008	39,615	88.6 %
Madison Avenue	Principal Arterial	47,583	43,331	- 8.9 %
Third Avenue	Principal Arterial	73,121	72,756	- 0.5 %
University Heights	Principal Arterial	45,557	46,381	1.8 %
Washington	Minor Arterial	68,075	57,443	-15.6 %
Willis Avenue	Principal Arterial	73,175	72,901	- 0.4 %
145th Street	Minor Arterial	34,362	26,552	-22.7 %
Total Harlem River		578,770	568,759	- 1.7 %

BROOKLYN-QUEENS BRIDGES

Grand Street	Principal Arterial	15,508	13,895	-10.4 %
Greenpoint Avenue	Principal Arterial	26,143	26,766	2.4 %
Kosciuszko	Interstate	200,872	196,565	- 2.1 %
Pulaski	Principal Arterial	37,421	39,062	4.4 %
Total Brooklyn-Queens		279,944	276,288	- 1.3 %

BRONX BRIDGES

City Island	Minor Arterial	18,844	20,012	6.2 %
East 174th Street	Minor Arterial	11,838	12,093	2.2 %
Eastchester	Principal Arterial	22,583	22,810	1.0 %
Eastern Boulevard	Interstate	163,954	169,437	3.3 %
Hutchinson River	Principal Arterial	105,792	108,191	2.3 %
Pelham	Minor Arterial	23,007	22,694	- 1.4 %
Unionport	Principal Arterial	49,006	52,418	7.0 %
Westchester Avenue	Principal Arterial	29,922	31,584	5.6 %
Total Bronx		424,946	439,239	3.4 %

<i>BROOKLYN BRIDGES</i>	Highway Functional Classification	2000	2001	Percent Change
Carroll Street	Local	1,265	1,280	1.2 %
Cropsey Avenue	Principal Arterial	30,334	33,725	11.2 %
Hamilton Avenue	Principal Arterial	59,557	60,808	2.1 %
Metropolitan Avenue	Principal Arterial	41,238	39,930	- 3.2 %
Mill Basin	Principal Arterial	145,070	146,602	1.1 %
Ninth Street	Minor Arterial	7,355	7,898	7.4 %
Stillwell Avenue	Principal Arterial	9,103	9,246	1.6 %
Third Avenue	Principal Arterial	22,084	21,461	- 2.8 %
Third Street	Minor Arterial	10,231	9,855	- 3.7 %
Union Street	Minor Arterial	4,853	4,599	- 5.2 %

Total Brooklyn		331,090	335,404	1.3 %
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QUEENS BRIDGES

Borden Avenue	Minor Arterial	15,063	15,780	4.8 %
Flushing	Principal Arterial	66,243	62,364	- 5.9 %
Hook Creek	Principal Arterial	74,130	72,027	- 2.8 %
Hunters Point	Collector	8,475	8,261	- 2.5 %
Little Neck	Principal Arterial	49,504	53,423	7.9 %
Midtown Highway	Interstate	79,662	82,431	3.5 %
North Channel	Principal Arterial	20,673	20,785	0.5 %
Rikers Island	Collector	13,150	14,503	10.3 %
Roosevelt Avenue	Principal Arterial	22,749	22,856	0.5 %
Roosevelt Island	Collector	9,198	9,655	5.0 %
Whitestone Expwy	Interstate	192,482	189,031	- 1.8 %

Total Queens		551,329	551,116	- 0.0 %
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STATEN ISLAND

Fresh Kills	Principal Arterial	66,980	67,465	0.7 %
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TOLL-FREE GRAND TOTALS		2,747,826	2,665,592	- 3.0 %
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**2000-2001 Traffic Volume Trends
N.Y.C. Bridges and Tunnels**

MTABT Manhattan Facilities	Highway Functional Classification	2000	2001	Percent Change
Brooklyn-Battery Tunnel	Interstate	63,242	13,762	-78.2 %
Henry Hudson Bridge	Principal Arterial	66,304	69,087	4.2 %
Queens-Midtown Tunnel	Interstate	80,879	72,864	- 9.9 %
Triborough Bridge Manhattan Plaza	Principal Arterial	103,079	102,224	- 0.8 %
Total MTABT Manhattan		313,504	257,937	-17.7 %

PANYNJ Manhattan Facilities

George Washington Bridge	Interstate	317,618	309,310	- 2.6 %
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Holland Tunnel	Interstate	101,137	43,377	-57.1 %
Lincoln Tunnel	Principal Arterial	129,710	106,257	-18.1 %
Total Manhattan - New Jersey		548,465	458,944	-16.3 %

MTABT Outer Borough Bridges

Bronx-Whitestone	Interstate	117,583	111,764	- 4.9 %
Cross Bay	Minor Arterial	17,962	19,626	9.3 %
Marine Parkway	Minor Arterial	21,609	19,527	- 9.6 %
Throgs Neck	Interstate	98,357	104,429	6.2 %
Triborough Bridge Bronx Plaza	Interstate	79,243	77,631	- 2.0 %
Verrazano-Narrows	Interstate	202,580	218,971	8.1 %
Total MTABT Outer Boroughs		537,334	551,948	2.7 %

PANYNJ Staten Island Bridges

Bayonne	Principal Arterial	18,493	23,631	27.8 %
Goethals	Interstate	72,791	78,196	7.4 %
Outerbridge Crossing	Principal Arterial	73,384	75,424	2.8 %
Total Staten Island - New Jersey		164,668	177,251	7.6 %

**Manhattan Crossings
2000-2001 Traffic Volume Trends
Both Directions**

EAST RIVER BRIDGES	Highway Functional Classification	2000	2001	Percent Change
Brooklyn	Principal Arterial	147,767	95,586	-35.3 %
Manhattan	Principal Arterial	75,684	73,064	- 3.5 %
Queensboro	Principal Arterial	182,940	176,469	- 3.5 %
Williamsburg	Principal Arterial	108,376	82,202	-24.2 %
Total East River		514,767	427,321	-17.0 %

HARLEM RIVER BRIDGES

Alexander Hamilton	Interstate	177,899	168,605	- 5.2 %
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Broadway	Principal Arterial	37,990	41,175	8.4 %
Macombs Dam	Principal Arterial	21,008	39,615	88.6 %
Madison Avenue	Principal Arterial	47,583	43,331	- 8.9 %
Third Avenue	Principal Arterial	73,121	72,756	- 0.5 %
University Heights	Principal Arterial	45,557	46,381	1.8 %
Washington	Minor Arterial	68,075	57,443	-15.6 %
Willis Avenue	Principal Arterial	73,175	72,901	- 0.4 %
145th Street	Minor Arterial	34,362	26,552	-22.7 %

Total Harlem River		578,770	568,759	- 1.7 %
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MTABT Manhattan Facilities

Brooklyn-Battery Tunnel	Interstate	63,242	13,762	-78.2 %
Henry Hudson Bridge	Principal Arterial	66,304	69,087	4.2 %
Queens-Midtown Tunnel	Interstate	80,879	72,864	- 9.9 %
Triborough Bridge Manhattan Plaza	Principal Arterial	103,079	102,224	- 0.8 %

Total MTABT Manhattan		313,504	257,937	-17.7 %
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PANYNJ Manhattan Facilities

George Washington Bridge	Interstate	317,618	309,310	- 2.6 %
Holland Tunnel	Interstate	101,137	43,377	-57.1 %
Lincoln Tunnel	Principal Arterial	129,710	106,257	-18.1 %

Total Manhattan - New Jersey		548,465	458,944	-16.3 %
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GRAND TOTALS		1,955,506	1,712,961	-12.4 %
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**10-Year Traffic Growth Rate Trends
N.Y.C. Bridges
1951-2001**

Page 1 of 3

East River Bridges	1951-1961	1961-1971	1971-1981	1981-1991	1991-2001
Brooklyn	16.2%	3.2%	- 0.2%	2.3%	- 0.4%
Manhattan	- 4.1%	2.9%	0.8%	- 2.3%	0.6%
Queensboro	1.4%	1.8%	- 0.1%	1.0%	3.8%
Williamsburg	2.2%	- 1.5%	1.2%	3.3%	- 0.1%
Total	1.7%	1.6%	0.3%	1.2%	1.2%

Harlem River Bridges

Alexander Hamilton	<i>Opened January 1963</i>		1.0%	2.3%	- 0.5%
Broadway	4.3%	2.1%	1.4%	3.3%	0.4%
Macombs Dam	4.3%	1.4%	- 0.5%	- 0.5%	- 1.9%
Madison Avenue	- 0.3%	- 0.1%	- 0.1%	0.8%	4.2%
Third Avenue	6.1%	- 2.3%	0.1%	1.3%	0.9%
University Heights	7.0%	- 3.1%	1.0%	- 1.6%	5.2%
Washington	8.1%	- 6.2%	- 0.8%	3.5%	1.3%
Willis Avenue	5.1%	0.4%	- 0.2%	1.2%	1.6%
145th Street	2.6%	- 3.2%	- 1.1%	1.2%	1.3%
Total	4.8%	2.9%	0.3%	1.6%	0.8%

Brooklyn-Queens Bridges

Grand Street	5.6%	2.1%	- 3.9%	4.1%	1.1%
Greenpoint Avenue	- 1.3%	2.1%	- 5.1%	2.8%	0.7%
Kosciuszko	7.1%	3.2%	2.2%	1.6%	2.3%
Pulaski	- 0.9%	1.1%	- 1.9%	2.7%	3.5%
Total	3.6%	2.6%	0.5%	2.0%	2.2%

Bronx Bridges

City Island	5.8%	2.6%	0.2%	4.7%	3.2%
East 174th Street	- 1.5%	- 0.5%	- 6.5%	7.3%	- 3.6%
Eastchester	- 6.4%	11.9%	- 3.9%	1.3%	1.1%
Eastern Blvd	0.8%	3.6%	- 0.2%	0.1%	3.6%
Hutchinson River Pkwy	3.8%	4.2%	2.1%	3.7%	3.8%
Pelham	7.1%	4.0%	0.6%	5.3%	0.3%
Unionport	12.6%	3.8%	-14.4%	0.8%	3.3%
Westchester Avenue	- 1.9%	5.4%	- 1.1%	3.1%	1.7%
Total	3.5%	4.0%	- 2.2%	2.2%	2.9%

Brooklyn Bridges	1951-1961	1961-1971	1971-1981	1981-1991	1991-2001
Carroll Street	13.2%	-12.1%	- 2.1%	- 4.1%	0.5%
Cropsey Avenue	4.3%	2.4%	- 0.6%	2.1%	2.1%
Hamilton Avenue	4.9%	- 0.7%	- 0.1%	1.7%	2.9%
Metropolitan Avenue	3.2%	3.8%	0.0%	1.4%	0.7%
Mill Basin	5.9%	5.1%	0.5%	2.6%	1.3%
Ninth Street	2.3%	- 3.9%	1.1%	0.6%	- 5.0%
Stillwell Avenue	0.9%	2.1%	1.0%	See note	0.5%
Third Avenue	- 0.7%	- 2.2%	1.9%	See note	See note
Third Street	9.2%	- 7.8%	- 0.3%	4.9%	4.3%
Union Street	2.6%	- 1.5%	- 7.2%	- 2.7%	- 0.9%
Total	4.2%	1.7%	0.1%	1.9%	1.6%

Queens Bridges					
Borden Avenue	5.2%	0.9%	4.6%	- 3.0%	0.3%
Flushing	- 2.4%	2.3%	- 1.9%	2.5%	1.1%
Hook Creek	8.9%	3.1%	0.4%	1.9%	2.0%
Hunters Point Avenue	2.6%	- 0.2%	See note	See note	- 2.1%
Little Neck Pkwy	- 2.0%	5.9%	0.0%	- 1.6%	1.5%
Midtown Highway	8.0%	3.0%	2.2%	- 4.2%	1.3%
North Channel	4.0%	3.1%	- 1.9%	1.4%	1.1%
Rikers Island	See note	See note	4.6%	7.4%	0.5%
Roosevelt Avenue	3.3%	- 1.4%	- 1.4%	3.5%	- 0.8%
Roosevelt Island	See note	8.5%	0.9%	2.0%	- 0.5%
Whitestone Expwy	2.7%	11.4%	0.5%	1.6%	3.6%
Total	2.9%	5.0%	0.2%	0.7%	1.9%

Staten Island Bridges					
Fresh Kills	1.7%	10.4%	3.7%	- 1.5%	3.9%

TOLL FREE GRAND TOTAL	3.4%	3.1%	0.0%	1.4%	1.7%
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Notes: Carroll Street Bridge closed 1980, 1986-1988.
 Ninth Street Bridge closed 1995-1998.
 Stillwell Avenue Bridge closed 1983-1989.
 Third Avenue Bridge closed 1991.
 Third Street Bridge closed 1982-1985.
 Hunters Point Avenue Bridge closed 1975-1983.
 Rikers Island Bridge opened November 22, 1966.
 Roosevelt Island Bridge opened May 18, 1955.

**10-Year Traffic Growth Rate Trends
 N.Y.C. Tolled Facilities
 1951-2001**

Manhattan MTABT Facilities	1951-1961	1961-1971	1971-1981	1981-1991	1991-2001
Brooklyn-Battery Tunnel	1.5%	3.2%	1.3%	0.7%	- 3.7%
Henry Hudson Bridge	- 1.2%	- 2.2%	- 3.9%	6.8%	1.7%
Queens-Midtown Tunnel	6.8%	2.1%	- 0.3%	- 0.5%	- 0.1%
Triborough (Manhattan Plz)	3.4%	4.3%	0.5%	0.6%	1.0%
Total	2.3%	2.1%	- 0.2%	1.3%	- 0.1%

Manhattan PANYNJ Facilities					
George Washington Bridge	4.0%	7.0%	1.2%	1.0%	2.3%
Holland Tunnel	0.9%	- 0.3%	0.9%	2.3%	- 1.3%
Lincoln Tunnel	4.7%	1.7%	1.1%	1.0%	0.2%
Total	3.4%	4.0%	1.1%	1.2%	1.1%

Outer Borough MTABT Facilities					
Bronx-Whitestone	2.9%	6.0%	0.6%	1.1%	1.8%
Cross Bay	0.9%	1.6%	- 3.7%	1.6%	2.7%
Marine Parkway	1.7%	3.1%	- 3.2%	2.2%	- 0.4%
Throgs Neck	See notes	See notes	0.0%	0.3%	0.3%
Triborough (Bronx Plz)	3.4%	4.2%	- 1.9%	0.6%	0.5%
Verrazano-Narrows	See notes	See notes	2.7%	2.7%	1.7%
Total	2.7%	9.4%	0.3%	1.5%	1.2%

Outer Borough PANYNJ Facilities

Bayonne	- 0.3%	5.3%	0.8%	- 0.5%	5.7%
Goethals	5.8%	21.8%	- 2.2%	3.4%	2.1%
Outerbridge Crossing	0.9%	5.1%	21.4%	4.5%	1.6%
Total	2.5%	13.6%	3.0%	3.4%	2.2%

Notes: Brooklyn-Battery Tunnel opened May 25, 1950.

Throgs Neck Bridge opened January 11, 1961.

Verrazano-Narrows Bridge opened November 21, 1964.

PANYNJ Manhattan - New Jersey Facilities
Average Daily Traffic Volumes
1948 - 2001

Year	George Washington Bridge	Holland Tunnel	Lincoln Tunnel	Totals
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

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 - 2001

Year	Bayonne Bridge	Goethals Bridge	Outerbridge Crossing	Totals
1948	5,241	4,283	3,690	13,214
1949	5,754	4,641	4,233	14,628
1950	6,360	5,215	4,856	16,431
1951	6,314	6,028	5,993	18,335
1952	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

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

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

Note: Due to traffic restrictions arising from the events of 9/11/2001, Holland Tunnel daily volume in fall 2001 fell 57% below the fall 2000 level, and Lincoln Tunnel volume was 18% below the 2000 level.

Bronx Bridges
Average Daily Traffic Volumes
1948 - 2001

Bronx Bridges (cont'd)
Average Daily Traffic Volumes
1948 - 2001

Year	City Island	East 174th Street	Eastchester	Eastern Boulevard	Hutchinson River Pky	Year	Pelham	Unionport	Westchester Avenue	Totals
1948	4,249	8,995	15,012	44,563	15,085	1948	5,084	37,359	10,900	141,247
1949	4,078	8,287	11,322	42,615	20,087	1949	5,252	30,278	13,763	135,682
1950	3,712	10,607	13,715	48,184	21,513	1950	5,872	32,969	14,401	150,973
1951	3,588	11,187	14,992	46,804	21,237	1951	4,357	30,100	12,962	145,227
1952	3,474	11,588	15,964	68,245	24,247	1952	4,511	40,854	14,570	183,453
1953	4,850	9,996	14,341	58,492	32,805	1953	4,331	38,468	14,716	177,999
1954	3,969	11,299	15,079	78,010	24,706	1954	5,998	28,890	15,106	183,057
1955	3,855	11,533	14,087	60,892	27,337	1955	4,122	45,292	13,131	180,249
1956	5,377	8,329	14,715	63,449	37,155	1956	6,908	47,992	13,884	197,809
1957	5,301	8,873	13,163	60,323	33,533	1957	6,824	45,010	11,004	184,031
1958	3,925	6,927	11,192	56,647	34,067	1958	5,599	69,044	9,547	196,948
1959	4,442	8,539	11,728	50,787	31,559	1959	5,731	62,198	13,547	188,531
1960	6,071	9,259	9,527	67,082	33,048	1960	6,844	59,433	14,493	205,757
1961	7,167	12,863	5,491	71,734	34,858	1961	9,857	107,115	10,820	259,905
1962	6,030	12,420	8,590	85,070	28,330	1962	6,410	104,820	11,350	263,020
1963	7,210	9,190	10,840	80,840	35,690	1963	9,780	113,680	24,010	291,240
1964	8,930	10,540	11,480	94,660	37,790	1964	11,010	134,200	19,580	328,190
1965	9,909	10,272	12,853	94,167	48,870	1965	13,345	139,724	22,218	351,358
1966	7,512	10,867	12,000	88,510	52,483	1966	10,064	149,176	23,417	354,029
1967	8,269	12,583	12,000	70,612	47,693	1967	11,025	149,032	26,768	337,982
1968	8,508	12,296	11,472	82,581	50,427	1968	15,521	177,024	31,690	389,519
1969	9,267	11,034	13,940	93,850	48,629	1969	11,624	168,297	22,213	378,854
1970	8,996	10,924	15,977	106,685	42,987	1970	11,320	146,748	23,067	366,604
1971	8,724	10,473	26,743	126,757	49,136	1971	13,098	135,254	20,855	391,040
1972	9,433	10,676	22,801	145,755	47,487	1972	16,440	70,659	22,291	345,542
1973	12,481	11,909	21,800	104,293	51,137	1973	10,852	30,459	29,185	272,116
1974	10,009	9,994	20,724	124,668	47,737	1974	12,963	33,528	22,386	282,009
1975	11,836	9,356	20,599	123,389	51,629	1975	12,992	34,648	20,323	284,772
1976	10,112	9,632	17,351	124,087	52,498	1976	13,284	29,903	23,448	280,315
1977	10,073	7,493	17,935	114,478	51,613	1977	12,177	33,289	21,422	268,480
1978	10,559	7,967	19,595	122,745	68,239	1978	14,866	36,515	20,762	301,248
1979	10,355	6,203	16,893	128,836	47,187	1979	12,978	34,574	20,640	277,666
1980	9,922	6,328	17,644	126,040	57,192	1980	16,327	28,702	22,228	284,383
1981	10,216	6,037	17,723	125,133	59,824	1981	13,210	34,492	21,298	287,933
1982	10,447	6,641	18,848	125,945	69,091	1982	Closed	37,935	22,693	291,600
1983	11,056	10,252	18,162	130,492	59,615	1983	10,740	38,676	22,693	301,686
1984	11,715	10,134	21,448	136,387	69,925	1984	14,862	41,548	Closed	306,019
1985	10,180	Closed	20,955	138,725	59,455	1985	12,603	42,915	26,239	311,072
1986	14,063	9,632	20,571	147,789	78,211	1986	15,753	45,382	24,856	356,257
1987	12,639	10,489	22,870	154,741	79,179	1987	14,498	45,450	22,624	362,490
1988	13,444	10,659	23,275	154,385	80,904	1988	15,144	41,573	25,186	364,570
1989	13,843	11,574	19,307	136,008	85,410	1989	15,644	43,696	29,445	354,927
1990	16,240	13,702	20,559	117,384	91,280	1990	18,728	38,541	27,140	343,574
1991	15,299	14,587	20,520	122,414	76,794	1991	20,917	37,842	30,548	338,921
1992	13,960	15,558	20,783	123,097	76,641	1992	23,895	40,348	29,462	343,744
1993	13,938	13,734	20,825	128,713	78,053	1993	20,235	40,385	20,893	336,776
1994	13,867	12,876	19,997	125,592	80,773	1994	23,960	41,910	21,540	340,515
1995	14,911	12,428	18,872	130,647	85,985	1995	23,598	39,811	21,757	348,009
1996	14,062	12,719	20,172	133,517	84,158	1996	24,807	47,953	24,117	361,505
1997	14,264	11,955	21,001	133,278	85,703	1997	22,963	47,941	25,741	362,846
1998	14,954	13,758	21,415	151,238	93,304	1998	23,264	48,975	25,863	392,771
1999	16,863	5,667	21,510	157,987	98,700	1999	21,430	50,563	31,214	403,934
2000	18,844	11,838	22,583	163,954	105,792	2000	23,007	49,006	29,922	424,946
2001	20,012	12,093	22,810	169,437	108,191	2001	22,694	52,418	31,584	439,239

Brooklyn Bridges
Average Daily Traffic Volumes
1948 - 2001

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

Brooklyn Bridges (cont'd)
Average Daily Traffic Volumes
1948 - 2001

Year	Ninth Street	Stillwell Avenue	Third Avenue	Third Street	Union Street	Totals
1948	6,006	4,295	17,220	3,438	5,165	91,917
1949	5,640	4,911	19,048	5,716	6,502	111,439
1950	6,895	5,832	13,068	4,976	7,839	122,058
1951	7,159	5,312	19,114	4,852	7,207	140,124
1952	7,376	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	6,987	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	8,660	249,667
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	226,607
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

East River Bridges
Average Daily Traffic Volumes
1948 - 2001

<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

Note: Due to traffic restrictions arising from the events of 9/11/2001, Brooklyn Bridge daily volume in fall 2001 fell 35% below the fall 2000 level.

