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Manhattan River Crossings 2003

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INTRODUCTION

Since 1948, the City of New York has been monitoring traffic flow over the 20 bridges and tunnels serving Manhattan. The *Manhattan River Crossings* report, published annually by the New York City Department of Transportation (NYCDOT) since 1972, presents vehicular volumes, classification, and trends for all bridge and tunnel facilities serving Manhattan. All toll-free bridges are monitored with automatic traffic recording (ATR) machines during the fall season.

The average hourly volumes by direction for 2003 are presented in histograms for each facility. Trends were developed from a regression analysis of volumes from 1948 to 2003. The annual growth rate was derived from the linear regression equation that reflects the best fitting straight line. The total vehicular flow to and from Manhattan has been summarized similarly with growth curves, hourly histograms, and a graph of vehicle accumulation in Manhattan. The statistical analysis presented in the report was performed by Subregional Transportation Planning Program staff of NYCDOT during the 2003-2004 and 2004-2005 program years.

NYCDOT extends its appreciation to the Port Authority of New York and New Jersey (PANYNJ) and the Metropolitan Transportation Authority Bridges and Tunnels (MTABT) for their assistance in the data collection process.

SUMMARY

2003 Daily Traffic

- Daily Manhattan River Crossings rose 2.2%, to 1,897,400 in fall 2003 from 1,857,100 in fall 2002, an increase of 40,300 daily vehicles. This was 10.8% more than the depressed level of 1,713,000 daily vehicles recorded in fall 2001 shortly after the events of 9/11/2001, and only 58,100 fewer daily vehicles than the all-time record of 1,955,500 recorded three years earlier during fall 2000.
- During the 7-8 am morning peak hour, 67,500 vehicles entered Manhattan. During the 4-5pm evening peak hour, 63,300 vehicles exited.
- For the 42nd consecutive year, the George Washington Bridge carried more traffic than any other river crossing serving Manhattan. Some 319,000 daily vehicles used this bridge in fall 2003, which was 2.7% more than the average daily volume of 310,800 in fall 2002.
- For the seventh consecutive year, the Queensboro Bridge was the second busiest river crossing, serving 185,000 daily vehicles in fall 2003, which was 4.8% more than the fall 2002 daily volume of 176,400. The Alexander Hamilton Bridge, which had been in second place continuously from 1978 to 1996, was the third busiest, as its daily volume rose 8.7%, to 182,700 in fall 2003 from 168,100 in fall 2002.
- The average automobile entering Manhattan during the morning peak period carried 1.4 persons including the driver. A total of 69% of peak period automobiles were occupied only by the driver.
- The peak accumulation of motor vehicles in Manhattan on an average weekday occurred at about 1 pm when an estimated 354,500 vehicles were either moving or parked on the island. This includes vehicles operating only within Manhattan as well as those entering via the river crossings.

Recent Trends

- In 2003, Manhattan river crossings increased 2.2% to 1.897 million daily vehicles. Volumes increased on ten of the twenty river crossings.
- The Macombs Dam Bridge had the most dramatic traffic increase of all Manhattan river crossings in 2003, as its daily volume more than doubled, to 42,300 in fall 2003 from 18,900 in fall 2002. This increase represents a return to normal traffic levels. During fall 2002, capacity had been cut in half with one of two lanes in each direction closed round-the-clock for reconstruction.
- Volumes on the East River bridges continued to rebound from the major decline caused by the events of 9/11/2001, which had severely restricted traffic flow into lower Manhattan. Daily traffic on the four East River bridges rose 5.6%, to 493,400 in fall 2003 from 467,100 in fall 2002. This was only 21,400 fewer daily vehicles using the four East River bridges than the 514,800 that had been recorded three years earlier in fall 2000 (prior to the events of 9/11/2001).

- The steepest decline in daily traffic occurred on the 145th Street Bridge, where volume decreased by 35.7%, to 23,000 in fall 2003 from 35,800 in fall 2002. This decrease represents a return to normal traffic levels. During fall 2002, major reconstruction was in progress on the nearby Macombs Dam Bridge, causing many motorists to divert to the 145th Street Bridge.
- Annual subway ridership citywide decreased 2.1% to 1.384 billion in 2003 from 1.413 billion in 2002.

Ten-Year Trends (1993-2003)

- In the ten-year period from 1993 to 2003, Manhattan traffic volume has risen 9.7%, to 1,897,400 from 1,729,400, an increase of 168,000 daily vehicles.
- Daily vehicle trips entering Manhattan were 8.5% higher in 2003 than in 1993. The biggest increase in inbound trips occurred during the 4-7am period, which rose 25.9% during the decade. Trips leaving Manhattan increased 11.0% since 1993. The biggest outbound increase also occurred during the 4-7am period (+37.9%).
- Vehicle trips on the 13 toll-free East and Harlem River bridges grew at an average annual rate of 0.7% per year from 1993 to 2003. The highest average annual growth rate was on the Madison Avenue Bridge: +8.2% per year. The greatest volume increase occurred on the Queensboro Bridge (49,000 more daily vehicles in 2003 than in 1993). The Macombs Dam Bridge had the highest annual rate of decline: -2.8% per year.
- Traffic volumes on the four MTA Bridges and Tunnels (MTABT) river crossings serving Manhattan increased at an average annual rate of 0.9% per year since 1993. The highest average annual growth rate was on the Henry Hudson Bridge (+2.5% per year), which also had the biggest volume increase (+17,600 vehicles per day).
- Traffic volumes on the three trans-Hudson Port Authority of New York and New Jersey (PANYNJ) river crossings serving Manhattan increased 1.3% per year since 1993. The highest average annual growth rate was at the George Washington Bridge (+2.4% per year), which also had the biggest volume increase (+58,300 vehicles per day).
- New York City motor vehicle registrations increased 0.4% per year. In Manhattan, registrations increased 1.3% per year.

Historical Trends

- During the 25 years following 1948, motor vehicle traffic to and from Manhattan increased 2.9% per year. By 1973 it had reached 1.493 million daily trips. Gasoline shortages arising from the first OPEC oil crisis contributed to traffic declining by 1.5% per year between 1973 and 1976. In 1977 and 1978, traffic growth resumed at 2.3% per year. Another OPEC crisis caused traffic to decline 2.4% in 1979. The 1980s brought new growth at 2.9% per year until 1987, when traffic volume declined by less than 1%. This slow downward trend continued through 1994. This was followed by increases of 3.0% in 1995, 0.4% in 1996, 4.4% in 1997, 2.9% in 1998, 1.7% in 1999, and 1.2% in 2000 (to an all time record of 1.956 million). In fall 2001, shortly after the events of 9/11, daily volume decreased 12.4%, to 1.713 million. In fall 2002, daily volume rebounded by 8.4%, to 1,857 million. In fall 2003, daily volume rose an additional 2.2%, to 1.897 million.
- Between 1948 and 2003, daily vehicle trips to and from Manhattan rose 183%, to 1,897,400 from 670,000 (1,227,400 additional daily trips). The biggest growth was on the PANYNJ's

three trans-Hudson facilities, where traffic climbed by 373%. Traffic rose 94% on the four toll-free East River bridges, 165% on the nine toll-free Harlem River bridges, and 230% on the MTABT's four toll crossings.

- Between 1953 and 1963, daily traffic growth to and from Manhattan averaged 2.1% per year. The largest annual growth rates occurred on the Brooklyn Bridge (+11.4%), and on the Third Avenue Bridge over the Harlem River (+6.4%). The largest annual decline was on the Manhattan Bridge, where daily traffic decreased 4.2% per year.
- Between 1963 and 1973, daily traffic growth to and from Manhattan averaged 2.2% per year. The largest annual growth rates occurred on the George Washington and Triborough Bridges, +5.7% and +3.3%, respectively. The biggest annual declines were on the Third Avenue and 145th Street Bridges over the Harlem River (-2.2% per year each).
- Between 1973 and 1983, traffic growth on all Manhattan crossings averaged 0.9% per year. The largest annual growth rates were through the Brooklyn-Battery Tunnel (+2.7%), and on the Broadway Bridge over the Harlem River (+2.4%). The biggest annual decline was on the Henry Hudson Bridge (-1.6% per year).
- Between 1983 and 1993, traffic growth on all Manhattan river crossings averaged 0.5% per year. The largest annual growth rates were on the Henry Hudson Bridge (+5.2%), the Broadway Bridge over the Harlem River (+2.5%), and through the Holland Tunnel (+2.5%). The largest annual decline was on the Manhattan Bridge, where daily traffic decreased 2.4% per year.
- During the 55-year period from 1948 to 2003, average daily Manhattan vehicular river crossings rose 183%, to 1,897,400 from 670,000. During the same period, annual citywide subway ridership declined by 32%, to 1,384,000,000 from 2,031,000,000.

Origin-Destination

- According to the 1990 census data, 45% of all automobile work trips ending in Manhattan originated in the other four boroughs, 43% came from outside the city, and the remaining 12% originated within Manhattan.
- Origin and Destination (O & D) surveys conducted by PANYNJ in 1989 at its trans-Hudson crossings show that 40% of all automobiles entering Manhattan from New Jersey each day have final destinations outside Manhattan. Similar surveys conducted in 1991 show that 78% of the trucks entering from New Jersey have final destinations outside Manhattan. These figures indicate that 109,075 autos and trucks entering Manhattan from New Jersey in 2003 each day were simply passing through.
- PANYNJ's O & D surveys show that 78% (85,550 vehicles) of all daily "through-Manhattan" auto and truck trips from New Jersey use the George Washington Bridge and the Trans-Manhattan Expressway. The remaining 22% (23,525 vehicles) use the Lincoln and Holland Tunnels and proceed across Manhattan along congested City streets.
- PANYNJ reports show that 67% (30,225 automobiles) of morning peak period (7-10 am) automobiles entering from New Jersey have final destinations in Manhattan.

2003 Bridge and Tunnel Reconstruction

Brooklyn Bridge

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

Eastbound lane closures were in effect as follows.

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

Westbound lane closures were in effect as follows.

04/05-04/19:	12:01am - 10:00am	Sat	1 w/b lane closed intermittently.
05/06-05/13:	10:00am - 2:00pm	Tue-Thu	1 w/b lane closed intermittently.
09/19-09/26:	12:01am - 5:00am	Fri	2 w/b lanes closed.
12/01-12/12:	12:01am - 5:00am	Mon-Fri	2 w/b lanes closed intermittently.
12/27-12/31:	11:00pm - 6:00am 1:00am - 7:00am 1:00am - 9:00am	Mon-Fri Sat Sun	1 w/b lane closed intermittently, 1 w/b lane closed intermittently, 1 w/b lane closed intermittently.

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

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

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

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

```
08/09-10/31: 9:00pm - 5:00am Sun-Fri 1 lane closed.
12/01-12/12: 9:00pm - 5:00am All days 1 lane closed intermittently.
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Throughout 2003, there were additional intermittent closings of single lanes in both directions on the Brooklyn Bridge during off-peak hours.

Manhattan Bridge

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

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

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

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

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

Manhattan Bridge Operation: January 1 - May 31, 2003

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

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

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

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

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

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

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

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

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

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

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

passenger cars only.

All other times.

Jan 1 - May 31.

- Manhattan-bound: 2 lanes on Lower Roadway,

3rd lane available when work not occurring.

- Brooklyn-bound: 2 lanes on South Upper Roadway.

Manhattan Bridge Operation: June 1 - October 31, 2003

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

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

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

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

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

- Manhattan-bound: 4 lanes: 2 on North Upper Roadway,

2 on Lower Roadway.

- Brooklyn-bound: 2 lanes on South Upper Roadway.

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

- Manhattan-bound: 3-4 lanes: 2 on North Upper Roadway,

1 or 2 on Lower Roadway.

- Brooklyn-bound: 2 lanes on South Upper Roadway.

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

- Manhattan-bound: 2 lanes on North Upper Roadway.

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

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

- Manhattan-bound: 2 lanes on North Upper Roadway.

- Brooklyn-bound: 4 lanes: 2 on South Upper Roadway,

2 on Lower Roadway.

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

- Manhattan-bound: 4 lanes: 2 on North Upper Roadway,

2 on Lower Roadway.

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

10:00pm - 5:00am.

Oct 5-9, 13-15, 17, & 21 only.

- Manhattan-bound: 4 lanes: 2 on North Upper Roadway,

2 on Lower Roadway.

- Brooklyn-bound: 2 lanes on South Upper Roadway.

Brooklyn Bridge closed Manhattan-bound for commercial film activity these dates/hours.

All other times.

June 1 – Oct 31.

- Manhattan-bound: 2 lanes on North Upper Roadway.

3-4 lanes: 2 on South Upper Roadway. - Brooklyn-bound:

1 or 2 on Lower Roadway.

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

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

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

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

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

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

2 on North Upper Roadway, - Manhattan-bound: 4 lanes:

2 on Lower Roadway.

2 lanes on South Upper Roadway. - Brooklyn-bound:

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

- Manhattan-bound: 3-4 lanes: 2 on North Upper Roadway,

1 or 2 on Lower Roadway.

- Brooklyn-bound: 2 lanes on South Upper Roadway.

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

- Manhattan-bound: 2 lanes on North Upper Roadway.

- Brooklyn-bound: 3-4 lanes: 2 on South Upper Roadway,

1 or 2 on Lower Roadway.

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

2 lanes on North Upper Roadway. - Manhattan-bound:

- Brooklyn-bound: 4 lanes: 2 on South Upper Roadway,

2 on Lower Roadway.

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

- Manhattan-bound: 2 lanes on North Upper Roadway.

2-4 lanes: 2 on South Upper Roadway, - Brooklyn-bound:

and/or 2 on Lower Roadway.

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

Nov 1 – Dec 31. All other times.

- Manhattan-bound: 2 lanes on North Upper Roadway.

3-4 lanes: 2 on South Upper Roadway, - Brooklyn-bound:

1 or 2 on Lower Roadway.

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

Queensboro Bridge

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

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

Queensboro Bridge Operation: All of 2003.

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

North Upper Roadway: W/B all times.

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

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

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

E/B all other times.

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

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

Williamsburg Bridge

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

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

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

```
01/01-05/30 5:00am - 3:00pm Mon-Fri.
01/01-01/12 6:00am - 6:00pm Sat-Sun.
02/08 5:00am - 3:00pm Sat.
04/05-05/03 6:30am - 3:00pm Sat.
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The **North Outer Roadway** was closed according to the following schedule.

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

Manhattan-bound trucks detoured to the Manhattan Bridge.

12/06-12/07 4:00am Saturday - 8:00pm Sunday. *Manhattan-bound trucks detoured to the Manhattan Bridge.*

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

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

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

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

Brooklyn-bound trucks detoured to the Manhattan Bridge.

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

05/31-06/13		Brooklyn-bound trucks detoured to the Manhattan Bridge these hours.
06/14-09/05		Brooklyn-bound trucks detoured to the Manhattan Bridge these hours.

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

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

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

North Inner Roadway or South Inner Roadway closed as noted.

South Inner Roadway reversed to Manhattan-bound as noted.

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

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

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

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

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

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

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

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

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

All other times. Jan 1 - May 30.

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

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

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

South Inner or South Outer Roadway completely closed as follows.

- 12:01am-5:00am Mon-Fri May 31-June 13.
- 2:00am-5:00am Mon-Fri June 14-September 5.
- 2:00am-7:00am Sat-Sun May 31-September 5.

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

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

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

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

Brooklyn-bound: 1 lane: South Inner or South Outer Rdwy.

