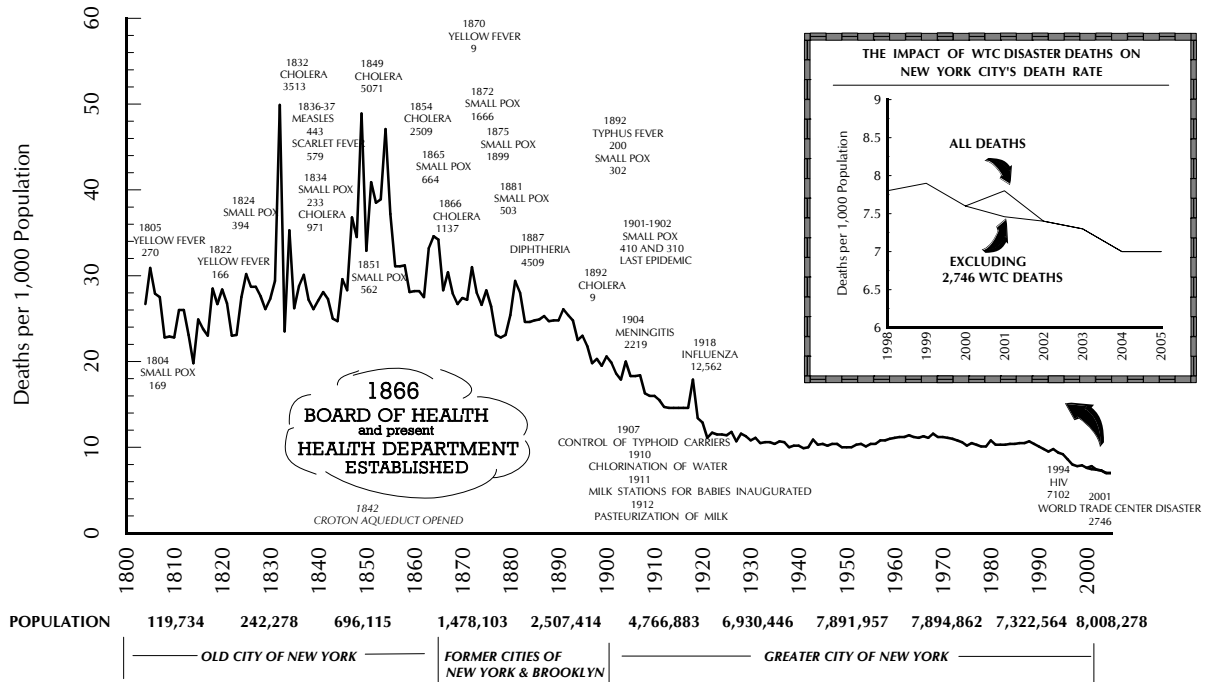


# SUMMARY OF VITAL STATISTICS 2005

## THE CITY OF NEW YORK

### The Conquest of Pestilence in New York City

...As Shown by the Death Rate as Recorded in the Official Records of the Department of Health and Mental Hygiene.



Michael R. Bloomberg, Mayor

Thomas R. Frieden, M.D., M.P.H. Commissioner

Lorna Thorpe, Ph.D., M.P.H., Deputy Commissioner, Division of Epidemiology

# SUMMARY OF VITAL STATISTICS 2005 THE CITY OF NEW YORK

Bureau of Vital Statistics  
New York City Department of Health and Mental Hygiene

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DECEMBER 2006

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This report was prepared by the Statistical Analysis and Reporting Unit of the Bureau of Vital Statistics: Wenhui Li, PhD, Joseph Kennedy, and Darlene Kelley. The data are derived from vital event certificates filed with and processed by the staff of the Offices of Vital Records and Vital Statistics. Bureau of Maternal, Infant and Reproductive Health provided the information about "Perinatal Periods of Risk Approach to Understand Fetal-Infant Mortality". HIV Surveillance and Epidemiology Program provided data for Table 48 and text for Figure 14. Bureaus of Communicable Disease, Immunization, and Tuberculosis Control provided data for Table 47.

This publication is available at <http://www.nyc.gov/html/doh/html/vs/vs.shtml>.

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## Introduction: Summary of Vital Statistics 2005

The Annual Summary provides an overview of 2005 vital events (births, deaths, and spontaneous and induced terminations of pregnancy) in New York City. These data are derived from vital event certificates filed with the Office of Vital Records. Vital Records is responsible for registering, archiving, amending, and issuing certified copies of all births, deaths and spontaneous and induced terminations of pregnancy in New York City.

The Office of Vital Statistics presents demographic data on the NYC population, natural and external causes of death, life expectancy and years of potential life lost due to specific causes of death. Births are characterized by a number of variables including mother's age, ethnicity, ancestry, prenatal care, marital status and parity and newborn's sex, birth order, weight, plurality and Apgar score. Special attention is given to teenage births and infant mortality. Also included are frequencies of marriages, baby names, and incidence of selected reportable diseases and AIDS. Tables on Perinatal Periods of Risk (PPOR) are presented in collaboration with the Bureau of Maternal, Infant and Reproductive Health. A special section on World Trade Center (WTC) operational statistics is included to provide updates on WTC death certification and victim identification. Another special section is added to present smoking attributable deaths and their age adjusted rates.

This report presents data on all births, deaths and spontaneous and induced terminations of pregnancy in NYC. They may occur to both residents and non-residents. Most tables that include a geographic breakdown for residents show non-resident and residents-unknown data separately. Where there is no geographic breakdown, all NYC occurrences are included. NYC population data used to estimate rates and proportions are provided by the New York City Department of City Planning (DCP) and based on the U.S. Census enumeration as of April 1, 2000 using the 2002 modified race file (Census 2000 Modified Race Data – See Technical Notes). Population geographic breakdowns included are the five boroughs of NYC, 30 Health Center Districts (HCD) and 59 Community Districts (CD).

Cause of death information, a major component of the Annual Summary, is the underlying cause of death on each certificate, selected using rules issued by National Center for Health Statistics (NCHS) and codes of International Classification of Diseases, Tenth Revision (ICD-10). ICD-10 was implemented January 1, 1999 and has been used to code cause of death in the Annual Summary since then.

Additional detail on methodologies used for this report may be found in the Technical Notes at the end of this report.

If you have used previous reports, you will find that table numbers have largely been maintained, providing the ability to assess changes and trends in the data. However, figure numbers have changed as many are new and supplement the data table presentations.

For Annual Summaries back to 1995, see our web site at: <http://www.nyc.gov/html/doh/html/vs/vs.shtml>.

### Important Note on Population Data:

For the first time this Annual Summary uses the most recently available population estimates (2001-2005) in calculating rates for some tables to reflect population growth in New York City. However, these estimates are only available for broad measures such as county (borough), 5-year age groups, and sex, but not by smaller geographic areas, such as health center districts and community districts. Therefore, some tables use different figures for New York City's population: the U.S. Census Bureau's decennial enumeration (8,008,278 residents in 2000) and the Census Bureau's estimates for years 2001-2005 (8,143,197 in 2005). Citywide rates are affected, and may differ across tables. For example, the citywide birthrate is 15.1 per 1,000 population using the 2005 population estimate, and 15.3 using the 2000 census population as the denominator. Tables with breakdowns by neighborhood use 2000 census data only, as do those with life expectancy calculations that require population totals by single-year age group.

2000 census data are used in Tables 3, 7, 8, 22, 23, 28a, 34, 36 and 40, and Figure 20. 2001-2005 estimates are used in Tables 1 and 25, Figures 6a, 6b, 7 and Special Section B.

Table 1.