Harlem River Bridges
Average Daily Traffic Volumes
1948 - 2001

Year	Alexander Hamilton	Broadway	Macombs Dam	Madison Avenue	Third Avenue
1948		16,020	33,608	27,222	31,403
1949		17,369	23,854	17,363	20,024
1950		15,462	28,641	27,933	34,984
1951	Bridge Opened Jan. 1963	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

Harlem River Bridges (cont'd)
Average Daily Traffic Volumes
1948 - 2001

Year	University Heights	Washington	Willis Avenue	145th Street	Totals
1948	21,706	29,374	29,648	18,196	207,177
1949	14,098	32,122	42,772	25,908	193,510
1950	24,986	29,541	38,708	22,416	222,671
1951	25,270	28,599	35,959	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	52,964	21,189	440,354
1976	34,494	39,058	53,873	19,750	429,629
1977	29,128	38,185	52,484	20,898	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	576,770
2001	46,381	57,443	72,901	26,552	568,759

Manhattan MTABT Facilities
Average Daily Traffic Volumes
1948 - 2001

Outer Borough MTABT Bridges
Average Daily Traffic Volumes
1948 - 2001

Year	Brooklyn-Battery Tunnel	Henry Hudson Bridge	Queens-Midtown Tunnel	Triborough Bridge Manh. Plz.	Manhattan Totals	Year	Bronx-Whitestone	Cross Bay	Marine Parkway	Throgs Neck	Triborough Bronx Plz.	Verrazano-Narrows	Totals
1948	Opened	40,050	26,462	26,465	92,977	1948	33,343	11,421	10,216	Opened	25,997	Opened	80,977
1949	05/25/1950	47,472	30,045	32,554	110,071	1949	41,485	12,579	11,743	01/11/1961	31,310	11/21/1964	97,117
1950	37,258	53,559	34,044	36,995	161,856	1950	47,900	13,002	12,971		35,581		109,454
1951	41,253	57,700	36,680	44,639	180,272	1951	54,565	13,443	13,449		42,934		124,391
1952	45,366	61,592	38,866	48,503	194,327	1952	59,289	13,706	13,995		46,777		133,747
1953	47,999	65,432	38,509	48,595	200,535	1953	66,055	15,460	15,620		46,738		143,873
1954	45,120	69,025	38,185	52,286	204,616	1954	72,061	15,348	16,113		50,289		153,811
1955	45,843	71,240	39,839	59,913	216,835	1955	77,352	15,630	16,571		57,623		167,176
1956	48,054	69,477	49,544	64,460	231,535	1956	82,643	15,557	16,277		62,167		176,644
1957	54,490	62,865	54,311	64,677	236,343	1957	82,199	15,465	16,172		62,206		176,042
1958	53,789	57,321	58,321	62,982	232,413	1958	83,022	14,895	15,694		60,576		174,167
1959	49,468	56,529	61,115	64,389	231,501	1959	88,731	15,589	16,975		61,929		183,224
1960	48,970	56,675	62,008	63,115	230,768	1960	91,956	15,175	16,605		60,870		184,606
1961	48,197	57,140	62,301	59,603	227,241	1961	55,100	15,518	16,657		57,325		144,600
1962	48,173	59,548	65,038	60,251	233,010	1962	47,532	15,939	17,301	60,697	57,949		199,418
1963	48,271	52,803	63,038	60,988	225,100	1963	45,352	16,421	17,978	75,532	58,657		213,940
1964	51,893	50,768	67,713	66,139	236,513	1964	64,573	16,594	18,145	76,245	61,152		236,709
1965	56,455	45,353	69,386	69,755	240,949	1965	72,053	16,864	18,855	77,755	67,090	48,842	301,459
1966	57,674	44,043	69,850	71,540	243,107	1966	71,382	17,684	19,745	80,647	68,806	58,720	316,984
1967	57,611	43,409	69,416	73,602	244,038	1967	73,931	17,448	19,904	81,237	70,791	66,607	329,918
1968	60,652	44,908	66,432	75,932	247,924	1968	78,773	18,367	21,424	83,634	73,232	77,393	352,823
1969	62,116	45,382	68,884	78,481	254,863	1969	79,416	17,608	21,406	85,708	75,482	86,114	365,734
1970	62,042	46,720	77,180	85,121	271,063	1970	81,582	17,908	22,076	83,734	81,868	96,953	384,121
1971	64,032	50,541	81,747	90,372	286,692	1971	86,573	18,399	22,426	84,279	83,804	106,014	401,495
1972	52,065	45,818	74,936	80,052	252,871	1972	80,704	16,813	20,956	89,595	74,777	105,898	388,743
1973	49,916	41,871	74,214	85,592	251,593	1973	81,548	16,783	21,502	95,326	75,552	111,385	402,096
1974	46,620	38,331	75,219	82,676	242,846	1974	82,699	16,769	19,734	89,622	76,673	109,671	395,168
1975	45,636	30,603	65,315	72,566	214,120	1975	81,081	15,019	18,715	87,725	70,338	108,572	381,450
1976	52,444	30,557	65,881	68,325	217,207	1976	82,060	14,281	17,804	89,520	67,887	110,761	382,313
1977	53,500	31,840	71,150	73,276	229,766	1977	81,992	14,489	16,724	90,635	67,590	113,040	384,470
1978	58,252	33,605	72,696	76,572	241,125	1978	86,537	13,955	17,750	89,847	64,746	125,799	398,634
1979	60,445	33,387	69,827	87,885	251,544	1979	90,394	13,690	17,404	86,315	63,046	124,667	395,516
1980	62,386	31,817	73,216	88,439	255,858	1980	88,346	13,903	16,472	87,011	63,219	130,904	399,855
1981	58,657	36,625	81,211	93,361	269,854	1981	84,475	11,583	16,510	91,511	76,200	137,695	417,974
1982	56,189	30,923	78,229	88,158	253,499	1982	90,312	13,072	17,119	93,867	74,092	143,811	432,273
1983	61,130	31,279	78,134	92,967	263,510	1983	97,945	13,412	18,003	97,706	78,885	140,645	446,596
1984	58,032	34,898	74,808	95,247	262,985	1984	97,636	14,835	19,749	90,153	79,300	155,892	457,565
1985	63,469	41,680	76,065	94,644	275,858	1985	109,012	15,279	20,595	84,517	83,747	162,632	475,782
1986	60,778	49,005	71,478	93,432	274,693	1986	102,567	15,162	19,965	94,395	80,703	162,426	475,218
1987	63,256	52,778	77,813	95,795	289,642	1987	102,115	14,289	20,512	93,770	81,424	170,319	482,429
1988	62,959	54,910	76,243	99,438	293,550	1988	98,235	14,989	21,098	102,333	83,002	174,416	494,073
1989	59,254	50,556	72,828	92,720	275,358	1989	95,762	14,466	19,666	94,147	78,877	172,529	475,447
1990	60,512	57,528	71,186	99,840	289,066	1990	104,377	14,645	21,489	91,237	80,346	175,948	488,042
1991	63,883	56,279	80,616	94,487	295,265	1991	99,054	14,925	20,893	94,377	81,364	178,340	488,953
1992	62,510	58,660	81,835	97,198	300,203	1992	96,800	14,821	21,042	98,135	77,125	183,218	491,171
1993	57,561	54,650	77,288	92,660	282,159	1993	93,712	14,578	20,137	101,402	70,458	178,416	478,703
1994	57,013	58,291	68,511	79,536	263,351	1994	104,819	14,442	20,623	97,471	71,777	181,156	490,288
1995	61,097	62,899	73,882	95,696	293,574	1995	108,185	15,423	20,568	97,282	72,012	184,634	498,104
1996	57,091	58,759	72,285	92,981	281,116	1996	101,048	14,845	21,212	97,629	74,522	184,557	493,813
1997	54,690	59,660	78,023	91,313	283,686	1997	93,018	14,221	19,782	102,094	76,937	182,871	488,923
1998	61,091	59,339	79,697	93,863	293,990	1998	104,125	16,286	19,583	99,471	81,913	194,592	515,970
1999	63,307	61,165	80,941	98,553	303,966	1999	120,170	16,975	19,904	90,986	80,019	194,623	522,677
2000	63,242	66,304	80,879	103,079	313,504	2000	117,583	17,862	21,609	98,357	79,243	202,580	537,334
2001	13,762	69,087	72,864	102,224	257,937	2001	111,764	19,626	19,527	104,429	77,631	218,971	551,948

MTABT Toll Increases 1/72, 9/75, 5/80, 4/82, 1/84, 1/86, 2/87, 7/89, 1/93, & 3/96.

MTABT Toll Increases 1/72, 9/75, 5/80, 4/82, 1/84, 1/86, 2/87, 7/89, 1/93, & 3/96.

Note: Due to traffic restrictions arising from the events of 9/11/2001, Brooklyn-Battery Tunnel daily volume in fall 2001 fell 78% below the fall 2000 level, and Queens-Midtown Tunnel volume was 10% below the 2000 level.

Brooklyn - Queens Bridges
Average Daily Traffic Volumes
1948 - 2001

Year	Grand Street	Greenpoint Avenue	Kosciuszko	Pulaski	Totals
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

Queens Bridges
Average Daily Traffic Volumes
1948 - 2001

Queens Bridges (cont'd)
Average Daily Traffic Volumes
1948 - 2001

Year	Borden Avenue	Flushing	Hook Creek	Hunters Point	Little Neck	Midtown Highway	Year	North Channel	Rikers Island	Roosevelt Avenue	Roosevelt Island	Whitestone Expressway	Totals
1948	4,846	26,276	9,620	5,500	22,255	28,754	1948	8,521	Bridge opened	14,044	Bridge opened	27,290	147,106
1949	11,052	29,949	14,969	9,482	21,190	27,963	1949	8,855		18,907		31,558	173,925
1950	6,222	30,836	18,240	6,751	19,549	32,429	1950	7,361	11/22/1966	20,451	05/18/1955	38,771	180,610
1951	5,930	50,918	16,064	6,000	30,873	31,812	1951	9,868		9,330		39,368	200,163
1952	6,155	40,589	16,856	5,688	31,544	35,088	1952	8,952		23,596		44,219	212,687
1953	7,473	46,952	17,218	6,575	29,266	34,513	1953	10,941		20,473		47,455	220,866
1954	5,997	39,837	23,399	7,611	35,614	30,495	1954	10,661		18,007		50,069	221,700
1955	6,793	34,201	19,481	2,984	30,428	39,650	1955	11,315		20,123	2,144	51,577	218,696
1956	7,612	47,985	20,796	6,267	43,761	49,944	1956	10,216		17,987	2,689	57,982	265,239
1957	7,759	53,836	18,691	7,018	38,387	47,481	1957	6,192		20,984	2,157	58,606	261,111
1958	7,833	43,075	28,031	5,735	30,029	45,593	1958	12,763		19,653	3,137	60,687	256,536
1959	9,992	28,616	30,663	7,603	27,072	55,665	1959	13,453		29,616	2,760	58,761	264,201
1960	9,739	37,833	33,549	7,753	23,718	62,051	1960	14,923		18,153	3,014	48,615	259,348
1961	9,030	36,383	34,598	7,337	24,851	62,520	1961	13,155		21,475	2,947	53,542	265,848
1962	8,860	35,370	36,590	7,150	26,670	57,600	1962	15,900		24,440	3,220	41,340	257,140
1963	9,480	46,210	37,450	7,170	30,040	57,770	1963	19,730		29,500	3,220	47,620	288,190
1964	16,530	40,220	38,620	5,110	27,980	60,610	1964	18,020		18,110	3,440	83,450	312,090
1965	8,026	40,484	35,185	6,652	33,504	60,973	1965	20,629		20,143	3,791	81,201	310,588
1966	9,461	42,613	38,742	6,882	33,383	68,752	1966	18,890		18,728	4,133	71,795	313,379
1967	9,348	32,479	38,995	6,206	37,037	72,962	1967	17,748	1,973	21,493	5,973	110,363	354,637
1968	8,761	38,664	44,000	6,601	36,281	69,058	1968	18,258	2,809	21,352	4,987	136,741	387,512
1969	11,083	47,945	51,067	7,073	38,901	62,712	1969	18,957	2,983	19,588	4,675	122,162	387,146
1970	10,318	47,311	44,588	6,544	42,606	84,844	1970	20,937	3,543	21,656	6,201	111,833	400,381
1971	11,721	48,238	44,185	7,072	44,528	75,706	1971	22,426	3,594	21,587	6,182	117,614	402,853
1972	11,201	50,499	45,365	6,825	38,604	65,481	1972	20,342	3,680	20,754	7,007	118,050	387,808
1973	11,276	54,597	50,681	8,515	44,193	73,292	1973	17,885	4,850	20,910	7,944	113,395	407,538
1974	12,272	48,909	53,120	5,899	39,506	68,127	1974	19,541	4,794	19,545	8,656	123,204	403,573
1975	17,135	53,431	48,089	Closed	37,741	67,933	1975	18,971	4,784	19,256	6,417	116,750	390,507
1976	17,883	47,569	55,722	Closed	39,382	64,438	1976	15,231	4,891	17,351	7,031	118,164	387,662
1977	17,072	49,420	44,370	Closed	43,122	60,501	1977	16,228	4,423	18,776	7,809	125,682	387,403
1978	16,769	48,491	47,286	Closed	42,052	85,223	1978	18,456	4,728	19,058	6,851	121,123	410,037
1979	16,055	35,518	52,650	Closed	46,197	70,893	1979	19,004	5,491	19,980	6,838	121,123	393,749
1980	15,068	48,856	45,169	Closed	38,735	74,334	1980	19,156	6,066	19,090	7,501	110,606	384,581
1981	18,630	42,040	50,566	Closed	41,135	100,182	1981	15,931	6,085	17,911	8,383	132,023	432,886
1982	21,793	54,661	52,193	Closed	41,470	100,182	1982	15,931	6,946	16,944	8,064	120,944	439,128
1983	22,123	51,237	54,087	Closed	44,436	88,132	1983	15,392	7,807	15,051	8,940	139,721	446,926
1984	18,724	54,323	50,681	4,044	47,623	89,000	1984	16,323	9,487	20,292	8,787	129,834	449,118
1985	18,723	64,382	50,458	4,755	42,737	73,315	1985	21,619	6,019	25,546	8,190	134,650	450,396
1986	14,714	64,371	56,735	5,870	44,125	71,938	1986	18,480	8,056	23,219	9,199	139,464	456,171
1987	15,067	62,811	57,634	5,938	45,069	70,079	1987	16,620	12,386	19,567	8,754	153,040	466,965
1988	14,907	62,956	61,083	6,549	43,826	71,761	1988	17,032	12,070	22,567	10,207	150,777	473,735
1989	14,698	61,756	63,406	6,746	36,085	65,160	1989	17,242	11,493	24,440	9,501	151,292	461,819
1990	18,430	61,248	57,660	10,849	28,746	66,269	1990	18,115	11,195	23,285	9,275	145,247	450,319
1991	16,122	58,189	57,442	10,279	42,695	74,328	1991	19,267	12,491	23,466	10,236	141,824	466,539
1992	13,146	61,306	64,502	10,997	48,388	72,144	1992	19,666	15,579	23,687	9,751	145,669	484,835
1993	15,074	54,005	60,517	8,138	48,906	64,368	1993	17,699	14,206	28,012	9,830	146,440	467,195
1994	14,412	58,837	64,545	6,804	48,314	66,633	1994	16,516	12,494	24,631	9,638	155,969	478,793
1995	14,074	59,543	66,517	7,594	50,034	67,810	1995	17,388	12,213	22,758	9,382	147,029	474,342
1996	16,661	61,211	66,151	7,781	49,640	69,394	1996	17,519	11,906	22,543	9,489	163,578	495,873
1997	14,293	59,792	63,618	7,275	51,718	69,273	1997	18,991	12,461	24,566	9,302	172,034	503,323
1998	15,182	60,864	66,123	7,024	52,876	70,486	1998	19,114	15,672	22,994	10,048	182,516	522,899
1999	14,156	63,348	70,555	8,509	52,846	72,749	1999	19,337	14,240	23,784	9,491	192,099	541,114
2000	15,063	66,243	74,130	8,475	49,504	79,662	2000	20,673	13,150	22,749	9,198	192,482	551,329
2001	15,780	62,364	72,027	8,261	53,423	82,431	2001	20,785	14,503	22,856	9,655	189,031	551,116

**Hourly Vehicular Volumes
Grand Street Bridge - 2001**

	<i>Eastbound to Queens</i>						<i>Westbound to Brooklyn</i>						2-Way Totals
	Autos	Buses	Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Vans	Trucks	Commercial Vans	Totals	
12-1am	---	---	---	---	---	57	---	---	---	---	---	77	134
1-2am	---	---	---	---	---	55	---	---	---	---	---	65	120
2-3am	---	---	---	---	---	47	---	---	---	---	---	55	102
3-4am	---	---	---	---	---	58	---	---	---	---	---	81	139
4-5am	---	---	---	---	---	89	---	---	---	---	---	99	188
5-6am	---	---	---	---	---	222	---	---	---	---	---	224	446
6-7am	---	---	---	---	---	385	---	---	---	---	---	517	902
7-8am	258	9	8	38	13	326	455	17	33	134	31	670 **	996
8-9am	170	4	7	65	15	261	369	7	35	193	59	663	924
9-10am	206	15	2	65	21	309	322	10	32	186	52	602	911
10-11am	213	4	4	50	26	297	431	13	15	82	23	564	861
11-12am	162	5	10	91	29	297	281	5	27	107	29	449	746
12-1pm	286	9	3	35	9	342	338	9	14	44	12	417	759
1-2pm	271	5	9	47	15	347	312	14	24	64	16	430	777
2-3pm	271	11	12	106	36	436	211	4	28	124	32	399	835
3-4pm	405	8	4	46	9	472	380	16	11	68	13	488	960
4-5pm	427	14	15	55	21	532	353	9	24	73	20	479	1,011 **
5-6pm	440	8	11	63	25	547 **	352	4	21	65	17	459	1,006
6-7pm	302	6	8	51	15	382	251	6	14	27	3	301	683
7-8pm	---	---	---	---	---	256	---	---	---	---	---	217	473
8-9pm	---	---	---	---	---	168	---	---	---	---	---	147	315
9-10pm	---	---	---	---	---	111	---	---	---	---	---	118	229
10-11pm	---	---	---	---	---	98	---	---	---	---	---	103	201
11-12pm	---	---	---	---	---	72	---	---	---	---	---	105	177
Totals	---	---	---	---	---	6,166	---	---	---	---	---	7,729	13,895
7-10am	634	28	17	168	49	896	###	34	100	513	142	1,935	2,831
10am-1pm	661	18	17	176	64	936	###	27	56	233	64	1,430	2,366
1-4pm	947	24	25	199	60	1,255	903	34	63	256	61	1,317	2,572
4-7pm	1,169	28	34	169	61	1,461	956	19	59	165	40	1,239	2,700
7am-7pm	3,411	98	93	712	234	4,548	###	114	278	1,167	307	5,921	10,469

Based on 1989 Classification Survey Data

** Peak Volumes

Greenpoint Avenue Bridge - 2001

	Eastbound to Queens						Westbound to Brooklyn						2-Way Totals
	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans	Totals	
12-1am	---	---	---	---	---	119	---	---	---	---	---	122	241
1-2am	---	---	---	---	---	104	---	---	---	---	---	81	185
2-3am	---	---	---	---	---	78	---	---	---	---	---	61	139
3-4am	---	---	---	---	---	74	---	---	---	---	---	83	157
4-5am	---	---	---	---	---	131	---	---	---	---	---	129	260
5-6am	---	---	---	---	---	315	---	---	---	---	---	345	660
6-7am	---	---	---	---	---	746	---	---	---	---	---	785	1,531
7-8am	648	13	22	139	46	868	674	10	52	205	82	1,023 **	1,891
8-9am	553	16	25	210	48	852	685	12	34	194	86	1,011	1,863
9-10am	394	7	26	204	68	699	461	14	56	277	118	926	1,625
10-11am	529	3	7	77	34	650	503	5	25	145	49	727	1,377
11-12am	407	11	17	170	71	676	340	6	20	246	135	747	1,423
12-1pm	554	3	12	78	26	673	488	5	27	119	61	700	1,373
1-2pm	607	10	15	85	21	738	491	15	38	122	43	709	1,447
2-3pm	536	6	23	168	81	814	172	11	91	340	129	743	1,557
3-4pm	857	8	10	82	33	990	667	6	23	95	28	819	1,809
4-5pm	817	12	36	136	84	1,085	659	8	29	98	45	839	1,924
5-6pm	863	9	34	133	75	1,114 **	663	9	50	74	58	854	1,968 **
6-7pm	750	16	21	96	67	950	519	15	22	64	40	660	1,610
7-8pm	---	---	---	---	---	729	---	---	---	---	---	484	1,213
8-9pm	---	---	---	---	---	498	---	---	---	---	---	355	853
9-10pm	---	---	---	---	---	383	---	---	---	---	---	319	702
10-11pm	---	---	---	---	---	289	---	---	---	---	---	252	541
11-12pm	---	---	---	---	---	198	---	---	---	---	---	219	417
Totals	---	---	---	---	---	13,773	---	---	---	---	---	12,993	26,766
7-10am	1,595	36	73	553	162	2,419	###	36	142	676	286	2,960	5,379
10am-1pm	1,490	17	36	325	131	1,999	###	16	72	510	245	2,174	4,173
1-4pm	2,000	24	48	335	135	2,542	###	32	152	557	200	2,271	4,813
4-7pm	2,430	37	91	365	226	3,149	###	32	101	236	143	2,353	5,502
7am-7pm	7,515	114	248	1,578	654	10,109	###	116	467	1,979	874	9,758	19,867