Brooklyn-bound trucks detoured to Manhattan Bridge during these hours.

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

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

Brooklyn-bound: 1 lane: South Inner or South Outer Rdwy.

Brooklyn-bound trucks detoured to Manhattan Bridge during these hours.

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

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

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

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

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

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

Rdwy.

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

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

Manhattan-bound: 2 lanes: North Outer Rdwy.

Brooklyn-bound: 4 lanes: 1 South Outer Rdwy, 1 South Inner Rdwy,

2 North Inner Rdwy reversed these hours.

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

Manhattan-bound: 2 lanes: North Outer Rdwy.

Brooklyn-bound: 4 lanes: 1 South Outer Rdwy, 1 South Inner Rdwy,

2 North Inner Rdwy reversed these hours.

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

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

Brooklyn-bound: 1 lane: South Inner or South Outer Rdwy.

Brooklyn-bound trucks detoured to Manhattan Bridge during these hours.

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

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

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

Manhattan-bound: 2 lanes: North Outer Rdwy.

Brooklyn-bound: 4 lanes: 1 South Outer Rdwy, 1 South Inner Rdwy,

2 North Inner Rdwy reversed these hours.

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

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

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

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

North Outer roadway completely closed as follows.

09/06-11/24 12:01am-5:00am Mon-Fri,

1:00am-6:00am Sat-Sun.

11/15-11/16 1:00am Sat. – 8:00pm Sun.

South Outer roadway completely closed as follows.

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

Brooklyn-bound trucks banned from the bridge.

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

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

Manhattan-bound: 2 lanes. Trucks restricted in both directions

Brooklyn-bound: 2 lanes. *during this weekend time*.

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

Manhattan-bound: 2 lanes. Trucks restricted in both directions

Brooklyn-bound: 2 lanes. *during these weekend times.*

7:00am – 8:00pm Sat. Nov 8 only.

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

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

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

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

Manhattan-bound: 3 lanes: 1 North Inner Rdwy, 2 South Inner Rdwy

reversed these hours.

Brooklyn-bound: 2 lanes: South Outer Rdwy.

North Outer Roadway closed.

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

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

2 South Inner Rdwy reversed these hours.

Brooklyn-bound: 2 lanes: South Outer Rdwy.

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

Manhattan-bound: 3-4 lanes: 0-1 North Outer Rdwy, 0-1 North Inner,

1-2 South Inner Rdwy reversed these hours.

Brooklyn-bound: 2 lanes: South Outer Rdwy.

One of four Manhattan-bound lanes closed intermittently these hours.

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

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

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

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

Manhattan-bound: 3 lanes: 1 North Inner Rdwy, 2 South Inner Rdwy

reversed these hours.

Brooklyn-bound: 2 lanes: South Outer Rdwy.

North Outer Roadway closed.

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

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

2 South Inner Rdwy reversed these hours.

Brooklyn-bound: 2 lanes: South Outer Rdwy.

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

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

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

North Outer roadway completely closed as follows.

12/06-12/07 4:00am Saturday - 8:00pm Sunday.

Manhattan-bound trucks banned from the bridge.

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

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

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

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

bridge.

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

Manhattan-bound: 3 lanes. One lane closed in Brooklyn-bound: 3 lanes. each direction.

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

Manhattan-bound: 4 lanes. Two lanes closed in the off-peak direction.

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

Manhattan-bound: 2 lanes. Two lanes closed in the off-peak direction.

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

Manhattan-bound: 3 lanes. One lane closed in Brooklyn-bound: 3 lanes. each direction.

All other times. Nov 24 – Dec 31.

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

Broadway Bridge

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

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

Macombs Dam Bridge

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

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

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

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

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

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

games.

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

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

Madison Avenue Bridge

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

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

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

Third Avenue Bridge (Harlem River)

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

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

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

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

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

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

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

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

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

Washington Bridge

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

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

Willis Avenue Bridge

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

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

145th Street Bridge

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

```
08/02-12/31: 9:30am - 3:00pm Mon-Fri.
6:00am - 2:00pm Sat.
There were no lane closures during Yankee home games.
```

Brooklyn-Battery Tunnel

Prior to November 17, 2003, non-essential **single-occupant vehicles** were banned from entering Manhattan via the Brooklyn-Battery Tunnel on weekdays between 6:00-

10:00 am. This restriction had been imposed following the events of 9/11/2001, and was discontinued as of November 17, 2003.

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

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

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

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

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

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

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

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

Henry Hudson Bridge

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

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

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

All of 2003: Round-the-clock All days 1 of 4 southbound lanes closed. 11/17-11/18: 10:00am - 3:00pm Mon-Tue 2 of 4 southbound lanes closed.

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

Queens-Midtown Tunnel

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

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

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

Triborough Bridge

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

All of 2003: All hours All days 1 lane closed round-the-clock.

4 lanes maintained during peak hours, 3 lanes off-peak.

11/08-12/31: 7:00am Monday - 2:30pm Friday

One lane closed on the Harlem River lift span leaving Manhattan for

Queens/Bronx.

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

George Washington Bridge

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

Roadway closures were in effect according to the following schedule.

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

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

Holland Tunnel

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

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

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

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

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

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

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

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

Lincoln Tunnel

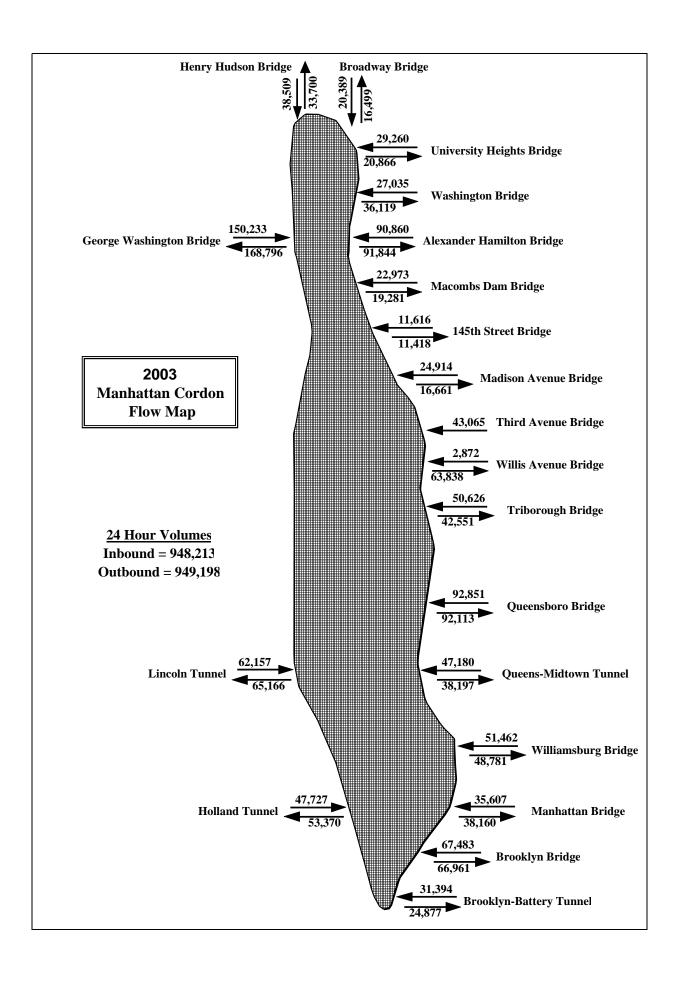
One of the three tubes of the Lincoln Tunnel was closed as follows.

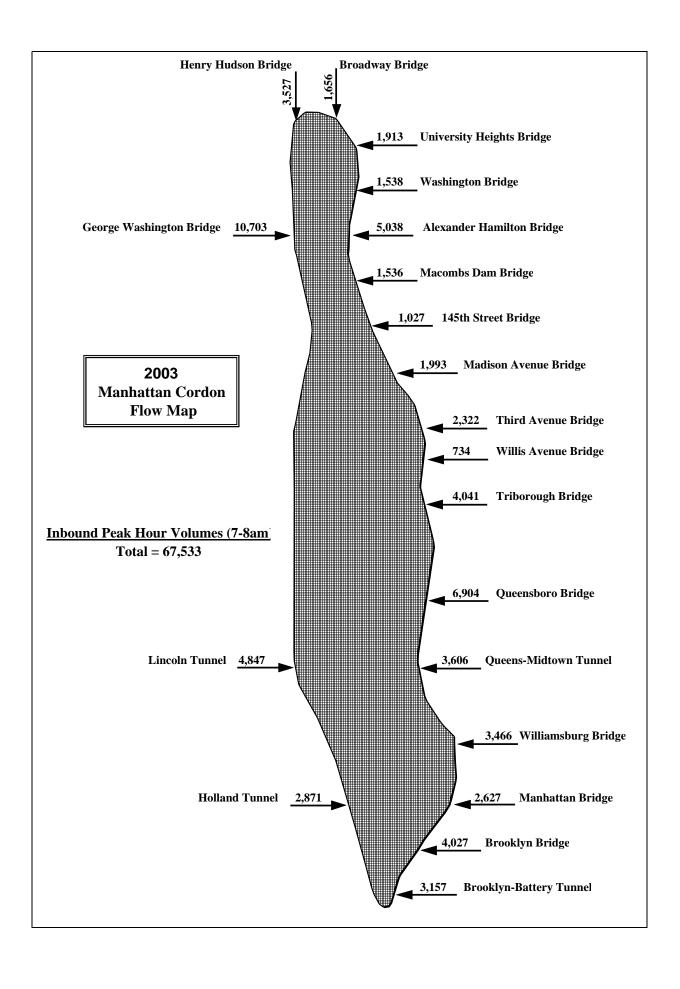
01/01-01/10: 11:00pm - 5:00am Mon-Fri, 12:30am - 8:00am Sat-Sun.

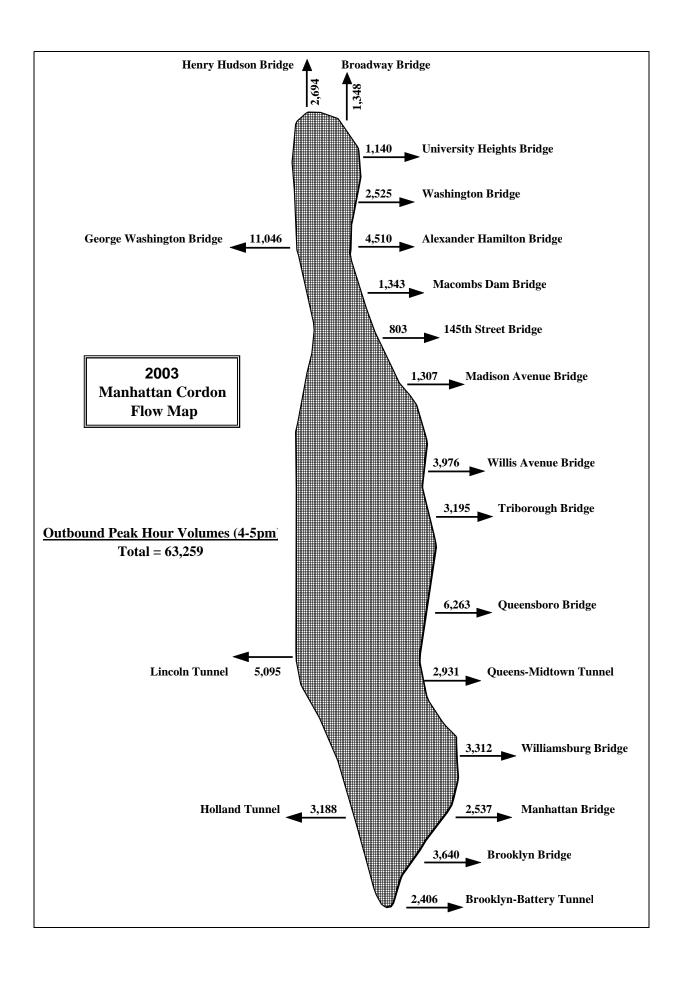
01/11-12/31: 11:00pm - 5:00am Sun-Wed, 1:00am - 9:00am Sat-Sun.

Two tubes open, providing two traffic lanes in each direction.

Two tubes open, providing two traffic lanes in each direction.





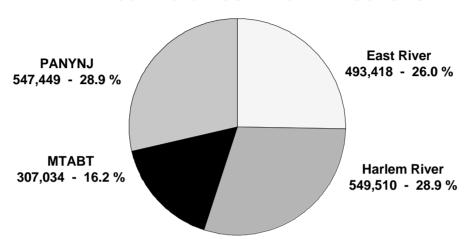


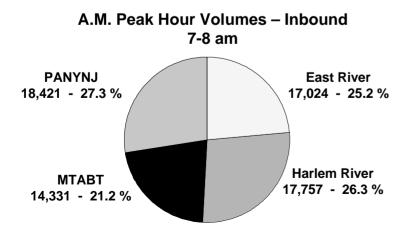
Manhattan Crossings 2003 Average Daily Traffic Volumes To and From Manhattan

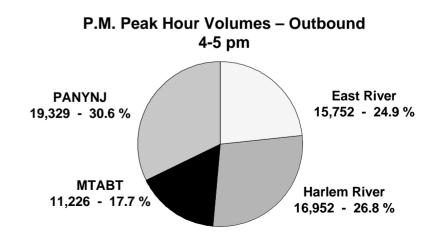
EAST RIVER BRIDGES	To Manhattan	From Manhattan	2-way Total
Brooklyn Bridge	67,483	66,961	134,444
Manhattan Bridge	35,607	38,160	73,767
Queensboro Bridge	92,851	92,113	184,964
Williamsburg Bridge	51,462	48,781	100,243
Total East River	247,403	246,015	493,418
HARLEM RIVER BRIDGES			
Alexander Hamilton Bridge	90,860	91,844	182,704
Broadway Bridge	20,389	16,499	36,888
Macombs Dam Bridge	22,973	19,281	42,254
Madison Avenue Bridge	24,914	16,661	41,575
Third Avenue Bridge	43,065		43,065
University Heights Bridge	29,260	20,866	50,126
Washington Bridge	27,035	36,119	63,154
Willis Avenue Bridge	2,872	63,838	66,710
145th Street Bridge	11,616	11,418	23,034
Total Harlem River	272,984	276,526	549,510
MTABT FACILITIES			
Brooklyn-Battery Tunnel	31,394	24,877	56,271
Henry Hudson Bridge	38,509	33,700	72,209
Queens-Midtown Tunnel	47,180	38,197	85,377
Triborough Bridge	50,626	42,551	93,177
Total MTABT	167,709	139,325	307,034
PANYNJ FACILITIES			
George Washington Bridge	150,233	168,796	319,029
Holland Tunnel	47,727	53,370	101,097
Lincoln Tunnel	62,157	65,166	127,323
Total PANYNJ	260,117	287,332	547,449
GRAND TOTAL	948,213	949,198	1,897,411

Manhattan Crossings Vehicle Volumes

24-Hour Volumes – Both Directions







Total Manhattan Crossings 2003 Average Hourly Traffic Volumes To and From Manhattan (All Facilities)