## Population, Births, Marriages, Deaths and Infant Mortality, New York City, 1898-2005

| Year      | Population<br>April 1 | Live Births                                  |                                 | Marriages          |                                 | Deaths             |                                 | Infant Mortality             |                                  |
|-----------|-----------------------|--|---------------------------------|--------------------|---------------------------------|--------------------|---------------------------------|------------------------------|----------------------------------|
|           |                       | Total<br>Reported*                           | Rate per<br>1,000<br>Population | Total<br>Reported* | Rate per<br>1,000<br>Population | Total<br>Reported* | Rate per<br>1,000<br>Population | Deaths<br>under<br>one year* | Rate per<br>1,000<br>live births |
| 1898-1900 | 3,358,000             | 119,000                                      | 35.4                            | 30,535             | 9.1                             | 67,503             | 20.1                            | 16,264                       | 136.7                            |
| 1901-1905 | 3,786,000             | 129,000                                      | 34.1                            | 37,988             | 10.0                            | 71,689             | 18.9                            | 15,611                       | 121.0                            |
| 1906-1910 | 4,473,000             | 144,000                                      | 32.2                            | 44,966             | 10.1                            | 75,865             | 17.0                            | 16,609                       | 115.3                            |
| 1911-1915 | 5,049,000             | 140,581                                      | 27.8                            | 51,157             | 10.1                            | 74,666             | 14.8                            | 14,060                       | 100.0                            |
| 1916-1920 | 5,492,000             | 136,101                                      | 24.8                            | 59,081             | 10.8                            | 80,435             | 14.6                            | 12,004                       | 88.2                             |
| 1921-1925 | 6,175,000             | 130,462                                      | 21.1                            | 62,710             | 10.2                            | 69,303             | 11.2                            | 8,985                        | 68.9                             |
| 1926-1930 | 6,703,000             | 125,590                                      | 18.7                            | 62,278             | 9.3                             | 75,395             | 11.2                            | 7,662                        | 61.0                             |
| 1931-1935 | 7,101,000             | 106,179                                      | 15.0                            | 63,273             | 8.9                             | 75,561             | 10.6                            | 5,521                        | 52.0                             |
| 1936-1940 | 7,363,000             | 102,418                                      | 13.9                            | 69,184             | 9.4                             | 76,065             | 10.3                            | 4,079                        | 39.8                             |
| 1941-1945 | 7,597,000             | 126,495                                      | 16.7                            | 76,086             | 10.0                            | 78,382             | 10.3                            | 3,525                        | 27.9                             |
| 1946-1950 | 7,815,000             | 158,926                                      | 20.3                            | 90,914             | 11.6                            | 79,708             | 10.2                            | 4,139                        | 26.0                             |
| 1951-1955 | 7,867,000             | 163,526                                      | 20.8                            | 71,689             | 9.1                             | 80,583             | 10.2                            | 3,986                        | 24.4                             |
| 1956      | 7,831,000             | 165,553                                      | 21.1                            | 70,291             | 9.0                             | 81,118             | 10.4                            | 4,052                        | 24.5                             |
| 1957      | 7,818,000             | 166,977                                      | 21.4                            | 69,498             | 8.9                             | 84,141             | 10.8                            | 4,176                        | 25.0                             |
| 1958      | 7,806,000             | 167,775                                      | 21.5                            | 67,594             | 8.7                             | 84,586             | 10.8                            | 4,435                        | 26.4                             |
| 1959      | 7,794,000             | 168,138                                      | 21.6                            | 66,887             | 8.6                             | 85,352             | 11.0                            | 4,458                        | 26.5                             |
| 1960      | 7,781,984             | 166,300                                      | 21.4                            | 67,133             | 8.6                             | 86,252             | 11.1                            | 4,328                        | 26.0                             |
| 1961      | 7,793,000             | 168,383                                      | 21.6                            | 66,258             | 8.5                             | 86,855             | 11.1                            | 4,307                        | 25.6                             |
| 1962      | 7,805,000             | 165,244                                      | 21.2                            | 65,512             | 8.4                             | 87,089             | 11.2                            | 4,510                        | 27.3                             |
| 1963      | 7,816,000             | 167,848                                      | 21.5                            | 67,886             | 8.7                             | 88,621             | 11.3                            | 4,334                        | 25.8                             |
| 1964      | 7,828,000             | 165,695                                      | 21.2                            | 70,053             | 8.9                             | 88,026             | 11.2                            | 4,438                        | 26.8                             |
| 1965      | 7,839,000             | 158,815                                      | 20.3                            | 71,880             | 9.2                             | 87,395             | 11.1                            | 4,076                        | 25.7                             |
| 1966      | 7,850,000             | 153,335                                      | 19.5                            | 66,689             | 8.5                             | 88,418             | 11.3                            | 3,819                        | 24.9                             |
| 1967      | 7,862,000             | 145,802                                      | 18.5                            | 68,876             | 8.8                             | 87,610             | 11.1                            | 3,489                        | 23.9                             |
| 1968      | 7,873,000             | 141,920                                      | 18.0                            | 73,307             | 9.3                             | 91,169             | 11.6                            | 3,282                        | 23.1                             |
| 1969      | 7,885,000             | 146,221                                      | 18.5                            | 75,220             | 9.5                             | 88,535             | 11.2                            | 3,563                        | 24.4                             |
| 1970      | 7,894,862             | 149,192                                      | 18.9                            | 74,174             | 9.4                             | 88,161             | 11.2                            | 3,230                        | 21.6                             |
| 1971      | 7,832,000             | 131,920                                      | 16.8                            | 73,810             | 9.4                             | 86,724             | 11.1                            | 2,751                        | 20.9                             |
| 1972      | 7,731,000             | 117,088                                      | 15.1                            | 73,253             | 9.5                             | 85,363             | 11.0                            | 2,321                        | 19.8                             |
| 1973      | 7,648,000             | 110,639                                      | 14.5                            | 70,104             | 9.2                             | 82,319             | 10.8                            | 2,206                        | 19.9                             |
| 1974      | 7,566,000             | 110,642                                      | 14.6                            | 61,925             | 8.2                             | 79,846             | 10.6                            | 2,175                        | 19.7                             |
| 1975      | 7,484,000             | 109,418                                      | 14.6                            | 59,591             | 8.0                             | 76,312             | 10.2                            | 2,110                        | 19.3                             |
| 1976      | 7,401,000             | 109,995                                      | 14.9                            | 55,829             | 7.5                             | 77,538             | 10.5                            | 2,092                        | 19.0                             |
| 1977      | 7,318,000             | 110,486                                      | 15.1                            | 52,804             | 7.2                             | 75,011             | 10.3                            | 1,971                        | 17.8                             |
| 1978      | 7,236,000             | 106,720                                      | 14.7                            | 54,247             | 7.5                             | 73,081             | 10.1                            | 1,827                        | 17.1                             |
| 1979      | 7,154,000             | 106,021                                      | 14.8                            | 58,532             | 8.2                             | 72,079             | 10.1                            | 1,767                        | 16.7                             |
| 1980      | 7,071,639             | 107,066                                      | 15.1                            | 58,637             | 8.3                             | 76,625             | 10.8                            | 1,719                        | 16.1                             |
| 1981      | 7,097,000             | 108,547                                      | 15.3                            | 61,775             | 8.7                             | 73,329             | 10.3                            | 1,678                        | 15.5                             |
| 1982      | 7,122,000             | 111,487                                      | 15.7                            | 66,619             | 9.4                             | 73,083             | 10.3                            | 1,706                        | 15.3                             |
| 1983      | 7,147,000             | 112,353                                      | 15.7                            | 68,164             | 9.5                             | 73,544             | 10.3                            | 1,603                        | 14.3                             |
| 1984      | 7,172,000             | 113,332                                      | 15.8                            | 76,336             | 10.6                            | 74,278             | 10.4                            | 1,540                        | 13.6                             |
| 1985      | 7,197,000             | 118,542                                      | 16.5                            | 77,897             | 10.8                            | 74,852             | 10.4                            | 1,591                        | 13.4                             |
| 1986      | 7,222,000             | 122,108                                      | 16.9                            | 82,199             | 11.4                            | 75,702             | 10.5                            | 1,566                        | 12.8                             |
| 1987      | 7,247,000             | 127,386                                      | 17.6                            | 76,194             | 10.5                            | 76,448             | 10.5                            | 1,673                        | 13.1                             |
| 1988      | 7,272,000             | 132,226                                      | 18.2                            | 74,137             | 10.2                            | 77,817             | 10.7                            | 1,770                        | 13.4                             |
| 1989      | 7,297,000             | 137,673                                      | 18.9                            | 69,758             | 9.6                             | 75,957             | 10.4                            | 1,827                        | 13.3                             |
| 1990      | 7,322,564             | 139,630                                      | 19.1                            | 71,301             | 9.7                             | 73,875             | 10.1                            | 1,620                        | 11.6                             |
| 1991      | 7,388,000             | 138,148                                      | 18.7                            | 69,314             | 9.4                             | 72,421             | 9.8                             | 1,575                        | 11.4                             |
| 1992      | 7,455,000             | 136,002                                      | 18.2                            | 71,947             | 9.7                             | 71,001             | 9.5                             | 1,390                        | 10.2                             |
| 1993      | 7,522,000             | 133,583                                      | 17.8                            | 72,490             | 9.6                             | 73,408             | 9.8                             | 1,366                        | 10.2                             |
| 1994      | 7,590,000             | 133,662                                      | 17.6                            | 70,438             | 9.3                             | 71,038             | 9.4                             | 1,207                        | 9.0                              |
| 1995      | 7,658,000             | 131,009                                      | 17.1                            | 71,507             | 9.3                             | 70,769             | 9.2                             | 1,155                        | 8.8                              |
| 1996      | 7,727,000             | 126,901                                      | 16.4                            | 79,361             | 10.3                            | 66,784             | 8.6                             | 992                          | 7.8                              |
| 1997      | 7,796,000             | 123,313                                      | 15.8                            | 80,027             | 10.3                            | 62,506             | 8.0                             | 881                          | 7.1                              |
| 1998      | 7,866,000             | 124,252                                      | 15.8                            | 53,661             | 6.8                             | 61,010             | 7.8                             | 843                          | 6.8                              |
| 1999      | 7,937,000             | 123,739                                      | 15.6                            | 55,075             | 6.9                             | 62,470             | 7.9                             | 848                          | 6.9                              |
| 2000      | 8,008,278             | 125,563                                      | 15.7                            | 58,291             | 7.3                             | 60,839             | 7.6                             | 839                          | 6.7                              |
| 2001      | 8,075,586             | 124,023                                      | 15.4 **                         | 72,587             | 9.0 **                          | 62,964             | 7.8 **                          | 760                          | 6.1                              |
| 2001      | 8,075,586             | Excluding World Trade Center disaster deaths |                                 |                    |                                 | 60,218             | 7.5 **                          |                              |                                  |
| 2002      | 8,107,428             | 122,937                                      | 15.2 **                         | 65,490             | 8.1 **                          | 59,651             | 7.4 **                          | 742                          | 6.0                              |
| 2003      | 8,129,996             | 124,345                                      | 15.3 **                         | 61,101             | 7.5 **                          | 59,213             | 7.3 **                          | 807                          | 6.5                              |
| 2004      | 8,164,706             | 124,099                                      | 15.2 **                         | 62,057             | 7.6 **                          | 57,466             | 7.0 **                          | 760                          | 6.1                              |
| 2005      | 8,143,197             | 122,725                                      | 15.1 **                         | 66,348             | 8.1 **                          | 57,068             | 7.0 **                          | 732                          | 6.0                              |

\* Figures prior to 1956 are averages across the years presented; single year figures prior to 1956 appear in the annual summaries for 1965 and earlier. Figures for 1898-1913 births are estimated. Intercensal population counts from 1990 to 2000 are interpolated by using an exponential formula.