Based on 1989 Classification Survey Data

** Peak Volumes

Kosciuszko Bridge - 2001

	<i>Eastbound to Queens</i>						<i>Westbound to Brooklyn</i>						2-Way Totals
	Commuter		Commercial		Totals	Commuter		Commercial		Totals			
	Autos	Buses	Vans	Trucks		Vans		Autos	Buses		Vans	Trucks	Vans
12-1am	---	---	---	---	---	2,962	---	---	---	---	---	2,239	5,201
1-2am	---	---	---	---	---	2,011	---	---	---	---	---	1,486	3,497
2-3am	---	---	---	---	---	1,469	---	---	---	---	---	1,145	2,614
3-4am	---	---	---	---	---	1,286	---	---	---	---	---	1,234	2,520
4-5am	---	---	---	---	---	1,747	---	---	---	---	---	1,760	3,507
5-6am	---	---	---	---	---	3,217	---	---	---	---	---	4,038	7,255
6-7am	---	---	---	---	---	4,917	---	---	---	---	---	5,462	10,379
7-8am	4,258	56	115	447	289	5,165	###	12	56	331	313	4,903	10,068
8-9am	4,115	19	131	457	304	5,026	###	12	32	358	313	4,501	9,527
9-10am	3,602	36	104	395	304	4,441	###	14	57	472	336	4,493	8,934
10-11am	3,734	21	103	248	195	4,301	###	7	35	244	160	4,586	8,887
11-12am	3,486	12	188	584	422	4,692	###	7	66	525	279	4,276	8,968
12-1pm	3,964	10	68	253	178	4,473	###	7	62	288	145	4,120	8,593
1-2pm	3,685	37	115	497	414	4,748	###	11	93	644	429	5,117	9,865
2-3pm	3,943	21	167	510	454	5,095	###	15	83	608	422	5,202	10,297
3-4pm	4,911	17	79	114	232	5,353	###	21	27	272	197	5,608	10,961
4-5pm	4,527	24	128	232	423	5,334	###	21	83	414	334	5,993 **	11,327 **
5-6pm	4,686	19	92	330	292	5,419 **	###	9	53	355	333	5,353	10,772
6-7pm	4,890	11	79	110	292	5,382	###	8	20	229	298	5,100	10,482
7-8pm	---	---	---	---	---	5,229	---	---	---	---	---	4,571	9,800
8-9pm	---	---	---	---	---	4,740	---	---	---	---	---	4,011	8,751
9-10pm	---	---	---	---	---	4,419	---	---	---	---	---	4,508	8,927
10-11pm	---	---	---	---	---	4,114	---	---	---	---	---	4,182	8,296
11-12pm	---	---	---	---	---	3,783	---	---	---	---	---	3,354	7,137
Totals	---	---	---	---	---	99,323	---	---	---	---	---	97,242	196,565
7-10am	#####	111	350	1,299	897	14,632	###	38	145	1,161	962	13,897	28,529
10am-1pm	#####	43	359	1,085	795	13,466	###	21	163	1,057	584	12,982	26,448
1-4pm	#####	75	361	1,121	#####	15,196	###	47	203	1,524	1,048	15,927	31,123
4-7pm	#####	54	299	672	#####	16,135	###	38	156	998	965	16,446	32,581
7am-7pm	#####	283	1,369	4,177	#####	59,429	###	144	667	4,740	3,559	59,252	118,681

Based on 1989 Classification Survey Data

** Peak Volumes

Pulaski Bridge - 2001

	Northbound to Queens						Southbound to Brooklyn						2-Way Totals
	Commuter		Commercial		Totals	Commuter		Commercial		Totals			
	Autos	Buses	Vans	Trucks		Vans		Autos	Buses		Vans	Trucks	Vans
12-1am	---	---	---	---	---	252	---	---	---	---	---	384	636
1-2am	---	---	---	---	---	204	---	---	---	---	---	245	449
2-3am	---	---	---	---	---	143	---	---	---	---	---	180	323
3-4am	---	---	---	---	---	138	---	---	---	---	---	148	286
4-5am	---	---	---	---	---	246	---	---	---	---	---	176	422
5-6am	---	---	---	---	---	593	---	---	---	---	---	326	919
6-7am	---	---	---	---	---	1,431	---	---	---	---	---	667	2,098
7-8am	1,314	28	62	201	173	1,778 **	684	14	27	190	115	1,030	2,808
8-9am	1,183	21	47	219	166	1,636	722	13	37	203	160	1,135	2,771
9-10am	762	18	48	221	155	1,204	621	17	28	202	154	1,022	2,226
10-11am	768	13	25	114	83	1,003	738	11	20	96	67	932	1,935
11-12am	561	11	45	228	159	1,004	539	15	38	215	140	947	1,951
12-1pm	749	9	19	105	80	962	776	12	16	100	62	966	1,928
1-2pm	770	20	27	121	87	1,025	803	21	30	105	57	1,016	2,041
2-3pm	674	18	39	215	161	1,107	700	15	39	309	115	1,178	2,285
3-4pm	1,000	22	17	108	82	1,229	###	21	28	117	87	1,462	2,691
4-5pm	901	10	38	115	134	1,198	###	13	54	185	155	1,740 **	2,938 **
5-6pm	933	8	42	41	109	1,133	###	11	37	121	126	1,658	2,791
6-7pm	741	13	35	61	88	938	###	11	26	74	84	1,224	2,162
7-8pm	---	---	---	---	---	731	---	---	---	---	---	768	1,499
8-9pm	---	---	---	---	---	554	---	---	---	---	---	640	1,194
9-10pm	---	---	---	---	---	474	---	---	---	---	---	556	1,030
10-11pm	---	---	---	---	---	408	---	---	---	---	---	468	876
11-12pm	---	---	---	---	---	379	---	---	---	---	---	424	803
Totals	---	---	---	---	---	19,770	---	---	---	---	---	19,292	39,062
7-10am	3,259	67	157	641	494	4,618	###	44	92	595	429	3,187	7,805
10am-1pm	2,078	33	89	447	322	2,969	###	38	74	411	269	2,845	5,814
1-4pm	2,444	60	83	444	330	3,361	###	57	97	531	259	3,656	7,017
4-7pm	2,575	31	115	217	331	3,269	###	35	117	380	365	4,622	7,891
7am-7pm	#####	191	444	1,749	#####	14,217	###	174	380	1,917	1,322	14,310	28,527

Based on 1989 Classification Survey Data

** Peak Volumes

**Hourly Vehicular Volumes
City Island Bridge - 2001**

	<i>Eastbound</i>						<i>Westbound</i>						2-Way Totals
	Commuter			Commercial			Commuter			Commercial			
	Autos	Buses	Vans	Trucks	Vans	Totals	Autos	Buses	Vans	Trucks	Vans	Totals	
12-1am	---	---	---	---	---	141	---	---	---	---	---	264	405
1-2am	---	---	---	---	---	70	---	---	---	---	---	110	180
2-3am	---	---	---	---	---	41	---	---	---	---	---	60	101
3-4am	---	---	---	---	---	20	---	---	---	---	---	35	55
4-5am	---	---	---	---	---	29	---	---	---	---	---	36	65
5-6am	---	---	---	---	---	60	---	---	---	---	---	98	158
6-7am	---	---	---	---	---	141	---	---	---	---	---	263	404
7-8am	238	9	13	6	20	286	490	11	0	20	22	543	829
8-9am	314	18	15	10	46	403	509	18	0	18	40	585	988
9-10am	258	5	5	9	32	309	356	5	0	11	22	394	703
10-11am	314	0	5	7	10	336	348	4	1	9	2	364	700
11-12am	408	7	12	8	43	478	350	6	0	2	4	362	840
12-1pm	544	3	11	4	27	589	411	10	0	5	2	428	1,017
1-2pm	544	3	2	8	26	583	479	3	0	7	23	512	1,095
2-3pm	494	11	16	23	47	591	480	12	3	26	37	558	1,149
3-4pm	631	13	7	8	15	674	613	19	0	6	13	651	1,325
4-5pm	631	3	27	13	51	725	526	3	0	10	32	571	1,296
5-6pm	762	8	15	10	28	823	507	6	0	11	21	545	1,368
6-7pm	841	6	8	13	22	890 **	542	8	0	10	13	573	1,463
7-8pm	---	---	---	---	---	860	---	---	---	---	---	610	1,470 **
8-9pm	---	---	---	---	---	763	---	---	---	---	---	678	1,441
9-10pm	---	---	---	---	---	567	---	---	---	---	---	719 **	1,286
10-11pm	---	---	---	---	---	385	---	---	---	---	---	603	988
11-12pm	---	---	---	---	---	259	---	---	---	---	---	427	686
Totals	---	---	---	---	---	10,023	---	---	---	---	---	9,989	20,012
7-10am	810	32	33	25	98	998	1,355	34	0	49	84	1,522	2,520
10am-1pm	1,266	10	28	19	80	1,403	1,109	20	1	16	8	1,154	2,557
1-4pm	1,669	27	25	39	88	1,848	1,572	34	3	39	73	1,721	3,569
4-7pm	2,234	17	50	36	101	2,438	1,575	17	0	31	66	1,689	4,127
7am-7pm	5,979	86	136	119	367	6,687	5,611	105	4	135	231	6,086	12,773

Based on 1989 Classification Survey Data

** Peak Volumes

East 174th Street Bridge - 2001

	Eastbound						Westbound						2-Way Totals
	Commuter			Commercial			Commuter			Commercial			
	Autos	Buses	Vans	Trucks	Vans	Totals	Autos	Buses	Vans	Trucks	Vans	Totals	
12-1am	---	---	---	---	---	80	---	---	---	---	---	91	171
1-2am	---	---	---	---	---	49	---	---	---	---	---	47	96
2-3am	---	---	---	---	---	30	---	---	---	---	---	26	56
3-4am	---	---	---	---	---	31	---	---	---	---	---	24	55
4-5am	---	---	---	---	---	23	---	---	---	---	---	20	43
5-6am	---	---	---	---	---	66	---	---	---	---	---	58	124
6-7am	---	---	---	---	---	172	---	---	---	---	---	195	367
7-8am	230	21	7	10	11	279	462	24	17	6	30	539	818
8-9am	279	42	9	27	11	368	555	29	25	12	39	660 **	1,028 **
9-10am	229	22	9	14	16	290	313	14	10	8	29	374	664
10-11am	210	12	4	10	7	243	217	18	3	3	1	242	485
11-12am	209	18	18	27	22	294	188	8	3	16	19	234	528
12-1pm	271	9	9	13	12	314	238	13	3	5	6	265	579
1-2pm	258	7	8	8	10	291	272	12	5	4	8	301	592
2-3pm	331	28	21	32	19	431	321	31	12	16	27	407	838
3-4pm	459	31	11	12	12	525	370	31	7	1	20	429	954
4-5pm	440	12	21	26	22	521	414	16	13	13	26	482	1,003
5-6pm	479	13	13	19	18	542 **	363	14	10	1	18	406	948
6-7pm	357	16	5	9	14	401	308	10	10	2	11	341	742
7-8pm	---	---	---	---	---	303	---	---	---	---	---	261	564
8-9pm	---	---	---	---	---	257	---	---	---	---	---	217	474
9-10pm	---	---	---	---	---	223	---	---	---	---	---	186	409
10-11pm	---	---	---	---	---	184	---	---	---	---	---	157	341
11-12pm	---	---	---	---	---	110	---	---	---	---	---	104	214
Totals	---	---	---	---	---	6,027	---	---	---	---	---	6,066	12,093
7-10am	738	85	25	51	38	937	1,330	67	52	26	98	1,573	2,510
10am-1pm	690	39	31	50	41	851	643	39	9	24	26	741	1,592
1-4pm	1,048	66	40	52	41	1,247	963	74	24	21	55	1,137	2,384
4-7pm	1,276	41	39	54	54	1,464	1,085	40	33	16	55	1,229	2,693
7am-7pm	3,752	231	135	207	174	4,499	4,021	220	118	87	234	4,680	9,179

Based on 1989 Classification Survey Data

** Peak Volumes

Eastchester Bridge - 2001

	Northbound						Southbound						2-Way Totals
	Commuter			Commercial			Commuter			Commercial			
	Autos	Buses	Vans	Trucks	Vans	Totals	Autos	Buses	Vans	Trucks	Vans	Totals	
12-1am	---	---	---	---	---	97	---	---	---	---	---	145	242
1-2am	---	---	---	---	---	63	---	---	---	---	---	82	145
2-3am	---	---	---	---	---	41	---	---	---	---	---	50	91
3-4am	---	---	---	---	---	46	---	---	---	---	---	51	97
4-5am	---	---	---	---	---	52	---	---	---	---	---	66	118
5-6am	---	---	---	---	---	128	---	---	---	---	---	188	316
6-7am	---	---	---	---	---	322	---	---	---	---	---	407	729
7-8am	533	17	0	31	23	604	601	11	11	83	24	730	1,334
8-9am	487	12	0	43	34	576	557	14	17	91	30	709	1,285
9-10am	441	15	0	36	30	522	437	21	22	135	48	663	1,185
10-11am	517	7	0	23	19	566	530	8	15	39	20	612	1,178
11-12am	528	5	0	33	38	604	489	8	17	84	38	636	1,240
12-1pm	641	8	0	12	22	683	670	8	6	32	19	735	1,418
1-2pm	605	7	0	12	17	641	689	8	5	41	13	756	1,397
2-3pm	736	17	0	39	25	817 **	584	11	14	108	28	745	1,562
3-4pm	754	14	0	21	20	809	752	17	10	47	12	838	1,647 **
4-5pm	687	9	0	23	35	754	769	9	16	43	21	858 **	1,612
5-6pm	689	8	0	24	36	757	763	9	13	39	29	853	1,610
6-7pm	670	12	0	13	14	709	697	17	9	34	9	766	1,475
7-8pm	---	---	---	---	---	595	---	---	---	---	---	661	1,256
8-9pm	---	---	---	---	---	453	---	---	---	---	---	552	1,005
9-10pm	---	---	---	---	---	356	---	---	---	---	---	476	832
10-11pm	---	---	---	---	---	261	---	---	---	---	---	348	609
11-12pm	---	---	---	---	---	183	---	---	---	---	---	244	427
Totals	---	---	---	---	---	10,639	---	---	---	---	---	12,171	22,810
7-10am	1,461	44	0	110	87	1,702	1,595	46	50	309	102	2,102	3,804
10am-1pm	1,686	20	0	68	79	1,853	1,689	24	38	155	77	1,983	3,836
1-4pm	2,095	38	0	72	62	2,267	2,025	36	29	196	53	2,339	4,606
4-7pm	2,046	29	0	60	85	2,220	2,229	35	38	116	59	2,477	4,697
7am-7pm	7,288	131	0	310	313	8,042	7,538	141	155	776	291	8,901	16,943

Based on 1989 Classification Survey Data

** Peak Volumes

Eastern Boulevard Bridge - 2001

	<i>Eastbound</i>						<i>Westbound</i>						<i>2-Way Totals</i>
	Commuter			Commercial			Commuter			Commercial			
	Autos	Buses	Vans	Trucks	Vans	Totals	Autos	Buses	Vans	Trucks	Vans	Totals	
12-1am	---	---	---	---	---	2,165	---	---	---	---	---	1,403	3,568
1-2am	---	---	---	---	---	1,290	---	---	---	---	---	902	2,192
2-3am	---	---	---	---	---	857	---	---	---	---	---	667	1,524
3-4am	---	---	---	---	---	655	---	---	---	---	---	635	1,290
4-5am	---	---	---	---	---	696	---	---	---	---	---	957	1,653
5-6am	---	---	---	---	---	1,071	---	---	---	---	---	2,188	3,259
6-7am	---	---	---	---	---	2,190	---	---	---	---	---	4,931	7,121
7-8am	3,036	46	57	341	111	3,591	5,493	100	119	353	260	6,325	** 9,916
8-9am	3,315	96	89	470	199	4,169	5,353	76	143	456	293	6,321	10,490
9-10am	2,878	90	103	481	187	3,739	4,574	47	85	333	242	5,281	9,020
10-11am	3,108	22	46	255	97	3,528	3,957	34	51	156	93	4,291	7,819
11-12am	2,983	15	136	399	241	3,774	3,699	25	103	286	201	4,314	8,088
12-1pm	3,627	20	65	199	115	4,026	3,953	26	32	166	95	4,272	8,298
1-2pm	4,087	27	1	144	82	4,341	4,028	53	55	164	58	4,358	8,699
2-3pm	4,400	39	0	247	182	4,868	3,949	108	86	327	126	4,596	9,464
3-4pm	5,619	40	0	150	94	5,903	4,524	65	41	176	50	4,856	10,759
4-5pm	5,848	38	0	308	194	6,388	4,260	103	122	283	166	4,934	11,322 **
5-6pm	6,078	62	0	96	176	6,412 **	4,421	34	134	170	85	4,844	11,256
6-7pm	5,671	46	0	157	152	6,026	4,269	37	77	86	60	4,529	10,555
7-8pm	---	---	---	---	---	4,864	---	---	---	---	---	3,835	8,699
8-9pm	---	---	---	---	---	4,046	---	---	---	---	---	3,127	7,173
9-10pm	---	---	---	---	---	3,534	---	---	---	---	---	2,921	6,455
10-11pm	---	---	---	---	---	3,227	---	---	---	---	---	2,684	5,911
11-12pm	---	---	---	---	---	2,676	---	---	---	---	---	2,230	4,906
Totals	---	---	---	---	---	84,036	---	---	---	---	---	85,401	169,437
7-10am	9,229	232	249	1,292	497	11,499	#####	223	347	1,142	795	17,927	29,426
10am-1pm	9,718	57	247	853	453	11,328	#####	85	186	608	389	12,877	24,205
1-4pm	14,106	106	1	541	358	15,112	#####	226	182	667	234	13,810	28,922
4-7pm	17,597	146	0	561	522	18,826	#####	174	333	539	311	14,307	33,133
7am-7pm	50,650	541	497	3,247	1,830	56,765	#####	708	1,048	2,956	1,729	58,921	115,686

Based on 1989 Classification Survey Data

** Peak Volumes

Hutchinson River Parkway Bridge - 2001

	Northbound						Southbound						2-Way Totals
	Commuter			Commercial			Commuter			Commercial			
	Autos	Buses	Vans	Trucks	Vans	Totals	Autos	Buses	Vans	Trucks	Vans	Totals	
12-1am	---	---	---	---	---	822	---	---	---	---	---	636	1,458
1-2am	---	---	---	---	---	398	---	---	---	---	---	341	739
2-3am	---	---	---	---	---	227	---	---	---	---	---	205	432
3-4am	---	---	---	---	---	176	---	---	---	---	---	191	367
4-5am	---	---	---	---	---	261	---	---	---	---	---	342	603
5-6am	---	---	---	---	---	721	---	---	---	---	---	923	1,644
6-7am	---	---	---	---	---	2,222	---	---	---	---	---	2,366	4,588
7-8am	3,986	4	102	149	74	4,315	3,623	1	18	9	99	3,750	8,065
8-9am	4,239	7	75	146	58	4,525 **	3,915	2	6	7	78	4,008 **	8,533 **
9-10am	3,138	1	88	111	70	3,408	2,988	7	13	12	88	3,108	6,516
10-11am	2,463	3	34	57	31	2,588	2,616	3	6	6	27	2,658	5,246
11-12am	2,130	0	97	93	60	2,380	2,264	0	8	9	107	2,388	4,768
12-1pm	2,256	0	28	47	22	2,353	2,336	0	3	3	33	2,375	4,728
1-2pm	2,253	5	41	57	27	2,383	2,403	5	6	0	52	2,466	4,849
2-3pm	2,599	4	102	145	56	2,906	2,769	5	12	5	96	2,887	5,793
3-4pm	3,560	3	54	69	33	3,719	3,304	10	3	3	62	3,382	7,101
4-5pm	3,364	1	79	211	74	3,729	3,760	0	16	0	69	3,845	7,574
5-6pm	3,444	1	77	128	57	3,707	3,826	0	10	8	86	3,930	7,637
6-7pm	3,410	0	70	98	58	3,636	3,675	0	15	2	77	3,769	7,405
7-8pm	---	---	---	---	---	3,067	---	---	---	---	---	2,968	6,035
8-9pm	---	---	---	---	---	2,369	---	---	---	---	---	2,247	4,616
9-10pm	---	---	---	---	---	1,983	---	---	---	---	---	1,820	3,803
10-11pm	---	---	---	---	---	1,730	---	---	---	---	---	1,537	3,267
11-12pm	---	---	---	---	---	1,331	---	---	---	---	---	1,093	2,424
Totals	---	---	---	---	---	54,956	---	---	---	---	---	53,235	108,191
7-10am	11,363	12	265	406	202	12,248	#####	10	37	28	265	10,866	23,114
10am-1pm	6,849	3	159	197	113	7,321	7,216	3	17	18	167	7,421	14,742
1-4pm	8,412	12	197	271	116	9,008	8,476	20	21	8	210	8,735	17,743
4-7pm	10,218	2	226	437	189	11,072	#####	0	41	10	232	11,544	22,616
7am-7pm	36,842	29	847	1,311	620	39,649	#####	33	116	64	874	38,566	78,215

Based on 1989 Classification Survey Data

** Peak Volumes

Pelham Bridge - 2001

	Northbound						Southbound						2-Way Totals
	Commuter			Commercial			Commuter			Commercial			
	Autos	Buses	Vans	Trucks	Vans	Totals	Autos	Buses	Vans	Trucks	Vans	Totals	
12-1am	---	---	---	---	---	140	---	---	---	---	---	245	385
1-2am	---	---	---	---	---	76	---	---	---	---	---	99	175
2-3am	---	---	---	---	---	42	---	---	---	---	---	66	108
3-4am	---	---	---	---	---	22	---	---	---	---	---	37	59
4-5am	---	---	---	---	---	44	---	---	---	---	---	42	86
5-6am	---	---	---	---	---	104	---	---	---	---	---	113	217
6-7am	---	---	---	---	---	316	---	---	---	---	---	293	609
7-8am	380	17	14	27	19	457	480	16	12	22	21	551	1,008
8-9am	422	19	6	37	33	517	502	20	16	45	43	626	1,143
9-10am	386	8	3	28	33	458	336	6	8	35	21	406	864
10-11am	329	2	3	30	23	387	314	7	10	10	23	364	751
11-12am	455	6	7	27	38	533	318	5	12	62	27	424	957
12-1pm	606	14	3	7	21	651	462	13	3	12	7	497	1,148
1-2pm	601	9	0	17	11	638	591	11	9	22	14	647	1,285
2-3pm	580	23	9	34	37	683	615	16	8	37	24	700	1,383
3-4pm	739	17	1	18	28	803	733	30	7	23	14	807	1,610
4-5pm	739	7	6	18	41	811	674	9	3	22	19	727	1,538
5-6pm	767	11	4	24	40	846	641	17	18	15	35	726	1,572
6-7pm	837	12	4	6	34	893 **	670	11	16	23	16	736	1,629
7-8pm	---	---	---	---	---	865	---	---	---	---	---	781	1,646 **
8-9pm	---	---	---	---	---	658	---	---	---	---	---	802	1,460
9-10pm	---	---	---	---	---	526	---	---	---	---	---	836 **	1,362
10-11pm	---	---	---	---	---	361	---	---	---	---	---	603	964
11-12pm	---	---	---	---	---	263	---	---	---	---	---	472	735
Totals	---	---	---	---	---	11,094	---	---	---	---	---	11,600	22,694
7-10am	1,188	44	23	92	85	1,432	1,318	42	36	102	85	1,583	3,015
10am-1pm	1,390	22	13	64	82	1,571	1,094	25	25	84	57	1,285	2,856
1-4pm	1,920	49	10	69	76	2,124	1,939	57	24	82	52	2,154	4,278
4-7pm	2,343	30	14	48	115	2,550	1,985	37	37	60	70	2,189	4,739
7am-7pm	6,841	145	60	273	358	7,677	6,336	161	122	328	264	7,211	14,888