	Entering Manhattan	Leaving Manhattan	2-Way Total
12-1am	15,924	27,039	42,963
1-2am	10,271	16,510	26,781
2-3am	8,308	11,576	19,884
3-4am	8,591	9,828	18,419
4-5am	13,327	11,845	25,172
5-6am	32,024	19,834	51,858
6-7am	58,858	34,776	93,634
7-8am	67,533 **	44,001	111,534
8-9am	64,848	45,176	110,024
9-10am	56,928	41,623	98,551
10-11am	48,866	39,219	88,085
11-12am	44,977	40,414	85,391
12-1pm	43,270	41,273	84,543
1-2pm	44,354	44,523	88,877
2-3pm	47,821	50,748	98,569
3-4pm	51,301	58,268	109,569
4-5pm	52,579	63,259 **	115,838
5-6pm	54,021	62,643	116,664
6-7pm	51,073	60,018	111,091
7-8pm	45,692	55,726	101,418
8-9pm	37,879	50,541	88,420
9-10pm	34,298	44,482	78,780
10-11pm	30,733	40,391	71,124
11-12pm	24,737	35,485	60,222
24 hrs	948,213	949,198	1,897,411
7-10am	189,309	130,800	320,109
10am-1pm	137,113	120,906	258,019
1-4pm	143,476	153,539	297,015
4-7pm	157,673	185,920	343,593
7am-7pm	627,571	591,165	1,218,736

^{**} Peak Volumes

2003 East & Harlem River Bridges 7am-7pm Two-Way Vehicle Classification

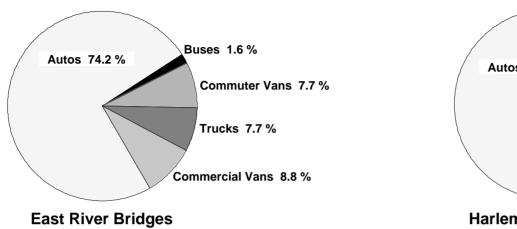
EAST RIVER BRIDGES	Autos	Buses	Commuter Vans	Trucks	Commercial Vans	Total
Brooklyn	73,192	253	2,814	49	3,088	79,396
Manhattan	20,773	1.060	4.350	10,419	7,344	43.946
Queensboro	83,970	2,316	5,909	5,875	10,299	108,369
Williamsburg	39,214	1,121	9,392	6,048	4,851	60,626
Total East River	217,149	4,750	22,465	22,391	25,582	292,337
HARLEM RIVER BRIDGE	s					
Alexander Hamilton	91,833	287	2,484	16,000	3,449	114,053
Broadway	23,802	753	396	726	897	26,574
Macombs Dam	24,497	373	307	1,212	2,154	28,543
Madison Avenue	23,159	1,303	1,081	1,302	1,716	28,561
Third Avenue	20,103	514	1,627	1,901	1,785	25,930
University Heights	28,926	379	989	1,101	1,763	33,158
Washington	37,036	1,097	986	1,243	1,717	42,079
Willis Avenue	33,972	659	1,092	2,365	2,770	40,858
145th Street	13,454	397	540	725	641	15,757
Total Harlem River	296,782	5,762	9,502	26,575	16,892	355,513

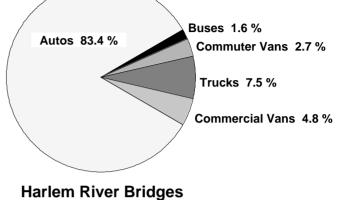
2003 MTABT & PANYNJ Facilities 24 Hour Two-Way Vehicle Classification

MTABT FACILITIES	Autos*	Buses	Trucks	Total
Brooklyn-Battery Tunnel	51,322	2,400	2,549	56,271
Henry Hudson Bridge	71,769	0	440	72,209
Queens-Midtown Tunnel	77,807	1,145	6,425	85,377
Triborough Bridge	89,289	949	2,939	93,177
Total MTABT	290,187	4,494	12,353	307,034
PANYNJ FACILITIES				
George Washington Bridge	285,391	3,602	30,036	319,029
Holland Tunnel	95,049	1,536	4,512	101,097
Lincoln Tunnel	106,526	13,429	7,368	127,323
Total PANYNJ	486,966	18,567	41,916	547,449

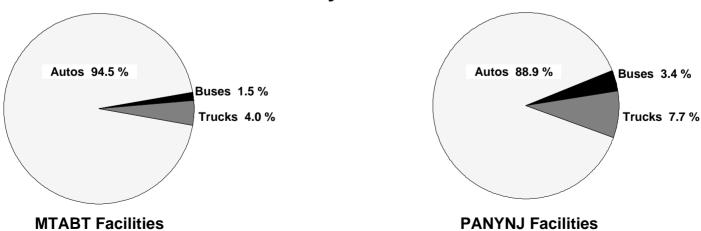
^{*} Light trucks & vans included with autos.

7am – 7pm Two-Way Classification





24-Hour Two-Way Classification



ORIGINS AND DESTINATIONS OF MANHATTAN AUTO COMMUTERS

DESTINATIONS

ORIGINS	Manhattan CBD	Upper Manhattan	Total
Bronx	7.8%	13.5%	9.0%
Brooklyn	13.7%	9.0%	12.7%
Manhattan	11.0%	17.6%	12.4%
Queens	18.7%	17.9%	18.5%
Staten Island	5.2%	2.1%	4.6%
Subtotal NYC Origins	56.4%	60.1%	57.1%
Long Island	10.4%	7.7%	9.9%
Upstate NY	10.9%	14.6%	11.7%
New Jersey	20.3%	15.9%	19.4%
Connecticut	1.5%	1.2%	1.4%
Pennsylvania	0.5%	0.5%	0.5%
Subtotal Suburbs	43.6%	39.9%	42.9%
GRAND TOTAL	100.0%	100.0%	100.0%

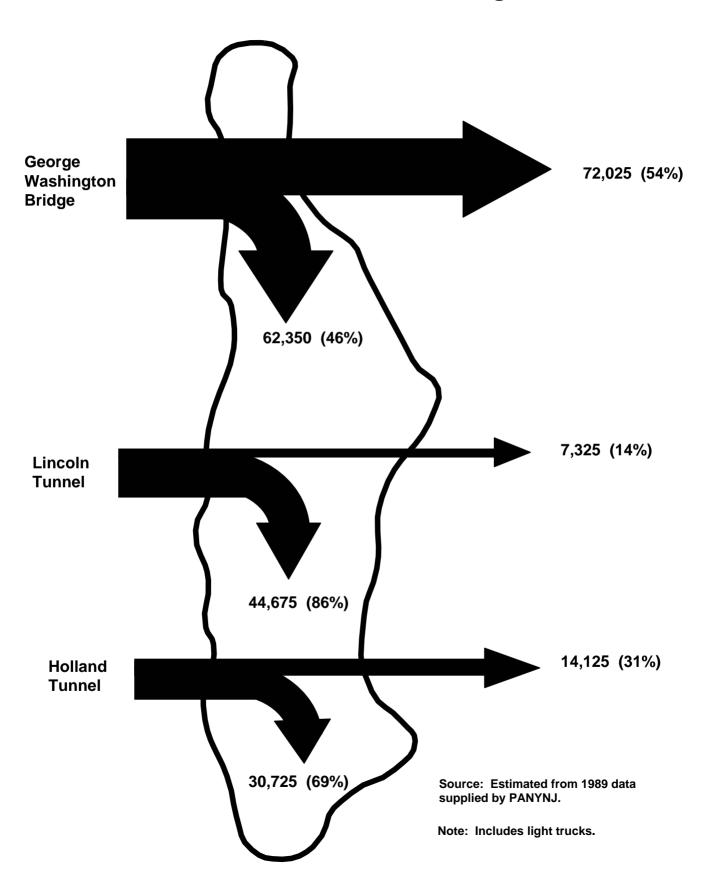
Definitions: CBD -Manhattan Central Business District (area south of and including 60th Street).

Upper Manhattan - Area of Manhattan north of 60th Street.

PANYNJ, Commutation to Districts within Manhattan, October 31, 1994, Source:

analysis based on 1990 U.S. Census Journey to Work data.

2003 Thru vs. Local E/B Auto Trips via Hudson River Crossings



DESTINATIONS OF HUDSON RIVER CROSSINGS EASTBOUND AUTO TRAFFIC

TOTAL OF HOLLAND TUNNEL, LINCOLN TUNNEL AND GEORGE WASHINGTON BRIDGE

1989

Eastbound Auto Destinations	6-7 am	7-10 am	4-7 pm	5 am - 11 pm
	0-7 am	7-10 am	4-7 pm	J am - 11 pm
Manhattan				
Midtown	19.9%	23.6%	11.0%	17.5%
Valley	13.1%	13.4%	11.5%	13.4%
Downtown	12.0%	9.9%	5.8%	8.4%
CBD Total	45.0%	46.9%	28.2%	39.3%
Upper Manhattan	18.7%	19.5%	19.7%	19.9%
Manhattan Total	63.6%	66.4%	47.9%	59.2%
Bronx	9.7%	11.1%	11.3%	10.1%
Brooklyn	7.6%	4.7%	7.9%	6.3%
Queens	10.9%	8.1%	14.3%	11.3%
Westchester	3.0%	3.8%	6.4%	4.4%
Long Island	3.5%	4.2%	8.0%	5.7%
Other	1.6%	1.8%	4.2%	3.0%
Thru Trip Total	36.4%	33.6%	52.1%	40.8%
GRAND TOTAL	100.0%	100.0%	100.0%	100.0%

Source: PANYNJ, Vehicular Origin and Destination Survey - 1989, May 1990.

DESTINATIONS OF HOLLAND TUNNEL EASTBOUND AUTO TRAFFIC 1989

Eastbound Auto	0.7	7.40	4 7	- 44
Destinations	6-7 am	7-10 am	4-7 pm	5 am - 11 pm
Manhattan				
Midtown	6.8%	10.6%	6.6%	8.9%
Valley	15.3%	19.8%	23.4%	22.7%
Downtown	40.9%	38.8%	22.1%	29.9%
CBD Total	63.0%	69.1%	52.1%	61.5%
Upper Manhattan	5.1%	5.2%	7.9%	7.0%
Manhattan Total	68.1%	74.3%	60.0%	68.5%
Bronx	1.4%	0.9%	1.1%	0.9%
Brooklyn	17.6%	16.2%	22.8%	18.0%
Queens	9.7%	6.5%	12.1%	9.4%
Westchester	0.3%	0.6%	0.1%	0.2%
Long Island	2.0%	1.4%	2.7%	2.4%
Other	0.9%	0.1%	1.2%	0.6%
Thru Trip Total	31.9%	25.7%	40.0%	31.5%
GRAND TOTAL	100.0%	100.0%	100.0%	100.0%

Source: PANYNJ, Vehicular Origin and Destination Survey - 1989, May 1990.

DESTINATIONS OF LINCOLN TUNNEL EASTBOUND AUTO TRAFFIC
1989

Eastbound Auto Destinations	6-7 am	7-10 am	4-7 pm	5 am - 11 pm
	0-7 am	7-10 am	4-7 pm	J am - 11 pm
Manhattan				
Midtown	37.8%	45.8%	30.8%	38.9%
Valley	23.0%	25.5%	22.6%	23.8%
Downtown	8.9%	7.3%	4.2%	6.7%
CBD Total	69.8%	78.6%	57.6%	69.4%
Upper Manhattan	11.7%	11.3%	22.0%	16.5%
Manhattan Total	81.5%	89.9%	79.6%	85.9%
Bronx	0.8%	1.0%	1.0%	0.8%
Brooklyn	5.8%	3.0%	5.9%	4.2%
Queens	9.6%	4.1%	10.7%	7.0%
Westchester	0.2%	0.5%	0.5%	0.3%
Long Island	1.3%	1.4%	1.9%	1.4%
Other	0.8%	0.2%	0.4%	0.4%
Thru Trip Total	18.5%	10.1%	20.4%	14.1%
GRAND TOTAL	100.0%	100.0%	100.0%	100.0%

Source: PANYNJ, Vehicular Origin and Destination Survey - 1989, May 1990.

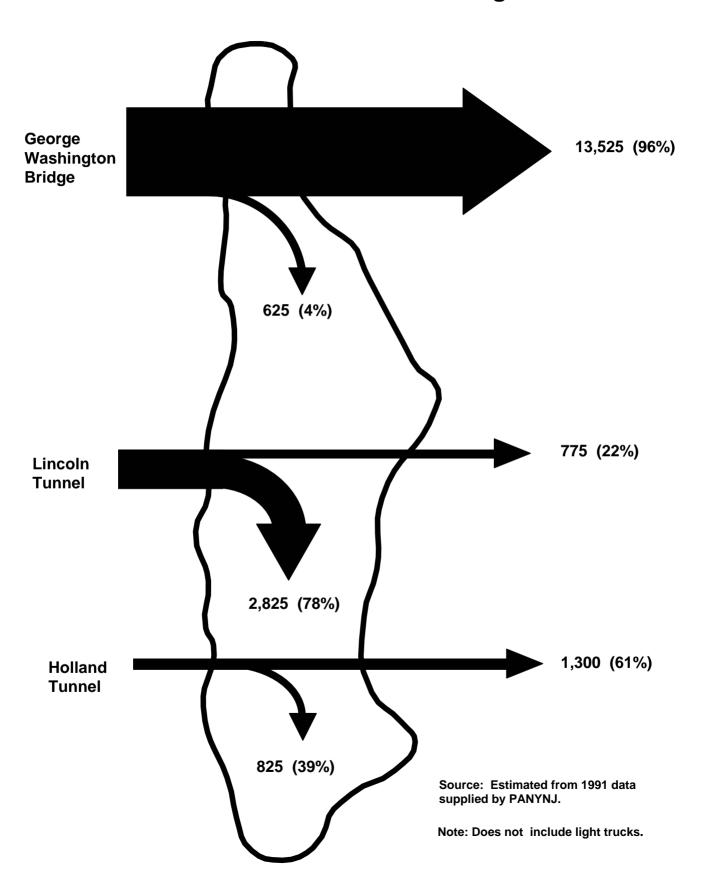
DESTINATIONS OF GEORGE WASHINGTON BRIDGE EASTBOUND AUTO TRAFFIC

1989

Eastbound Auto		- 10		_
Destinations	6-7 am	7-10 am	4-7 pm	5 am - 11 pm
Manhattan				
Midtown	15.6%	17.9%	7.3%	11.8%
Valley	8.5%	7.1%	5.6%	6.9%
Downtown	6.1%	4.2%	1.8%	3.0%
CBD Total	30.2%	29.2%	14.7%	21.7%
OBB Total	JU.2 70	25.270	17.770	21.770
Upper Manhattan	24.9%	26.1%	22.2%	24.7%
Manhattan Tatal	55.40 /	FF 00/	00.00/	40.40/
Manhattan Total	55.1%	55.3%	36.9%	46.4%
Bronx	15.4%	17.4%	16.6%	16.2%
Brooklyn	5.9%	2.6%	4.5%	3.8%
Queens	11.8%	10.0%	15.8%	13.5%
Westchester	4.9%	5.9%	9.4%	7.2%
Long Island	4.7%	6.0%	10.9%	8.2%
Other	2.2%	2.8%	5.9%	4.7%
	,	,	2.270	70
Thru Trip Total	44.9%	44.7%	63.1%	53.6%
GRAND TOTAL	100.0%	100.0%	100.0%	100.0%

Source: PANYNJ, Vehicular Origin and Destination Survey - 1989, May 1990.