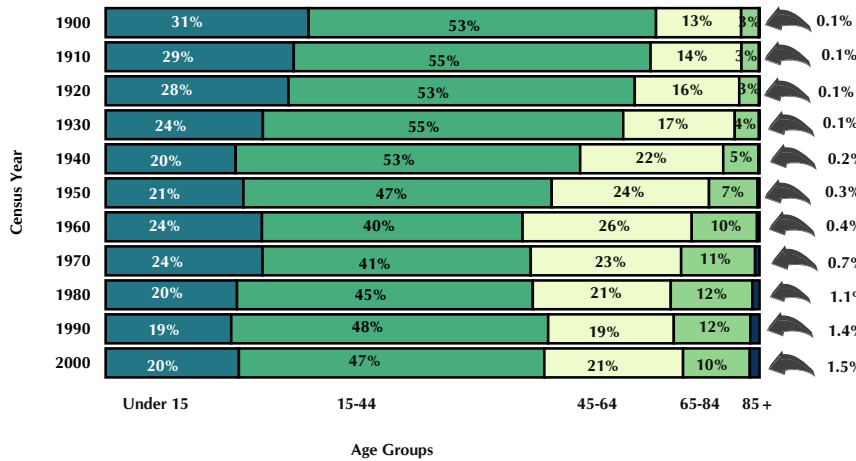
\*\* Population data for years 2001-2005 are from U.S. Census Bureau's estimates as of December 2006; compare to Tables 3, 7, 8, 34, and 36, where the citywide birth or death rates are based on 2000 census population; the rates are higher. See Technical Notes: Population.

**Table 2.**

**Population by Age, Mutually Exclusive Race and Hispanic Origin, and Sex, New York City, 2000\***

| Age in Years | All       |           |           | Hispanic  |           | Non-Hispanic White |           | Non-Hispanic Black |           | Asian and Pacific Islander |         | Other and Multiple Race |        |
|--------------|-----------|-----------|-----------|-----------|-----------|--------------------|-----------|--------------------|-----------|----------------------------|---------|-------------------------|--------|
|              | Total     | Male      | Female    | Male      | Female    | Male               | Female    | Male               | Female    | Male                       | Female  | Male                    | Female |
| All Ages     | 8,008,278 | 3,794,204 | 4,214,074 | 1,040,714 | 1,119,840 | 1,384,891          | 1,502,111 | 904,816            | 1,121,403 | 413,047                    | 414,616 | 50,736                  | 56,104 |
| Under 5      | 540,878   | 276,635   | 264,243   | 95,028    | 90,573    | 72,985             | 68,047    | 76,410             | 74,654    | 26,725                     | 25,581  | 5,487                   | 5,388  |
| 5-9          | 561,115   | 286,155   | 274,960   | 99,841    | 96,898    | 67,588             | 63,971    | 87,009             | 84,481    | 26,586                     | 24,838  | 5,131                   | 4,772  |
| 10-14        | 530,816   | 270,582   | 260,234   | 89,896    | 87,438    | 66,604             | 62,278    | 84,318             | 83,045    | 25,489                     | 23,213  | 4,275                   | 4,260  |
| 15-19        | 520,641   | 265,285   | 255,356   | 90,054    | 84,147    | 67,382             | 64,290    | 77,513             | 78,428    | 26,464                     | 24,558  | 3,872                   | 3,933  |
| 20-24        | 589,831   | 285,353   | 304,478   | 96,127    | 93,644    | 87,961             | 94,620    | 65,333             | 77,463    | 32,007                     | 34,210  | 3,925                   | 4,541  |
| 25-29        | 680,659   | 326,702   | 353,957   | 95,571    | 97,089    | 122,701            | 125,458   | 62,984             | 81,905    | 41,252                     | 44,569  | 4,194                   | 4,936  |
| 30-34        | 687,362   | 335,119   | 352,243   | 94,088    | 97,065    | 126,622            | 118,382   | 69,053             | 90,255    | 41,044                     | 41,712  | 4,312                   | 4,829  |
| 35-39        | 660,901   | 322,637   | 338,264   | 86,337    | 93,124    | 116,770            | 105,830   | 74,466             | 95,971    | 40,682                     | 38,615  | 4,382                   | 4,724  |
| 40-44        | 602,379   | 289,976   | 312,403   | 71,434    | 80,800    | 107,852            | 104,259   | 68,410             | 87,851    | 38,453                     | 35,481  | 3,827                   | 4,012  |
| 45-49        | 531,118   | 250,093   | 281,025   | 57,413    | 68,753    | 101,196            | 103,681   | 56,832             | 74,803    | 31,479                     | 30,362  | 3,173                   | 3,426  |
| 50-54        | 481,267   | 220,318   | 260,949   | 48,018    | 59,416    | 96,701             | 106,023   | 47,999             | 66,775    | 25,164                     | 25,857  | 2,436                   | 2,878  |
| 55-59        | 369,105   | 165,458   | 203,647   | 36,296    | 45,401    | 73,219             | 82,917    | 37,823             | 55,828    | 16,452                     | 17,348  | 1,668                   | 2,153  |
| 60-64        | 314,349   | 139,938   | 174,411   | 29,447    | 37,816    | 63,718             | 73,686    | 31,355             | 46,423    | 14,066                     | 14,694  | 1,352                   | 1,792  |
| 65-69        | 259,167   | 112,153   | 147,014   | 20,654    | 29,878    | 56,596             | 67,870    | 23,357             | 36,272    | 10,594                     | 11,762  | 952                     | 1,232  |
| 70-74        | 235,627   | 95,920    | 139,707   | 14,091    | 23,371    | 55,977             | 74,744    | 17,835             | 31,454    | 7,265                      | 8,988   | 752                     | 1,150  |
| 75-79        | 193,221   | 73,139    | 120,082   | 8,604     | 16,386    | 46,324             | 71,723    | 12,702             | 24,846    | 5,007                      | 6,181   | 502                     | 946    |
| 80-84        | 128,139   | 44,146    | 83,993    | 4,588     | 9,805     | 29,946             | 53,911    | 6,770              | 16,043    | 2,561                      | 3,657   | 281                     | 577    |
| 85 & Over    | 121,703   | 34,595    | 87,108    | 3,227     | 8,236     | 24,749             | 60,421    | 4,647              | 14,906    | 1,757                      | 2,990   | 215                     | 555    |

\* These population figures have been used since the 2002 Summary of Vital Statistics, and are based on the US Census Bureau's modification of its 2000 data correcting the reporting on race items. The major effects are a reduction of 65% in the total for Other and Multiple Race and increases of 3%, 3%, and 6% for Non-Hispanic White, Non-Hispanic Black, and Asian and Pacific Islander, respectively. There were no modifications for age and sex. See Technical Notes: Population.

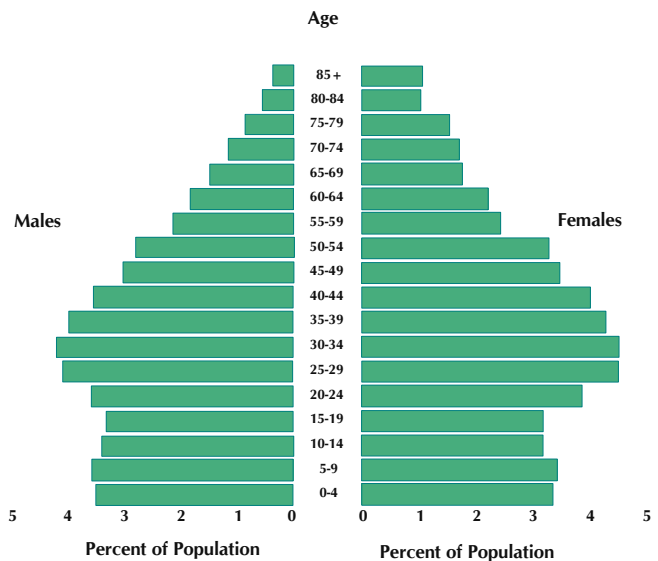


**Figure 1. Age Composition of the Population  
New York City, 1900-2000**

The changing age composition of the City reflects changes in life expectancy as well as natural historic trends. The effect of the economic depression of the 1930s on the number of live births is seen in the lower percentage of residents under age 15 in 1940, while the post-World War II baby boom increased this segment rapidly after 1950. From 1900 to 2000, the proportion of residents age 45 and over doubled, from 16% to 32%, with the greatest increase among those 85 and over. From 1990 to 2000, the proportion of residents age 65 to 84 declined 4%, while the proportion 85 and over increased 19%. Over this ten-year period, the median age of city residents increased from 33.7 to 34.2 years.

**Figure 2. Age-Sex Composition of the Population  
New York City, 2000**

This age-sex pyramid shows each age-sex group as a percent of the total population. There are more females than males overall, 53% to 47%, and more females than males in every age group over 19. The difference is the greatest among those 85 and over, where there are two and one-half times as many women as men. The smaller segment of both males and females in age group 10-14 and 15-19 reflect the lower number of births in the 1980s, compared to births in the first half of the 1990s.