Based on 1989 Classification Survey Data

** Peak Volumes

Unionport Bridge - 2001

	Eastbound						Westbound						2-Way Totals
	Commuter			Commercial			Commuter			Commercial			
	Autos	Buses	Vans	Trucks	Vans	Totals	Autos	Buses	Vans	Trucks	Vans	Totals	
12-1am	---	---	---	---	---	330	---	---	---	---	---	370	700
1-2am	---	---	---	---	---	179	---	---	---	---	---	222	401
2-3am	---	---	---	---	---	137	---	---	---	---	---	157	294
3-4am	---	---	---	---	---	131	---	---	---	---	---	131	262
4-5am	---	---	---	---	---	165	---	---	---	---	---	190	355
5-6am	---	---	---	---	---	361	---	---	---	---	---	587	948
6-7am	---	---	---	---	---	916	---	---	---	---	---	1,283	2,199
7-8am	1,493	39	22	125	41	1,720	1,620	31	2	34	48	1,735	3,455
8-9am	1,404	34	44	120	63	1,665	1,656	21	0	57	41	1,775	3,440
9-10am	994	27	49	105	65	1,240	1,227	16	0	36	47	1,326	2,566
10-11am	1,067	16	17	69	40	1,209	1,181	16	0	14	43	1,254	2,463
11-12am	988	13	51	139	68	1,259	1,133	14	0	73	88	1,308	2,567
12-1pm	1,158	12	25	73	34	1,302	1,297	9	0	30	26	1,362	2,664
1-2pm	1,207	10	40	144	78	1,479	1,269	19	1	92	92	1,473	2,952
2-3pm	1,492	16	45	135	55	1,743	1,372	22	0	82	85	1,561	3,304
3-4pm	1,924	15	18	64	38	2,059 **	1,734	43	0	42	62	1,881 **	3,940 **
4-5pm	1,752	18	36	140	68	2,014	1,497	24	0	56	112	1,689	3,703
5-6pm	1,686	21	43	123	36	1,909	1,670	26	0	58	70	1,824	3,733
6-7pm	1,433	28	39	85	30	1,615	1,542	17	0	29	49	1,637	3,252
7-8pm	---	---	---	---	---	1,311	---	---	---	---	---	1,289	2,600
8-9pm	---	---	---	---	---	1,051	---	---	---	---	---	1,077	2,128
9-10pm	---	---	---	---	---	879	---	---	---	---	---	975	1,854
10-11pm	---	---	---	---	---	725	---	---	---	---	---	775	1,500
11-12pm	---	---	---	---	---	512	---	---	---	---	---	626	1,138
Totals	---	---	---	---	---	25,911	---	---	---	---	---	26,507	52,418
7-10am	3,891	100	115	350	169	4,625	4,503	68	2	127	136	4,836	9,461
10am-1pm	3,213	41	93	281	142	3,770	3,611	39	0	117	157	3,924	7,694
1-4pm	4,623	41	103	343	171	5,281	4,375	84	1	216	239	4,915	10,196
4-7pm	4,871	67	118	348	134	5,538	4,709	67	0	143	231	5,150	10,688
7am-7pm	16,598	249	429	1,322	616	19,214	#####	258	3	603	763	18,825	38,039

Based on 1989 Classification Survey Data

** Peak Volumes

Westchester Avenue Bridge - 2001

	Eastbound						Westbound						2-Way Totals
	Commuter			Commercial			Commuter			Commercial			
	Autos	Buses	Vans	Trucks	Vans	Totals	Autos	Buses	Vans	Trucks	Vans	Totals	
12-1am	---	---	---	---	---	308	---	---	---	---	---	188	496
1-2am	---	---	---	---	---	192	---	---	---	---	---	113	305
2-3am	---	---	---	---	---	126	---	---	---	---	---	83	209
3-4am	---	---	---	---	---	87	---	---	---	---	---	62	149
4-5am	---	---	---	---	---	110	---	---	---	---	---	67	177
5-6am	---	---	---	---	---	183	---	---	---	---	---	169	352
6-7am	---	---	---	---	---	445	---	---	---	---	---	491	936
7-8am	606	37	18	27	23	711	1,140	52	1	31	82	1,306 **	2,017
8-9am	853	72	11	34	33	1,003	1,127	60	1	45	65	1,298	2,301
9-10am	734	37	16	16	22	825	610	16	0	28	59	713	1,538
10-11am	722	38	5	12	17	794	601	19	0	14	10	644	1,438
11-12am	730	33	9	41	50	863	558	19	0	44	67	688	1,551
12-1pm	874	27	2	10	18	931	614	23	0	29	29	695	1,626
1-2pm	861	52	10	20	20	963	664	24	0	13	30	731	1,694
2-3pm	912	67	8	40	59	1,086	688	35	0	24	52	799	1,885
3-4pm	1,202	92	2	20	15	1,331	808	29	0	16	20	873	2,204
4-5pm	1,228	50	29	28	25	1,360	780	36	0	25	48	889	2,249
5-6pm	1,339	30	17	29	46	1,461 **	777	22	0	23	81	903	2,364 **
6-7pm	1,127	37	3	11	50	1,228	732	11	0	3	76	822	2,050
7-8pm	---	---	---	---	---	1,047	---	---	---	---	---	722	1,769
8-9pm	---	---	---	---	---	871	---	---	---	---	---	552	1,423
9-10pm	---	---	---	---	---	700	---	---	---	---	---	446	1,146
10-11pm	---	---	---	---	---	577	---	---	---	---	---	383	960
11-12pm	---	---	---	---	---	437	---	---	---	---	---	308	745
Totals	---	---	---	---	---	17,639	---	---	---	---	---	13,945	31,584
7-10am	2,193	146	45	77	78	2,539	2,877	128	2	104	206	3,317	5,856
10am-1pm	2,326	98	16	63	85	2,588	1,773	61	0	87	106	2,027	4,615
1-4pm	2,975	211	20	80	94	3,380	2,160	88	0	53	102	2,403	5,783
4-7pm	3,694	117	49	68	121	4,049	2,289	69	0	51	205	2,614	6,663
7am-7pm	11,188	572	130	288	378	12,556	9,099	346	2	295	619	10,361	22,917

Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Carroll Street Bridge - 2001

	<i>Eastbound</i>						<i>Westbound</i>						Grand Totals
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	11							11
1-2am	---	---	---	---	---	6							6
2-3am	---	---	---	---	---	4							4
3-4am	---	---	---	---	---	3							3
4-5am	---	---	---	---	---	5							5
5-6am	---	---	---	---	---	10							10
6-7am	---	---	---	---	---	21							21
7-8am	25	0	12	17	12	66							66
8-9am	28	3	9	28	25	93							93
9-10am	22	0	7	23	9	61							61
10-11am	32	0	0	19	14	65							65
11-12am	24	0	7	19	17	67							67
12-1pm	18	0	17	26	29	90							90
1-2pm	21	0	11	12	28	72							72
2-3pm	2	0	18	42	22	84							84
3-4pm	85	0	2	9	7	103							103
4-5pm	97	0	4	10	16	127 **							127 **
5-6pm	99	0	9	6	9	123							123
6-7pm	71	0	5	2	5	83							83
7-8pm	---	---	---	---	---	62							62
8-9pm	---	---	---	---	---	49							49
9-10pm	---	---	---	---	---	31							31
10-11pm	---	---	---	---	---	24							24
11-12pm	---	---	---	---	---	20							20
Totals	---	---	---	---	---	1,280	---	---	---	---	---	---	1,280
7-10am	75	3	28	68	46	220	---	---	---	---	---	---	220
10am-1pm	74	0	24	64	60	222	---	---	---	---	---	---	222
1-4pm	108	0	31	63	57	259	---	---	---	---	---	---	259
4-7pm	267	0	18	18	30	333	---	---	---	---	---	---	333
7am-7pm	524	3	101	213	193	1,034	---	---	---	---	---	---	1,034

Bridge is 1-way eastbound

Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Cropsey Avenue Bridge - 2001

	Northbound						Southbound						2-Way Totals
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	204	---	---	---	---	---	245	449
1-2am	---	---	---	---	---	127	---	---	---	---	---	156	283
2-3am	---	---	---	---	---	112	---	---	---	---	---	110	222
3-4am	---	---	---	---	---	101	---	---	---	---	---	73	174
4-5am	---	---	---	---	---	132	---	---	---	---	---	100	232
5-6am	---	---	---	---	---	352	---	---	---	---	---	377	729
6-7am	---	---	---	---	---	820	---	---	---	---	---	771	1,591
7-8am	895	79	2	47	88	1,111	831	89	0	49	34	1,003	2,114
8-9am	913	60	3	56	62	1,094	1,006	81	2	55	39	1,183	2,277 **
9-10am	665	44	1	44	79	833	707	85	3	50	69	914	1,747
10-11am	707	40	0	25	35	807	631	21	0	28	32	712	1,519
11-12am	732	25	0	67	60	884	641	24	1	67	72	805	1,689
12-1pm	813	44	0	30	39	926	813	28	0	25	21	887	1,813
1-2pm	881	66	0	33	46	1,026	827	32	1	21	36	917	1,943
2-3pm	928	90	3	71	84	1,176	876	50	0	59	73	1,058	2,234
3-4pm	1,039	98	1	34	43	1,215 **	887	70	2	23	49	1,031	2,246
4-5pm	977	44	0	59	73	1,153	924	52	0	25	87	1,088	2,241
5-6pm	911	12	0	58	69	1,050	857	18	8	40	89	1,012	2,062
6-7pm	777	20	0	32	42	871	925	7	0	15	67	1,014	1,885
7-8pm	---	---	---	---	---	786	---	---	---	---	---	937	1,723
8-9pm	---	---	---	---	---	651	---	---	---	---	---	809	1,460
9-10pm	---	---	---	---	---	571	---	---	---	---	---	693	1,264
10-11pm	---	---	---	---	---	520	---	---	---	---	---	499	1,019
11-12pm	---	---	---	---	---	417	---	---	---	---	---	392	809
Totals	---	---	---	---	---	#####	---	---	---	---	---	16,786	33,725
7-10am	2,473	183	6	147	229	3,038	2,544	255	5	154	142	3,100	6,138
10am-1pm	2,252	109	0	122	134	2,617	2,085	73	1	120	125	2,404	5,021
1-4pm	2,848	254	4	138	173	3,417	2,590	152	3	103	158	3,006	6,423
4-7pm	2,665	76	0	149	184	3,074	2,706	77	8	80	243	3,114	6,188
7am-7pm	10,238	622	10	556	720	#####	9,925	557	17	457	668	11,624	23,770

Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Hamilton Avenue Bridge - 2001

	Northbound						Southbound						2-Way Totals
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	344	---	---	---	---	---	286	630
1-2am	---	---	---	---	---	248	---	---	---	---	---	291	539
2-3am	---	---	---	---	---	188	---	---	---	---	---	191	379
3-4am	---	---	---	---	---	190	---	---	---	---	---	150	340
4-5am	---	---	---	---	---	271	---	---	---	---	---	221	492
5-6am	---	---	---	---	---	1,309	---	---	---	---	---	454	1,763
6-7am	---	---	---	---	---	3,349	---	---	---	---	---	1,050	4,399
7-8am	2,806	40	51	259	306	3,462 **	475	49	200	410	207	1,341	4,803 **
8-9am	2,483	14	46	277	331	3,151	792	46	76	316	179	1,409	4,560
9-10am	2,155	31	38	288	287	2,799	532	50	92	447	181	1,302	4,101
10-11am	1,915	15	18	148	139	2,235	1,058	39	62	224	125	1,508	3,743
11-12am	1,505	17	21	211	206	1,960	441	18	103	266	194	1,022	2,982
12-1pm	1,654	9	9	85	75	1,832	835	6	54	120	82	1,097	2,929
1-2pm	1,700	27	10	128	84	1,949	778	12	44	147	94	1,075	3,024
2-3pm	1,551	55	22	241	223	2,092	490	13	113	290	253	1,159	3,251
3-4pm	1,654	63	9	120	105	1,951	1,279	17	74	120	102	1,592	3,543
4-5pm	1,362	45	12	141	150	1,710	1,716	16	176	227	233	2,368	4,078
5-6pm	1,271	13	12	134	110	1,540	1,997	11	127	136	228	2,499 **	4,039
6-7pm	1,115	5	11	60	105	1,296	1,842	12	130	100	142	2,226	3,522
7-8pm	---	---	---	---	---	1,154	---	---	---	---	---	1,380	2,534
8-9pm	---	---	---	---	---	923	---	---	---	---	---	903	1,826
9-10pm	---	---	---	---	---	754	---	---	---	---	---	601	1,355
10-11pm	---	---	---	---	---	628	---	---	---	---	---	499	1,127
11-12pm	---	---	---	---	---	466	---	---	---	---	---	383	849
Totals	---	---	---	---	---	#####	---	---	---	---	---	25,007	60,808
7-10am	7,444	85	135	824	924	9,412	1,799	145	368	1,173	567	4,052	13,464
10am-1pm	5,074	41	48	444	420	6,027	2,334	63	219	610	401	3,627	9,654
1-4pm	4,905	145	41	489	412	5,992	2,547	42	231	557	449	3,826	9,818
4-7pm	3,748	63	35	335	365	4,546	5,555	39	433	463	603	7,093	11,639
7am-7pm	21,171	334	259	2,092	2,121	#####	#####	289	####	2,803	2,020	18,598	44,575

Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Metropolitan Avenue Bridge - 2001

	<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	---	---	---	---	---	384	---	---	---	---	---	265	649
1-2am	---	---	---	---	---	305	---	---	---	---	---	223	528
2-3am	---	---	---	---	---	220	---	---	---	---	---	189	409
3-4am	---	---	---	---	---	204	---	---	---	---	---	206	410
4-5am	---	---	---	---	---	228	---	---	---	---	---	302	530
5-6am	---	---	---	---	---	389	---	---	---	---	---	526	915
6-7am	---	---	---	---	---	649	---	---	---	---	---	1,295	1,944
7-8am	582	15	15	125	40	777	1,319	38	73	252	101	1,783	** 2,560
8-9am	561	17	23	181	90	872	1,212	19	56	309	130	1,726	2,598
9-10am	433	37	22	248	99	839	804	38	43	327	116	1,328	2,167
10-11am	730	8	11	102	39	890	971	21	29	112	38	1,171	2,061
11-12am	563	16	27	268	82	956	664	18	48	245	84	1,059	2,015
12-1pm	823	16	19	108	34	1,000	842	16	26	113	38	1,035	2,035
1-2pm	838	29	9	105	52	1,033	892	24	23	93	41	1,073	2,106
2-3pm	777	14	31	203	96	1,121	747	18	32	200	90	1,087	2,208
3-4pm	1,126	15	29	118	54	1,342	924	22	18	108	53	1,125	2,467
4-5pm	1,182	39	65	181	133	1,600	893	15	30	156	75	1,169	2,769
5-6pm	1,271	15	79	173	136	1,674	** 902	11	59	99	83	1,154	** 2,828
6-7pm	1,152	13	63	128	96	1,452	782	13	44	51	46	936	2,388
7-8pm	---	---	---	---	---	1,142	---	---	---	---	---	776	1,918
8-9pm	---	---	---	---	---	879	---	---	---	---	---	606	1,485
9-10pm	---	---	---	---	---	656	---	---	---	---	---	533	1,189
10-11pm	---	---	---	---	---	501	---	---	---	---	---	466	967
11-12pm	---	---	---	---	---	426	---	---	---	---	---	358	784
Totals	---	---	---	---	---	#####	---	---	---	---	---	20,391	39,930
7-10am	1,576	69	60	554	229	2,488	3,335	95	172	888	347	4,837	7,325
10am-1pm	2,116	40	57	478	155	2,846	2,477	55	103	470	160	3,265	6,111
1-4pm	2,741	58	69	426	202	3,496	2,563	64	73	401	184	3,285	6,781
4-7pm	3,605	67	207	482	365	4,726	2,577	39	133	306	204	3,259	7,985
7am-7pm	10,038	234	393	1,940	951	#####	#####	253	481	2,065	895	14,646	28,202

Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Mill Basin Bridge - 2001

	<i>Eastbound</i>						<i>Westbound</i>						2-Way Totals
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	
12-1am	---	---	---	---	---	1,438	---	---	---	---	---	1,193	2,631
1-2am	---	---	---	---	---	836	---	---	---	---	---	655	1,491
2-3am	---	---	---	---	---	421	---	---	---	---	---	403	824
3-4am	---	---	---	---	---	378	---	---	---	---	---	327	705
4-5am	---	---	---	---	---	583	---	---	---	---	---	502	1,085
5-6am	---	---	---	---	---	1,737	---	---	---	---	---	1,704	3,441
6-7am	---	---	---	---	---	4,210	---	---	---	---	---	4,067	8,277
7-8am	4,500	63	23	5	244	4,835 **	4,554	21	0	142	173	4,890	9,725 **
8-9am	4,395	18	16	17	201	4,647	4,120	53	0	120	210	4,503	9,150
9-10am	3,769	10	18	25	269	4,091	3,827	75	1	116	197	4,216	8,307
10-11am	3,187	8	11	13	87	3,306	3,719	19	0	40	68	3,846	7,152
11-12am	2,899	4	64	30	282	3,279	3,118	0	5	165	164	3,452	6,731
12-1pm	3,263	4	20	15	114	3,416	3,160	0	0	74	121	3,355	6,771
1-2pm	3,535	97	15	12	117	3,776	3,337	10	0	37	77	3,461	7,237
2-3pm	3,942	41	27	16	322	4,348	3,768	7	0	115	176	4,066	8,414
3-4pm	4,411	26	17	6	159	4,619	4,368	78	0	85	120	4,651	9,270
4-5pm	4,011	13	38	7	240	4,309	4,079	40	2	127	193	4,441	8,750
5-6pm	4,085	6	18	14	198	4,321	4,634	35	3	149	185	5,006 **	9,327
6-7pm	3,753	4	15	5	192	3,969	4,295	3	1	114	166	4,579	8,548
7-8pm	---	---	---	---	---	3,452	---	---	---	---	---	4,121	7,573
8-9pm	---	---	---	---	---	3,291	---	---	---	---	---	3,414	6,705
9-10pm	---	---	---	---	---	3,015	---	---	---	---	---	2,991	6,006
10-11pm	---	---	---	---	---	2,368	---	---	---	---	---	2,539	4,907
11-12pm	---	---	---	---	---	1,613	---	---	---	---	---	1,962	3,575
Totals	---	---	---	---	---	#####	---	---	---	---	---	74,344	146,602
7-10am	12,664	91	57	47	714	#####	#####	149	1	378	580	13,609	27,182
10am-1pm	9,349	16	95	58	483	#####	9,997	19	5	279	353	10,653	20,654
1-4pm	11,888	164	59	34	598	#####	#####	95	0	237	373	12,178	24,921
4-7pm	11,849	23	71	26	630	#####	#####	78	6	390	544	14,026	26,625
7am-7pm	45,750	294	282	165	2,425	#####	#####	341	12	1,284	1,850	50,466	99,382

Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Ninth Street Bridge - 2001

	<i>Eastbound</i>						<i>Westbound</i>						2-Way Totals
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	
12-1am	---	---	---	---	---	55	---	---	---	---	---	84	139
1-2am	---	---	---	---	---	38	---	---	---	---	---	59	97
2-3am	---	---	---	---	---	27	---	---	---	---	---	41	68
3-4am	---	---	---	---	---	19	---	---	---	---	---	30	49
4-5am	---	---	---	---	---	22	---	---	---	---	---	49	71
5-6am	---	---	---	---	---	35	---	---	---	---	---	111	146
6-7am	---	---	---	---	---	80	---	---	---	---	---	215	295
7-8am	102	14	4	12	8	140	269	7	0	31	26	333	473
8-9am	104	15	6	32	10	167	307	3	0	32	25	367	534 **
9-10am	101	12	3	30	14	160	295	7	0	30	19	351	511
10-11am	119	11	2	13	7	152	294	7	0	13	11	325	477
11-12am	116	10	7	32	7	172	196	21	0	65	30	312	484
12-1pm	130	8	7	16	7	168	215	23	0	60	29	327	495
1-2pm	78	9	10	53	10	160	230	6	30	19	19	304	464
2-3pm	101	11	8	33	13	166	240	13	11	26	19	309	475
3-4pm	143	9	2	14	10	178	262	15	0	23	13	313	491
4-5pm	147	8	4	21	14	194	220	10	0	34	22	286	480
5-6pm	153	13	1	23	9	199 **	248	17	0	17	12	294	493
6-7pm	116	11	1	30	12	170	210	7	0	9	6	232	402
7-8pm	---	---	---	---	---	139	---	---	---	---	---	199	338
8-9pm	---	---	---	---	---	122	---	---	---	---	---	163	285
9-10pm	---	---	---	---	---	94	---	---	---	---	---	133	227
10-11pm	---	---	---	---	---	77	---	---	---	---	---	128	205
11-12pm	---	---	---	---	---	74	---	---	---	---	---	125	199
Totals	---	---	---	---	---	2,808	---	---	---	---	---	5,090	7,898
7-10am	307	41	13	74	32	467	871	17	0	93	70	1,051	1,518
10am-1pm	365	29	16	61	21	492	705	51	0	138	70	964	1,456
1-4pm	322	29	20	100	33	504	732	34	41	68	51	926	1,430
4-7pm	416	32	6	74	35	563	678	34	0	60	40	812	1,375
7am-7pm	1,410	131	55	309	121	2,026	2,986	136	41	359	231	3,753	5,779

Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Stillwell Avenue Bridge - 2001

	<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	---	---	---	---	---	53	---	---	---	---	---	55	108
1-2am	---	---	---	---	---	40	---	---	---	---	---	33	73
2-3am	---	---	---	---	---	23	---	---	---	---	---	20	43
3-4am	---	---	---	---	---	16	---	---	---	---	---	22	38
4-5am	---	---	---	---	---	19	---	---	---	---	---	24	43
5-6am	---	---	---	---	---	45	---	---	---	---	---	66	111
6-7am	---	---	---	---	---	117	---	---	---	---	---	171	288
7-8am	220	21	0	36	0	277	222	49	0	16	0	287	564
8-9am	229	31	0	42	0	302	277	36	0	21	0	334	636
9-10am	197	31	0	36	0	264	181	17	0	80	0	278	542
10-11am	172	27	0	43	0	242	205	22	0	57	0	284	526
11-12am	186	10	0	51	0	247	237	15	0	44	0	296	543
12-1pm	201	13	0	73	0	287	241	17	0	42	0	300	587
1-2pm	210	23	0	78	0	311	232	20	0	67	0	319	630
2-3pm	245	29	0	68	0	342	205	24	0	86	0	315	657
3-4pm	283	38	0	44	0	365 **	288	19	0	47	0	354 **	719 **
4-5pm	270	36	0	43	0	349	257	19	0	41	0	317	666
5-6pm	302	24	0	21	0	347	267	16	0	29	0	312	659
6-7pm	226	24	0	11	0	261	223	21	0	10	0	254	515
7-8pm	---	---	---	---	---	193	---	---	---	---	---	192	385
8-9pm	---	---	---	---	---	147	---	---	---	---	---	159	306
9-10pm	---	---	---	---	---	136	---	---	---	---	---	135	271
10-11pm	---	---	---	---	---	81	---	---	---	---	---	98	179
11-12pm	---	---	---	---	---	79	---	---	---	---	---	78	157
Totals	---	---	---	---	---	4,543	---	---	---	---	---	4,703	9,246
7-10am	646	83	0	114	0	843	680	102	0	117	0	899	1,742
10am-1pm	559	50	0	167	0	776	683	54	0	143	0	880	1,656
1-4pm	738	90	0	190	0	1,018	725	63	0	200	0	988	2,006
4-7pm	798	84	0	75	0	957	747	56	0	80	0	883	1,840
7am-7pm	2,741	307	0	546	0	3,594	2,835	275	0	540	0	3,650	7,244

Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Third Avenue Bridge - 2001

	<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	---	---	---	---	---	90	---	---	---	---	---	167	257
1-2am	---	---	---	---	---	54	---	---	---	---	---	93	147
2-3am	---	---	---	---	---	56	---	---	---	---	---	76	132
3-4am	---	---	---	---	---	55	---	---	---	---	---	60	115
4-5am	---	---	---	---	---	89	---	---	---	---	---	53	142
5-6am	---	---	---	---	---	265	---	---	---	---	---	121	386
6-7am	---	---	---	---	---	908	---	---	---	---	---	182	1,090
7-8am	919	17	0	130	95	1,161	272	7	0	50	38	367	1,528
8-9am	977	13	0	101	88	1,179 **	318	13	0	71	37	439	1,618
9-10am	580	11	0	194	132	917	322	9	2	76	50	459	1,376
10-11am	448	8	0	33	29	518	438	6	1	44	33	522	1,040
11-12am	353	7	1	75	46	482	423	6	0	80	55	564	1,046
12-1pm	465	3	0	29	21	518	505	4	1	32	28	570	1,088
1-2pm	380	8	0	54	39	481	520	6	0	40	34	600	1,081
2-3pm	348	15	0	100	73	536	493	8	0	110	65	676	1,212
3-4pm	495	13	0	47	41	596	787	8	0	31	40	866	1,462
4-5pm	451	8	0	58	62	579	853	10	0	87	102	1,052 **	1,631 **
5-6pm	450	5	0	24	36	515	902	5	0	58	76	1,041	1,556
6-7pm	327	8	0	26	18	379	832	7	0	59	79	977	1,356
7-8pm	---	---	---	---	---	311	---	---	---	---	---	744	1,055
8-9pm	---	---	---	---	---	236	---	---	---	---	---	499	735
9-10pm	---	---	---	---	---	165	---	---	---	---	---	380	545
10-11pm	---	---	---	---	---	161	---	---	---	---	---	304	465
11-12pm	---	---	---	---	---	148	---	---	---	---	---	250	398
Totals	---	---	---	---	---	#####	---	---	---	---	---	11,062	21,461
7-10am	2,476	41	0	425	315	3,257	912	29	2	197	125	1,265	4,522
10am-1pm	1,266	18	1	137	96	1,518	1,366	16	2	156	116	1,656	3,174
1-4pm	1,223	36	0	201	153	1,613	1,800	22	0	181	139	2,142	3,755
4-7pm	1,228	21	0	108	116	1,473	2,587	22	0	204	257	3,070	4,543
7am-7pm	6,193	116	1	871	680	7,861	6,665	89	4	738	637	8,133	15,994

Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Third Street Bridge - 2001

	<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	---	---	---	---	---	42	---	---	---	---	---	37	79
1-2am	---	---	---	---	---	22	---	---	---	---	---	18	40
2-3am	---	---	---	---	---	12	---	---	---	---	---	13	25
3-4am	---	---	---	---	---	6	---	---	---	---	---	13	19
4-5am	---	---	---	---	---	14	---	---	---	---	---	25	39
5-6am	---	---	---	---	---	41	---	---	---	---	---	92	133
6-7am	---	---	---	---	---	95	---	---	---	---	---	382	477
7-8am	146	6	0	18	15	185	584	13	6	34	48	685	870
8-9am	205	0	0	19	14	238	800	10	5	42	65	922 **	1,160 **
9-10am	147	0	0	20	26	193	453	1	1	41	48	544	737
10-11am	170	0	0	7	7	184	296	0	0	24	23	343	527
11-12am	174	0	2	28	11	215	194	3	1	53	46	297	512
12-1pm	175	0	0	8	10	193	245	3	0	21	12	281	474
1-2pm	208	0	0	0	8	216	259	10	12	21	18	320	536
2-3pm	223	0	0	15	9	247	228	7	34	52	19	340	587
3-4pm	295	11	0	11	4	321	298	11	16	21	11	357	678
4-5pm	364	0	0	13	26	403 **	242	3	18	33	12	308	711
5-6pm	345	0	0	15	29	389	225	3	13	24	0	265	654
6-7pm	277	0	0	8	3	288	172	3	18	13	1	207	495
7-8pm	---	---	---	---	---	203	---	---	---	---	---	169	372
8-9pm	---	---	---	---	---	141	---	---	---	---	---	128	269
9-10pm	---	---	---	---	---	89	---	---	---	---	---	90	179
10-11pm	---	---	---	---	---	79	---	---	---	---	---	80	159
11-12pm	---	---	---	---	---	64	---	---	---	---	---	59	123
Totals	---	---	---	---	---	3,880	---	---	---	---	---	5,975	9,855
7-10am	498	6	0	57	55	616	1,837	24	12	117	161	2,151	2,767
10am-1pm	519	0	2	43	28	592	735	6	1	98	81	921	1,513
1-4pm	726	11	0	26	21	784	785	28	62	94	48	1,017	1,801
4-7pm	986	0	0	36	58	1,080	639	9	49	70	13	780	1,860
7am-7pm	2,729	17	2	162	162	3,072	3,996	67	124	379	303	4,869	7,941

Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Union Street Bridge - 2001

	<i>Eastbound</i>						<i>Westbound</i>						Grand Totals
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	
12-1am	---	---	---	---	---	74							74
1-2am	---	---	---	---	---	40							40
2-3am	---	---	---	---	---	24							24
3-4am	---	---	---	---	---	17							17
4-5am	---	---	---	---	---	16	<i>Bridge is 1-way eastbound</i>						16
5-6am	---	---	---	---	---	30							30
6-7am	---	---	---	---	---	92							92
7-8am	135	7	0	13	14	169							169
8-9am	181	8	0	25	22	236							236
9-10am	170	4	0	18	36	228							228
10-11am	203	5	0	8	10	226							226
11-12am	203	2	0	23	25	253							253
12-1pm	211	1	0	10	20	242							242
1-2pm	234	5	0	15	15	269							269
2-3pm	231	4	0	42	31	308							308
3-4pm	341	3	0	17	14	375							375
4-5pm	341	2	0	22	28	393							393
5-6pm	385	1	0	7	20	413 **							413 **
6-7pm	316	1	0	17	23	357							357
7-8pm	---	---	---	---	---	273							273
8-9pm	---	---	---	---	---	200							200
9-10pm	---	---	---	---	---	143							143
10-11pm	---	---	---	---	---	132							132
11-12pm	---	---	---	---	---	89							89
Totals	---	---	---	---	---	4,599	---	---	---	---	---	---	4,599
7-10am	486	19	0	56	72	633	---	---	---	---	---	---	633
10am-1pm	617	8	0	41	55	721	---	---	---	---	---	---	721
1-4pm	806	12	0	74	60	952	---	---	---	---	---	---	952
4-7pm	1,042	4	0	46	71	1,163	---	---	---	---	---	---	1,163
7am-7pm	2,951	43	0	217	258	3,469	---	---	---	---	---	---	3,469

Based on 1989 Classification Survey Data

** Peak Volumes

East River Bridges -- Hourly Volumes & Classification for the Bridge & River Crossings Reports

G:\Web\internet\docs\[EastRiverBridgesHourly.XLS]Sheet1
07/29/ 2003

EAST RIVER BRIDGES

Range Names Bkln_eb ='East River hourly'!\$G\$33:\$G\$56
 Bkln_hdg ='East River hourly'!\$A\$27

Brooklyn

**Hourly Vehicular Volumes
Brooklyn Bridge - 2001**

	Eastbound to Brooklyn						Westbound to Manhattan						2-Way Totals
	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans	Totals	
12-1am	---	---	---	---	---	2,011	---	---	---	---	---	1,240	3,251
1-2am	---	---	---	---	---	1,241	---	---	---	---	---	751	1,992
2-3am	---	---	---	---	---	814	---	---	---	---	---	510	1,324
3-4am	---	---	---	---	---	566	---	---	---	---	---	518	1,084
4-5am	---	---	---	---	---	596	---	---	---	---	---	1,001	1,597
5-6am	---	---	---	---	---	920	---	---	---	---	---	2,543	3,463
6-7am	---	---	---	---	---	1,623	---	---	---	---	---	2,406	4,029
7-8am	1,699	1	73	1	45	1,819	2,483	13	25	2	173	2,696	4,515
8-9am	1,587	18	75	0	53	1,733	2,335	4	38	5	142	2,524	4,257
9-10am	1,370	11	45	1	80	1,507	2,058	4	39	3	198	2,302	3,809
10-11am	1,346	2	54	0	81	1,483	2,454	2	112	6	136	2,710	4,193
11-12am	1,476	1	61	0	47	1,585	2,263	6	126	3	141	2,539	4,124
12-1pm	1,470	1	72	2	73	1,618	2,333	0	105	2	106	2,546	4,164
1-2pm	1,612	1	94	0	68	1,775	2,319	48	115	2	124	2,608	4,383
2-3pm	1,946	7	57	1	74	2,085	2,476	4	155	1	101	2,737	4,822
3-4pm	2,325	14	42	0	49	2,430	2,495	9	109	0	102	2,715	5,145
4-5pm	2,483	8	64	0	26	2,581	** 2,456	5	177	1	84	2,723	5,304
5-6pm	2,417	2	62	1	16	2,498	2,465	12	130	1	121	2,729	5,227
6-7pm	2,354	2	48	3	28	2,435	2,448	3	111	1	85	2,648	5,083
7-8pm	---	---	---	---	---	2,278	---	---	---	---	---	2,597	4,875
8-9pm	---	---	---	---	---	2,312	---	---	---	---	---	2,408	4,720
9-10pm	---	---	---	---	---	2,317	---	---	---	---	---	2,430	4,747
10-11pm	---	---	---	---	---	2,294	---	---	---	---	---	2,549	4,843
11-12pm	---	---	---	---	---	2,346	---	---	---	---	---	2,289	4,635
Totals	---	---	---	---	---	42,867	---	---	---	---	---	52,719	#####
7-10am	4,656	30	193	2	178	5,059	6,876	21	102	10	513	7,522	#####
10am-1pm	4,292	4	187	2	201	4,686	7,050	8	343	11	383	7,795	#####
1-4pm	5,883	22	193	1	191	6,290	7,290	61	379	3	327	8,060	#####
4-7pm	7,254	12	174	4	70	7,514	7,369	20	418	3	290	8,100	#####
7am-7pm	22,085	68	747	9	640	23,549	28,585	110	1,242	27	1,513	31,477	#####

Based on October 1996 Classification Survey Data

** Peak Volumes

Note: Due to traffic restrictions arising from the events of 9/11/2001, Brooklyn Bridge traffic volume entering Manhattan in fall 2001 was 31% below the level in fall 2000, and volume leaving Manhattan via the Brooklyn Bridge was 40% below the 2000 level.

Manhattan Bridge - 2001

	Eastbound to Brooklyn						Westbound to Manhattan						2-Way Totals
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	1,703	---	---	---	---	---	1,054	2,757
1-2am	---	---	---	---	---	1,159	---	---	---	---	---	779	1,938
2-3am	---	---	---	---	---	832	---	---	---	---	---	623	1,455
3-4am	---	---	---	---	---	651	---	---	---	---	---	660	1,311
4-5am	---	---	---	---	---	689	---	---	---	---	---	808	1,497
5-6am	---	---	---	---	---	704	---	---	---	---	---	2,161	2,865
6-7am	---	---	---	---	---	1,021	---	---	---	---	---	2,088	3,109
7-8am	600	48	120	350	118	1,236	1,333	86	194	400	355	2,368	** 3,604
8-9am	629	114	112	382	130	1,367	1,136	33	189	413	422	2,193	3,560
9-10am	438	69	133	397	151	1,188	858	30	142	521	409	1,960	3,148
10-11am	427	18	119	382	173	1,119	733	33	153	681	379	1,979	3,098
11-12am	470	20	122	401	194	1,207	717	31	159	566	365	1,838	3,045
12-1pm	474	18	90	401	276	1,259	783	37	198	505	203	1,726	2,985
1-2pm	440	21	159	375	273	1,268	764	40	161	521	194	1,680	2,948
2-3pm	634	18	209	426	324	1,611	867	30	122	430	346	1,795	3,406
3-4pm	803	62	254	444	343	1,906	899	48	198	318	271	1,734	3,640
4-5pm	1,036	51	237	406	479	2,209	1,023	28	120	311	265	1,747	3,956
5-6pm	1,150	38	220	353	476	2,237	** 1,134	43	185	237	205	1,804	** 4,041
6-7pm	1,178	35	303	318	321	2,155	1,277	27	147	164	170	1,785	3,940
7-8pm	---	---	---	---	---	1,929	---	---	---	---	---	1,629	3,558
8-9pm	---	---	---	---	---	1,830	---	---	---	---	---	1,481	3,311
9-10pm	---	---	---	---	---	1,803	---	---	---	---	---	1,486	3,289
10-11pm	---	---	---	---	---	1,792	---	---	---	---	---	1,501	3,293
11-12pm	---	---	---	---	---	1,789	---	---	---	---	---	1,521	3,310
Totals	---	---	---	---	---	34,664	---	---	---	---	---	38,400	#####
7-10am	1,667	231	365	1,129	399	3,791	3,327	149	525	1,334	1,186	6,521	#####
10am-1pm	1,371	56	331	1,184	643	3,585	2,233	101	510	1,752	947	5,543	9,128
1-4pm	1,877	101	622	1,245	940	4,785	2,530	118	481	1,269	811	5,209	9,994
4-7pm	3,364	124	760	1,077	1,276	6,601	3,434	98	452	712	640	5,336	#####
7am-7pm	8,279	512	2,078	4,635	3,258	18,762	11,524	466	1,968	5,067	3,584	22,609	#####

Based on October 1996 Classification Survey Data

** Peak Volumes

Queensboro Bridge - 2001

	Eastbound to Queens						Westbound to Manhattan						2-Way Totals
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	4,227	---	---	---	---	---	2,052	6,279
1-2am	---	---	---	---	---	2,691	---	---	---	---	---	1,375	4,066
2-3am	---	---	---	---	---	1,735	---	---	---	---	---	1,163	2,898
3-4am	---	---	---	---	---	1,313	---	---	---	---	---	1,337	2,650
4-5am	---	---	---	---	---	1,605	---	---	---	---	---	2,509	4,114
5-6am	---	---	---	---	---	2,274	---	---	---	---	---	4,927	7,201
6-7am	---	---	---	---	---	2,730	---	---	---	---	---	5,436	8,166
7-8am	2,256	105	220	91	150	2,822	4,331	91	240	242	621	5,525	** 8,347
8-9am	2,038	154	220	154	135	2,701	3,592	56	248	301	753	4,950	7,651
9-10am	1,677	155	191	203	166	2,392	2,856	47	290	241	567	4,001	6,393
10-11am	2,230	71	166	204	280	2,951	2,620	53	234	328	502	3,737	6,688
11-12am	2,341	69	257	209	410	3,286	2,640	80	279	275	415	3,689	6,975
12-1pm	2,553	80	184	178	424	3,419	3,024	47	240	221	323	3,855	7,274
1-2pm	2,499	61	305	275	475	3,615	3,184	99	245	249	279	4,056	7,671
2-3pm	3,233	67	198	360	478	4,336	3,388	72	253	202	452	4,367	8,703
3-4pm	4,212	138	156	407	555	5,468	3,737	42	281	150	316	4,526	9,994
4-5pm	4,951	179	189	442	637	6,398	** 3,974	39	234	132	243	4,622	##### **
5-6pm	4,359	186	171	306	506	5,528	4,286	35	166	60	169	4,716	#####
6-7pm	4,089	154	225	95	339	4,902	3,924	58	243	76	188	4,489	9,391
7-8pm	---	---	---	---	---	4,673	---	---	---	---	---	4,158	8,831
8-9pm	---	---	---	---	---	4,632	---	---	---	---	---	3,548	8,180
9-10pm	---	---	---	---	---	4,482	---	---	---	---	---	3,468	7,950
10-11pm	---	---	---	---	---	4,460	---	---	---	---	---	3,537	7,997
11-12pm	---	---	---	---	---	4,735	---	---	---	---	---	3,051	7,786
Totals	---	---	---	---	---	87,375	---	---	---	---	---	89,094	#####
7-10am	5,971	414	631	448	451	7,915	10,779	194	778	784	1,941	14,476	#####
10am-1pm	7,124	220	607	591	1,114	9,656	8,284	180	753	824	1,240	11,281	#####
1-4pm	9,944	266	659	1,042	1,508	13,419	10,309	213	779	601	1,047	12,949	#####
4-7pm	13,399	519	585	843	1,482	16,828	12,184	132	643	268	600	13,827	#####
7am-7pm	36,438	1,419	2,482	2,924	4,555	47,818	41,556	719	2,953	2,477	4,828	52,533	#####

Based on October 1996 Classification Survey Data

** Peak Volumes

Williamsburg Bridge - 2001

	Eastbound to Brooklyn						Westbound to Manhattan						2-Way Totals
	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	1,834	---	---	---	---	---	1,006	2,840
1-2am	---	---	---	---	---	1,038	---	---	---	---	---	707	1,745
2-3am	---	---	---	---	---	740	---	---	---	---	---	590	1,330
3-4am	---	---	---	---	---	575	---	---	---	---	---	623	1,198
4-5am	---	---	---	---	---	612	---	---	---	---	---	913	1,525
5-6am	---	---	---	---	---	853	---	---	---	---	---	2,086	2,939
6-7am	---	---	---	---	---	1,490	---	---	---	---	---	1,537	3,027
7-8am	1,221	20	199	150	91	1,681	1,244	58	273	193	207	1,975	3,656
8-9am	1,154	101	201	167	127	1,750	1,147	24	290	169	247	1,877	3,627
9-10am	903	68	264	162	108	1,505	1,083	23	265	164	175	1,710	3,215
10-11am	912	35	218	338	63	1,566	1,203	23	324	194	183	1,927	3,493
11-12am	904	18	229	336	89	1,576	1,050	23	309	198	193	1,773	3,349
12-1pm	1,010	12	285	254	141	1,702	1,123	24	300	166	204	1,817	3,519
1-2pm	1,124	20	297	293	138	1,872	1,041	50	405	177	157	1,830	3,702
2-3pm	1,338	28	413	310	55	2,144	1,374	31	333	133	170	2,041	4,185
3-4pm	1,783	64	399	329	155	2,730	1,464	26	283	139	175	2,087	4,817
4-5pm	1,967	81	368	312	176	2,904 **	1,438	27	347	94	159	2,065	4,969 **
5-6pm	1,889	58	357	216	203	2,723	1,455	29	344	98	164	2,090 **	4,813
6-7pm	1,902	21	313	110	156	2,502	1,340	24	391	85	162	2,002	4,504
7-8pm	---	---	---	---	---	2,509	---	---	---	---	---	1,764	4,273
8-9pm	---	---	---	---	---	2,428	---	---	---	---	---	1,656	4,084
9-10pm	---	---	---	---	---	2,276	---	---	---	---	---	1,598	3,874
10-11pm	---	---	---	---	---	2,139	---	---	---	---	---	1,600	3,739
11-12pm	---	---	---	---	---	2,234	---	---	---	---	---	1,545	3,779
Totals	---	---	---	---	---	43,383	---	---	---	---	---	38,819	#####
7-10am	3,278	189	664	479	326	4,936	3,474	105	828	526	629	5,562	#####
10am-1pm	2,826	65	732	928	293	4,844	3,376	70	933	558	580	5,517	#####
1-4pm	4,245	112	1,109	932	348	6,746	3,879	107	1,021	449	502	5,958	#####
4-7pm	5,758	160	1,038	638	535	8,129	4,233	80	1,082	277	485	6,157	#####
7am-7pm	16,107	526	3,543	2,977	1,502	24,655	14,962	362	3,864	1,810	2,196	23,194	#####

Based on October 1996 Classification Survey Data

** Peak Volumes

Alexander Hamilton Bridge - 2001

	<i>Eastbound to Bronx</i>					<i>Westbound to Manhattan</i>						2-Way Totals	
	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans		Totals
12-1am	---	---	---	---	---	1,918	---	---	---	---	---	2,249	4,167
1-2am	---	---	---	---	---	1,596	---	---	---	---	---	1,766	3,362
2-3am	---	---	---	---	---	1,470	---	---	---	---	---	1,456	2,926
3-4am	---	---	---	---	---	1,547	---	---	---	---	---	1,476	3,023
4-5am	---	---	---	---	---	1,986	---	---	---	---	---	1,750	3,736
5-6am	---	---	---	---	---	3,030	---	---	---	---	---	2,801	5,831
6-7am	---	---	---	---	---	4,754	---	---	---	---	---	4,312	9,066
7-8am	3,891	13	225	743	113	4,985	3,530	8	75	375	186	4,174	9,159
8-9am	3,354	4	219	843	196	4,616	3,537	29	29	411	130	4,136	8,752
9-10am	3,140	4	201	1,028	113	4,486	3,049	44	25	669	178	3,965	8,451
10-11am	3,896	3	92	305	44	4,340	3,154	22	14	340	115	3,645	7,985
11-12am	3,159	10	227	703	116	4,215	2,514	11	16	784	223	3,548	7,763
12-1pm	3,602	0	102	406	44	4,154	3,030	8	8	423	107	3,576	7,730
1-2pm	3,126	7	149	746	74	4,102	2,749	10	20	715	187	3,681	7,783
2-3pm	3,465	6	184	719	102	4,476	3,024	17	37	811	163	4,052	8,528
3-4pm	4,159	7	84	325	91	4,666	3,601	20	14	423	77	4,135	8,801
4-5pm	3,969	6	149	496	114	4,734	3,173	3	36	800	193	4,205	8,939
5-6pm	3,988	5	112	375	93	4,573	3,336	2	27	744	146	4,255	8,828
6-7pm	3,760	9	197	431	76	4,473	3,636	2	21	441	126	4,226	8,699
7-8pm	---	---	---	---	---	4,175	---	---	---	---	---	4,116	8,291
8-9pm	---	---	---	---	---	3,753	---	---	---	---	---	3,696	7,449
9-10pm	---	---	---	---	---	3,584	---	---	---	---	---	3,491	7,075
10-11pm	---	---	---	---	---	3,408	---	---	---	---	---	3,343	6,751
11-12pm	---	---	---	---	---	2,673	---	---	---	---	---	2,837	5,510
Totals	---	---	---	---	---	87,714	---	---	---	---	---	80,891	168,605
7-10am	10,385	21	645	2,614	422	14,087	10,116	81	129	1,455	494	12,275	26,362
10am-1pm	10,657	13	421	1,414	204	12,709	8,698	41	38	1,547	445	10,769	23,478
1-4pm	10,750	20	417	1,790	267	13,244	9,374	47	71	1,949	427	11,868	25,112
4-7pm	11,717	20	458	1,302	283	13,780	10,145	7	84	1,985	465	12,686	26,466
7am-7pm	43,509	74	####	7,120	####	53,820	38,333	176	322	6,936	1,831	47,598	101,418