2003 Thru vs. Local E/B Truck Trips via Hudson River Crossings



DESTINATIONS OF HUDSON RIVER WEEKDAY EASTBOUND TRUCK TRAFFIC (December 1991)

Destinations	Holland Tunnel	Lincoln Tunnel	G. Washington Bridge
Manhattan	38.91%	78.35%	4.46%
NY City outer boroughs			
Bronx	0.98%	0.29%	16.13%
Brooklyn	34.44%	9.20%	2.68%
Queens	16.67%	6.85%	10.96%
Staten Island	0.08%	0.00%	0.10%
Subtotal outer boroughs	52.18%	16.34%	29.87%
NY City Total	91.07%	94.69%	34.33%
Destinations outside NY City			
Long Island	8.32%	4.73%	17.26%
Westchester	0.21%	0.00%	7.62%
New England	0.23%	0.21%	37.87%
Other	0.16%	0.39%	2.92%
Subtotal outside NY City	8.93%	5.34%	65.67%
Thru Trips Total (non-Manhattan destinations)	61.09%	21.65%	95.54%
GRAND TOTAL	100.00%	100.00%	100.00%

Source: PANYNJ, <u>1991 Truck Origin-Destination Commodity Survey</u>, March 1992.

VEHICLE OCCUPANCY STUDY -- PEAK HOUR INBOUND TO MANHATTAN

Due to changes in travel patterns and restrictions on Manhattan vehicle entries following the events of 9/11/2001, occupancy data collected before 9/11/2001 may no longer be valid. As a result, this table exhibits occupancy data only for crossings surveyed after 9/11/2001. The note "not available post-9/11/2001," appears for other crossings for which occupancy data has traditionally been included in this publication. When new occupancy surveys are completed for those crossings, they will be reinstated in future publications.

VEHICLE OCCUPANCY -- TO MANHATTAN Average Number of Persons per Auto (AM peak)

	Auto Occupancy		Peak Hour	7-10 am Pct.
			Persons	Autos with
	Survey	Date	per Auto	Driver Only
Brooklyn-Battery Tunnel	Spring	2002	1.70	38.8%
Brooklyn Bridge	Fall	2003	1.15	79.9%
Manhattan Bridge	Fall	2003	1.27	71.9%
Williamsburg Bridge	Fall	2003	1.18	81.9%
Holland Tunnel	Fall	2002	1.94	35.0%
Average of 5 Lower Manha	sinas	1.45	60.7%	
, word go or o zower marma		gc		3311 /3
Queens-Midtown Tunnel		not av	vailable post-9/11/20	01
Queensboro Bridge	Fall	2003	1.37	66.0%
Lincoln Tunnel	Fall	2002	1.31	79.4%
		_		
Average of 2 Midtown Mani	hattan Cro	ssings	1.35	72.2%
				0.4
Triborough Bridge			ailable post-9/11/20	
Third Avenue Bridge			ailable post-9/11/20	
Macombs Dam Bridge			ailable post-9/11/20	
Washington Bridge			ailable post-9/11/20	
Henry Hudson Bridge			/ailable post-9/11/20	
George Washington Bridge	Fall	2002	1.34	78.6%
	_			

1.39

69.4%

Overall Average of 8 Manhattan Crossings

Manhattan Crossings 2002-2003 Traffic Volume Trends Both Directions

EAST RIVER BRIDGES	Highway Functional Classification	2002	2003	Percent Change
Brooklyn	Principal Arterial	121,145	134,444	11.0 %
Manhattan	Principal Arterial	66,152	73,767	11.5 %
Queensboro	Principal Arterial	176,419	184,964	4.8 %
Williamsburg	Principal Arterial	103,364	100,243	- 3.0 %
Total East River		467,080	493,418	5.6 %
HARLEM RIVER BRIDGES				
Alexander Hamilton	Interstate	168,079	182,704	8.7 %
Broadway	Principal Arterial	38,287	36,888	- 3.7 %
Macombs Dam	Principal Arterial	18,878	42,254	123.8 %
Madison Avenue	Principal Arterial	49,487	41,575	- 16.0 %
Third Avenue	Principal Arterial	58,949	43,065	- 26.9 %
University Heights	Principal Arterial	45,311	50,126	10.6 %
Washington	Minor Arterial	63,609	63,154	- 0.7 %
Willis Avenue	Principal Arterial	73,435	66,710	- 9.2 %
145th Street	Minor Arterial	35,796	23,034	- 35.7 %
Total Harlem River		551,831	549,510	- 0.4 %
MTABT Manhattan Facilities				
Brooklyn-Battery Tunnel	Interstate	56,976	56,271	- 1.2 %
Henry Hudson Bridge	Principal Arterial	70,731	72,209	2.1 %
Queens-Midtown Tunnel	Interstate	82,834	85,377	3.1 %
Triborough Bridge Manhattan Plaza	Principal Arterial	94,759	93,177	- 1.7 %
Total MTABT Manhattan		305,300	307,034	0.6 %
PANYNJ Manhattan Facilities				
		040 ==4	0.4.0.000	0 7 0/
George Washington Bridge	Interstate	310,771	319,029	2.7 %
Holland Tunnel	Interstate	92,557	101,097	9.2 %
Lincoln Tunnel	Principal Arterial	129,511	127,323	- 1.7 %
Total Manhattan - New Jersey		532,839	547,449	2.7 %

1,857,050

1,897,411

2.2 %

GRAND TOTALS

Manhattan Crossings Hourly Vehicular Volumes 2002 vs 2003

	Inbound			Outbound		
	2002	2003	Percent Change	2002	2003	Percent Change
Mid-1	15,881	15,924	0.3 %	26,244	27,039	3.0 %
1-2 am	10,473	10,271	-1.9 %	16,361	16,510	0.9 %
2-3 am	8,177	8,308	1.6 %	11,424	11,576	1.3 %
3-4 am	8,484	8,591	1.3 %	9,810	9,828	0.2 %
4-5 am	12,744	13,327	4.6 %	12,041	11,845	-1.6 %
5-6 am	31,580	32,024	1.4 %	19,168	19,834	3.5 %
6-7 am	58,440	58,858	0.7 %	33,557	34,776	3.6 %
7-8 am	67,769	67,533	-0.3 %	42,361	44,001	3.9 %
8-9 am	63,970	64,848	1.4 %	43,521	45,176	3.8 %
9-10 am	55,982	56,928	1.7 %	37,983	41,623	9.6 %
10-11 a	48,702	48,866	0.3 %	36,716	39,219	6.8 %
11-Noon	43,936	44,977	2.4 %	36,934	40,414	9.4 %
Noon-1	42,780	43,270	1.1 %	39,232	41,273	5.2 %
1-2 pm	42,397	44,354	4.6 %	42,132	44,523	5.7 %
2-3 pm	46,195	47,821	3.5 %	49,521	50,748	2.5 %
3-4 pm	49,414	51,301	3.8 %	59,119	58,268	-1.4 %
4-5 pm	51,603	52,579	1.9 %	64,019	63,259	-1.2 %
5-6 pm	52,739	54,021	2.4 %	63,440	62,643	-1.3 %
6-7 pm	50,862	51,073	0.4 %	61,359	60,018	-2.2 %
7-8 pm	45,166	45,692	1.2 %	54,972	55,726	1.4 %
8-9 pm	36,097	37,879	4.9 %	48,939	50,541	3.3 %
9-10 pm	32,749	34,298	4.7 %	43,292	44,482	2.7 %
10-11 p	30,004	30,733	2.4 %	39,322	40,391	2.7 %
11-Mid	25,061	24,737	-1.3 %	34,378	35,485	3.2 %
Totals	931,205	948,213	1.8 %	925,845	949,198	2.5 %
7-10am	187,721	189,309	0.8 %	123,865	130,800	5.6 %
10am-1pm	135,418	137,113	1.3 %	112,882	120,906	7.1 %
1-4pm	138,006	143,476	4.0 %	150,772	153,539	1.8 %
4-7pm	155,204	157,673	1.6 %	188,818	185,920	-1.5 %
7am-7pm	616,349	627,571	1.8 %	576,337	591,165	2.6 %

Manhattan Crossings Hourly Vehicular Volumes 1993 vs 2003

	Inbound			Outbound		
	1993	2003	Percent Change	1993	2003	Percent Change
Mid-1	14,140	15,924	12.6 %	24,462	27,039	10.5 %
1-2 am	8,561	10,271	20.0 %	13,993	16,510	18.0 %
2-3 am	6,798	8,308	22.2 %	9,566	11,576	21.0 %
3-4 am	6,490	8,591	32.4 %	7,292	9,828	34.8 %
4-5 am	9,320	13,327	43.0 %	7,962	11,845	48.8 %
5-6 am	21,122	32,024	51.6 %	13,143	19,834	50.9 %
6-7 am	52,347	58,858	12.4 %	27,097	34,776	28.3 %
7-8 am	66,866	67,533	1.0 %	38,599	44,001	14.0 %
8-9 am	65,208	64,848	-0.6 %	41,278	45,176	9.4 %
9-10 am	57,873	56,928	-1.6 %	34,336	41,623	21.2 %
10-11 a	47,917	48,866	2.0 %	34,259	39,219	14.5 %
11-Noon	43,435	44,977	3.6 %	35,212	40,414	14.8 %
Noon-1	41,143	43,270	5.2 %	36,181	41,273	14.1 %
1-2 pm	40,579	44,354	9.3 %	38,802	44,523	14.7 %
2-3 pm	43,408	47,821	10.2 %	45,309	50,748	12.0 %
3-4 pm	46,873	51,301	9.4 %	56,035	58,268	4.0 %
4-5 pm	48,034	52,579	9.5 %	61,294	63,259	3.2 %
5-6 pm	49,498	54,021	9.1 %	61,099	62,643	2.5 %
6-7 pm	47,762	51,073	6.9 %	58,355	60,018	2.8 %
7-8 pm	41,446	45,692	10.2 %	52,870	55,726	5.4 %
8-9 pm	32,779	37,879	15.6 %	46,391	50,541	8.9 %
9-10 pm	29,818	34,298	15.0 %	40,401	44,482	10.1 %
10-11 p	28,948	30,733	6.2 %	37,365	40,391	8.1 %
11-Mid	23,934	24,737	3.4 %	33,808	35,485	5.0 %
Totals	874,299	948,213	8.5 %	855,109	949,198	11.0 %
7-10am	189,947	189,309	-0.3 %	114,213	130,800	14.5 %
10am-1pm	132,495	137,113	3.5 %	105,652	120,906	14.4 %
1-4pm	130,860	143,476	9.6 %	140,146	153,539	9.6 %
4-7pm	145,294	157,673	8.5 %	180,748	185,920	2.9 %
7am-7pm	598,596	627,571	4.8 %	540,759	591,165	9.3 %

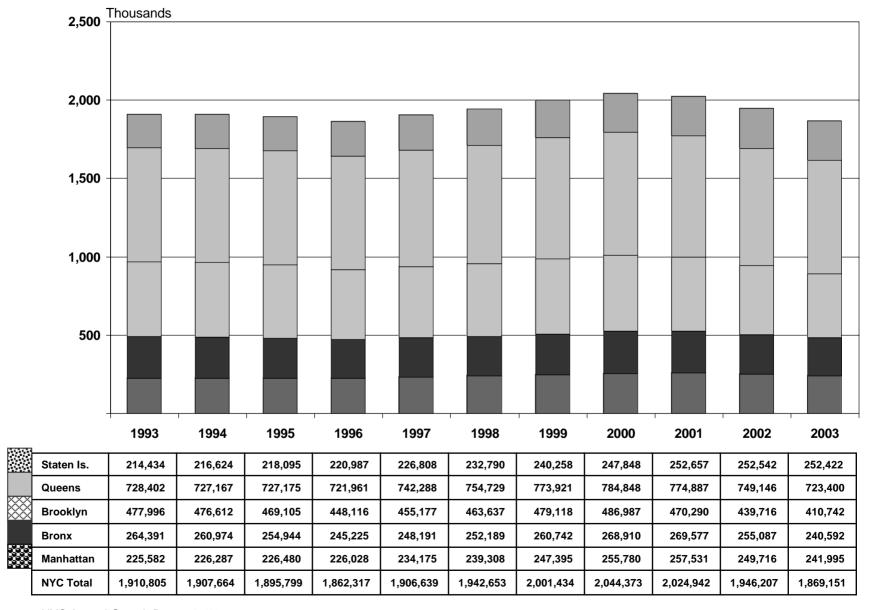
Percent Difference by Period of Day Manhattan Crossings 1993 - 2003

Time Period	To Manhattan	From Manhattan
1am - 4am	24.4 %	22.9 %
4am - 7am	25.9 %	37.9 %
7am - 10am	- 0.3 %	14.5 %
10am - 1pm	3.5 %	14.4 %
1pm - 4pm	9.6 %	9.6 %
4pm - 7pm	8.5 %	2.9 %
7pm - 10pm	13.3 %	7.9 %
10pm - 1am	6.5 %	7.6 %
24 Hour Total	8.5 %	11.0 %

Average Annual Growth Rate by Period of Day Manhattan Crossings 1993 - 2003

Time Period	To Manhattan	From Manhattan
1am - 4am	3.1 %	2.9 %
4am - 7am	1.8 %	3.1 %
7am - 10am	- 0.5 %	0.9 %
10am - 1pm	0.5 %	0.9 %
1pm - 4pm	0.7 %	0.8 %
4pm - 7pm	0.8 %	0.4 %
7pm - 10pm	1.4 %	0.8 %
10pm - 1am	1.1 %	1.2 %
24 Hour Total	0.7 %	1.0 %