**Table 3.**

**Deaths and Death Rates\* per 1,000 Population by Age, Ethnic Group\*\*, and Sex, New York City, 2005**

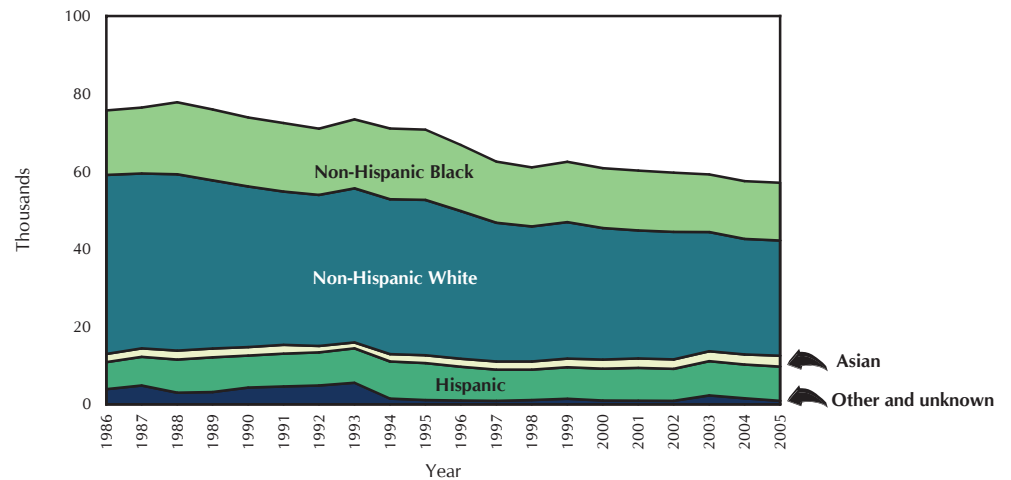
| Age in Years | All    |       |        |       |        |       | Hispanic |       |        |       | Non-Hispanic White |       |        |       | Non-Hispanic Black |       |        |       | Asian and Pacific Islander |       |        |       | Other/Multiple Race/Unknown |      |        |      |
|--------------|--------|-------|--------|-------|--------|-------|----------|-------|--------|-------|--------------------|-------|--------|-------|--------------------|-------|--------|-------|----------------------------|-------|--------|-------|-----------------------------|------|--------|------|
|              | Total  |       | Male   |       | Female |       | Male     |       | Female |       | Male               |       | Female |       | Male               |       | Female |       | Male                       |       | Female |       | Male                        |      | Female |      |
|              | Number | Rate  | Number | Rate  | Number | Rate  | Number   | Rate  | Number | Rate  | Number             | Rate  | Number | Rate  | Number             | Rate  | Number | Rate  | Number                     | Rate  | Number | Rate  | Number                      | Rate | Number | Rate |
| All Ages     | 57,068 | 7.1*  | 27,352 | 7.2   | 29,716 | 7.1   | 4,661    | 4.5   | 4,152  | 3.7   | 13,695             | 9.9   | 15,953 | 10.6  | 6,944              | 7.7   | 7,942  | 7.1   | 1,567                      | 3.8   | 1,237  | 3.0   | 485                         | -    | 432    | -    |
| Age Adjusted |        | 7.5   |        | 9.4   |        | 6.2   |          | 9.8   |        | 6.0   |                    | 8.5   |        | 5.7   |                    | 11.9  |        | 7.9   |                            | 7.3   |        | 4.9   |                             | -    |        | -    |
| Under 5      | 849    | 1.6   | 483    | 1.7   | 366    | 1.4   | 111      | 1.2   | 83     | 0.9   | 136                | 1.9   | 119    | 1.7   | 194                | 2.5   | 119    | 1.6   | 29                         | 1.1   | 25     | 1.0   | 13                          | -    | 20     | -    |
| 5-9          | 73     | 0.1   | 42     | 0.1   | 31     | 0.1   | 13       | 0.1   | 7      | 0.1   | 19                 | 0.3   | 11     | 0.2   | 7                  | 0.1   | 8      | 0.1   | 2                          | 0.1   | 5      | 0.2   | 1                           | -    | -      | -    |
| 10-14        | 106    | 0.2   | 49     | 0.2   | 57     | 0.2   | 14       | 0.2   | 18     | 0.2   | 13                 | 0.2   | 20     | 0.3   | 17                 | 0.2   | 16     | 0.2   | 4                          | 0.2   | 3      | 0.1   | 1                           | -    | -      | -    |
| 15-19        | 235    | 0.5   | 168    | 0.6   | 67     | 0.3   | 50       | 0.6   | 18     | 0.2   | 44                 | 0.7   | 14     | 0.2   | 64                 | 0.8   | 29     | 0.4   | 7                          | 0.3   | 5      | 0.2   | 3                           | -    | 1      | -    |
| 20-24        | 440    | 0.7   | 328    | 1.1   | 112    | 0.4   | 104      | 1.1   | 23     | 0.2   | 78                 | 0.9   | 36     | 0.4   | 126                | 1.9   | 42     | 0.5   | 14                         | 0.4   | 10     | 0.3   | 6                           | -    | 1      | -    |
| 25-29        | 488    | 0.7   | 341    | 1.0   | 147    | 0.4   | 96       | 1.0   | 36     | 0.4   | 70                 | 0.6   | 44     | 0.4   | 144                | 2.3   | 51     | 0.6   | 21                         | 0.5   | 13     | 0.3   | 10                          | -    | 3      | -    |
| 30-34        | 553    | 0.8   | 364    | 1.1   | 189    | 0.5   | 110      | 1.2   | 39     | 0.4   | 92                 | 0.7   | 51     | 0.4   | 134                | 1.9   | 73     | 0.8   | 19                         | 0.5   | 19     | 0.5   | 9                           | -    | 7      | -    |
| 35-39        | 873    | 1.3   | 540    | 1.7   | 333    | 1.0   | 134      | 1.6   | 66     | 0.7   | 157                | 1.3   | 86     | 0.8   | 213                | 2.9   | 157    | 1.6   | 25                         | 0.6   | 18     | 0.5   | 11                          | -    | 6      | -    |
| 40-44        | 1,501  | 2.5   | 897    | 3.1   | 604    | 1.9   | 246      | 3.4   | 135    | 1.7   | 285                | 2.6   | 147    | 1.4   | 282                | 4.1   | 282    | 3.2   | 56                         | 1.5   | 27     | 0.8   | 28                          | -    | 13     | -    |
| 45-49        | 2,153  | 4.1   | 1,337  | 5.3   | 816    | 2.9   | 332      | 5.8   | 163    | 2.4   | 455                | 4.5   | 215    | 2.1   | 448                | 7.9   | 383    | 5.1   | 78                         | 2.5   | 45     | 1.5   | 24                          | -    | 10     | -    |
| 50-54        | 2,956  | 6.1   | 1,831  | 8.3   | 1,125  | 4.3   | 432      | 9.0   | 235    | 4.0   | 661                | 6.8   | 366    | 3.5   | 579                | 12.1  | 452    | 6.8   | 110                        | 4.4   | 56     | 2.2   | 49                          | -    | 16     | -    |
| 55-59        | 3,410  | 9.2   | 2,048  | 12.4  | 1,362  | 6.7   | 408      | 11.2  | 246    | 5.4   | 824                | 11.3  | 528    | 6.4   | 662                | 17.5  | 504    | 9.0   | 111                        | 6.7   | 59     | 3.4   | 43                          | -    | 25     | -    |
| 60-64        | 3,595  | 11.4  | 2,065  | 14.8  | 1,530  | 8.8   | 392      | 13.3  | 272    | 7.2   | 828                | 13.0  | 625    | 8.5   | 685                | 21.8  | 549    | 11.8  | 124                        | 8.8   | 69     | 4.7   | 36                          | -    | 15     | -    |
| 65-69        | 4,118  | 15.9  | 2,277  | 20.3  | 1,841  | 12.5  | 424      | 20.5  | 317    | 10.6  | 1,003              | 17.7  | 768    | 11.3  | 658                | 28.2  | 635    | 17.5  | 160                        | 15.1  | 95     | 8.1   | 32                          | -    | 26     | -    |
| 70-74        | 5,189  | 22.0  | 2,782  | 29.0  | 2,407  | 17.2  | 480      | 34.1  | 432    | 18.5  | 1,371              | 24.5  | 1,090  | 14.6  | 701                | 39.3  | 742    | 23.6  | 182                        | 25.1  | 110    | 12.2  | 48                          | -    | 33     | -    |
| 75-79        | 6,804  | 35.2  | 3,335  | 45.6  | 3,469  | 28.9  | 474      | 55.1  | 507    | 30.9  | 1,890              | 40.8  | 1,849  | 25.8  | 734                | 57.8  | 931    | 37.5  | 191                        | 38.1  | 130    | 21.0  | 46                          | -    | 52     | -    |
| 80-84        | 7,951  | 62.0  | 3,443  | 78.0  | 4,508  | 53.7  | 370      | 80.6  | 534    | 54.5  | 2,164              | 72.3  | 2,686  | 49.8  | 660                | 97.5  | 1,072  | 66.8  | 197                        | 76.9  | 171    | 46.8  | 52                          | -    | 45     | -    |
| 85 & Over    | 15,774 | 129.6 | 5,022  | 145.2 | 10,752 | 123.4 | 471      | 146.0 | 1,021  | 124.0 | 3,605              | 145.7 | 7,298  | 120.8 | 636                | 136.9 | 1,897  | 127.3 | 237                        | 134.9 | 377    | 126.1 | 73                          | -    | 159    | -    |
| Mean Age     | 71.4   |       | 67.1   |       | 75.3   |       | 60.6     |       | 69.8   |       | 72.5               |       | 79.7   |       | 61.3               |       | 70.0   |       | 66.5                       |       | 71.4   |       | 63.3                        |      | 71.7   |      |
| Median Age   | 76     |       | 71     |       | 80     |       | 63       |       | 74     |       | 77                 |       | 83     |       | 64                 |       | 74     |       | 70                         |       | 77     |       | 66                          |      | 79     |      |

\* Population data are from 2000 census; compare to Table 1 where citywide rate is 7.0, based on 2005 Census Bureau's estimate.

\*\* Multiple race categories were introduced in January 2003 when New York City implemented a new death certificate form. Beginning in 2003, multiple races are included in "Other/Multiple Race/Unknown" category. See Technical Notes: Multiple Race.

**Figure 3. Deaths by Ethnic Group\* of Decedents  
New York City, 1986-2005**

Between 1986 and 2005, the overall number of deaths decreased 25%, from 75,702 to 57,068 (a 27% decline from the 1988 peak in this period). Non-Hispanic white deaths account for most of the overall deaths; they decreased 36%. Deaths among non-Hispanic blacks decreased slightly, about 10%. However, deaths among Hispanics and Asians increased about 26% and 33% respectively. Note that WTC deaths are not included in this graph for the year 2001.



\*Multiple race categories were introduced in January 2003 when New York City implemented a new death certificate form. Beginning in 2003, multiple races are included in "other and unknown" category. See Technical Notes: Multiple Race.

Table 4.