Based on 1989 Classification Survey Data

** Peak Volumes

Broadway Bridge - 2001

	Northbound to Bronx						Southbound to Manhattan						2-Way Totals
	Commuter		Commercial		Totals	Commuter		Commercial		Totals			
	Autos	Buses	Vans	Trucks		Vans	Autos	Buses	Vans		Trucks	Vans	Totals
12-1am	---	---	---	---	---	340	---	---	---	---	---	283	623
1-2am	---	---	---	---	---	196	---	---	---	---	---	195	391
2-3am	---	---	---	---	---	132	---	---	---	---	---	99	231
3-4am	---	---	---	---	---	83	---	---	---	---	---	95	178
4-5am	---	---	---	---	---	145	---	---	---	---	---	167	312
5-6am	---	---	---	---	---	270	---	---	---	---	---	362	632
6-7am	---	---	---	---	---	541	---	---	---	---	1,045	1,586	
7-8am	654	36	20	66	27	803	1,718	78	54	39	57	1,946	2,749
8-9am	786	57	20	34	27	924	1,759	60	41	62	60	1,982	2,906 **
9-10am	587	20	3	24	52	686	1,223	47	35	72	55	1,432	2,118
10-11am	785	19	2	40	27	873	978	26	14	45	12	1,075	1,948
11-12am	824	25	10	33	50	942	897	30	30	63	65	1,085	2,027
12-1pm	861	25	6	25	27	944	1,101	28	5	23	15	1,172	2,116
1-2pm	906	28	3	31	32	1,000	1,156	32	12	27	21	1,248	2,248
2-3pm	945	27	1	40	81	1,094	1,166	36	27	41	21	1,291	2,385
3-4pm	1,216	29	10	16	41	1,312	1,364	38	16	22	12	1,452	2,764
4-5pm	1,271	44	31	27	62	1,435	1,218	32	22	38	37	1,347	2,782
5-6pm	1,363	31	9	13	71	1,487 **	1,284	33	34	20	26	1,397	2,884
6-7pm	1,182	23	0	13	116	1,334	1,207	32	29	21	9	1,298	2,632
7-8pm	---	---	---	---	---	1,181	---	---	---	---	---	1,135	2,316
8-9pm	---	---	---	---	---	935	---	---	---	---	---	884	1,819
9-10pm	---	---	---	---	---	742	---	---	---	---	---	658	1,400
10-11pm	---	---	---	---	---	608	---	---	---	---	---	597	1,205
11-12pm	---	---	---	---	---	489	---	---	---	---	---	434	923
Totals	---	---	---	---	---	18,496	---	---	---	---	---	22,679	41,175
7-10am	2,027	113	43	124	106	2,413	4,700	185	130	173	172	5,360	7,773
10am-1pm	2,470	69	18	98	104	2,759	2,976	84	49	131	92	3,332	6,091
1-4pm	3,067	84	14	87	154	3,406	3,686	106	55	90	54	3,991	7,397
4-7pm	3,816	98	40	53	249	4,256	3,709	97	85	79	72	4,042	8,298
7am-7pm	11,380	364	115	362	613	12,834	15,071	472	319	473	390	16,725	29,559

Based on 1989 Classification Survey Data

** Peak Volumes

Macombs Dam Bridge - 2001

	<i>Eastbound to Bronx</i>						<i>Westbound to Manhattan</i>						2-Way Totals
	Autos	Commuter Buses	Commercial Vans	Trucks	Commercial Vans	Totals	Autos	Commuter Buses	Commercial Vans	Trucks	Commercial Vans	Totals	
12-1am	---	---	---	---	---	508	---	---	---	---	---	326	834
1-2am	---	---	---	---	---	337	---	---	---	---	---	215	552
2-3am	---	---	---	---	---	220	---	---	---	---	---	159	379
3-4am	---	---	---	---	---	203	---	---	---	---	---	185	388
4-5am	---	---	---	---	---	315	---	---	---	---	---	187	502
5-6am	---	---	---	---	---	325	---	---	---	---	---	238	563
6-7am	---	---	---	---	---	654	---	---	---	---	---	545	1,199
7-8am	806	33	21	50	73	983	782	25	4	55	148	1,014	1,997
8-9am	977	14	17	59	100	1,167	950	8	2	75	134	1,169	2,336
9-10am	812	18	13	51	54	948	728	15	10	84	138	975	1,923
10-11am	806	7	3	34	43	893	721	7	5	31	43	807	1,700
11-12am	766	10	12	63	75	926	779	6	12	68	77	942	1,868
12-1pm	913	11	6	30	41	1,001	858	16	3	17	37	931	1,932
1-2pm	983	3	6	30	27	1,049	719	14	5	16	58	812	1,861
2-3pm	980	15	24	77	84	1,180	843	18	13	42	73	989	2,169
3-4pm	1,141	24	10	61	73	1,309	1,051	32	9	20	39	1,151	2,460
4-5pm	1,163	10	37	99	188	1,497	1,026	9	28	37	69	1,169	2,666
5-6pm	1,269	11	18	45	168	1,511 **	1,103	12	9	18	60	1,202 **	2,713 **
6-7pm	1,295	4	8	30	52	1,389	991	6	11	22	75	1,105	2,494
7-8pm	---	---	---	---	---	1,308	---	---	---	---	---	1,057	2,365
8-9pm	---	---	---	---	---	1,271	---	---	---	---	---	936	2,207
9-10pm	---	---	---	---	---	1,092	---	---	---	---	---	697	1,789
10-11pm	---	---	---	---	---	887	---	---	---	---	---	634	1,521
11-12pm	---	---	---	---	---	692	---	---	---	---	---	505	1,197
Totals	---	---	---	---	---	21,665	---	---	---	---	---	17,950	39,615
7-10am	2,595	65	51	160	227	3,098	2,460	48	16	214	420	3,158	6,256
10am-1pm	2,485	28	21	127	159	2,820	2,358	29	20	116	157	2,680	5,500
1-4pm	3,104	42	40	168	184	3,538	2,613	64	27	78	170	2,952	6,490
4-7pm	3,727	25	63	174	408	4,397	3,120	27	48	77	204	3,476	7,873
7am-7pm	11,911	160	175	629	978	13,853	10,551	168	111	485	951	12,266	26,119

Based on 1989 Classification Survey Data

** Peak Volumes

Madison Avenue Bridge - 2001

	<i>Eastbound to Bronx</i>						<i>Westbound to Manhattan</i>						2-Way Totals
	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans	Totals	
12-1am	---	---	---	---	---	682	---	---	---	---	---	307	989
1-2am	---	---	---	---	---	348	---	---	---	---	---	176	524
2-3am	---	---	---	---	---	225	---	---	---	---	---	125	350
3-4am	---	---	---	---	---	178	---	---	---	---	---	130	308
4-5am	---	---	---	---	---	160	---	---	---	---	---	122	282
5-6am	---	---	---	---	---	262	---	---	---	---	---	308	570
6-7am	---	---	---	---	---	571	---	---	---	---	---	877	1,448
7-8am	842	42	93	55	49	1,081	1,203	96	13	49	108	1,469	2,550
8-9am	919	63	82	48	60	1,172	1,294	107	30	68	133	1,632	2,804
9-10am	725	64	93	78	48	1,008	874	63	35	151	115	1,238	2,246
10-11am	769	35	46	34	42	926	754	63	21	21	68	927	1,853
11-12am	655	26	85	106	97	969	750	29	38	74	94	985	1,954
12-1pm	922	30	37	44	47	1,080	850	37	28	34	61	1,010	2,090
1-2pm	934	32	35	47	52	1,100	869	59	30	17	47	1,022	2,122
2-3pm	964	37	85	118	119	1,323	849	71	29	32	82	1,063	2,386
3-4pm	1,341	27	42	76	70	1,556	995	69	20	26	45	1,155	2,711
4-5pm	1,344	33	152	125	150	1,804	999	62	26	24	44	1,155	2,959
5-6pm	1,493	40	129	105	99	1,866	993	44	31	25	38	1,131	2,997
6-7pm	1,373	80	54	70	92	1,669	961	38	22	19	20	1,060	2,729
7-8pm	---	---	---	---	---	1,532	---	---	---	---	---	957	2,489
8-9pm	---	---	---	---	---	1,378	---	---	---	---	---	853	2,231
9-10pm	---	---	---	---	---	1,135	---	---	---	---	---	712	1,847
10-11pm	---	---	---	---	---	938	---	---	---	---	---	589	1,527
11-12pm	---	---	---	---	---	884	---	---	---	---	---	481	1,365
Totals	---	---	---	---	---	23,847	---	---	---	---	---	19,484	43,331
7-10am	2,486	169	268	181	157	3,261	3,371	266	78	268	356	4,339	7,600
10am-1pm	2,346	91	168	184	186	2,975	2,354	129	87	129	223	2,922	5,897
1-4pm	3,239	96	162	241	241	3,979	2,713	199	79	75	174	3,240	7,219
4-7pm	4,210	153	335	300	341	5,339	2,953	144	79	68	102	3,346	8,685
7am-7pm	12,281	509	933	906	925	15,554	11,391	738	323	540	855	13,847	29,401

Based on 1989 Classification Survey Data

** Peak Volumes

Third Avenue Bridge - 2001

	Northbound to Bronx					Southbound to Manhattan					2-Way Totals	
	Commuter		Commercial		Totals	Commuter		Commercial		Totals		
	Autos	Buses	Vans	Trucks		Vans	Autos	Buses	Vans		Trucks	Vans
12-1am	---	---	---	---	---	---	---	---	---	---	1,429	1,429
1-2am	---	---	---	---	---	---	---	---	---	---	941	941
2-3am	---	---	---	---	---	---	---	---	---	---	674	674
3-4am	---	---	---	---	---	---	---	---	---	---	683	683
4-5am	Bridge is 1-way southbound to Manhattan					---	---	---	---	---	1,077	1,077
5-6am	---	---	---	---	---	---	---	---	---	---	2,646	2,646
6-7am	---	---	---	---	---	---	---	---	---	---	4,734	4,734
7-8am	---	---	---	---	---	3,148	65	487	657	542	4,899	4,899
8-9am	---	---	---	---	---	2,828	40	280	572	596	4,316	4,316
9-10am	---	---	---	---	---	2,541	42	335	495	392	3,805	3,805
10-11am	---	---	---	---	---	2,806	34	186	180	149	3,355	3,355
11-12am	---	---	---	---	---	2,270	63	368	435	269	3,405	3,405
12-1pm	---	---	---	---	---	2,917	87	150	168	130	3,452	3,452
1-2pm	---	---	---	---	---	2,631	120	229	200	343	3,523	3,523
2-3pm	---	---	---	---	---	2,634	131	329	323	379	3,796	3,796
3-4pm	---	---	---	---	---	3,572	106	123	100	89	3,990	3,990
4-5pm	---	---	---	---	---	3,519	80	190	182	210	4,181	4,181
5-6pm	---	---	---	---	---	3,569	70	148	125	106	4,018	4,018
6-7pm	---	---	---	---	---	3,385	69	137	92	100	3,783	3,783
7-8pm	---	---	---	---	---	---	---	---	---	---	3,465	3,465
8-9pm	---	---	---	---	---	---	---	---	---	---	3,019	3,019
9-10pm	---	---	---	---	---	---	---	---	---	---	2,892	2,892
10-11pm	---	---	---	---	---	---	---	---	---	---	2,553	2,553
11-12pm	---	---	---	---	---	---	---	---	---	---	2,120	2,120
Totals	---	---	---	---	---	---	---	---	---	---	72,756	72,756
7-10am	---	---	---	---	---	8,517	147	1,102	1,724	1,530	13,020	13,020
10am-1pm	---	---	---	---	---	7,993	184	704	783	548	10,212	10,212
1-4pm	---	---	---	---	---	8,837	357	681	623	811	11,309	11,309
4-7pm	---	---	---	---	---	10,473	219	475	399	416	11,982	11,982
7am-7pm	---	---	---	---	---	35,820	907	2,962	3,529	3,305	46,523	46,523

Based on 1989 Classification Survey Data

** Peak Volumes

University Heights Bridge - 2001

	Eastbound to Bronx						Westbound to Manhattan						2-Way Totals	
	Commuter		Commercial		Totals	Commuter		Commercial		Totals				
	Autos	Buses	Vans	Trucks		Vans	Autos	Buses	Vans		Trucks	Vans	Totals	
12-1am	---	---	---	---	---	570	---	---	---	---	---	503	1,073	
1-2am	---	---	---	---	---	368	---	---	---	---	---	303	671	
2-3am	---	---	---	---	---	254	---	---	---	---	---	200	454	
3-4am	---	---	---	---	---	190	---	---	---	---	---	171	361	
4-5am	---	---	---	---	---	186	---	---	---	---	---	257	443	
5-6am	---	---	---	---	---	301	---	---	---	---	---	566	867	
6-7am	---	---	---	---	---	582	---	---	---	---	1,384	1,966		
7-8am	666	47	85	41	43	882	1,542	25	40	44	127	1,778	** 2,660	
8-9am	741	8	78	56	72	955	1,478	15	32	60	120	1,705	2,660	
9-10am	649	9	64	74	75	871	1,395	18	22	71	141	1,647	2,518	
10-11am	717	4	37	35	29	822	1,210	5	5	33	72	1,325	2,147	
11-12am	719	9	75	88	44	935	1,061	8	15	67	95	1,246	2,181	
12-1pm	914	15	28	31	26	1,014	1,240	2	6	34	59	1,341	2,355	
1-2pm	918	46	45	35	27	1,071	1,263	4	5	23	42	1,337	2,408	
2-3pm	923	15	79	57	54	1,128	1,226	12	24	55	116	1,433	2,561	
3-4pm	1,030	18	23	30	29	1,130	1,341	47	7	29	59	1,483	2,613	
4-5pm	1,078	5	66	50	38	1,237	** 1,351	21	19	28	100	1,519	2,756	**
5-6pm	1,043	0	66	31	48	1,188	1,382	1	17	15	61	1,476	2,664	
6-7pm	1,049	0	65	22	66	1,202	1,306	8	11	10	61	1,396	2,598	
7-8pm	---	---	---	---	---	1,153	---	---	---	---	---	1,383	2,536	
8-9pm	---	---	---	---	---	1,097	---	---	---	---	---	1,302	2,399	
9-10pm	---	---	---	---	---	938	---	---	---	---	---	1,148	2,086	
10-11pm	---	---	---	---	---	860	---	---	---	---	---	1,009	1,869	
11-12pm	---	---	---	---	---	710	---	---	---	---	---	825	1,535	
Totals	---	---	---	---	---	19,644	---	---	---	---	---	26,737	46,381	
7-10am	2,056	64	227	171	190	2,708	4,415	58	94	175	388	5,130	7,838	
10am-1pm	2,350	28	140	154	99	2,771	3,511	15	26	134	226	3,912	6,683	
1-4pm	2,871	79	147	122	110	3,329	3,830	63	36	107	217	4,253	7,582	
4-7pm	3,170	5	197	103	152	3,627	4,039	30	47	53	222	4,391	8,018	
7am-7pm	10,447	176	711	550	551	12,435	15,795	166	203	469	1,053	17,686	30,121	

Based on 1989 Classification Survey Data

** Peak Volumes

Washington Bridge - 2001

	<i>Eastbound to Bronx</i>						<i>Westbound to Manhattan</i>						2-Way Totals
	Commuter		Commercial		Totals	Commuter		Commercial		Totals			
	Autos	Buses	Vans	Trucks		Vans	Autos	Buses	Vans		Trucks	Vans	Totals
12-1am	---	---	---	---	---	691	---	---	---	---	515	1,206	
1-2am	---	---	---	---	---	384	---	---	---	---	312	696	
2-3am	---	---	---	---	---	252	---	---	---	---	255	507	
3-4am	---	---	---	---	---	214	---	---	---	---	253	467	
4-5am	---	---	---	---	---	250	---	---	---	---	325	575	
5-6am	---	---	---	---	---	411	---	---	---	---	542	953	
6-7am	---	---	---	---	---	904	---	---	---	---	1,192	2,096	
7-8am	1,362	52	29	47	100	1,590	1,263	59	112	37	25	1,496	3,086
8-9am	1,392	43	25	75	128	1,663	1,201	66	73	55	29	1,424	3,087
9-10am	1,145	38	24	91	86	1,384	1,130	39	57	44	30	1,300	2,684
10-11am	1,133	33	7	31	42	1,246	1,118	40	12	30	25	1,225	2,471
11-12am	1,135	27	16	63	72	1,313	1,098	52	32	35	42	1,259	2,572
12-1pm	1,212	41	18	24	59	1,354	1,325	34	12	25	19	1,415	2,769
1-2pm	1,368	33	6	35	52	1,494	1,456	37	21	24	17	1,555	3,049
2-3pm	1,415	35	26	69	81	1,626	1,439	68	51	61	48	1,667	3,293
3-4pm	1,750	41	12	34	88	1,925	1,637	51	51	51	25	1,815	3,740
4-5pm	1,881	45	57	69	209	2,261	1,741	50	88	108	59	2,046 **	4,307 **
5-6pm	2,024	37	56	40	107	2,264 **	1,844	37	56	42	53	2,032	4,296
6-7pm	1,788	23	32	24	79	1,946	1,576	43	63	22	35	1,739	3,685
7-8pm	---	---	---	---	---	1,758	---	---	---	---	---	1,581	3,339
8-9pm	---	---	---	---	---	1,509	---	---	---	---	---	1,218	2,727
9-10pm	---	---	---	---	---	1,233	---	---	---	---	---	1,022	2,255
10-11pm	---	---	---	---	---	1,048	---	---	---	---	---	921	1,969
11-12pm	---	---	---	---	---	849	---	---	---	---	---	765	1,614
Totals	---	---	---	---	---	29,569	---	---	---	---	---	27,874	57,443
7-10am	3,899	133	78	213	314	4,637	3,594	164	242	136	84	4,220	8,857
10am-1pm	3,480	101	41	118	173	3,913	3,541	126	56	90	86	3,899	7,812
1-4pm	4,533	109	44	138	221	5,045	4,532	156	123	136	90	5,037	10,082
4-7pm	5,693	105	145	133	395	6,471	5,161	130	207	172	147	5,817	12,288
7am-7pm	17,605	448	308	602	####	20,066	16,828	576	628	534	407	18,973	39,039

Based on 1989 Classification Survey Data

** Peak Volumes

Willis Avenue Bridge - 2001

	Northbound to Bronx						Southbound to Manhattan						2-Way Totals
	Commuter		Commercial		Totals	Commuter		Commercial		Totals			
	Autos	Buses	Vans	Trucks		Vans		Autos	Buses		Vans	Trucks	Vans
12-1am	---	---	---	---	---	2,120							2,120
1-2am	---	---	---	---	---	1,226							1,226
2-3am	---	---	---	---	---	837							837
3-4am	---	---	---	---	---	697							697
4-5am	---	---	---	---	---	818							818
5-6am	---	---	---	---	---	1,337							1,337
6-7am	---	---	---	---	---	2,824							2,824
7-8am	3,357	100	156	194	135	3,942							3,942
8-9am	2,987	127	111	216	262	3,703							3,703
9-10am	2,256	132	111	270	250	3,019							3,019
10-11am	2,500	58	80	187	176	3,001							3,001
11-12am	2,250	39	132	323	298	3,042							3,042
12-1pm	2,822	48	60	174	118	3,222							3,222
1-2pm	2,908	27	44	122	154	3,255							3,255
2-3pm	2,588	31	127	372	376	3,494							3,494
3-4pm	3,968	72	68	191	185	4,484							4,484
4-5pm	4,046	47	156	346	544	5,139 **							5,139 **
5-6pm	3,924	70	131	219	482	4,826							4,826
6-7pm	3,956	38	121	139	267	4,521							4,521
7-8pm	---	---	---	---	---	4,196							4,196
8-9pm	---	---	---	---	---	3,883							3,883
9-10pm	---	---	---	---	---	3,451							3,451
10-11pm	---	---	---	---	---	3,191							3,191
11-12pm	---	---	---	---	---	2,673							2,673
Totals	---	---	---	---	---	72,901							72,901
7-10am	8,600	359	378	680	647	10,664							10,664
10am-1pm	7,572	145	272	684	592	9,265							9,265
1-4pm	9,464	130	239	685	715	11,233							11,233
4-7pm	11,926	155	408	704	#####	14,486							14,486
7am-7pm	37,562	789	#####	2,753	#####	45,648							45,648

**Bridge is 1-way northbound
to The Bronx**

Based on 1989 Classification Survey Data

** Peak Volumes

145th Street Bridge - 2001

	Eastbound to Bronx						Westbound to Manhattan						2-Way Totals
	Commuter		Commercial		Totals	Commuter		Commercial		Totals			
	Autos	Buses	Vans	Trucks		Vans	Autos	Buses	Vans		Trucks	Vans	Totals
12-1am	---	---	---	---	---	310	---	---	---	---	---	250	560
1-2am	---	---	---	---	---	212	---	---	---	---	---	160	372
2-3am	---	---	---	---	---	145	---	---	---	---	---	106	251
3-4am	---	---	---	---	---	112	---	---	---	---	---	123	235
4-5am	---	---	---	---	---	115	---	---	---	---	---	122	237
5-6am	---	---	---	---	---	159	---	---	---	---	---	199	358
6-7am	---	---	---	---	---	277	---	---	---	---	---	485	762
7-8am	396	19	26	26	6	473	889	41	18	38	35	1,021	1,494
8-9am	542	19	33	35	21	650	881	30	34	29	54	1,028 **	1,678
9-10am	482	11	33	51	21	598	631	21	38	29	67	786	1,384
10-11am	494	8	14	23	24	563	514	18	35	26	51	644	1,207
11-12am	459	15	27	62	40	603	454	11	46	47	55	613	1,216
12-1pm	573	13	17	41	17	661	609	11	11	9	15	655	1,316
1-2pm	616	13	35	32	18	714	614	31	11	15	9	680	1,394
2-3pm	565	17	31	97	41	751	588	22	27	26	39	702	1,453
3-4pm	789	20	21	38	27	895	705	27	8	7	10	757	1,652
4-5pm	805	13	53	90	50	1,011	712	15	13	8	20	768	1,779
5-6pm	840	10	48	70	63	1,031 **	755	16	13	9	12	805	1,836 **
6-7pm	814	26	28	22	45	935	730	24	6	4	11	775	1,710
7-8pm	---	---	---	---	---	799	---	---	---	---	---	664	1,463
8-9pm	---	---	---	---	---	719	---	---	---	---	---	577	1,296
9-10pm	---	---	---	---	---	610	---	---	---	---	---	509	1,119
10-11pm	---	---	---	---	---	517	---	---	---	---	---	452	969
11-12pm	---	---	---	---	---	433	---	---	---	---	---	378	811
Totals	---	---	---	---	---	13,293	---	---	---	---	---	13,259	26,552
7-10am	1,420	49	92	112	48	1,721	2,401	92	90	96	156	2,835	4,556
10am-1pm	1,526	36	58	126	81	1,827	1,577	40	92	82	121	1,912	3,739
1-4pm	1,970	50	87	167	86	2,360	1,907	80	46	48	58	2,139	4,499
4-7pm	2,459	49	129	182	158	2,977	2,197	55	32	21	43	2,348	5,325
7am-7pm	7,375	184	366	587	373	8,885	8,082	267	260	247	378	9,234	18,119

Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes
Metropolitan Transportation Authority Bridges & Tunnels
2001

	Brooklyn-Battery Tunnel		Henry Hudson Bridge		Queens-Midtown Tunnel		Triborough Bridge (Mahattan Plaza)		Totals	
	N/B	S/B	S/B	N/B	W/B	E/B	W/B	E/B	Entering Manhattan	Leaving Manhattan
12-1am	38	402	438	1,045	660	1,234	1,112	1,059	2,248	3,740
1-2am	21	227	189	442	380	870	524	530	1,114	2,069
2-3am	8	103	111	224	136	407	190	318	445	1,052
3-4am	13	75	66	129	115	264	143	174	337	642
4-5am	14	49	89	81	161	210	104	196	368	536
5-6am	45	66	126	76	348	307	270	430	789	879
6-7am	157	74	538	165	1,580	553	1,192	1,099	3,467	1,891
7-8am	387	194	2,268	562	1,908	880	3,718	1,946	8,281	3,582
8-9am	463	280	3,555	1,349	2,774	1,086	4,601	** 2,371	11,393	** 5,086
9-10am	472	** 344	3,595	** 1,577	3,428	** 1,064	3,787	2,559	11,282	5,544
10-11am	287	358	3,159	1,141	2,609	1,026	3,963	2,273	10,018	4,798
11-12am	169	229	2,051	937	2,395	1,156	3,771	2,029	8,386	4,421
12-1pm	118	285	1,831	934	2,331	1,304	3,126	1,975	7,406	4,498
1-2pm	131	283	1,720	1,110	2,014	1,517	3,022	2,159	6,887	5,069
2-3pm	121	412	1,450	1,170	2,053	1,791	2,813	2,544	6,437	5,917
3-4pm	180	582	1,849	1,660	1,994	2,262	3,106	2,757	7,129	7,261
4-5pm	212	711	2,356	1,957	2,136	2,645	3,475	3,234	8,179	8,547
5-6pm	247	718	2,805	2,266	2,196	2,653	3,428	3,269	8,476	8,906
6-7pm	210	814	2,739	2,553	2,341	2,572	3,457	3,524	** 8,747	** 9,463
7-8pm	134	977	** 2,870	** 2,781	** 2,223	2,365	3,199	3,093	8,426	9,216
8-9pm	96	825	1,950	2,626	1,700	2,154	2,455	2,963	6,201	8,568
9-10pm	66	793	1,083	2,524	1,190	2,174	1,699	2,187	4,038	7,678
10-11pm	57	643	979	1,875	1,048	2,026	1,571	1,853	3,655	6,397
11-12pm	60	542	658	1,628	869	1,755	1,347	1,609	2,934	5,534
Totals	3,706	10,056	38,275	30,812	38,589	34,275	56,073	46,151	136,643	121,294
7-10am	1,322	818	9,418	3,488	8,110	3,030	12,106	6,876	30,956	14,212
10am-1pm	574	942	7,041	3,012	7,335	3,486	10,860	6,277	25,810	13,717
1-4pm	432	1,277	5,019	3,940	6,061	5,570	8,941	7,460	20,453	18,247
4-7pm	669	2,243	7,700	6,776	6,673	7,870	10,360	10,027	25,402	26,916
7am-7pm	2,997	5,280	29,178	17,216	28,179	19,956	42,267	30,640	102,621	73,092

** Peak Volumes Note: Due to traffic restrictions arising from the events of 9/11/2001, Brooklyn Battery Tunnel total 2-way volume in fall 2001 was 78% below the fall 2000 level, and Queens-Midtown Tunnel volume was 10% below the 2000 level.

Hourly Vehicular Volumes
Metropolitan Transportation Authority Bridges & Tunnels
2001

	Bronx-Whitestone Bridge		Cross Bay Bridge		Marine Parkway Bridge		Throgs Neck Bridge		Triborough Bridge (Bronx Plaza)		Verrazano-Narrows Bridge	
	N/B	S/B	N/B	S/B	N/B	S/B	N/B	S/B	N/B	S/B	E/B	W/B
12-1am	1,050	1,341	178	245	133	200	795	993	1,004	916	2,962	2,736
1-2am	637	818	96	160	56	129	498	673	634	555	1,536	1,856
2-3am	479	426	45	101	26	57	355	531	280	327	835	1,035
3-4am	279	370	44	65	14	37	356	353	243	243	675	709
4-5am	287	332	54	43	22	26	277	354	250	300	688	563
5-6am	530	713	110	44	61	34	666	508	409	474	1,109	819
6-7am	1,248	1,727	347	97	272	84	2,044	1,091	1,015	1,196	3,812	1,541
7-8am	3,371	3,264	819	252	708	332	4,523	2,497	2,511	2,396	9,365	3,792
8-9am	4,590	** 3,690	1,144	** 477	1,227	** 417	5,218	** 3,260	2,696	** 2,244	10,897	** 5,893
9-10am	3,549	3,514	988	465	830	429	4,461	3,048	1,732	2,086	8,876	5,625
10-11am	2,958	3,075	585	385	913	426	3,214	2,610	2,097	1,781	6,806	5,063
11-12am	3,298	2,511	468	360	603	303	2,667	2,321	2,143	1,805	5,427	4,881
12-1pm	2,478	2,340	489	356	500	327	2,496	2,097	1,824	1,551	4,794	4,206
1-2pm	2,237	2,519	458	410	407	392	2,252	2,042	1,895	1,714	4,557	4,294
2-3pm	2,135	2,700	480	444	439	436	2,003	2,221	2,053	1,958	4,801	4,805
3-4pm	2,672	3,457	606	583	515	590	2,478	2,899	2,072	2,201	5,334	6,220
4-5pm	2,751	4,510	646	768	617	849	2,593	3,513	2,615	2,717	6,381	7,830
5-6pm	3,423	4,676	** 605	779	604	887	2,817	3,670	2,357	3,228	** 6,805	** 7,912
6-7pm	2,889	4,619	546	811	** 602	910	** 2,755	4,016	2,690	3,075	6,803	7,858
7-8pm	2,708	4,214	365	759	462	798	2,612	4,740	** 2,078	2,407	6,006	7,568
8-9pm	2,264	3,655	366	580	351	626	2,118	3,573	1,788	2,128	4,882	6,781
9-10pm	2,141	2,408	296	469	235	516	1,817	2,250	1,556	1,474	3,960	5,192
10-11pm	1,838	1,825	252	429	207	424	1,480	1,793	1,455	1,213	3,643	4,133
11-12pm	1,471	1,777	214	343	167	327	1,486	1,395	1,140	1,105	3,568	3,337
Totals	51,283	60,481	10,201	9,425	9,971	9,556	51,981	52,448	38,537	39,094	114,522	104,449
7-10am	11,510	10,468	2,951	1,194	2,765	1,178	14,202	8,805	6,939	6,726	29,138	15,310
10am-1pm	8,734	7,926	1,542	1,101	2,016	1,056	8,377	7,028	6,064	5,137	17,027	13,950
1-4pm	7,044	8,676	1,544	1,437	1,361	1,418	6,733	7,162	6,020	5,873	14,682	15,319
4-7pm	9,063	13,805	1,797	2,358	1,823	2,646	8,165	11,199	7,662	9,020	19,989	23,800
7am-7pm	36,351	40,875	7,834	6,090	7,965	6,298	37,477	34,194	26,685	26,756	80,846	68,179

** Peak Volumes

Hourly Vehicular Volumes
Port Authority of New York & New Jersey
2001

	George Washington Bridge		Holland Tunnel		Lincoln Tunnel		Totals	
	E/B	W/B	E/B	W/B	E/B	W/B	Entering Manhattan	Leaving Manhattan
12-1am	2,151	3,436	270	1,150	1,277	1,738	3,698	6,324
1-2am	1,458	2,062	174	756	784	940	2,416	3,758
2-3am	1,193	1,646	124	475	564	634	1,881	2,755
3-4am	1,337	1,578	110	365	627	590	2,074	2,533
4-5am	2,064	2,076	168	503	1,172	681	3,404	3,260
5-6am	8,516	1,929	649	1,321	3,365 **	1,027	10,530	4,277
6-7am	11,525 **	4,557	945 **	1,284	2,481	1,359	14,951 **	7,200
7-8am	11,365	6,168	907	1,332	2,525	2,102	14,797	9,602
8-9am	10,706	7,414	744	1,231	2,617	2,002	14,067	10,647
9-10am	10,111	5,830	672	929	2,328	1,852	13,111	8,611
10-11am	8,375	5,142	569	1,115	2,312	1,625	11,256	7,862
11-12am	6,922	5,375	522	1,081	2,568	1,586	10,012	8,042
12-1pm	6,539	5,659	486	1,097	2,833	1,780	9,858	8,536
1-2pm	6,400	6,356	506	1,170	2,727	2,308	10,379	12,836
2-3pm	7,070	8,087	538	1,619	2,771	3,130	11,862	17,138
3-4pm	8,173	11,886	579	1,817	3,110	3,435	12,718	18,296 **
4-5pm	9,142	12,544 **	650	2,045	2,926	3,707	13,076	17,139
5-6pm	9,303	11,439	692	2,057 **	2,491	3,643	12,881	17,107
6-7pm	9,438	11,571	725	1,937	2,718	3,599	11,033	16,670
7-8pm	7,369	11,270	558	1,682	3,106	3,718 **	8,431	13,419
8-9pm	5,504	9,318	458	1,519	2,469	2,582	7,621	11,690
9-10pm	4,643	6,982	519	1,747	2,459	2,961	7,015	10,007
10-11pm	4,137	6,163	531	1,201	2,347	2,643	5,685	8,992
11-12pm	3,192	5,589	452	1,396	2,041	2,007		
Totals	155,233	154,077	12,548	30,829	54,608	51,649	222,389	236,555
7-10am	32,182	19,412	2,323	3,492	7,470	5,966	41,975	28,860
10am-1pm	21,836	16,176	1,577	3,293	7,713	4,991	31,126	24,460
1-4pm	21,643	26,329	1,623	4,606	8,608	8,873	31,874	39,808
4-7pm	28,483	35,554	2,067	6,039	8,125	10,949	38,675	52,542
7am-7pm	104,144	97,471	7,990	17,430	31,916	30,769	143,650	145,670

** Peak Volumes

Note: Due to traffic restrictions arising from the events of 9/11/2001, Holland Tunnel total 2-way volume in fall 2001 was 57% below the fall 2000 level, and Lincoln Tunnel volume was 18% below the 2000 level.

Hourly Vehicular Volumes
Port Authority of New York & New Jersey
2001

	Bayonne Bridge		Goethals Bridge		Outerbridge Crossing		Totals	
	S/B	N/B	E/B	W/B	E/B	W/B	To Staten Island	To New Jersey
12-1am	192	85	766	700	460	377	1,418	1,162
1-2am	134	69	509	463	319	217	962	749
2-3am	105	48	366	355	291	176	762	579
3-4am	85	44	351	402	329	164	765	610
4-5am	140	66	558	590	700	215	1,398	871
5-6am	312	326	1,355	1,231	2,074	609	3,741	2,166
6-7am	559	862	1,774	2,412	2,871	1,444	5,204	4,718
7-8am	646	1,505 **	1,700	3,063 **	2,815	2,723 **	5,161	7,291 **
8-9am	648	1,237	1,674	2,963	2,541	2,568	4,863	6,768
9-10am	554	697	1,742	2,579	2,236	2,164	4,532	5,440
10-11am	498	391	1,750	2,046	1,805	1,628	4,053	4,265
11-12am	475	420	1,690	2,073	1,694	1,738	3,849	4,231
12-1pm	489	375	1,757	1,705	1,677	1,642	3,923	3,722
1-2pm	540	370	1,923	1,850	1,824	1,624	4,287	3,844
2-3pm	718	432	2,204	2,063	2,035	2,083	4,957	4,578
3-4pm	1,034	422	2,516	2,171	2,299	2,693	5,849	5,286
4-5pm	1,362	461	2,913	2,002	2,682	2,468	6,957	4,931
5-6pm	1,721 **	395	3,147 **	2,138	3,104 **	2,323	7,972 **	4,856
6-7pm	1,479	358	2,826	1,625	2,661	2,056	6,966	4,039
7-8pm	882	265	2,188	1,723	1,956	1,483	5,026	3,471
8-9pm	525	251	1,715	1,177	1,546	1,516	3,786	2,944
9-10pm	393	210	1,489	1,454	1,208	1,087	3,090	2,751
10-11pm	328	149	1,336	1,162	1,148	730	2,812	2,041
11-12pm	279	95	1,076	934	725	496	2,080	1,525
Totals	14,098	9,533	39,315	#####	41,000	#####	94,413	82,838
7-10am	1,848	3,439	5,116	8,605	7,592	7,455	14,556	19,499
10am-1pm	1,462	1,186	5,187	5,824	5,176	5,208	11,825	12,218
1-4pm	2,292	1,224	6,643	6,064	6,158	6,400	15,093	13,706
4-7pm	4,562	1,214	8,886	5,765	8,447	6,947	21,895	13,826
7am-7pm	10,164	7,063	25,832	#####	27,373	#####	63,369	59,251

Hourly Vehicular Volumes Borden Avenue Bridge - 2001

	<i>Eastbound</i>						<i>Westbound</i>						2-Way Totals
	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans	Totals	
12-1am	---	---	---	---	---	47	---	---	---	---	---	109	156
1-2am	---	---	---	---	---	36	---	---	---	---	---	73	109
2-3am	---	---	---	---	---	27	---	---	---	---	---	67	94
3-4am	---	---	---	---	---	23	---	---	---	---	---	90	113
4-5am	---	---	---	---	---	27	---	---	---	---	---	148	175
5-6am	---	---	---	---	---	59	---	---	---	---	---	482	541
6-7am	---	---	---	---	---	105	---	---	---	---	---	1,060	1,165
7-8am	89	6	3	41	22	161	838	17	32	104	106	1,097	1,258
8-9am	101	6	5	65	31	208	1,037	11	15	100	44	1,207	1,415
9-10am	105	7	3	71	40	226	665	5	12	107	69	858	1,084
10-11am	157	4	8	42	19	230	587	10	5	52	17	671	901
11-12am	116	4	3	87	38	248	443	8	9	129	48	637	885
12-1pm	217	6	3	39	20	285	531	7	5	64	20	627	912
1-2pm	211	2	3	43	20	279	441	6	5	60	37	549	828
2-3pm	140	2	19	80	37	278	436	12	10	116	40	614	892
3-4pm	286	3	9	29	11	338	521	41	4	43	20	629	967
4-5pm	295	7	19	38	29	388	463	42	12	81	22	620	1,008
5-6pm	342	4	11	48	23	428	439	20	7	25	21	512	940
6-7pm	194	1	13	36	24	268	364	14	11	30	18	437	705
7-8pm	---	---	---	---	---	177	---	---	---	---	---	301	478
8-9pm	---	---	---	---	---	125	---	---	---	---	---	218	343
9-10pm	---	---	---	---	---	91	---	---	---	---	---	207	298
10-11pm	---	---	---	---	---	71	---	---	---	---	---	197	268
11-12pm	---	---	---	---	---	70	---	---	---	---	---	175	245
Totals	---	---	---	---	---	4,195	---	---	---	---	---	11,585	15,780
7-10am	295	19	11	177	93	595	2,540	33	59	311	219	3,162	3,757
10am-1pm	490	14	14	168	77	763	1,561	25	19	245	85	1,935	2,698
1-4pm	637	7	31	152	68	895	1,398	59	19	219	97	1,792	2,687
4-7pm	831	12	43	122	76	1,084	1,266	76	30	136	61	1,569	2,653
7am-7pm	2,253	52	99	619	314	3,337	6,765	193	127	911	462	8,458	11,795

Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Flushing Bridge - 2001

	<i>Eastbound</i>						<i>Westbound</i>						2-Way Totals
	Autos	Commuter Buses	Vans	Commercial Trucks	Vans	Totals	Autos	Commuter Buses	Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	577	---	---	---	---	---	522	1,099
1-2am	---	---	---	---	---	382	---	---	---	---	---	333	715
2-3am	---	---	---	---	---	259	---	---	---	---	---	266	525
3-4am	---	---	---	---	---	209	---	---	---	---	---	252	461
4-5am	---	---	---	---	---	214	---	---	---	---	---	321	535
5-6am	---	---	---	---	---	343	---	---	---	---	---	708	1,051
6-7am	---	---	---	---	---	654	---	---	---	---	---	1,641	2,295
7-8am	870	38	6	75	103	1,092	2,094	13	53	100	229	2,489	3,581
8-9am	1,131	27	17	108	125	1,408	1,974	24	49	129	260	2,436	3,844
9-10am	1,183	13	30	128	93	1,447	1,489	10	59	152	248	1,958	3,405
10-11am	1,290	16	18	66	79	1,469	1,524	13	16	76	89	1,718	3,187
11-12am	1,163	8	45	115	196	1,527	1,331	2	25	125	161	1,644	3,171
12-1pm	1,458	8	26	59	93	1,644	1,457	6	6	76	92	1,637	3,281
1-2pm	1,417	20	16	65	134	1,652	1,548	14	23	70	44	1,699	3,351
2-3pm	1,284	28	34	136	340	1,822	1,444	22	58	111	100	1,735	3,557
3-4pm	1,668	20	18	52	184	1,942	1,651	31	23	54	47	1,806	3,748
4-5pm	1,648	14	31	65	293	2,051	1,537	12	34	63	94	1,740	3,791
5-6pm	1,806	14	16	53	265	2,154	1,470	7	48	54	94	1,673	3,827
6-7pm	1,788	9	10	38	217	2,062	1,492	8	16	38	53	1,607	3,669
7-8pm	---	---	---	---	---	1,931	---	---	---	---	---	1,509	3,440
8-9pm	---	---	---	---	---	1,661	---	---	---	---	---	1,409	3,070
9-10pm	---	---	---	---	---	1,389	---	---	---	---	---	1,258	2,647
10-11pm	---	---	---	---	---	1,275	---	---	---	---	---	1,117	2,392
11-12pm	---	---	---	---	---	852	---	---	---	---	---	870	1,722
Totals	---	---	---	---	---	30,016	---	---	---	---	---	32,348	62,364
7-10am	3,184	78	53	311	321	3,947	5,557	47	161	381	737	6,883	10,830
10am-1pm	3,911	32	89	240	368	4,640	4,312	21	47	277	342	4,999	9,639
1-4pm	4,369	68	68	253	658	5,416	4,643	67	104	235	191	5,240	10,656
4-7pm	5,242	37	57	156	775	6,267	4,499	27	98	155	241	5,020	11,287
7am-7pm	#####	215	267	960	2,122	20,270	19,011	162	410	1,048	1,511	22,142	42,412

Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Hook Creek Bridge - 2001

	Northbound						Southbound						2-Way Totals
	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Commercial Trucks	Commercial Vans	Totals	
12-1am	---	---	---	---	---	420	---	---	---	---	---	738	1,158
1-2am	---	---	---	---	---	248	---	---	---	---	---	375	623
2-3am	---	---	---	---	---	153	---	---	---	---	---	215	368
3-4am	---	---	---	---	---	177	---	---	---	---	---	179	356
4-5am	---	---	---	---	---	328	---	---	---	---	---	209	537
5-6am	---	---	---	---	---	924	---	---	---	---	---	370	1,294
6-7am	---	---	---	---	---	1,988	---	---	---	---	---	966	2,954
7-8am	2,050	15	50	63	36	2,214	1,226	11	111	111	81	1,540	3,754
8-9am	1,977	16	73	106	61	2,233	1,495	8	113	131	75	1,822	4,055
9-10am	1,797	7	62	138	67	2,071	1,377	6	68	109	70	1,630	3,701
10-11am	1,844	2	13	52	44	1,955	1,475	2	11	51	42	1,581	3,536
11-12am	1,720	10	46	194	90	2,060	1,593	2	13	102	82	1,792	3,852
12-1pm	2,117	10	29	66	23	2,245	1,835	0	12	43	26	1,916	4,161
1-2pm	2,083	15	47	80	58	2,283	1,771	6	62	120	50	2,009	4,292
2-3pm	2,040	17	50	90	81	2,278	2,019	3	33	95	80	2,230	4,508
3-4pm	2,256	36	12	28	17	2,349	2,273	3	19	36	42	2,373	4,722
4-5pm	2,198	12	27	46	36	2,319	2,320	3	40	54	63	2,480	4,799
5-6pm	2,199	13	41	42	89	2,384 **	2,479	7	59	41	76	2,662 **	5,046 **
6-7pm	1,969	12	44	25	20	2,070	2,459	4	50	36	26	2,575	4,645
7-8pm	---	---	---	---	---	1,814	---	---	---	---	---	2,087	3,901
8-9pm	---	---	---	---	---	1,509	---	---	---	---	---	1,691	3,200
9-10pm	---	---	---	---	---	1,166	---	---	---	---	---	1,432	2,598
10-11pm	---	---	---	---	---	955	---	---	---	---	---	1,226	2,181
11-12pm	---	---	---	---	---	750	---	---	---	---	---	1,036	1,786
Totals	---	---	---	---	---	36,893	---	---	---	---	---	35,134	72,027
7-10am	5,824	38	185	307	164	6,518	4,098	25	292	351	226	4,992	11,510
10am-1pm	5,681	22	88	312	157	6,260	4,903	4	36	196	150	5,289	11,549
1-4pm	6,379	68	109	198	156	6,910	6,063	12	114	251	172	6,612	13,522
4-7pm	6,366	37	112	113	145	6,773	7,258	14	149	131	165	7,717	14,490
7am-7pm	#####	165	494	930	622	26,461	22,322	55	591	929	713	24,610	51,071

Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Hunters Point Bridge - 2001

	<i>Eastbound</i>						<i>Westbound</i>						2-Way Totals
	Autos	Commuter Buses	Commercial Vans	Trucks	Vans	Totals	Autos	Commuter Buses	Commercial Vans	Trucks	Vans	Totals	
12-1am	---	---	---	---	---	38	---	---	---	---	---	43	81
1-2am	---	---	---	---	---	26	---	---	---	---	---	20	46
2-3am	---	---	---	---	---	17	---	---	---	---	---	29	46
3-4am	---	---	---	---	---	15	---	---	---	---	---	32	47
4-5am	---	---	---	---	---	16	---	---	---	---	---	79	95
5-6am	---	---	---	---	---	34	---	---	---	---	---	186	220
6-7am	---	---	---	---	---	102	---	---	---	---	---	350	452
7-8am	95	0	13	15	11	134	355	2	20	32	70	479	613
8-9am	96	0	6	25	44	171	442	0	8	36	38	524	695
9-10am	111	0	2	30	36	179	321	0	4	59	66	450	629
10-11am	141	0	5	20	6	172	337	0	2	37	23	399	571
11-12am	119	1	9	33	25	187	212	0	2	51	31	296	483
12-1pm	138	0	7	22	22	189	198	0	1	30	20	249	438
1-2pm	144	0	11	21	24	200	212	3	3	23	25	266	466
2-3pm	140	0	20	38	38	236	186	9	1	32	31	259	495
3-4pm	199	0	9	22	8	238	266	4	1	9	4	284	522
4-5pm	194	0	15	21	37	267	157	33	2	8	24	224	491
5-6pm	290	0	16	3	32	341	207	11	1	16	17	252	593
6-7pm	223	2	4	11	27	267	161	4	3	6	16	190	457
7-8pm	---	---	---	---	---	115	---	---	---	---	---	129	244
8-9pm	---	---	---	---	---	89	---	---	---	---	---	78	167
9-10pm	---	---	---	---	---	71	---	---	---	---	---	72	143
10-11pm	---	---	---	---	---	74	---	---	---	---	---	64	138
11-12pm	---	---	---	---	---	60	---	---	---	---	---	69	129
Totals	---	---	---	---	---	3,238	---	---	---	---	---	5,023	8,261
7-10am	302	0	21	70	91	484	1,118	2	32	127	174	1,453	1,937
10am-1pm	398	1	21	75	53	548	747	0	5	118	74	944	1,492
1-4pm	483	0	40	81	70	674	664	16	5	64	60	809	1,483
4-7pm	707	2	35	35	96	875	525	48	6	30	57	666	1,541
7am-7pm	1,890	3	117	261	310	2,581	3,054	66	48	339	365	3,872	6,453

Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Little Neck Bridge - 2001

	<i>Eastbound</i>						<i>Westbound</i>						2-Way Totals
	Autos	Commuter Buses	Commercial Vans	Trucks	Vans	Totals	Autos	Commuter Buses	Commercial Vans	Trucks	Vans	Totals	
12-1am	---	---	---	---	---	214	---	---	---	---	---	161	375
1-2am	---	---	---	---	---	114	---	---	---	---	---	77	191
2-3am	---	---	---	---	---	58	---	---	---	---	---	59	117
3-4am	---	---	---	---	---	32	---	---	---	---	---	48	80
4-5am	---	---	---	---	---	63	---	---	---	---	---	86	149
5-6am	---	---	---	---	---	161	---	---	---	---	---	339	500
6-7am	---	---	---	---	---	449	---	---	---	---	---	1,370	1,819
7-8am	1,206	38	67	104	64	1,479	2,007	83	7	41	104	2,242	** 3,721
8-9am	1,979	31	93	83	62	2,248	1,833	51	3	38	79	2,004	4,252
9-10am	1,378	20	62	76	28	1,564	1,417	8	0	41	77	1,543	3,107
10-11am	1,149	9	28	44	29	1,259	1,234	11	0	27	34	1,306	2,565
11-12am	1,123	13	28	65	52	1,281	1,215	8	0	75	64	1,362	2,643
12-1pm	1,368	15	11	48	14	1,456	1,245	11	0	29	48	1,333	2,789
1-2pm	1,288	10	23	34	36	1,391	1,364	3	0	25	38	1,430	2,821
2-3pm	1,541	19	75	101	75	1,811	1,379	12	0	50	98	1,539	3,350
3-4pm	2,103	25	24	47	27	2,226	1,470	11	0	17	53	1,551	3,777
4-5pm	1,784	15	81	144	95	2,119	1,545	18	0	46	112	1,721	3,840
5-6pm	2,040	22	62	51	103	2,278	** 1,919	14	0	11	73	2,017	** 4,295
6-7pm	1,841	19	56	45	38	1,999	1,828	11	0	8	67	1,914	3,913
7-8pm	---	---	---	---	---	1,487	---	---	---	---	---	1,443	2,930
8-9pm	---	---	---	---	---	1,074	---	---	---	---	---	1,243	2,317
9-10pm	---	---	---	---	---	791	---	---	---	---	---	1,068	1,859
10-11pm	---	---	---	---	---	549	---	---	---	---	---	740	1,289
11-12pm	---	---	---	---	---	352	---	---	---	---	---	372	724
Totals	---	---	---	---	---	26,455	---	---	---	---	---	26,968	53,423
7-10am	4,563	89	222	263	154	5,291	5,257	142	10	120	260	5,789	11,080
10am-1pm	3,640	37	67	157	95	3,996	3,694	30	0	131	146	4,001	7,997
1-4pm	4,932	54	122	182	138	5,428	4,213	26	0	92	189	4,520	9,948
4-7pm	5,665	56	199	240	236	6,396	5,292	43	0	65	252	5,652	12,048
7am-7pm	#####	236	610	842	623	21,111	18,456	241	10	408	847	19,962	41,073

Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Midtown Highway Bridge - 2001

	<i>Eastbound</i>						<i>Westbound</i>						2-Way Totals
	Autos	Commuter Buses	Vans	Commercial Trucks	Vans	Totals	Autos	Commuter Buses	Vans	Commercial Trucks	Vans	Totals	
12-1am	---	---	---	---	---	1,247	---	---	---	---	---	457	1,704
1-2am	---	---	---	---	---	681	---	---	---	---	---	215	896
2-3am	---	---	---	---	---	437	---	---	---	---	---	112	549
3-4am	---	---	---	---	---	320	---	---	---	---	---	114	434
4-5am	---	---	---	---	---	367	---	---	---	---	---	216	583
5-6am	---	---	---	---	---	616	---	---	---	---	---	822	1,438
6-7am	---	---	---	---	---	1,217	---	---	---	---	---	1,891	3,108
7-8am	1,154	59	12	114	75	1,414	2,529	138	64	113	249	3,093	4,507
8-9am	1,168	95	13	101	76	1,453	2,875	67	66	133	266	3,407	4,860
9-10am	1,063	115	10	125	84	1,397	2,553	76	110	179	255	3,173	4,570
10-11am	1,527	54	3	49	64	1,697	2,195	28	31	64	87	2,405	4,102
11-12am	1,462	40	5	96	87	1,690	1,860	17	103	115	129	2,224	3,914
12-1pm	1,785	24	18	72	77	1,976	1,844	8	62	70	62	2,046	4,022
1-2pm	1,826	31	67	145	240	2,309	1,480	18	117	126	118	1,859	4,168
2-3pm	2,479	15	63	149	196	2,902	1,444	69	86	122	97	1,818	4,720
3-4pm	3,005	30	34	57	127	3,253	1,613	63	65	50	72	1,863	5,116
4-5pm	2,898	25	83	104	335	3,445	1,566	163	131	44	146	2,050	5,495
5-6pm	3,089	26	24	60	276	3,475	1,764	91	102	93	97	2,147	5,622
6-7pm	2,904	10	31	68	171	3,184	1,784	27	51	48	55	1,965	5,149
7-8pm	---	---	---	---	---	2,759	---	---	---	---	---	1,725	4,484
8-9pm	---	---	---	---	---	2,671	---	---	---	---	---	1,263	3,934
9-10pm	---	---	---	---	---	2,384	---	---	---	---	---	1,168	3,552
10-11pm	---	---	---	---	---	1,977	---	---	---	---	---	958	2,935
11-12pm	---	---	---	---	---	1,737	---	---	---	---	---	832	2,569
Totals	---	---	---	---	---	44,608	---	---	---	---	---	37,823	82,431
7-10am	3,385	269	35	340	235	4,264	7,957	281	240	425	770	9,673	13,937
10am-1pm	4,774	118	26	217	228	5,363	5,899	53	196	249	278	6,675	12,038
1-4pm	7,310	76	164	351	563	8,464	4,537	150	268	298	287	5,540	14,004
4-7pm	8,891	61	138	232	782	10,104	5,114	281	284	185	298	6,162	16,266
7am-7pm	#####	524	363	1,140	1,808	28,195	23,507	765	988	1,157	1,633	28,050	56,245

Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes North Channel Bridge - 2001

	<i>Northbound</i>						<i>Southbound</i>						2-Way Totals
	Autos	Commuter		Commercial		Totals	Autos	Buses	Vans	Trucks	Vans	Totals	
12-1am	---	---	---	---	---	120	---	---	---	---	---	261	381
1-2am	---	---	---	---	---	72	---	---	---	---	---	132	204
2-3am	---	---	---	---	---	50	---	---	---	---	---	80	130
3-4am	---	---	---	---	---	65	---	---	---	---	---	55	120
4-5am	---	---	---	---	---	101	---	---	---	---	---	58	159
5-6am	---	---	---	---	---	330	---	---	---	---	---	102	432
6-7am	---	---	---	---	---	782	---	---	---	---	---	279	1,061
7-8am	1,006	28	17	19	30	1,100 **	304	21	5	33	55	418	1,518 **
8-9am	847	29	19	40	66	1,001	318	23	1	35	53	430	1,431
9-10am	484	7	6	55	32	584	266	15	3	48	54	386	970
10-11am	451	9	6	23	8	497	347	10	0	17	27	401	898
11-12am	412	7	7	50	41	517	305	7	0	44	62	418	935
12-1pm	448	14	0	29	27	518	396	10	0	15	22	443	961
1-2pm	469	3	3	16	14	505	436	5	0	12	24	477	982
2-3pm	531	19	10	46	39	645	520	26	4	26	74	650	1,295
3-4pm	582	20	9	18	19	648	653	22	0	22	52	749	1,397
4-5pm	497	27	11	36	27	598	673	9	2	27	81	792	1,390
5-6pm	477	8	14	24	21	544	751	6	0	17	51	825 **	1,369
6-7pm	385	7	15	20	31	458	695	6	3	9	59	772	1,230
7-8pm	---	---	---	---	---	378	---	---	---	---	---	642	1,020
8-9pm	---	---	---	---	---	300	---	---	---	---	---	501	801
9-10pm	---	---	---	---	---	272	---	---	---	---	---	426	698
10-11pm	---	---	---	---	---	294	---	---	---	---	---	489	783
11-12pm	---	---	---	---	---	256	---	---	---	---	---	364	620
Totals	---	---	---	---	---	10,635	---	---	---	---	---	10,150	20,785
7-10am	2,337	64	42	114	128	2,685	888	59	9	116	162	1,234	3,919
10am-1pm	1,311	30	13	102	76	1,532	1,048	27	0	76	111	1,262	2,794
1-4pm	1,582	42	22	80	72	1,798	1,609	53	4	60	150	1,876	3,674
4-7pm	1,359	42	40	80	79	1,600	2,119	21	5	53	191	2,389	3,989
7am-7pm	6,589	178	117	376	355	7,615	5,664	160	18	305	614	6,761	14,376

Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Rikers Island Bridge - 2001

	<i>Northbound</i>						<i>Southbound</i>						2-Way Totals
	Autos	Commuter		Commercial		Totals	Autos	Buses	Vans	Trucks	Commercial		
		Buses	Vans	Trucks	Vans						Vans		
12-1am	---	---	---	---	---	48	---	---	---	---	---	284	332
1-2am	---	---	---	---	---	40	---	---	---	---	---	48	88
2-3am	---	---	---	---	---	34	---	---	---	---	---	31	65
3-4am	---	---	---	---	---	92	---	---	---	---	---	15	107
4-5am	---	---	---	---	---	265	---	---	---	---	---	18	283
5-6am	---	---	---	---	---	471	---	---	---	---	---	32	503
6-7am	---	---	---	---	---	938 **	---	---	---	---	---	67	1,005
7-8am	630	9	3	41	77	760	372	25	13	13	5	428	1,188
8-9am	434	9	2	26	35	506	335	18	21	27	11	412	918
9-10am	236	34	2	31	39	342	80	8	2	15	4	109	451
10-11am	228	18	0	24	27	297	148	15	4	13	2	182	479
11-12am	193	16	3	29	35	276	157	25	16	29	13	240	516
12-1pm	396	19	2	13	24	454	268	12	13	10	6	309	763
1-2pm	378	34	2	10	17	441	400	17	22	14	6	459	900
2-3pm	655	17	1	20	49	742	647	19	36	30	16	748	1,490 **
3-4pm	188	7	1	5	9	210	898	17	29	17	1	962 **	1,172 **
4-5pm	114	9	1	3	7	134	633	10	26	15	0	684	818
5-6pm	85	8	1	0	11	105	300	9	16	3	4	332	437
6-7pm	63	20	2	5	6	96	222	7	28	6	0	263	359
7-8pm	---	---	---	---	---	81	---	---	---	---	---	298	379
8-9pm	---	---	---	---	---	55	---	---	---	---	---	231	286
9-10pm	---	---	---	---	---	129	---	---	---	---	---	284	413
10-11pm	---	---	---	---	---	605	---	---	---	---	---	194	799
11-12pm	---	---	---	---	---	132	---	---	---	---	---	620	752
Totals	---	---	---	---	---	7,253	---	---	---	---	---	7,250	14,503
7-10am	1,300	52	7	98	151	1,608	787	51	36	55	20	949	2,557
10am-1pm	817	53	5	66	86	1,027	573	52	33	52	21	731	1,758
1-4pm	1,221	58	4	35	75	1,393	1,945	53	87	61	23	2,169	3,562
4-7pm	262	37	4	8	24	335	1,155	26	70	24	4	1,279	1,614
7am-7pm	3,600	200	20	207	336	4,363	4,460	182	226	192	68	5,128	9,491

Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Roosevelt Avenue Bridge - 2001

	<i>Eastbound</i>						<i>Westbound</i>						2-Way Totals
	Autos	Commuter		Commercial		Totals	Autos	Commuter		Commercial		Totals	
	Buses	Vans	Trucks	Vans			Buses	Vans	Trucks	Vans			
12-1am	---	---	---	---	---	206	---	---	---	---	---	142	348
1-2am	---	---	---	---	---	147	---	---	---	---	---	93	240
2-3am	---	---	---	---	---	93	---	---	---	---	---	73	166
3-4am	---	---	---	---	---	73	---	---	---	---	---	50	123
4-5am	---	---	---	---	---	101	---	---	---	---	---	68	169
5-6am	---	---	---	---	---	148	---	---	---	---	---	145	293
6-7am	---	---	---	---	---	270	---	---	---	---	---	385	655
7-8am	324	28	11	30	19	412	651	5	20	48	44	768	1,180
8-9am	471	20	13	47	52	603	790	23	14	26	42	895	1,498
9-10am	474	8	13	49	56	600	609	65	13	32	38	757	1,357
10-11am	554	7	13	26	33	633	619	11	3	23	9	665	1,298
11-12am	488	13	13	47	55	616	559	20	4	24	12	619	1,235
12-1pm	620	7	10	20	17	674	627	13	2	4	5	651	1,325
1-2pm	616	38	3	12	27	696	611	15	0	2	6	634	1,330
2-3pm	545	36	17	62	56	716	606	10	3	16	15	650	1,366
3-4pm	635	14	10	28	34	721	567	79	2	10	12	670	1,391
4-5pm	558	10	30	54	87	739	648	16	4	12	13	693	1,432
5-6pm	651	5	23	29	84	792	714	9	3	14	9	749	1,541
6-7pm	658	5	18	28	68	777	716	36	7	14	13	786	1,563
7-8pm	---	---	---	---	---	700	---	---	---	---	---	590	1,290
8-9pm	---	---	---	---	---	540	---	---	---	---	---	413	953
9-10pm	---	---	---	---	---	532	---	---	---	---	---	366	898
10-11pm	---	---	---	---	---	442	---	---	---	---	---	241	683
11-12pm	---	---	---	---	---	297	---	---	---	---	---	225	522
Totals	---	---	---	---	---	11,528	---	---	---	---	---	11,328	22,856
7-10am	1,269	56	37	126	127	1,615	2,050	93	47	106	124	2,420	4,035
10am-1pm	1,662	27	36	93	105	1,923	1,805	44	9	51	26	1,935	3,858
1-4pm	1,796	88	30	102	117	2,133	1,784	104	5	28	33	1,954	4,087
4-7pm	1,867	20	71	111	239	2,308	2,078	61	14	40	35	2,228	4,536
7am-7pm	6,594	191	174	432	588	7,979	7,717	302	75	225	218	8,537	16,516

Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Roosevelt Island Bridge - 2001

	<i>Eastbound</i>						<i>Westbound</i>						2-Way Totals
	Autos	Commuter		Commercial		Totals	Autos	Buses	Vans	Trucks	Vans	Totals	
12-1am	---	---	---	---	---	187	---	---	---	---	---	95	282
1-2am	---	---	---	---	---	52	---	---	---	---	---	55	107
2-3am	---	---	---	---	---	31	---	---	---	---	---	34	65
3-4am	---	---	---	---	---	22	---	---	---	---	---	26	48
4-5am	---	---	---	---	---	25	---	---	---	---	---	36	61
5-6am	---	---	---	---	---	44	---	---	---	---	---	95	139
6-7am	---	---	---	---	---	112	---	---	---	---	---	289	401
7-8am	277	15	14	5	4	315	539	10	33	14	9	605 **	920 **
8-9am	240	16	20	16	9	301	371	5	3	14	4	397	698
9-10am	131	8	9	20	5	173	192	5	9	13	2	221	394
10-11am	135	2	4	8	5	154	137	4	1	10	8	160	314
11-12am	146	5	8	15	16	190	126	4	8	23	8	169	359
12-1pm	195	4	2	14	7	222	166	23	3	6	4	202	424
1-2pm	180	6	2	4	7	199	169	6	1	8	7	191	390
2-3pm	196	3	3	19	6	227	201	7	4	9	8	229	456
3-4pm	398	22	1	8	9	438	316	9	5	4	3	337	775
4-5pm	558	7	13	2	12	592 **	214	9	6	3	6	238	830
5-6pm	309	6	0	4	10	329	199	7	0	3	7	216	545
6-7pm	219	2	1	1	13	236	218	4	3	3	1	229	465
7-8pm	---	---	---	---	---	238	---	---	---	---	---	219	457
8-9pm	---	---	---	---	---	179	---	---	---	---	---	203	382
9-10pm	---	---	---	---	---	161	---	---	---	---	---	174	335
10-11pm	---	---	---	---	---	145	---	---	---	---	---	169	314
11-12pm	---	---	---	---	---	221	---	---	---	---	---	273	494
Totals	---	---	---	---	---	4,793	---	---	---	---	---	4,862	9,655
7-10am	648	39	43	41	18	789	1,102	20	45	41	15	1,223	2,012
10am-1pm	476	11	14	37	28	566	429	31	12	39	20	531	1,097
1-4pm	774	31	6	31	22	864	686	22	10	21	18	757	1,621
4-7pm	1,086	15	14	7	35	1,157	631	20	9	9	14	683	1,840
7am-7pm	2,984	96	77	116	103	3,376	2,848	93	76	110	67	3,194	6,570

Based on 1989 Classification Survey Data

** Peak Volumes

Hourly Vehicular Volumes Whitestone Expressway Bridge - 2001

	<i>Northbound</i>						<i>Southbound</i>						2-Way Totals
	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Totals	
12-1am	---	---	---	---	---	1,751	---	---	---	---	---	1,226	2,977
1-2am	---	---	---	---	---	1,035	---	---	---	---	---	805	1,840
2-3am	---	---	---	---	---	695	---	---	---	---	---	586	1,281
3-4am	---	---	---	---	---	587	---	---	---	---	---	610	1,197
4-5am	---	---	---	---	---	774	---	---	---	---	---	1,116	1,890
5-6am	---	---	---	---	---	1,818	---	---	---	---	---	3,029	4,847
6-7am	---	---	---	---	---	3,814	---	---	---	---	---	6,074	9,888
7-8am	4,421	84	160	272	315	5,252	5,314	55	217	473	596	6,655	** 11,907
8-9am	4,557	71	272	362	224	5,486	5,233	68	178	445	380	6,304	11,790
9-10am	3,595	71	168	425	212	4,471	4,106	71	185	483	395	5,240	9,711
10-11am	3,638	37	86	248	152	4,161	4,024	19	100	188	107	4,438	8,599
11-12am	3,092	26	152	525	264	4,059	3,131	20	168	385	205	3,909	7,968
12-1pm	3,939	69	63	256	128	4,455	3,610	26	87	203	140	4,066	8,521
1-2pm	4,419	60	43	230	124	4,876	3,747	55	85	241	151	4,279	9,155
2-3pm	4,902	69	149	504	420	6,044	3,774	67	151	441	270	4,703	10,747
3-4pm	6,527	31	90	258	262	7,168	4,595	84	103	199	143	5,124	12,292
4-5pm	6,105	26	170	347	416	7,064	4,411	52	192	345	258	5,258	12,322
5-6pm	6,350	36	172	275	417	7,250	** 4,889	24	142	202	147	5,404	** 12,654
6-7pm	6,203	54	172	176	334	6,939	4,724	9	160	97	134	5,124	12,063
7-8pm	---	---	---	---	---	5,907	---	---	---	---	---	4,368	10,275
8-9pm	---	---	---	---	---	4,681	---	---	---	---	---	3,539	8,220
9-10pm	---	---	---	---	---	4,095	---	---	---	---	---	3,127	7,222
10-11pm	---	---	---	---	---	3,956	---	---	---	---	---	2,724	6,680
11-12pm	---	---	---	---	---	2,913	---	---	---	---	---	2,072	4,985
Totals	---	---	---	---	---	99,251	---	---	---	---	---	89,780	189,031
7-10am	#####	226	600	1,059	751	15,209	14,653	194	580	1,401	1,371	18,199	33,408
10am-1pm	#####	132	301	1,029	544	12,675	10,765	65	355	776	452	12,413	25,088
1-4pm	#####	160	282	992	806	18,088	12,116	206	339	881	564	14,106	32,194
4-7pm	#####	116	514	798	1,167	21,253	14,024	85	494	644	539	15,786	37,039
7am-7pm	#####	634	#####	3,878	3,268	67,225	51,558	550	1,768	3,702	2,926	60,504	127,729

Based on 1989 Classification Survey Data

** Peak Volumes