New York City Motor Vehicle Registrations 1993-2003

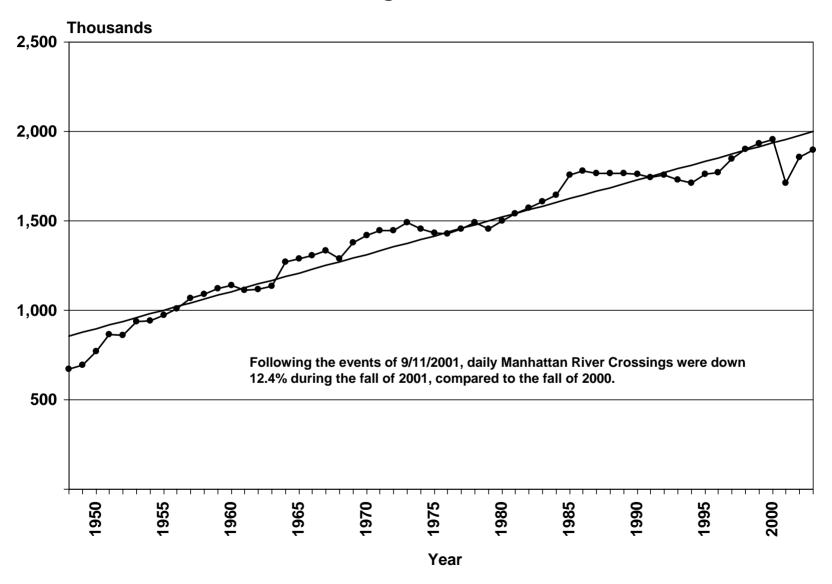


Total Manhattan Crossings Average Daily Traffic Volumes 1948 - 2003

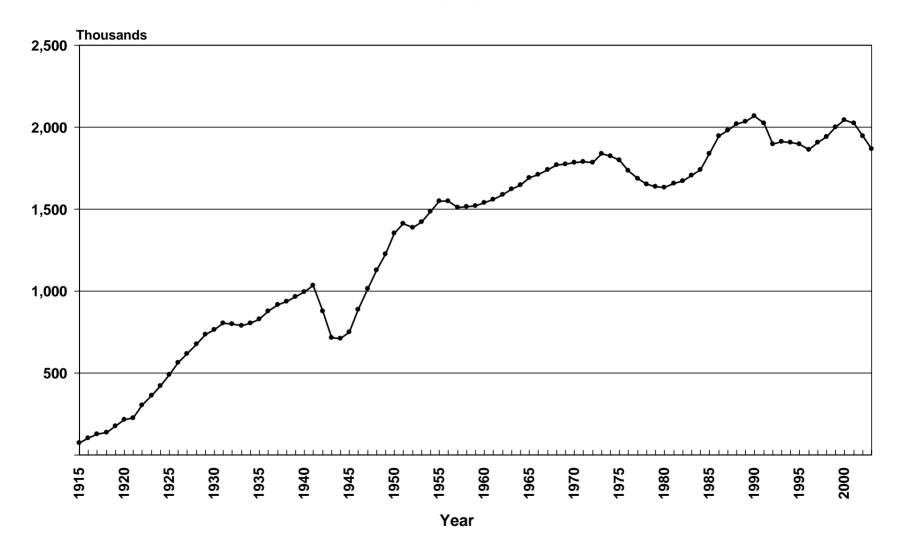
Year	East River Bridges	Harlem River Bridges	M.T.A.B.T. Facilities	P.A.N.Y.N.J. Facilities	Totals
1948	254,068	207,177	92,977	115,785	670,007
1949	260,933	193,510	110,071	129,943	694,457
1950	240,227	222,671	161,856	146,653	771,407
1951	269,352	249,199	180,272	166,150	864,973
1952	261,704	222,196	194,327	181,253	859,480
1953	292,726	248,629	200,535	194,577	936,467
1954	297,903	236,056	204,616	202,394	940,969
1955 1956	293,633 297,866	250,239 266,781	216,835 231,535	211,926 213,088	972,633 1,009,270
1957	297,000	316,530	236,343	218,623	1,068,524
1958	304,470	329,747	232,413	221,494	1,088,124
1959	312,431	342,349	231,501	237,021	1,123,302
1960	322,660	345,199	230,768	239,620	1,138,247
1961	316,813	333,463	227,241	236,833	1,114,350
1962	318,170	313,230	233,010	250,646	1,115,056
1963	333,880	309,090	225,100	265,603	1,133,673
1964	341,030	407,680	236,513	285,824	1,271,047
1965	353,518	401,259	240,949	293,339	1,289,065
1966	355,745	402,487	243,107	303,981	1,305,320
1967	352,936	427,744	244,038	308,153	1,332,871
1968	357,232	362,095	247,924	320,292	1,287,543
1969	379,416	412,992	254,863	329,123	1,376,394
1970	371,743	429,690	271,063	347,838	1,420,334
1971	364,070	432,195	286,692	362,063	1,445,020
1972	390,292	422,364	252,871	378,620	1,444,147
1973 1974	394,290 394,631	449,670 439,112	251,593 242,846	397,203 376,547	1,492,756 1,453,136
1975	404,379	440,354	214,120	374,707	1,433,560
1976	398,248	429,629	217,207	381,250	1,426,334
1977	398,140	442,200	229,766	385,013	1,455,119
1978	400,146	450,758	241,125	399,512	1,491,541
1979	382,028	427,816	251,544	393,724	1,455,112
1980	392,460	446,292	255,858	404,734	1,499,344
1981	395,125	448,323	269,854	427,381	1,540,683
1982	414,984	470,785	253,499	433,744	1,573,012
1983	413,152	491,153	263,510	441,164	1,608,979
1984	428,541	496,949	262,985	453,775	1,642,250
1985	476,032	538,263	275,858	468,452	1,758,605
1986	469,711	546,896	274,693	485,751	1,777,051
1987	460,092	530,228	289,642	486,639	1,766,601
1988	460,858	520,282	293,550	490,179	1,764,869
1989	461,102	539,381 539,563	275,358	487,693 482,243	1,763,534
1990 1991	448,713 447,969	533,368	289,066 295,265	467,501	1,759,585 1,744,103
1992	443,145	537,353	300,203	476,872	1,757,573
1993	431,874	542,306	282,159	473,069	1,729,408
1994	448,263	526,044	263,351	473,799	1,711,457
1995	464,903	521,882	293,574	482,098	1,762,457
1996	463,482	530,950	281,116	493,194	1,768,742
1997	511,410	546,750	283,686	504,788	1,846,634
1998	523,690	560,062	293,990	522,512	1,900,254
1999	516,507	563,182	303,966	549,352	1,933,007
2000	514,767	578,770	313,504	548,465	1,955,506
2001	427,321	568,759	257,937	458,944	1,712,961
2002	467,080	551,831	305,300	532,839	1,857,050
2003	493,418	549,510	307,034	547,449	1,897,411

Average Daily Manhattan River Crossings

1948-2003 Average Annual Growth Rate 1.6%



New York City Motor Vehicle Registrations 1915-2003



Note: As of 1992, registration data are not strictly comparable to earlier data because of a revised method adopted by NY State Department of Motor Vehicles.

10-Year Traffic Growth Rate Trends Manhattan Crossings 1953-2003

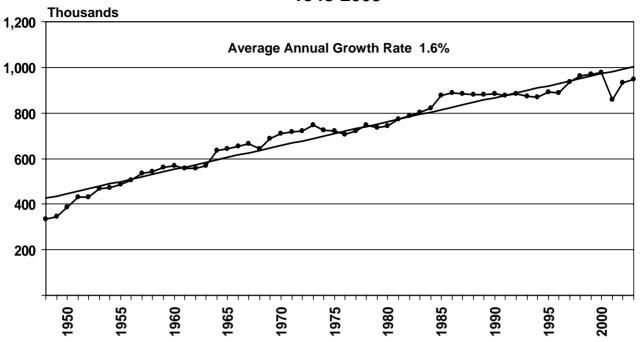
East River Bridges	1953-1963	1963-1973	1973-1983	1983-1993	1993-2003
Brooklyn	11.4%	3.1%	0.8%	1.5%	- 1.1%
Manhattan	- 4.2%	1.9%	1.8%	- 2.4%	- 0.7%
Queensboro	1.3%	1.4%	- 1.1%	- 0.1%	2.4%
Williamsburg	0.3%	- 0.6%	0.5%	0.4%	1.4%
Total	1.3%	1.5%	0.3%	0.1%	0.7%
Harlem River Bridges					
Alexander Hamilton	Opened Ja	nuarv 1963	1.4%	1.2%	- 0.2%
Broadway	3.3%	1.6%	2.4%	2.5%	0.7%
Macombs Dam	3.0%	0.8%	1.3%	- 1.8%	- 2.8%
Madison Avenue	- 1.7%	0.7%	- 0.7%	- 0.4%	8.2%
Third Avenue	6.4%	- 2.2%	0.4%	0.9%	- 1.9%
University Heights	4.3%	2.0%	- 0.2%	- 0.5%	4.3%
Washington	4.0%	1.2%	- 0.5%	2.0%	1.7%
Willis Avenue	4.2%	- 1.9%	0.7%	0.4%	0.3%
145th Street	0.1%	- 2.2%	0.4%	0.3%	2.0%
Total	3.2%	2.0%	0.8%	0.7%	0.7%
MTABT Facilities					
Brooklyn-Battery Tunnel	0.3%	0.7%	2.7%	0.0%	- 2.1%
Henry Hudson Bridge	- 2.6%	- 1.0%	- 1.6%	5.2%	2.5%
Queens-Midtown Tunnel	5.9%	1.8%	1.2%	0.4%	1.4%
Triborough (Manhattan Plz)	1.4%	3.3%	2.0%	0.1%	1.1%
Total	1.1%	1.5%	1.4%	1.0%	0.9%
PANYNJ Facilities					
George Washington Bridge	3.1%	5.7%	1.6%	0.0%	2.4%
Holland Tunnel	0.8%	0.8%	1.5%	2.5%	- 1.1%
Lincoln Tunnel	4.2%	2.3%	1.2%	0.2%	0.5%
Total	2.8%	3.9%	1.5%	0.5%	1.3%
Grand Total	2.1%	2.2%	0.9%	0.5%	0.9%
·	·	·	·	·	·

Average Daily Manhattan River Motor Vehicle Crossings vs. Annual Subway Ridership

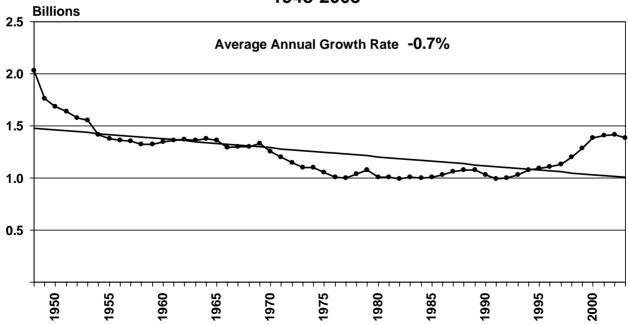
Year 1948	Daily Manhattan River Crossings 670,007	Annual Subway Ridership (millions) 2,031	Year	Daily Manhattan River Crossings	Annual Subway Ridership (millions)
1949	694,457	2,031 1,764			
1950	771,407	1,681			
1951	864,973	1,636	1981	1,540,683	1,011
1952	859,480	1,574	1982	1,573,012	989
1953	936,467	1,552	1983	1,608,979	1,005
1954	940,969	1,416	1984	1,642,250	997
1955	972,633	1,378	1985	1,758,605	1,010
1956	1,009,270	1,363	1986	1,777,051	1,030
1957	1,068,524	1,355	1987	1,766,601	1,058
1958	1,088,124	1,319	1988	1,764,869	1,074
1959	1,123,302	1,324	1989	1,763,534	1,073
1960	1,138,247	1,345	1990	1,759,585	1,028
1961	1,114,350	1,363	1991	1,744,103	995
1962	1,115,056	1,370	1992	1,757,573	997
1963	1,133,673	1,362	1993	1,729,408	1,030
1964	1,271,047	1,375	1994	1,711,457	1,081
1965	1,289,065	1,363	1995	1,762,457	1,093
1966	1,305,320	1,296	1996	1,768,742	1,110
1967	1,332,871	1,298	1997	1,846,634	1,130
1968	1,287,543	1,303	1998	1,900,254	1,199
1969	1,376,394	1,330	1999	1,933,007	1,283
1970	1,420,334	1,258	2000	1,955,506	1,381
1971	1,445,020	1,197	2001	1,712,961	1,405
1972 1973	1,444,147 1,492,756	1,145 1,102	2002 2003	1,857,050	1,413
1973	1,453,136	1,102	2003	1,897,411	1,384
1975	1,433,560	1,054			
1976	1,426,334	1,010			
1977	1,455,119	998			
1978	1,491,541	1,042			
1979	1,455,112	1,077			
1980	1,499,344	1,009			
Percent					
Changes	Average Daily	Annual Subway		Average Daily	Annual Subway
Period	Crossings	Ridership	Period	Crossings	Ridership
1950-1960	+ 47.6 %	- 20.0 %	1990-2000	+ 11.1 %	+ 34.3 %
1960-1970	+ 24.8 %	- 6.5 %	2000-2003	- 3.0 %	+ 0.2 %
1970-1980 1980-1990	+ 5.6 % + 17.4 %	- 19.8 % + 1.9 %	1948-2003	+183.2 %	- 31.9 %

Source for Annual Subway Ridership: MTA

Daily Traffic Flow to Manhattan



N.Y.C. Annual Subway Passengers



PAST & PRESENT PASSENGER CAR TOLL STRUCTURES

MTA BRIDGES & TUNNELS FACILITIES

Tolls collected both directions

	Brooklyn Battery Tunnel	Queens Midtown Tunnel	Triboroug Bridge	Henry h Hudson Bridge
Prior to Jan. 1972	\$ 0.35	\$ 0.25	\$ 0.25	\$ 0.10
Jan. 1972	0.70	0.50	0.50	0.25
Sep. 1975	0.75	0.75	0.75	0.50
May 1980	1.00	1.00	1.00	0.60
Apr. 1982	1.25	1.25	1.25	0.90
Jan. 1984	1.50	1.50	1.50	0.90
Jan. 1986	1.75	1.75	1.75	1.00
Feb. 1987	2.00	2.00	2.00	1.00
July 1989	2.50	2.50	2.50	1.25
Jan. 1993	3.00	3.00	3.00	1.50
Mar. 1996	3.50	3.50	3.50	1.75
May 2003	4.00	4.00	4.00	2.00

\$0.50 discount on all MTABT facilities with EZ Pass.

PORT AUTHORITY OF NEW YORK & NEW JERSEY Tolls collected eastbound only

	George Washington Bridge	Holland Tunnel	Lincoln Tunnel
Aug. 1970	\$ 1.00	\$ 1.00	\$ 1.00
May 1975	1.50	1.50	1.50
Jan. 1984	2.00	2.00	2.00
Apr. 1987	3.00	3.00	3.00
Apr. 1991	4.00	4.00	4.00
Mar. 2001	6.00	6.00	6.00

^{\$1.00} discount on PANYNJ facilities with *EZ Pass* weekdays 6-9am & 4-7pm, and weekends noon-8pm.

One way toll collection system initiated on PANYNJ facilities August 12, 1970. Prior to that, tolls of \$ 0.50 were collected each way from date each facility opened.

^{\$2.00} discount on PANYNJ facilities with EZ Pass during all other hours.