**Deaths by Cause by Decedent's Borough of Residence and Sex, and Comparability Ratio  
New York City, 2005**

| Cause (Codes from International Classification of Diseases, Tenth Revision, 1999)   | Total  | BOROUGH OF RESIDENCE |       |          |        |               |               |                   | SEX    |        | Comparability Ratio |
|---|--------|----------------------|-------|----------|--------|---------------|---------------|-------------------|--------|--------|---------------------|
|   |        | Manhattan            | Bronx | Brooklyn | Queens | Staten Island | Non-Residents | Residence Unknown | Male   | Female |                     |
| Total Deaths . . . . .  | 57,068 | 10,377               | 9,124 | 16,701   | 13,298 | 3,455         | 3,805         | 308               | 27,352 | 29,716 |                     |
| Natural Causes . . . . .  | 54,479 | 9,953                | 8,727 | 15,940   | 12,698 | 3,320         | 3,600         | 241               | 25,557 | 28,922 |                     |
| 1.# Tuberculosis (A16-A19) . . . . .  | 21     | 3                    | 3     | 8        | 5      | –             | –             | 2                 | 14     | 7      | 0.88                |
| Respiratory tuberculosis (A16) . . . . .  | 17     | 3                    | 2     | 7        | 3      | –             | –             | 2                 | 10     | 7      | 0.94                |
| 2.# Septicemia (A40-A41) . . . . .  | 365    | 56                   | 82    | 134      | 61     | 8             | 23            | 1                 | 169    | 196    | 1.19                |
| 3.# Viral hepatitis (B15-B19) . . . . .   | 385    | 74                   | 98    | 88       | 60     | 14            | 46            | 5                 | 253    | 132    | 0.71                |
| 4.# Human immunodeficiency virus (HIV) disease (B20-B24) . . . . .  | 1,419  | 321                  | 419   | 415      | 148    | 46            | 58            | 12                | 949    | 470    | 1.08                |
| 5. All other infective and parasitic diseases (Rest of A01-B99) . . . . .   | 187    | 28                   | 33    | 51       | 49     | 8             | 17            | 1                 | 85     | 102    |                     |
| West Nile Virus (A83.8, A92.3) . . . . .  | 2      | –                    | –     | –        | 2      | –             | –             | –                 | –      | 2      |                     |
| 6.# Malignant neoplasms (C00-C97) . . . . .   | 13,366 | 2,647                | 1,957 | 3,520    | 2,873  | 813           | 1,521         | 35                | 6,469  | 6,897  | 1.01                |
| Lip, oral cavity and pharynx (C00-C14) . . . . .  | 214    | 40                   | 37    | 66       | 38     | 10            | 23            | –                 | 139    | 75     | 0.96                |
| Esophagus (C15) . . . . .   | 326    | 77                   | 56    | 63       | 59     | 28            | 42            | 1                 | 232    | 94     | 0.99                |
| Stomach (C16) . . . . .   | 526    | 96                   | 76    | 148      | 135    | 29            | 42            | –                 | 303    | 223    | 1.01                |
| Colon, rectum and anus (C18-C21) . . . . .  | 1,427  | 252                  | 199   | 434      | 331    | 82            | 124           | 5                 | 669    | 758    | 1.00                |
| Liver and intrahepatic bile ducts (C22) . . . . .   | 603    | 111                  | 107   | 146      | 140    | 29            | 70            | –                 | 402    | 201    | 0.96                |
| Pancreas (C25) . . . . .  | 817    | 176                  | 123   | 193      | 191    | 56            | 76            | 2                 | 383    | 434    | 1.00                |
| Larynx (C32) . . . . .  | 120    | 26                   | 24    | 32       | 19     | 2             | 16            | 1                 | 99     | 21     | 1.01                |
| Trachea, bronchus and lung (C33-C34) . . . . .  | 2,983  | 636                  | 439   | 752      | 650    | 232           | 264           | 10                | 1,648  | 1,335  | 0.98                |
| Melanoma of skin (C43) . . . . .  | 135    | 21                   | 10    | 28       | 28     | 11            | 36            | 1                 | 78     | 57     | 0.95                |
| Mesothelioma (C45) . . . . .  | 38     | 4                    | 2     | 9        | 10     | 3             | 10            | –                 | 29     | 9      |                     |
| Breast (C50) . . . . .  | 1,263  | 241                  | 169   | 366      | 276    | 73            | 134           | 4                 | 9      | 1,254  | 1.01                |
| Cervix uteri (C53) . . . . .  | 157    | 24                   | 35    | 45       | 26     | 11            | 16            | –                 | –      | 157    | 1.00                |
| Corpus uteri and uterus, part unspecified (C54-C55) . . . . .   | 278    | 43                   | 42    | 89       | 60     | 16            | 27            | 1                 | –      | 278    | 1.02                |
| Ovary (C56) . . . . .   | 383    | 65                   | 43    | 107      | 90     | 20            | 58            | –                 | –      | 383    | 0.99                |
| Prostate (C61) . . . . .  | 724    | 153                  | 116   | 213      | 140    | 36            | 63            | 3                 | 724    | –      | 1.01                |
| Kidney and renal pelvis (C64-C65) . . . . .   | 217    | 36                   | 34    | 52       | 44     | 12            | 38            | 1                 | 133    | 84     | 1.00                |
| Bladder (C67) . . . . .   | 307    | 65                   | 45    | 66       | 79     | 25            | 27            | –                 | 191    | 116    | 1.00                |
| Meninges, brain and other parts of central nervous system (C70-C72) . . . . .   | 273    | 53                   | 32    | 68       | 56     | 17            | 47            | –                 | 156    | 117    | 0.98                |
| Lymphoid, hematopoietic and related tissues (C81-C96) . . . . .   | 1,382  | 283                  | 184   | 327      | 261    | 79            | 246           | 2                 | 726    | 656    | 1.00                |
| Hodgkin's disease (C81) . . . . .   | 38     | 7                    | 5     | 3        | 11     | 3             | 9             | –                 | 21     | 17     | 1.00                |
| Non-Hodgkin's lymphoma (C82-C85) . . . . .  | 533    | 112                  | 60    | 135      | 98     | 38            | 90            | –                 | 278    | 255    | 0.98                |
| Multiple myeloma and immunoproliferative neoplasms (C88, C90) . . . . .   | 247    | 49                   | 48    | 67       | 50     | 8             | 24            | 1                 | 110    | 137    | 1.04                |
| Leukemia (C91-C95) . . . . .  | 561    | 114                  | 71    | 121      | 101    | 30            | 123           | 1                 | 315    | 246    | 1.01                |
| 7.# In situ or benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48) . . . . .  | 245    | 42                   | 38    | 62       | 61     | 9             | 33            | –                 | 128    | 117    | 1.63                |
| 8.# Anemias (D50-D64) . . . . .   | 87     | 11                   | 17    | 31       | 21     | 1             | 6             | –                 | 38     | 49     | 0.94                |
| 9.# Diabetes mellitus (E10-E14) . . . . .   | 1,813  | 341                  | 396   | 562      | 359    | 78            | 69            | 8                 | 833    | 980    | 1.02                |
| 10.## Mental and behavioral disorders due to use of alcohol (F10) . . . . .   | 279    | 46                   | 45    | 86       | 64     | 9             | 6             | 23                | 248    | 31     |                     |
| 11. Mental and behavioral disorders due to use of psychoactive substance excluding alcohol and tobacco (F11-F16, F18-F19) . . . . .   | 843    | 179                  | 187   | 210      | 131    | 41            | 71            | 24                | 650    | 193    |                     |
| ## Mental and behavioral disorders due to use of or accidental poisoning by psychoactive substance excluding alcohol and tobacco (F11-F16, F18-F19, X40-X42, X44) . . . . . | 906    | 198                  | 192   | 228      | 143    | 44            | 76            | 25                | 685    | 221    |                     |
| 12. Diseases of nervous system (G00-G98) . . . . .  | 703    | 237                  | 126   | 122      | 154    | 28            | 34            | 2                 | 306    | 397    |                     |
| # Meningitis (G00,G03) . . . . .  | 17     | 2                    | 4     | 6        | 5      | –             | –             | –                 | 6      | 11     | 1.01                |
| # Parkinson's disease (G20-G21) . . . . .   | 140    | 65                   | 20    | 19       | 26     | 4             | 6             | –                 | 74     | 66     | 1.01                |
| # Alzheimer's disease (G30) . . . . .   | 269    | 113                  | 41    | 31       | 72     | 8             | 3             | 1                 | 82     | 187    | 1.58                |
| 13. Major cardiovascular diseases (I00-I78) . . . . .   | 25,592 | 4,079                | 3,745 | 8,057    | 6,800  | 1,649         | 1,175         | 87                | 11,215 | 14,377 | 1.00                |
| # Diseases of heart (I00-I09, I11,I13, I20-I51) . . . . .   | 22,619 | 3,435                | 3,179 | 7,268    | 6,148  | 1,542         | 972           | 75                | 9,922  | 12,697 | 0.99                |
| Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09) . . . . .  | 47     | 5                    | 7     | 11       | 8      | 3             | 13            | –                 | 10     | 37     | 0.88                |
| Hypertensive heart disease (I11) . . . . .  | 1,522  | 348                  | 316   | 494      | 272    | 28            | 56            | 8                 | 702    | 820    | 0.80                |
| Hypertensive heart and renal disease (I13) . . . . .  | 112    | 22                   | 37    | 28       | 17     | 1             | 6             | 1                 | 56     | 56     | 1.13                |

Continued on next page.

Table 4.

**Deaths by Cause by Decedent's Borough of Residence and Sex, and Comparability Ratio  
New York City, 2005 (Continued)**

| Cause (Codes from International Classification of Diseases, Tenth Revision, 1999)                       | Total  | BOROUGH OF RESIDENCE |       |          |        |               |               |                   | SEX   |        | Comparability Ratio |
|---|--------|----------------------|-------|----------|--------|---------------|---------------|-------------------|-------|--------|---------------------|
|   |        | Manhattan            | Bronx | Brooklyn | Queens | Staten Island | Non-Residents | Residence Unknown | Male  | Female |                     |
| Chronic ischemic heart disease (I20, I25) . . . . .   | 15,995 | 2,210                | 2,006 | 5,159    | 4,779  | 1,139         | 647           | 55                | 7,016 | 8,979  | 1.01                |
| Acute myocardial infarction (I21-I22) . . . . .   | 3,485  | 511                  | 566   | 1,171    | 784    | 308           | 138           | 7                 | 1,514 | 1,971  | 0.99                |
| Cardiomyopathy (I42) . . . . .  | 171    | 31                   | 17    | 52       | 39     | 4             | 28            | —                 | 108   | 63     |                     |
| Heart failure (I50) . . . . .   | 569    | 144                  | 99    | 168      | 107    | 28            | 22            | 1                 | 220   | 349    | 1.04                |
| # Essential hypertension and hypertensive renal disease (I10, I12) . . . . .                            | 761    | 164                  | 185   | 227      | 125    | 29            | 28            | 3                 | 314   | 447    | 1.12                |
| # Cerebrovascular diseases (I60-I69) . . . . .  | 1,647  | 365                  | 270   | 425      | 398    | 66            | 119           | 4                 | 671   | 976    | 1.05                |
| # Atherosclerosis (I70) . . . . .   | 174    | 31                   | 51    | 39       | 37     | 2             | 13            | 1                 | 85    | 89     | 0.97                |
| # Aortic aneurysm and dissection (I71) . . . . .  | 275    | 56                   | 31    | 69       | 72     | 8             | 36            | 3                 | 170   | 105    | 1.00                |
| 14.# Influenza and pneumonia (J10-J18) . . . . .  | 2,921  | 659                  | 399   | 860      | 576    | 298           | 117           | 12                | 1,323 | 1,598  | 0.70                |
| 15.# Chronic lower respiratory diseases (J40-J47) . . . . .   | 1,580  | 348                  | 295   | 404      | 360    | 120           | 45            | 8                 | 694   | 886    | 1.04                |
| Emphysema (J43) . . . . .   | 130    | 37                   | 14    | 39       | 26     | 11            | 2             | 1                 | 70    | 60     | 0.96                |
| Asthma (J45-J46) . . . . .  | 177    | 38                   | 46    | 53       | 28     | 10            | 1             | 1                 | 68    | 109    | 0.89                |
| 16. Pneumoconiosis due to asbestos and other mineral fibres (J61) . . . . .                             | 10     | —                    | 2     | 4        | 3      | 1             | —             | —                 | 9     | 1      |                     |
| 17.# Pneumonitis due to solids and liquids (J69) . . . . .  | 48     | 15                   | 14    | 9        | 5      | 3             | 2             | —                 | 17    | 31     | 1.10                |
| 18.# Peptic ulcer (K25-K28) . . . . .   | 96     | 16                   | 12    | 31       | 28     | 4             | 5             | —                 | 49    | 47     | 0.97                |
| 19.# Chronic liver disease and cirrhosis (K70, K73-K74) . . . . .                                       | 469    | 80                   | 91    | 143      | 81     | 28            | 42            | 4                 | 327   | 142    | 1.03                |
| Alcoholic liver disease (K70) . . . . .   | 311    | 58                   | 58    | 89       | 57     | 21            | 26            | 2                 | 235   | 76     | 1.00                |
| 20.# Cholelithiasis and other disorders of gallbladder (K80-K82) . . . . .                              | 64     | 13                   | 8     | 13       | 23     | 4             | 3             | —                 | 27    | 37     | 0.96                |
| 21.# Nephritis, nephrotic syndrome and nephrosis (N00-N07, N17-N19, N25-N27) . . . . .                  | 531    | 98                   | 96    | 170      | 118    | 25            | 23            | 1                 | 246   | 285    | 1.26                |
| Renal failure (N17-N19) . . . . .   | 521    | 94                   | 95    | 167      | 116    | 25            | 23            | 1                 | 242   | 279    | 1.33                |
| 22.# Pregnancy, childbirth and the puerperium (O00-O99) . . . . .                                       | 26     | 1                    | 7     | 11       | 4      | 1             | 2             | —                 | —     | 26     | 1.14                |
| Maternal causes* (A34, O00-O95, O98-O99) . . . . .  | 21     | 1                    | 4     | 9        | 4      | 1             | 2             | —                 | —     | 21     |                     |
| 23.# Certain conditions originating in the perinatal period (P00-P96) . . . . .                         | 428    | 54                   | 84    | 139      | 83     | 20            | 47            | 1                 | 240   | 188    | 1.08                |
| 24.# Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99) . . . . .           | 277    | 37                   | 39    | 69       | 48     | 11            | 73            | —                 | 149   | 128    | 0.90                |
| 25. Symptoms, signs and abnormal findings, not elsewhere classified (R00-R94, R96-R99) . . . . .        | 224    | 84                   | 34    | 42       | 45     | 3             | 12            | 4                 | 102   | 122    | 0.98                |
| Pending final determination (R99) . . . . .   | 3      | 2                    | —     | —        | —      | —             | 1             | —                 | 1     | 2      |                     |
| 26. Sudden infant death syndrome (R95) . . . . .  | 10     | 1                    | 3     | 3        | 2      | 1             | —             | —                 | 5     | 5      | 1.06                |
| 27. All other natural causes (Rest of A00-R99) . . . . .  | 2,490  | 483                  | 497   | 696      | 536    | 97            | 170           | 11                | 1,012 | 1,478  |                     |
| External Causes . . . . .   | 2,589  | 424                  | 397   | 761      | 600    | 135           | 205           | 67                | 1,795 | 794    |                     |
| Injury by firearms (W32-W34, X72-X74, X93-X95, Y22-Y24, Y35.0) . . . . .                                | 413    | 48                   | 84    | 153      | 82     | 21            | 24            | 1                 | 376   | 37     | 1.00                |
| 28.## Accidents (V01-X59, Y85-Y86) . . . . .  | 1,222  | 192                  | 164   | 331      | 332    | 68            | 106           | 29                | 765   | 457    | 1.03                |
| Accidental poisoning by psychoactive substances, excluding alcohol and tobacco (X40-X42, X44) . . . . . | 63     | 19                   | 5     | 18       | 12     | 3             | 5             | 1                 | 35    | 28     | 1.04                |
| Motor vehicle accidents** . . . . .   | 380    | 47                   | 46    | 116      | 93     | 26            | 41            | 11                | 270   | 110    | 0.95                |
| Accidental falls (W00-W19) . . . . .  | 470    | 76                   | 77    | 116      | 145    | 19            | 33            | 4                 | 251   | 219    | 0.77                |
| 29.# Intentional self-harm (suicide) (X60-X84, Y87.0) . . . . .   | 481    | 113                  | 65    | 112      | 116    | 32            | 36            | 7                 | 358   | 123    | 1.00                |
| 30.# Assault (homicide) (X85-Y09, Y87.1) . . . . .  | 579    | 79                   | 135   | 205      | 95     | 20            | 36            | 9                 | 478   | 101    | 1.00                |
| 31.# Legal Intervention (Y35, Y89.0) . . . . .  | 5      | 1                    | 1     | 2        | —      | —             | —             | 1                 | 5     | —      | 0.94                |
| 32. Events of undetermined intent (Y10-Y34, Y87.2, Y89.9) . . . . .                                     | 269    | 34                   | 28    | 100      | 54     | 11            | 21            | 21                | 175   | 94     | 0.99                |
| 33.# Complications of medical and surgical care (Y40-Y84, Y88) . . . . .                                | 32     | 5                    | 4     | 10       | 3      | 4             | 6             | —                 | 13    | 19     | 0.63                |
| 34.# Operations of war and their sequelae (Y36, Y89.1) . . . . .  | 1      | —                    | —     | 1        | —      | —             | —             | —                 | 1     | —      |                     |

Note: Beginning January 1, 1999 all causes were coded using ICD-10. The comparability ratio represents the net effects of changing from ICD-9 to ICD-10 for the selected cause or group of causes. NCHS has finalized comparability ratios based on all death certificates in 1996. See Technical Notes: Comparability Ratio.

\* Maternal deaths exclude deaths occurring more than 42 days after the termination of pregnancy, and includes obstetrical tetanus. See Technical Notes: Maternal Death and Maternal Mortality.

\*\*Motor vehicle accident codes include V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2.

# Eligible to be ranked as leading causes nationally and in New York City. Several causes were added to this list in 2000 and 2003; they are of relatively low frequency in New York City and do not affect rankings of leading causes in 1999-2005.

## Three cause groups are treated differently in New York City than they are nationally; mental and behavioral disorders due to use of alcohol, and mental and behavioral disorders due to use of psychoactive substance excluding alcohol and tobacco are eligible to be ranked as leading causes in New York City because of the number of deaths and their public health importance. Accidental deaths are ranked without those due to poisoning by psychoactive substances excluding alcohol and tobacco.