East River Bridges Average Daily Traffic Volumes 1948 - 2003

Year	Brooklyn Bridge	Manhattan Bridge	Queensboro Bridge	Williamsburg Bridge	Totals
1948	37,011	86,717	83,201	47,139	254,068
1949	37,244	80,420	88,821	54,448	260,933
1950	13,397	84,027	84,863	57,940	240,227
1951	14,865	100,826	90,922	62,739	269,352
1952	16,907	96,476	85,748	62,573	261,704
1953	14,513	94,320	106,391	77,502	292,726
1954	42,455	77,698	101,285	76,465	297,903
1955	53,964	66,968	91,958	80,743	293,633
1956	54,981	69,656	90,786	82,443	297,866
1957	23,852	89,793	93,676	89,707	297,028
1958	43,089	82,128	100,555	78,698	304,470
1959	53,115	74,329	103,522	81,465	312,431
1960	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 1967	89,124	63,693 75,744	122,896	80,032	355,745
	87,387	75,741	124,033	65,775	352,936
1968	72,475	79,906	130,777	74,074	357,232
1969 1970	97,565 100,050	75,473 72,077	132,553 126,554	73,825 73,062	379,416 371,743
1970	102,535	68,681	120,555	72,299	364,070
1971	102,535	73,803	136,455	76,219	390,292
1973	103,813	73,401	138,066	79,989	394,290
1974	99,959	73,401	138,560	78,914	394,631
1975	103,750	74,320	144,252	82,057	404,379
1976	102,590	68,057	145,130	82,471	398,248
1977	104,532	64,835	146,283	82,490	398,140
1978	104,848	74,257	138,415	82,626	400,146
1979	91,319	75,403	133,966	81,340	382,028
1980	103,954	77,914	127,929	82,663	392,460
1981	102,572	79,589	127,864	85,100	395,125
1982	110,991	87,760	136,864	79,369	414,984
1983	115,825	85,222	125,158	86,947	413,152
1984	110,432	89,104	134,107	94,898	428,541
1985	116,929	100,825	150,892	107,386	476,032
1986	126,555	77,784	158,191	107,181	469,711
1987	123,523	77,519	151,688	107,362	460,092
1988	129,153	75,221	153,841	102,643	460,858
1989	131,951	68,593	152,591	107,967	461,102
1990	129,626	69,550	140,063	109,474	448,713
1991	128,491	72,695	131,438	115,345	447,969
1992	125,643	78,117	141,078	98,307	443,145
1993	134,793	74,526	135,964	86,591	431,874
1994	134,837	78,418	151,483	83,525	448,263
1995	131,883	75,126	157,306	100,588	464,903
1996	131,872	81,075	161,965	88,570	463,482
1997	147,898	83,209	184,179	96,124	511,410
1998	144,131	78,172	192,119	109,268	523,690
1999	127,065	92,311	189,190	107,941	516,507
2000	147,767	75,684	182,940	108,376	514,767
2001	95,586	73,064	176,469	82,202	427,321
2002	121,145	66,152	176,419	103,364	467,080
2003	134,444	73,767	184,964	100,243	493,418

Houry Vehicular Volumes Brooklyn Bridge - 2003

Eastbound to Brooklyn Westbound to Manhattan

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

Based on October 1996 Classification Survey Data

Houry Vehicular Volumes Manhattan Bridge - 2003

Eastbound to Brooklyn Westbound to Manhattan Commuter Commercial 2-Way Commuter Commercial **Buses** Autos **Buses** Vans Trucks Vans Totals Autos Vans Trucks Vans Totals **Totals** 12-1am 1,575 ---969 2,544 ------------------1-2am 978 663 1,641 ------------------------------711 2-3am 565 1,276 ------------3-4am 598 549 1,147 ------4-5am 644 771 1.415 706 5-6am 1,329 2,035 ------------------------------6-7am 1,156 ---1,992 3.148 ------------------7-8am 665 54 134 389 131 1,373 1,479 95 215 444 394 2,627 ** 4,000 1.681 8-9am 773 140 138 470 160 1,301 38 216 473 484 2,512 4.193 9-10am 539 85 164 490 187 1.465 952 33 158 578 453 2.174 3.639 30 1,809 10-11am 545 23 152 488 220 1,428 669 140 623 347 3,237 25 29 11-12am 583 152 498 240 1,498 685 151 540 348 1,753 3,251 12-1pm 551 21 105 466 321 1,464 779 37 198 503 202 1,719 3,183 603 374 35 1,465 1-2pm 28 218 514 1,737 666 140 455 169 3,202 2-3pm 698 20 231 470 357 1,776 763 26 107 378 305 1,579 3,355 71 290 392 2,176 820 1,580 3-4pm 916 507 43 180 290 247 3,756 4-5pm 1,188 59 273 467 550 2,537 847 23 99 258 1,446 3,983 219 5-6pm 1.331 44 255 408 552 2,590 ** 970 37 158 203 175 1,543 4.133 6-7pm 1,356 41 350 367 371 2,485 1,094 23 126 140 146 1,529 4,014 2.176 1,383 7-8pm 3.559 ------------------------8-9pm 2,004 ---1,321 3,325 ------------9-10pm 1.803 1,363 3.166 10-11pm 1,812 1,507 3,319 ------------------------------11-12pm 1,787 1,459 3,246 ------------------------------**Totals** 35,607 38,160 73,767 ------------------------------

3,732

2,133

2,249

2,911

11,025

166

96

104

83

449

589

489

427

383

1,888

1,495

1,666

1,123

4,885

601

1,331

897

721

540

3,489

7,313

5,281

4,624

4.518

21,736

478

781

1,123

1.473

3,855

4,519

4,390

5,689

7,612

22,210

Based on October 1996 Classification Survey Data

279

69

119

144

611

436

409

739

878

2,462

1,349

1,452

1,491

1.242

5,534

1,977

1,679

2,217

3.875

9.748

7-10am

1-4pm

4-7pm

10am-1pm

7am-7pm

11,832

9,671

10,313

12.130

43.946

Houry Vehicular Volumes Queensboro Bridge - 2003

Eastbound to Queens Westbound to Manhattan Commuter Commercial 2-Way Commuter Commercial **Buses** Autos **Buses** Vans Trucks Vans Totals Autos Vans Trucks Vans Totals **Totals** 12-1am 4,243 ---2,012 6,255 ---------------------1-2am 2,690 1,396 4,086 ------------------------------2-3am 1,657 ---1,096 2,753 ------------3-4am 1,301 1,284 2,585 ------4-5am 1.492 2.092 3.584 2,207 5-6am 4,219 6,426 ------------------------------6-7am 3.201 ---6.647 9.848 ------------------7-8am 2,650 123 259 107 177 3,316 5,413 113 300 302 776 6,904 ** 10,220 2.881 5,883 8-9am 2.174 164 235 164 144 4.270 66 294 358 895 8.764 9-10am 1.843 171 210 224 182 2.630 3.513 58 356 296 698 4.921 7,551 10-11am 2,507 80 186 229 315 3,317 2,952 60 264 369 566 4,211 7,528 11-12am 235 3,683 2,622 78 288 460 2,898 88 306 302 455 4,049 7,732 12-1pm 2,885 90 208 201 480 3,864 3,095 48 245 226 331 3,945 7,809 4,062 4,186 1-2pm 2,808 68 343 309 534 3,286 102 253 257 288 8,248 2-3pm 3,417 70 209 381 505 4,582 3,419 72 256 204 456 4,407 8,989 4,404 426 323 3-4pm 144 163 580 5,717 3,818 43 287 153 4,624 10,341 6,263 ** 4-5pm 4,847 175 185 433 623 3,832 37 225 127 234 4,455 10,718 5-6pm 4.739 203 186 333 551 6.012 4.208 35 163 59 166 4,631 10.643 6-7pm 4,525 171 250 106 376 5,428 3,845 57 238 74 184 4,398 9,826 4.851 4.182 7-8pm 9.033 ------------------------8-9pm 4,871 ---3,564 8,435 ---------------4.624 9-10pm 3,455 8.079 10-11pm 4.544 3,391 7,935 ------------------------------11-12pm 4,677 2,899 7,576 ------------------------------**Totals** 92,113 92,851 184,964 ------------------------------7-10am 495 13,196 237 950 6,667 458 704 503 8,827 956 2,369 17,708 26,535 10am-1pm 8,014 248 682 665 1,255 10,864 8,945 196 815 897 1,352 12,205 23,069 1-4pm 10,629 282 715 1,116 1,619 14,361 10,523 217 796 614 1,067 13,217 27,578 14.111 4-7pm 549 621 872 1.550 17,703 11,885 129 626 260 584 13.484 31,187

44,549

779

3,187

2,727

5,372

56,614

Based on October 1996 Classification Survey Data

39,421

7am-7pm

1,537

2.722

3.148

4,927

51,755

108,369

Houry Vehicular Volumes Williamsburg Bridge - 2003

Eastbound to Brooklyn

Westbound to Manhattan

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

Harlem River Bridges Average Daily Traffic Volumes 1948 - 2003

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	16,374	31,072	33,576	51,478
1952	Opened	17,412	36,100	27,468	34,023
1953	Jan. 1963	16,821	35,331	24,382	37,593
1954		15,958	27,911	23,408	33,667
1955		17,046	27,914	34,681	38,201
1956		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 1963		19,170	39,580	25,400	53,580
1964	07.040	23,110 25,020	43,450	27,090 31,170	63,840
1965	87,840 125,133	17,555	31,050 37,451	26,315	63,250 55,644
1966		22,438		·	
1967	104,559 135,803	22,436 22,844	39,922 35,595	28,865 27,683	70,938 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 1996	175,279	42,555	41,571	22,739 17,948	68,663 67,206
1996	176,856 176,102	40,040 34,645	40,031 44,033		67,206 71,365
1998	176,102	34,645 35,770	44,033 42,027	28,646 32,922	71,365 70,757
1999	180,201	35,770 35,412	41,813	38,102	68,544
2000	177,899	37,990	21,008	47,583	73,121
2001	168,605	41,175	39,615	43,331	72,756
2002	168,079	38,287	18,878	49,487	58,949
2002	182,704	36,888	42,254	41,575	43,065
2000	102,104	55,555	72,207	71,070	75,005

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

	University	144 4 4 4	Willis	145th	-
Year	Heights	Washington	Avenue	Street	Totals
1948	21,706	29,374	29,648	18,196	207,177
1949	14,098	32,122	42,772	25,908	193,510
1950	24,986	29,541	38,708	22,416	222,671
1951	25,270	28,599	35,958	26,872	249,199
1952 1953	21,527 29,240	28,270 37,298	33,207 38,579	24,189 29,385	222,196 248,629
1954	22,979	37,296 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 1967	25,700 26,990	31,104 33,921	53,677 69,609	25,284 22,368	402,487 427,744
1968	26,126	35,921	58,730	22,853	362,095
1969	29,941	19,136	60,192	24,200	412,992
1970	26,718	33,661	61,433	23,580	429,690
1971	29,622	38,522	53,609	24,401	432,195
1972	31,620	36,812	49,431	23,105	422,364
1973	33,503	46,079	51,537	23,431	449,670
1974	29,297	42,014	53,322	21,616	439,112
1975	29,111	41,522	52,984	21,189	440,354
1976	34,494	39,058	53,873	19,750	429,629
1977	29,128	38,185	52,484	20,888	442,200
1978	35,883	37,690	54,335	21,484	450,758
1979	31,796	37,348	44,851	21,566	427,816
1980 1981	32,562 34,454	38,061 38,061	52,061 52,561	21,826 21,150	446,292 448,323
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 1994	38,895 38,134	52,795 57,009	70,472 67,344	25,390 23,299	542,306 526,044
1995	21,238	56,372	67,716	25,749	521,882
1996	35,280	56,204	70,229	27,156	530,950
1997	39,639	54,708	73,461	24,151	546,750
1998	41,640	57,307	78,145	24,862	560,062
1999	42,287	58,907	71,555	26,361	563,182
2000	45,557	68,075	73,175	34,362	578,770
2001	46,381	57,443	72,901	26,552	568,759
2002	45,311	63,609	73,435	35,796	551,831
2003	50,126	63,154	66,710	23,034	549,510

Hourly Vehicular Volumes Alexander Hamilton Bridge - 2003

Eastbound to Bronx Westbound to Manhattan Commercial 2-Way Commuter Commuter Commercial **Totals** Autos **Buses** Vans Trucks Vans Totals Autos Buses Vans Trucks Vans Totals 12-1am 1,551 2,068 3,619 1-2am 1.404 1,406 2,810 2-3am 1,500 1,391 2,891 ------------3-4am 1,715 1,493 3,208 ---------------------2,301 1,899 4,200 ---------------5-6am 3,692 3,358 7,050 ------------------------10,427 6-7am 5,415 5,012 10,575 7-8am 4,322 250 826 125 5,537 10 224 5,038 14 4,260 91 453 5,113 ** 3,767 5 8-9am 246 946 220 5,184 4,372 36 36 508 161 10,297 5 9,645 9-10am 3,673 235 1,203 132 5,248 3,382 48 28 742 197 4,397 4,388 3 4.887 3,908 9,403 10-11am 104 343 49 27 17 422 142 4.516 11-12am 3,479 11 250 774 128 4.642 3,262 14 21 1,017 289 4,603 9,245 3,971 4.580 3,593 9 502 8,821 12-1pm 0 112 448 49 10 127 4,241 1-2pm 3.465 8 165 826 82 4.546 3.656 13 26 950 248 4.893 9,439 3,683 6 196 764 4,757 3,639 20 45 976 4,876 9,633 2-3pm 108 196 4,084 82 319 89 4,581 4,033 22 16 474 4,632 9,213 3-4pm 87 4-5pm 3,782 5 142 473 108 4,510 3,590 4 41 906 219 4,760 9,270 9,478 5-6pm 4,078 5 114 384 95 4,676 3,766 2 31 839 164 4,802 6-7pm 3,919 9 205 449 79 4,661 3 22 456 9,034 3,761 131 4,373 8,662 7-8pm 4,185 4,477 ------------------------3,814 7,897 8-9pm 4,083 ------------------------------3.489 3.602 7.091 9-10pm ------------10-11pm 2,957 3,181 6,138 ------11-12pm 2,012 2,646 4,658 91,844 **Totals** 90,860 182,704 7-10am 11,762 24 731 2,975 477 15,969 12,014 94 155 1,703 582 14,548 30,517 10am-1pm 11,838 14 466 1,565 226 14,109 10,763 51 47 1,941 558 13,360 27,469 1,909 11,328 1-4pm 11,232 21 443 279 13,884 55 87 2,400 531 14,401 28,285 11,779 19 1,306 13,935 4-7pm 461 282 13,847 11,117 94 2,201 514 27,782

45,222

209

383

8,245

2,185

56,244

78

2,101

46,611

7am-7pm

7,755

1,264

57,809

114,053

Based on 1989 Classification Survey Data

Hourly Vehicular Volumes Broadway Bridge - 2003

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

Based on 1989 Classification Survey Data

Hourly Vehicular Volumes Macombs Dam Bridge - 2003

Eastbound to Bronx Westbound to Manhattan Commercial Commercial 2-Way Commuter Commuter **Totals** Autos **Buses** Vans Trucks Vans Totals Autos Buses Vans Trucks Vans Totals 12-1am 439 430 869 1-2am 222 231 453 384 2-3am 195 189 ---------3-4am 162 151 313 ---------------4-5am 179 138 317 ------5-6am 256 347 603 ------------------------6-7am 551 915 1,466 7-8am 776 32 20 71 947 38 6 84 225 1,536 2,483 48 1,183 2 2,695 58 8-9am 950 13 17 97 1,135 1,268 11 100 179 1,560 889 9-10am 761 17 12 48 51 999 21 14 116 189 1,339 2,228 10-11am 7 2 30 786 903 7 1,797 710 37 8 39 54 1.011 11-12am 665 8 11 55 65 804 782 6 12 69 77 946 1,750 813 27 36 892 902 17 3 979 1,871 12-1pm 10 6 18 39 8 1-2pm 907 3 28 25 969 1.005 20 22 81 1.136 2,105 885 14 70 76 1,067 1,204 26 18 59 104 2,478 2-3pm 22 1,411 1,073 22 10 58 68 1,231 1,383 42 12 26 2,746 3-4pm 52 1,515 4-5pm 1,042 9 34 89 169 1,343 1,350 12 37 49 91 1,539 2,882 1,396 ** 2,958 5-6pm 1,173 10 16 42 155 1,433 16 12 23 78 1,562 2,550 6-7pm 3 7 28 1,262 8 13 26 88 1,288 1,177 47 1,153 2,389 7-8pm 1,147 1,242 ------------------1,046 2,154 8-9pm 1,108 ---------------------------9-10pm 922 879 1,801 ------------10-11pm 776 820 1,596 ------665 701 11-12pm 1,366 Totals 19,281 22,973 42,254 7-10am 2,487 62 49 154 219 2,971 3,450 70 22 300 593 4,435 7,406 10am-1pm 2,188 25 19 112 138 2,482 2,587 31 22 126 170 2,936 5,418 1-4pm 2,865 39 38 156 169 3,267 3,592 88 38 107 237 4,062 7,329 4-7pm 3,392 22 57 36 159 371 4,001 3,936 62 98 257 4,389 8,390

13,565

225

144

631

1,257

15,822

897

12,721

148

163

581

10,932

7am-7pm

28,543

Based on 1989 Classification Survey Data

Hourly Vehicular Volumes Madison Avenue Bridge - 2003

Eastbound to Bronx Westbound to Manhattan Commuter Commercial Commuter Commercial 2-Wav Buses Vans Trucks Vans Totals **Buses** Vans Trucks Vans **Totals Totals** Autos Autos 12-1am 395 354 749 1-2am 228 221 449 ---------2-3am 178 322 144 ---------255 3-4am 117 138 339 4-5am 122 217 ------------------------------5-6am 194 577 771 ------------------------------6-7am 519 1,454 1,973 ---------------------------7-8am 79 922 1,993 2,915 718 36 47 42 1,632 130 18 66 147 2,918 52 50 975 8-9am 765 68 40 1,540 128 36 158 1,943 81 9-10am 543 48 70 58 36 755 1,022 73 41 2,203 177 135 1.448 10-11am 520 24 31 23 29 627 943 79 26 26 85 1,159 1,786 11-12am 68 62 621 859 33 419 17 55 44 85 108 1,129 1,750 12-1pm 591 19 23 28 30 691 1.008 45 34 41 73 1.201 1,892 22 24 33 758 72 37 1-2pm 643 36 1.064 20 57 1.250 2,008 2-3pm 624 24 55 76 77 856 1,096 92 38 1,372 2,228 41 105 3-4pm 961 20 30 54 50 1,115 1,239 86 25 33 56 1,439 2,554 91 36 4-5pm 974 24 110 108 1,307 1,346 83 32 59 1,556 2,863 5-6pm 1,070 29 92 75 71 1,337 1,335 60 42 33 51 1,521 2,858 938 55 37 1,141 1,309 30 1,445 2,586 6-7pm 48 63 52 26 28 7-8pm 984 1,196 2,180 ------------------8-9pm 934 940 1,874 1,522 9-10pm 734 788 ---------627 1,388 10-11pm 761 ------------558 11-12pm 634 1,192 ---------------Totals 16,661 24,914 41.575 ------7-10am 2,026 136 217 145 128 2,652 4,194 331 95 324 440 5,384 8,036 10am-1pm 1,530 60 109 119 121 1,939 2,810 157 104 152 266 3,489 5,428 163 2,729 3,399 250 1-4pm 2,228 66 109 163 100 94 218 4,061 6,790 4-7pm 2,982 108 239 214 242 3,785 3,990 195 91 138 4,522 8,307 108

14,393

933

407

661

1,062

17,456

370

674

641

654

11,105

8,766

7am-7pm

28,561

Based on 1989 Classification Survey Data

Hourly Vehicular Volumes Third Avenue Bridge - 2003

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

Hourly Vehicular Volumes University Heights Bridge - 2003

Eastbound to Bronx Westbound to Manhattan Commuter Commercial Commuter Commercial 2-Way Autos **Buses** Vans Trucks Vans Totals Autos **Buses** Vans Trucks Vans Totals **Totals** 12-1am 620 571 1,191 ------1-2am 409 312 721 ------2-3am 296 244 540 ---3-4am 163 199 362 206 552 4-5am 346 292 5-6am 792 1,084 ------------------------------662 6-7am 1,424 2,086 ------------7-8am 772 54 99 48 50 1,023 1,659 27 43 48 136 1,913 2,936 1,942 ** 8-9am 892 10 94 67 86 1.149 1,684 17 36 68 137 3,091 9-10am 695 9 69 79 80 932 1,160 15 19 59 117 1,370 2,302 10-11am 847 4 44 42 34 971 1,242 5 5 34 74 1,360 2,331 11-12am 709 8 74 86 43 920 1.157 9 16 73 104 1.359 2,279 12-1pm 855 14 26 29 24 948 1.333 3 7 37 64 1.444 2,392 6 1-2pm 1.024 51 50 39 31 1.195 1,514 5 28 51 1.604 2,799 980 15 83 61 58 1.197 1,498 14 29 67 142 1.750 2,947 2-3pm 1,138 19 26 33 32 1,248 59 8 36 3,101 3-4pm 1,676 74 1,853 993 5 61 46 35 1,140 1,704 26 24 35 3,055 4-5pm 126 1,915 1,090 33 50 1,242 20 3,021 5-6pm 0 69 1,666 1 18 74 1,779 23 1,253 ** 1,093 0 68 69 9 13 12 72 2,904 6-7pm 1,545 1,651 1,219 7-8pm 1,492 2,711 ---------8-9pm 1,147 1,258 2,405 ------------------1,020 2,046 9-10pm 1,026 ------870 10-11pm 926 1,796 ------------------------------11-12pm 744 730 1,474 ---Totals 20,866 29,260 50,126 ---7-10am 2.359 262 5.225 8.329 73 194 216 3.104 4.503 59 98 175 390 10am-1pm 2,411 26 144 157 101 2.839 3,732 17 28 144 4,163 7,002 242 4,688 78 1-4pm 3,142 85 159 133 121 3.640 43 131 267 5.207 8,847 4-7pm 3,176 5 198 102 154 3,635 4,915 36 57 65 272 5,345 8,980 592 190 33,158 7am-7pm 11,088 189 763 586 13.218 17.838 226 515 1,171 19.940

Hourly Vehicular Volumes Washington Bridge - 2003

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

Hourly Vehicular Volumes Willis Avenue Bridge - 2003

_	Northbound to Bronx						Southbound to Manhattan						
_		(Commute	er C	ommerci	al		(Commute	er Co	mmercia	ıl	2-Way
	Autos	Buses	Vans	Trucks	Vans	Totals	Autos	Buses	Vans	Trucks	Vans	Totals	Totals
12-1am						2,160						0	2,160
1-2am						1,181						0	1,181
2-3am						779						0	779
3-4am						669	This brid	ge is nori	mally 1-	way		0	669
4-5am						785	northbou	nd to The	e Bronx.			0	785
5-6am						1,448						0	1,448
6-7am						2,454	758	0	0	0	0	758	3,212
7-8am	2,430	72	113	141	98	2,854	734	0	0	0	0	734	3,588
8-9am	2,290	97	85	165	201	2,838	759	0	0	0	0	759 **	3,597
9-10am	1,982	116	97	237	219	2,651	621	0	0	0	0	621	3,272
10-11am	2,181	51	70	164	154	2,620						0	2,620
11-12am	2,034	36	120	292	270	2,752						0	2,752
12-1pm	2,467	42	52	152	103	2,816	In 2003, c	ne lane v	vas reve	ersed to		0	2,816
1-2pm	2,699	25	41	113	143	3,021	southbou	ınd 6-10a	m week	days (for		0	3,021
2-3pm	2,542	31	124	365	369	3,431	passenge	er cars or	nly) in o	rder tc		0	3,431
3-4pm	3,493	63	60	168	163	3,947	compens	ate for re	constru	ction lan	€	0	3,947
4-5pm	3,131	36	120	268	421	3,976	closures	on the Th	hird Ave	nue Brid	ge	0	3,976
5-6pm	3,283	58	109	183	404	4,037 **						0	4,037 **
6-7pm	3,326	32	101	117	225	3,801						0	3,801
7-8pm						3,772						0	3,772
8-9pm						3,390						0	3,390
9-10pm						3,082						0	3,082
10-11pm						2,827						0	2,827
11-12pm						2,547						0	2,547
Totals						63,838						2,872	66,710
7-10am	6,702	285	295	543	518	8,343	2,114	0	0	0	0	2,114	10,457
10am-1pm	6,682	129	242	608	527	8,188	0	0	0	0	0	0	8,188
1-4pm	8,734	119	225	646	675	10,399	0	0	0	0	0	0	10,399
4-7pm	9,740	126	330	568	1,050	11,814	0	0	0	0	0	0	11,814
7am-7pm	31,858	659	1,092	2,365	2,770	38,744	2,114	0	0	0	0	2,114	40,858