**Table 5. Leading Causes of Death in Specified Age Groups by Sex  
New York City, 2005**

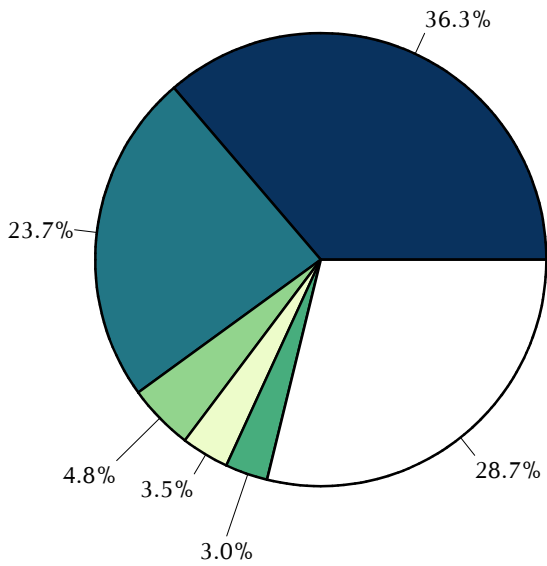
| Rank | ALL AGES   | Male   |         | Female |         | All    |         |
|------|--|--------|---------|--------|---------|--------|---------|
|      |  | Deaths | Percent | Deaths | Percent | Deaths | Percent |
| 1    | Diseases of Heart . . . . .  | 9,922  | 36.3    | 12,697 | 42.7    | 22,619 | 39.6    |
| 2    | Malignant Neoplasms . . . . .  | 6,469  | 23.7    | 6,897  | 23.2    | 13,366 | 23.4    |
| 3    | Influenza and Pneumonia . . . . .                                      | 1,323  | 4.8     | 1,598  | 5.4     | 2,921  | 5.1     |
| 4    | Diabetes Mellitus . . . . .  | 833    | 3.0     | 980    | 3.3     | 1,813  | 3.2     |
| 5    | Cerebrovascular Diseases . . . . .                                     | 671    | 2.5     | 976    | 3.3     | 1,647  | 2.9     |
| 6    | Chronic Lower Respiratory Diseases . . . . .                           | 694    | 2.5     | 886    | 3.0     | 1,580  | 2.8     |
| 7    | Human Immunodeficiency Virus (HIV) Disease . . . . .                   | 949    | 3.5     | 470    | 1.6     | 1,419  | 2.5     |
| 8    | Accidents Except Poisoning by Psychoactive Substance . . . . .         | 730    | 2.7     | 429    | 1.4     | 1,159  | 2.0     |
| 9    | Use of or Poisoning by Psychoactive Substance . . . . .                | 685    | 2.5     | 221    | 0.7     | 906    | 1.6     |
| 10   | Essential Hypertension and Renal Diseases . . . . .                    | 314    | 1.1     | 447    | 1.5     | 761    | 1.3     |
|      | All Other Causes . . . . .   | 4,762  | 17.4    | 4,115  | 13.8    | 8,877  | 15.6    |
|      | Total . . . . .  | 27,352 | 100.0   | 29,716 | 100.0   | 57,068 | 100.0   |
| Rank | UNDER 1 YEAR   | Deaths | Percent | Deaths | Percent | Deaths | Percent |
| 1    | Congenital Malformations, Deformations . . . . .                       | 77     | 18.4    | 54     | 17.3    | 131    | 17.9    |
| 2    | Cardiovascular Disorders Originating in the Perinatal Period . . . . . | 63     | 15.0    | 48     | 15.3    | 111    | 15.2    |
| 3    | Short Gestation and Low Birth Weight . . . . .                         | 60     | 14.3    | 49     | 15.7    | 109    | 14.9    |
| 4    | External Causes . . . . .  | 34     | 8.1     | 32     | 10.2    | 66     | 9.0     |
| 5    | Respiratory Distress of Newborn . . . . .                              | 30     | 7.2     | 23     | 7.3     | 53     | 7.2     |
| 6    | Newborn Affected by Complications of Pregnancy . . . . .               | 7      | 1.7     | 10     | 3.2     | 17     | 2.3     |
| 6    | Pulmonary Hemorrhage Originating in the Perinatal Period . . . . .     | 13     | 3.1     | 4      | 1.3     | 17     | 2.3     |
| 8    | Bacterial Sepsis of Newborn . . . . .                                  | 11     | 2.6     | 5      | 1.6     | 16     | 2.2     |
| 9    | Neonatal Hemorrhage . . . . .  | 5      | 1.2     | 10     | 3.2     | 15     | 2.0     |
| 9    | Necrotizing Enterocolitis of Newborn . . . . .                         | 9      | 2.1     | 6      | 1.9     | 15     | 2.0     |
|      | All Other Causes . . . . .   | 110    | 26.3    | 72     | 23.0    | 182    | 24.9    |
|      | Total . . . . .  | 419    | 100.0   | 313    | 100.0   | 732    | 100.0   |
| Rank | 1 TO 14 YEARS  | Deaths | Percent | Deaths | Percent | Deaths | Percent |
| 1    | Malignant Neoplasms . . . . .  | 34     | 21.9    | 25     | 17.7    | 59     | 19.9    |
| 2    | Congenital Malformations, Deformations . . . . .                       | 18     | 11.6    | 28     | 19.9    | 46     | 15.5    |
| 3    | Accidents Except Poisoning by Psychoactive Substance . . . . .         | 22     | 14.2    | 18     | 12.8    | 40     | 13.5    |
| 4    | Assault (Homicide) . . . . .   | 11     | 7.1     | 6      | 4.3     | 17     | 5.7     |
| 5    | Chronic Lower Respiratory Diseases . . . . .                           | 8      | 5.2     | 4      | 2.8     | 12     | 4.1     |
| 6    | Diseases of Heart . . . . .  | 6      | 3.9     | 4      | 2.8     | 10     | 3.4     |
| 7    | Cerebrovascular Diseases . . . . .                                     | 4      | 2.6     | 3      | 2.1     | 7      | 2.4     |
| 8    | Influenza and Pneumonia . . . . .                                      | 5      | 3.2     | 1      | 0.7     | 6      | 2.0     |
| 8    | In Situ, Benign and Uncertain Neoplasms . . . . .                      | 4      | 2.6     | 2      | 1.4     | 6      | 2.0     |
| 10   | Intentional Self-harm (Suicide) . . . . .                              | 3      | 1.9     | 2      | 1.4     | 5      | 1.7     |
|      | All Other Causes . . . . .   | 40     | 25.8    | 48     | 34.0    | 88     | 29.7    |
|      | Total . . . . .  | 155    | 100.0   | 141    | 100.0   | 296    | 100.0   |
| Rank | 15 TO 24 YEARS   | Deaths | Percent | Deaths | Percent | Deaths | Percent |
| 1    | Assault (Homicide) . . . . .   | 154    | 31.0    | 23     | 12.8    | 177    | 26.2    |
| 2    | Accidents Except Poisoning by Psychoactive Substance . . . . .         | 86     | 17.3    | 21     | 11.7    | 107    | 15.9    |
| 3    | Malignant Neoplasms . . . . .  | 45     | 9.1     | 27     | 15.1    | 72     | 10.7    |
| 4    | Intentional Self-harm (Suicide) . . . . .                              | 42     | 8.5     | 17     | 9.5     | 59     | 8.7     |
| 5    | Use of or Poisoning by Psychoactive Substance . . . . .                | 41     | 8.3     | 12     | 6.7     | 53     | 7.9     |
| 6    | Diseases of Heart . . . . .  | 20     | 4.0     | 4      | 2.2     | 24     | 3.6     |
| 7    | Human Immunodeficiency Virus (HIV) Disease . . . . .                   | 14     | 2.8     | 8      | 4.5     | 22     | 3.3     |
| 8    | Congenital Malformations, Deformations . . . . .                       | 12     | 2.4     | 9      | 5.0     | 21     | 3.1     |
| 9    | Anemias . . . . .  | 11     | 2.2     | 3      | 1.7     | 14     | 2.1     |
| 10   | Chronic Lower Respiratory Diseases . . . . .                           | 5      | 1.0     | 2      | 1.1     | 7      | 1.0     |
| 10   | Diabetes Mellitus . . . . .  | 2      | 0.4     | 5      | 2.8     | 7      | 1.0     |
| 10   | Cerebrovascular Diseases . . . . .                                     | 5      | 1.0     | 2      | 1.1     | 7      | 1.0     |
|      | All Other Causes . . . . .   | 59     | 11.9    | 46     | 25.7    | 105    | 15.6    |
|      | Total . . . . .  | 496    | 100.0   | 179    | 100.0   | 675    | 100.0   |
| Rank | 25 TO 34 YEARS   | Deaths | Percent | Deaths | Percent | Deaths | Percent |
| 1    | Assault (Homicide) . . . . .   | 145    | 20.6    | 24     | 7.1     | 169    | 16.2    |
| 2    | Malignant Neoplasms . . . . .  | 60     | 8.5     | 66     | 19.6    | 126    | 12.1    |
| 3    | Use of or Poisoning by Psychoactive Substance . . . . .                | 89     | 12.6    | 21     | 6.3     | 110    | 10.6    |
| 4    | Accidents Except Poisoning by Psychoactive Substance . . . . .         | 94     | 13.3    | 14     | 4.2     | 108    | 10.4    |
| 5    | Human Immunodeficiency Virus (HIV) Disease . . . . .                   | 59     | 8.4     | 33     | 9.8     | 92     | 8.8     |
| 6    | Intentional Self-harm (Suicide) . . . . .                              | 67     | 9.5     | 24     | 7.1     | 91     | 8.7     |
| 7    | Diseases of Heart . . . . .  | 50     | 7.1     | 31     | 9.2     | 81     | 7.8     |
| 8    | Diabetes Mellitus . . . . .  | 15     | 2.1     | 12     | 3.6     | 27     | 2.6     |
| 9    | Cerebrovascular Diseases . . . . .                                     | 10     | 1.4     | 10     | 3.0     | 20     | 1.9     |
| 10   | Pregnancy, Childbirth and the Puerperium . . . . .                     | –      | 0.0     | 14     | 4.2     | 14     | 1.3     |
| 10   | Congenital Malformations, Deformations . . . . .                       | 9      | 1.3     | 5      | 1.5     | 14     | 1.3     |
|      | All Other Causes . . . . .   | 107    | 15.2    | 82     | 24.4    | 189    | 18.2    |
|      | Total . . . . .  | 705    | 100.0   | 336    | 100.0   | 1,041  | 100.0   |

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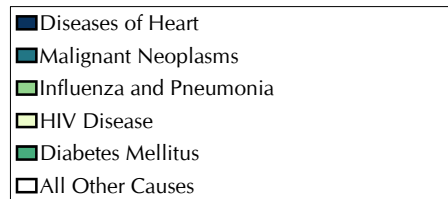
Note: The ten leading causes of death in each age group for both sexes combined are arranged in decreasing order of frequency.