Hourly Vehicular Volumes 145th Street Bridge - 2003

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

Manhattan MTABT Facilities Average Daily Traffic Volumes 1948 - 2003

1948 Opened 40,050 26,462 26,465 92,977 1949 05/25/1950 47,472 30,045 32,554 110,071 1950 37,258 53,559 34,044 36,995 161,856 1951 41,253 57,700 36,680 44,639 180,272 1952 45,366 61,592 38,866 48,503 194,327 1953 47,999 65,432 38,509 48,595 200,535 1954 45,120 69,025 38,185 52,286 204,616 1955 45,843 71,240 39,839 59,913 216,835 1956 48,054 69,477 49,544 64,460 231,535 1957 54,490 62,865 54,311 64,677 236,343 1958 54,893 57,321 58,321 62,982 232,413 1959 49,468 56,529 61,115 64,389 231,501 1960 48,173 59,548 65,29<	Year	Brooklyn- Battery Tunnel	Henry Hudson Bridge	Queens- Midtown Tunnel	Triborough Bridge Manh. Plz.	Manhattan Totals
1949	1948	Opened	40.050	26.462	26.465	92.977
1950 37,258 53,559 34,044 36,995 161,856 1951 41,253 57,700 36,680 44,639 180,272 1952 45,366 61,592 38,866 48,503 194,327 1953 47,999 65,432 38,509 48,595 200,535 1954 45,120 69,025 38,185 52,286 204,616 1955 45,843 71,240 39,839 59,913 216,835 1956 48,054 69,477 49,544 64,460 231,535 1956 53,789 57,321 58,321 62,982 232,413 1958 53,789 57,321 58,321 62,982 232,413 1960 48,970 56,675 62,008 63,115 230,768 1961 48,173 59,548 65,038 60,251 233,010 1963 48,271 52,803 63,038 60,988 225,100 1964 51,893 50,768 67,713 <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td>		•				
1951 41,253 57,700 36,680 44,639 180,272 1952 45,366 61,592 38,866 48,503 194,327 1953 47,999 65,432 38,509 48,595 200,535 1954 45,120 69,025 38,185 52,286 204,616 1955 45,843 71,240 39,839 59,913 216,835 1956 48,054 69,477 49,544 64,460 231,535 1957 54,490 62,865 54,311 64,677 236,343 1958 53,789 57,321 58,321 62,982 232,413 1959 49,468 56,529 61,115 64,389 231,501 1960 48,970 56,675 62,008 63,115 230,768 1961 48,197 57,140 62,301 59,603 227,241 1962 48,173 59,548 65,038 60,251 233,010 1963 48,271 52,83 63,038 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
1953 47,999 65,432 38,509 48,595 200,535 1954 45,120 69,025 38,185 52,286 204,616 1955 45,843 71,240 39,839 59,913 216,835 1956 48,054 69,477 49,544 64,460 231,535 1957 54,490 62,865 54,311 62,982 232,413 1958 53,789 57,321 58,321 62,982 232,413 1959 49,468 56,529 61,115 64,389 231,501 1960 48,970 56,675 62,008 63,115 230,788 1961 48,197 57,140 62,301 59,603 227,241 1962 48,173 59,548 65,038 60,251 233,010 1964 51,893 50,768 67,713 66,139 226,510 1964 51,893 50,768 67,713 66,139 236,513 1965 56,455 45,353 69,856 <td></td> <td>•</td> <td></td> <td>•</td> <td></td> <td>·</td>		•		•		·
1954 45,120 69,025 38,185 52,286 204,616 1955 45,843 71,240 39,839 59,913 216,835 1956 48,054 69,477 49,544 64,460 231,535 1957 54,490 62,865 54,311 64,677 236,343 1958 53,789 57,321 58,321 62,982 232,413 1958 49,468 56,529 61,115 64,389 231,501 1960 48,970 56,675 62,008 63,115 230,768 1961 48,197 57,140 62,301 59,603 227,241 1962 48,173 59,548 65,038 60,251 233,010 1963 48,271 52,803 63,038 60,281 233,010 1963 48,271 52,803 63,038 60,281 233,010 1965 56,455 45,353 69,386 69,755 240,949 1966 57,674 44,043 69,850 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
1955 45,843 71,240 39,839 59,913 216,835 1956 48,054 69,477 49,544 64,460 231,535 1957 54,490 62,865 54,311 64,677 236,343 1958 53,789 57,321 58,321 62,982 232,413 1959 49,468 56,529 61,115 64,389 231,501 1960 48,970 56,675 62,008 63,115 230,768 1961 48,197 57,140 62,301 59,603 227,241 1962 48,173 59,548 65,038 60,988 225,100 1964 51,893 50,768 67,713 66,139 236,513 1965 56,455 45,353 69,386 69,755 240,949 1966 57,674 44,043 69,816 73,602 244,038 1967 57,611 43,409 69,416 73,602 244,038 1968 62,166 45,382 68,84 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
1956 48,054 69,477 49,544 64,460 231,535 1957 54,490 62,865 54,311 64,677 236,343 1958 53,789 57,321 58,321 62,982 232,413 1959 49,468 56,529 61,115 64,389 231,501 1960 48,970 56,675 62,008 63,115 230,768 1961 48,197 57,140 62,301 59,603 227,241 1962 48,173 59,548 65,038 60,251 233,010 1963 48,271 52,803 63,038 60,988 225,100 1964 51,893 50,768 67,713 66,139 236,513 1965 56,455 45,353 69,386 69,755 240,949 1966 57,674 44,043 69,850 71,540 243,107 1967 57,611 43,409 66,432 75,932 247,924 1968 60,652 44,908 66,432 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
1957 54,490 62,865 54,311 64,677 236,343 1958 53,789 57,321 58,321 62,982 232,413 1959 49,468 56,529 61,115 64,389 231,501 1960 48,970 56,675 62,008 63,115 230,768 1961 48,197 57,140 62,301 59,603 227,241 1962 48,173 59,548 65,038 60,251 233,010 1963 48,271 52,803 63,038 60,988 225,100 1964 51,893 50,768 67,713 66,139 236,513 1965 56,455 45,353 69,386 69,755 240,949 1966 57,674 44,043 69,850 71,540 243,107 1967 57,611 43,409 69,416 73,602 244,038 1968 60,652 44,908 66,432 75,932 247,924 1969 62,116 45,382 68,884 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
1958 53,789 57,321 58,321 62,982 232,413 1959 49,468 56,529 61,115 64,389 231,501 1960 48,970 56,675 62,008 63,115 230,768 1961 48,197 57,140 62,301 59,603 227,241 1962 48,173 59,548 65,038 60,251 233,010 1963 48,271 52,803 63,038 60,988 225,100 1964 51,893 50,768 67,713 66,139 236,513 1965 56,455 45,353 69,386 69,755 240,949 1966 57,674 44,043 69,850 71,540 244,038 1968 60,652 44,908 66,432 75,932 247,924 1969 62,116 45,382 68,884 78,481 254,863 1970 62,042 46,720 77,180 85,121 271,063 1971 64,032 50,541 81,747 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
1959 49,468 56,529 61,115 64,389 231,501 1960 48,970 56,675 62,008 63,115 230,768 1961 48,197 57,140 62,301 59,603 227,241 1962 48,173 59,548 65,038 60,251 233,010 1963 48,271 52,803 63,038 60,988 225,100 1964 51,893 50,768 67,713 66,139 236,513 1965 56,455 45,353 69,386 69,755 240,949 1966 57,674 44,043 69,850 71,540 243,107 1967 57,611 43,409 66,432 75,932 247,924 1968 60,652 44,908 66,432 75,932 247,924 1969 62,116 45,382 68,884 78,481 254,863 1971 64,032 50,541 81,747 90,372 286,692 1972 52,065 45,818 74,936 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
1960 48,970 56,675 62,008 63,115 230,768 1961 48,197 57,140 62,301 59,603 227,241 1962 48,173 59,548 65,038 60,251 233,010 1963 48,271 52,803 63,038 60,988 225,100 1964 51,893 50,768 67,713 66,139 236,513 1965 56,455 45,353 69,386 69,755 240,949 1966 57,674 44,043 69,850 71,540 243,107 1967 57,611 43,409 69,416 73,602 244,038 1968 60,652 44,908 66,432 75,932 247,924 1969 62,116 45,382 68,884 78,481 254,863 1970 62,042 46,720 77,180 85,121 271,063 1971 64,032 50,541 81,747 90,372 286,692 1972 52,665 45,818 74,936 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
1961 48,197 57,140 62,301 59,603 227,241 1962 48,173 59,548 65,038 60,251 233,010 1963 48,271 52,803 63,038 60,988 225,100 1964 51,893 50,768 67,713 66,139 236,513 1965 56,455 45,353 69,386 69,755 240,949 1966 57,674 44,043 69,850 71,540 243,107 1967 57,611 43,409 69,416 73,602 244,038 1968 60,652 44,908 66,432 75,932 247,924 1969 62,116 45,382 68,884 78,481 254,863 1971 64,032 50,541 81,747 90,372 286,692 1972 52,065 45,818 74,936 80,052 252,871 1973 49,916 41,871 74,214 85,592 251,593 1974 46,620 38,331 75,219 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
1962 48,173 59,548 65,038 60,251 233,010 1963 48,271 52,803 63,038 60,988 225,100 1964 51,893 50,768 67,713 66,139 236,513 1965 56,455 45,353 69,386 69,755 240,949 1966 57,674 44,043 69,850 71,540 243,107 1967 57,611 43,409 69,416 73,602 244,038 1968 60,652 44,908 66,432 75,932 247,924 1969 62,116 45,382 68,884 78,481 254,863 1970 62,042 46,720 77,180 85,121 271,063 1971 64,032 50,541 81,747 90,372 286,692 1972 52,065 45,818 74,936 80,052 252,871 1973 49,916 41,871 74,214 85,592 251,593 1974 46,620 38,331 75,219 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
1963 48,271 52,803 63,038 60,988 225,100 1964 51,893 50,768 67,713 66,139 236,513 1965 56,455 45,353 69,386 69,755 240,949 1966 57,674 44,043 69,850 71,540 243,107 1967 57,611 43,409 69,416 73,602 244,038 1968 60,652 44,908 66,432 75,932 247,924 1969 62,116 45,382 68,884 78,481 254,863 1970 62,042 46,720 77,180 85,121 271,063 1971 64,032 50,541 81,747 90,372 286,692 1972 52,065 45,818 74,936 80,052 252,871 1973 49,916 41,871 74,214 85,592 251,593 1974 46,620 38,331 75,219 82,676 242,846 1975 45,636 30,603 65,315 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
1964 51,893 50,768 67,713 66,139 236,513 1965 56,455 45,353 69,386 69,755 240,949 1966 57,674 44,043 69,850 71,540 243,107 1967 57,611 43,409 69,416 73,602 244,038 1968 60,652 44,908 66,432 75,932 247,924 1969 62,116 45,382 68,884 78,481 254,863 1970 62,042 46,720 77,180 85,121 271,063 1971 64,032 50,541 81,747 90,372 286,692 1972 52,065 45,818 74,936 80,052 252,871 1973 49,916 41,871 74,214 85,592 251,593 1974 46,620 38,331 75,219 82,676 242,846 1975 45,636 30,603 65,315 72,566 214,120 1976 52,444 30,557 65,881 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
1965 56,455 45,353 69,386 69,755 240,949 1966 57,674 44,043 69,850 71,540 243,107 1967 57,611 43,409 69,416 73,602 244,038 1968 60,652 44,908 66,432 75,932 247,924 1969 62,116 45,382 68,884 78,481 254,863 1970 62,042 46,720 77,180 85,121 271,063 1971 64,032 50,541 81,747 90,372 286,692 1972 52,065 45,818 74,936 80,052 252,871 1973 49,916 41,871 74,214 85,592 251,593 1974 46,620 38,331 75,219 82,676 242,846 1975 45,636 30,603 65,315 72,566 214,120 1976 52,444 30,557 65,881 68,325 217,207 1977 53,500 31,840 71,150 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
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1969 62,116 45,382 68,884 78,481 254,863 1970 62,042 46,720 77,180 85,121 271,063 1971 64,032 50,541 81,747 90,372 286,692 1972 52,065 45,818 74,936 80,052 252,871 1973 49,916 41,871 74,214 85,592 251,593 1974 46,620 38,331 75,219 82,676 242,846 1975 45,636 30,603 65,315 72,566 214,120 1976 52,444 30,557 65,881 68,325 217,207 1977 53,500 31,840 71,150 73,276 229,766 1978 58,252 33,605 72,696 76,572 241,125 1979 60,445 33,387 69,827 87,885 251,544 1980 62,386 31,817 73,216 88,439 255,858 1981 58,657 36,625 81,211 <td></td> <td></td> <td></td> <td>69,416</td> <td>73,602</td> <td></td>				69,416	73,602	
1970 62,042 46,720 77,180 85,121 271,063 1971 64,032 50,541 81,747 90,372 286,692 1972 52,065 45,818 74,936 80,052 252,871 1973 49,916 41,871 74,214 85,592 251,593 1974 46,620 38,331 75,219 82,676 242,846 1975 45,636 30,603 65,315 72,566 214,120 1976 52,444 30,557 65,881 68,325 217,207 1977 53,500 31,840 71,150 73,276 229,766 1978 58,252 33,605 72,696 76,572 241,125 1979 60,445 33,387 69,827 87,885 251,544 1980 62,386 31,817 73,216 88,439 255,858 1981 58,657 36,625 81,211 93,361 269,854 1982 56,189 30,923 78,229 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
1971 64,032 50,541 81,747 90,372 286,692 1972 52,065 45,818 74,936 80,052 252,871 1973 49,916 41,871 74,214 85,592 251,593 1974 46,620 38,331 75,219 82,676 242,846 1975 45,636 30,603 65,315 72,566 214,120 1976 52,444 30,557 65,881 68,325 217,207 1977 53,500 31,840 71,150 73,276 229,766 1978 58,252 33,605 72,696 76,572 241,125 1979 60,445 33,387 69,827 87,885 251,544 1980 62,386 31,817 73,216 88,439 255,858 1981 58,657 36,625 81,211 93,361 269,854 1982 56,189 30,923 78,229 88,158 253,499 1983 61,130 31,279 78,134 <td></td> <td>62,116</td> <td></td> <td>68,884</td> <td>78,481</td> <td>254,863</td>		62,116		68,884	78,481	254,863
1972 52,065 45,818 74,936 80,052 252,871 1973 49,916 41,871 74,214 85,592 251,593 1974 46,620 38,331 75,219 82,676 242,846 1975 45,636 30,603 65,315 72,566 214,120 1976 52,444 30,557 65,881 68,325 217,207 1977 53,500 31,840 71,150 73,276 229,766 1978 58,252 33,605 72,696 76,572 241,125 1979 60,445 33,387 69,827 87,885 251,544 1980 62,386 31,817 73,216 88,439 255,858 1981 58,657 36,625 81,211 93,361 269,854 1982 56,189 30,923 78,229 88,158 253,499 1983 61,130 31,279 78,134 92,967 263,510 1984 58,032 34,898 74,808 <td></td> <td></td> <td>46,720</td> <td>77,180</td> <td></td> <td></td>			46,720	77,180		
1973 49,916 41,871 74,214 85,592 251,593 1974 46,620 38,331 75,219 82,676 242,846 1975 45,636 30,603 65,315 72,566 214,120 1976 52,444 30,557 65,881 68,325 217,207 1977 53,500 31,840 71,150 73,276 229,766 1978 58,252 33,605 72,696 76,572 241,125 1979 60,445 33,387 69,827 87,885 251,544 1980 62,386 31,817 73,216 88,439 255,858 1981 58,657 36,625 81,211 93,361 269,854 1982 56,189 30,923 78,229 88,158 253,499 1983 61,130 31,279 78,134 92,967 263,510 1984 58,032 34,898 74,808 95,247 262,985 1985 63,469 41,680 76,065 94,644 275,858 1987 63,256 52,778 7						
1974 46,620 38,331 75,219 82,676 242,846 1975 45,636 30,603 65,315 72,566 214,120 1976 52,444 30,557 65,881 68,325 217,207 1977 53,500 31,840 71,150 73,276 229,766 1978 58,252 33,605 72,696 76,572 241,125 1979 60,445 33,387 69,827 87,885 251,544 1980 62,386 31,817 73,216 88,439 255,858 1981 58,657 36,625 81,211 93,361 269,854 1982 56,189 30,923 78,229 88,158 253,499 1983 61,130 31,279 78,134 92,967 263,510 1984 58,032 34,898 74,808 95,247 262,985 1985 63,469 41,680 76,065 94,644 275,858 1987 63,256 52,778 77,813 95,795 289,642 1988 62,959 54,910 7						
1975 45,636 30,603 65,315 72,566 214,120 1976 52,444 30,557 65,881 68,325 217,207 1977 53,500 31,840 71,150 73,276 229,766 1978 58,252 33,605 72,696 76,572 241,125 1979 60,445 33,387 69,827 87,885 251,544 1980 62,386 31,817 73,216 88,439 255,858 1981 58,657 36,625 81,211 93,361 269,854 1982 56,189 30,923 78,229 88,158 253,499 1983 61,130 31,279 78,134 92,967 263,510 1984 58,032 34,898 74,808 95,247 262,985 1985 63,469 41,680 76,065 94,644 275,858 1986 60,778 49,005 71,478 93,432 274,693 1987 63,256 52,778 77,813 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
1976 52,444 30,557 65,881 68,325 217,207 1977 53,500 31,840 71,150 73,276 229,766 1978 58,252 33,605 72,696 76,572 241,125 1979 60,445 33,387 69,827 87,885 251,544 1980 62,386 31,817 73,216 88,439 255,858 1981 58,657 36,625 81,211 93,361 269,854 1982 56,189 30,923 78,229 88,158 253,499 1983 61,130 31,279 78,134 92,967 263,510 1984 58,032 34,898 74,808 95,247 262,985 1985 63,469 41,680 76,065 94,644 275,858 1986 60,778 49,005 71,478 93,432 274,693 1987 63,256 52,778 77,813 95,795 289,642 1988 62,959 54,910 76,243 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
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1996 57,091 58,759 72,285 92,981 281,116						
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1997 54,690 59,660 78,023 91,313 283,686	1997	54,690			91,313	
1998 61,091 59,339 79,697 93,863 293,990						
1999 63,307 61,165 80,941 98,553 303,966						
2000 63,242 66,304 80,879 103,079 313,504						
2001 13,762 69,087 72,864 102,224 257,937						
2002 56,976 70,731 82,834 94,759 305,300			70,731	82,834		305,300
2003 56,271 72,209 85,377 93,177 307,034	2003	56,271	72,209	85,377	93,177	307,034

Hourly Vehicular Volumes Metropolitan Transportation Authority Bridges & Tunnels 2003

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

^{**} Peak Volumes

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

Year Bridge Tunnel Lincoln 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 56,990 194,577 1954 90,306 54,560 57,528 202,394 1955 98,013 55,445 58,468 211,926 1985 97,059 56,961 59,068 213,088 1985 97,059 56,961 59,068 213,088 1985 97,059 56,816 68,178 221,494 1985 97,435 55,881 68,178 221,494 1985 97,435 55,881 68,178 221,494 1986 19,457 77 7644 236,833		George	10.10 =00		
1948			Holland	Lincoln	
1949 49,261 45,167 35,515 129,943 1950 54,437 49,660 42,556 1951 64,516 53,792 47,842 166,150 1952 76,446 51,317 53,490 181,253 1953 84,398 53,270 56,999 194,577 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 82,929 258,824 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 1988 182,934 53,962 83,396 320,292 1996 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 1974 211,955 64,765 99,827 376,547 1976 215,136 64,663 101,451 391,250 1977 22,897 63,015 99,101 385,013 1979 232,739 61,403 99,582 333,724 1981 250,804 68,750 107,827 427,381 1982 249,294 73,997 10,485 99,512 1983 250,666 64,751 99,101 385,013 1977 22,897 63,015 99,101 385,013 1979 232,739 61,403 99,582 333,724 1983 256,603 77,300 12,053 485,717 1977 22,897 63,015 99,101 385,013 1988 249,844 73,997 10,453 433,744 1983 254,728 71,819 123,233 453,775 1979 232,739 61,403 99,582 333,724 1989 281,812 44,294 73,997 10,453 433,744 1983 254,728 77,645 11,649 22,659 490,179 1986 286,948 77,300 12,059 490,179 1986 286,949 77,300 12,059 490,179 1989 287,739 61,403 99,582 333,724 1980 295,666 64,665 103,441 104,702 404,734 1981 250,804 68,750 107,827 427,381 1999 232,739 61,403 99,582 333,724 1991 260,073 90,206 118,659 473,099 1993 260,732 92,685 119,652 473,069 1993 260,732 92,685 119,652 473,069 1993 260,732 92,685 119,652 473,069 1993 260,732 92,685 119,652 473,069 1993 260,732 92,685 119,652 473,069 1993 272,556 87,976 121,711 482,243 1991 262,491 87,502 117,508 467,501	Year	Bridge	Tunnel	Tunnel	Totals
1949 49,261 45,167 35,515 129,943 1950 54,437 49,660 42,556 1951 64,516 53,792 47,842 166,150 1952 76,446 51,317 53,490 181,253 1953 84,398 53,270 56,999 194,577 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 82,929 258,824 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 1988 182,934 53,962 83,396 320,292 1996 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 1974 211,955 64,765 99,827 376,547 1976 215,136 64,663 101,451 391,250 1977 22,897 63,015 99,101 385,013 1979 232,739 61,403 99,582 333,724 1981 250,804 68,750 107,827 427,381 1982 249,294 73,997 10,485 99,512 1983 250,666 64,751 99,101 385,013 1977 22,897 63,015 99,101 385,013 1979 232,739 61,403 99,582 333,724 1983 256,603 77,300 12,053 485,717 1977 22,897 63,015 99,101 385,013 1988 249,844 73,997 10,453 433,744 1983 254,728 71,819 123,233 453,775 1979 232,739 61,403 99,582 333,724 1989 281,812 44,294 73,997 10,453 433,744 1983 254,728 77,645 11,649 22,659 490,179 1986 286,948 77,300 12,059 490,179 1986 286,949 77,300 12,059 490,179 1989 287,739 61,403 99,582 333,724 1980 295,666 64,665 103,441 104,702 404,734 1981 250,804 68,750 107,827 427,381 1999 232,739 61,403 99,582 333,724 1991 260,073 90,206 118,659 473,099 1993 260,732 92,685 119,652 473,069 1993 260,732 92,685 119,652 473,069 1993 260,732 92,685 119,652 473,069 1993 260,732 92,685 119,652 473,069 1993 260,732 92,685 119,652 473,069 1993 272,556 87,976 121,711 482,243 1991 262,491 87,502 117,508 467,501	1948	42,306	42,623	30,856	115,785
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2001 309,310 43,377 106,257 458,944					
	2002	310,771	92,557	129,511	532,839
2003 319,029 101,097 127,323 547,449	2003	319,029	101,097	127,323	547,449

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

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

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

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

^{**} Peak Volumes