| Rank | 35 TO 44 YEARS  | Male   |         | Female |         | All    |         |
|------|---|--------|---------|--------|---------|--------|---------|
|      |   | Deaths | Percent | Deaths | Percent | Deaths | Percent |
| 1    | Malignant Neoplasms. ....                                   | 201    | 14.0    | 278    | 29.7    | 479    | 20.2    |
| 2    | Human Immunodeficiency Virus (HIV) Disease. ....            | 241    | 16.8    | 166    | 17.7    | 407    | 17.1    |
| 3    | Diseases of Heart. ....                                     | 203    | 14.1    | 93     | 9.9     | 296    | 12.5    |
| 4    | Use of or Poisoning by Psychoactive Substance. ....         | 180    | 12.5    | 76     | 8.1     | 256    | 10.8    |
| 5    | Accidents Except Poisoning by Psychoactive Substance. ....  | 78     | 5.4     | 27     | 2.9     | 105    | 4.4     |
| 6    | Assault (Homicide). ....                                    | 82     | 5.7     | 18     | 1.9     | 100    | 4.2     |
| 7    | Intentional Self-harm (Suicide). ....                       | 70     | 4.9     | 15     | 1.6     | 85     | 3.6     |
| 8    | Cerebrovascular Diseases. ....                              | 20     | 1.4     | 34     | 3.6     | 54     | 2.3     |
| 9    | Mental Disorders due to Use of Alcohol. ....                | 46     | 3.2     | 3      | 0.3     | 49     | 2.1     |
| 10   | Diabetes Mellitus. ....                                     | 31     | 2.2     | 14     | 1.5     | 45     | 1.9     |
|      | All Other Causes. ....                                      | 285    | 19.8    | 213    | 22.7    | 498    | 21.0    |
|      | Total. ....   | 1,437  | 100.0   | 937    | 100.0   | 2,374  | 100.0   |
| Rank | 45 TO 54 YEARS  | Deaths | Percent | Deaths | Percent | Deaths | Percent |
| 1    | Malignant Neoplasms. ....                                   | 666    | 21.0    | 733    | 37.8    | 1,399  | 27.4    |
| 2    | Diseases of Heart. ....                                     | 703    | 22.2    | 337    | 17.4    | 1,040  | 20.4    |
| 3    | Human Immunodeficiency Virus (HIV) Disease. ....            | 400    | 12.6    | 186    | 9.6     | 586    | 11.5    |
| 4    | Use of or Poisoning by Psychoactive Substance. ....         | 261    | 8.2     | 82     | 4.2     | 343    | 6.7     |
| 5    | Accidents Except Poisoning by Psychoactive Substance. ....  | 109    | 3.4     | 32     | 1.6     | 141    | 2.8     |
| 6    | Diabetes Mellitus. ....                                     | 80     | 2.5     | 59     | 3.0     | 139    | 2.7     |
| 7    | Viral Hepatitis. ....                                       | 96     | 3.0     | 32     | 1.6     | 128    | 2.5     |
| 8    | Chronic Liver Disease and Cirrhosis. ....                   | 92     | 2.9     | 32     | 1.6     | 124    | 2.4     |
| 9    | Cerebrovascular Diseases. ....                              | 63     | 2.0     | 55     | 2.8     | 118    | 2.3     |
| 10   | Intentional Self-harm (Suicide). ....                       | 85     | 2.7     | 27     | 1.4     | 112    | 2.2     |
|      | All Other Causes. ....                                      | 613    | 19.3    | 366    | 18.9    | 979    | 19.2    |
|      | Total. ....   | 3,168  | 100.0   | 1,941  | 100.0   | 5,109  | 100.0   |
| Rank | 55 TO 64 YEARS  | Deaths | Percent | Deaths | Percent | Deaths | Percent |
| 1    | Malignant Neoplasms. ....                                   | 1,280  | 31.1    | 1,235  | 42.7    | 2,515  | 35.9    |
| 2    | Diseases of Heart. ....                                     | 1,282  | 31.2    | 741    | 25.6    | 2,023  | 28.9    |
| 3    | Diabetes Mellitus. ....                                     | 140    | 3.4     | 126    | 4.4     | 266    | 3.8     |
| 4    | Human Immunodeficiency Virus (HIV) Disease. ....            | 185    | 4.5     | 56     | 1.9     | 241    | 3.4     |
| 5    | Influenza and Pneumonia. ....                               | 119    | 2.9     | 84     | 2.9     | 203    | 2.9     |
| 6    | Cerebrovascular Diseases. ....                              | 103    | 2.5     | 86     | 3.0     | 189    | 2.7     |
| 7    | Chronic Lower Respiratory Diseases. ....                    | 88     | 2.1     | 81     | 2.8     | 169    | 2.4     |
| 8    | Chronic Liver Disease and Cirrhosis. ....                   | 97     | 2.4     | 37     | 1.3     | 134    | 1.9     |
| 9    | Use of or Poisoning by Psychoactive Substance. ....         | 93     | 2.3     | 28     | 1.0     | 121    | 1.7     |
| 10   | Viral Hepatitis. ....                                       | 76     | 1.8     | 39     | 1.3     | 115    | 1.6     |
|      | All Other Causes. ....                                      | 650    | 15.8    | 379    | 13.1    | 1,029  | 14.7    |
|      | Total. ....   | 4,113  | 100.0   | 2,892  | 100.0   | 7,005  | 100.0   |
| Rank | 65 TO 74 YEARS  | Deaths | Percent | Deaths | Percent | Deaths | Percent |
| 1    | Diseases of Heart. ....                                     | 1,867  | 36.9    | 1,402  | 33.0    | 3,269  | 35.1    |
| 2    | Malignant Neoplasms. ....                                   | 1,676  | 33.1    | 1,539  | 36.2    | 3,215  | 34.5    |
| 3    | Diabetes Mellitus. ....                                     | 225    | 4.4     | 206    | 4.8     | 431    | 4.6     |
| 4    | Influenza and Pneumonia. ....                               | 206    | 4.1     | 166    | 3.9     | 372    | 4.0     |
| 5    | Chronic Lower Respiratory Diseases. ....                    | 147    | 2.9     | 142    | 3.3     | 289    | 3.1     |
| 6    | Cerebrovascular Diseases. ....                              | 127    | 2.5     | 144    | 3.4     | 271    | 2.9     |
| 7    | Essential Hypertension and Hypertensive Renal Disease. .... | 70     | 1.4     | 65     | 1.5     | 135    | 1.5     |
| 8    | Accidents Except Poisoning by Psychoactive Substance. ....  | 86     | 1.7     | 48     | 1.1     | 134    | 1.4     |
| 9    | Chronic Liver Disease and Cirrhosis. ....                   | 71     | 1.4     | 33     | 0.8     | 104    | 1.1     |
| 10   | Nephritis, Nephrotic Syndrome and Nephrosis. ....           | 45     | 0.9     | 55     | 1.3     | 100    | 1.1     |
|      | All Other Causes. ....                                      | 539    | 10.7    | 448    | 10.5    | 987    | 10.6    |
|      | Total. ....   | 5,059  | 100.0   | 4,248  | 100.0   | 9,307  | 100.0   |
| Rank | 75 TO 84 YEARS  | Deaths | Percent | Deaths | Percent | Deaths | Percent |
| 1    | Diseases of Heart. ....                                     | 3,050  | 45.0    | 3,697  | 46.3    | 6,747  | 45.7    |
| 2    | Malignant Neoplasms. ....                                   | 1,725  | 25.4    | 1,844  | 23.1    | 3,569  | 24.2    |
| 3    | Influenza and Pneumonia. ....                               | 432    | 6.4     | 479    | 6.0     | 911    | 6.2     |
| 4    | Chronic Lower Respiratory Diseases. ....                    | 242    | 3.6     | 303    | 3.8     | 545    | 3.7     |
| 5    | Diabetes Mellitus. ....                                     | 221    | 3.3     | 289    | 3.6     | 510    | 3.5     |
| 6    | Cerebrovascular Diseases. ....                              | 197    | 2.9     | 270    | 3.4     | 467    | 3.2     |
| 7    | Essential Hypertension and Hypertensive Renal Disease. .... | 92     | 1.4     | 123    | 1.5     | 215    | 1.5     |
| 8    | Accidents Except Poisoning by Psychoactive Substance. ....  | 90     | 1.3     | 92     | 1.2     | 182    | 1.2     |
| 9    | Nephritis, Nephrotic Syndrome and Nephrosis. ....           | 74     | 1.1     | 83     | 1.0     | 157    | 1.1     |
| 10   | Septicemia. ....  | 49     | 0.7     | 68     | 0.9     | 117    | 0.8     |
|      | All Other Causes. ....                                      | 606    | 8.9     | 729    | 9.1     | 1,335  | 9.0     |
|      | Total. ....   | 6,778  | 100.0   | 7,977  | 100.0   | 14,755 | 100.0   |
| Rank | 85 AND OVER   | Deaths | Percent | Deaths | Percent | Deaths | Percent |
| 1    | Diseases of Heart. ....                                     | 2,735  | 54.5    | 6,381  | 59.3    | 9,116  | 57.8    |
| 2    | Malignant Neoplasms. ....                                   | 780    | 15.5    | 1,150  | 10.7    | 1,930  | 12.2    |
| 3    | Influenza and Pneumonia. ....                               | 459    | 9.1     | 812    | 7.6     | 1,271  | 8.1     |
| 4    | Cerebrovascular Diseases. ....                              | 140    | 2.8     | 372    | 3.5     | 512    | 3.2     |
| 5    | Chronic Lower Respiratory Diseases. ....                    | 146    | 2.9     | 289    | 2.7     | 435    | 2.8     |
| 6    | Diabetes Mellitus. ....                                     | 119    | 2.4     | 269    | 2.5     | 388    | 2.5     |
| 7    | Essential Hypertension and Hypertensive Renal Disease. .... | 72     | 1.4     | 189    | 1.8     | 261    | 1.7     |
| 8    | Accidents Except Poisoning by Psychoactive Substance. ....  | 79     | 1.6     | 136    | 1.3     | 215    | 1.4     |
| 9    | Alzheimer's Disease. ....                                   | 43     | 0.9     | 126    | 1.2     | 169    | 1.1     |
| 10   | Nephritis, Nephrotic Syndrome and Nephrosis. ....           | 47     | 0.9     | 98     | 0.9     | 145    | 0.9     |
|      | All Other Causes. ....                                      | 402    | 8.0     | 930    | 8.6     | 1,332  | 8.4     |
|      | Total. ....   | 5,022  | 100.0   | 10,752 | 100.0   | 15,774 | 100.0   |

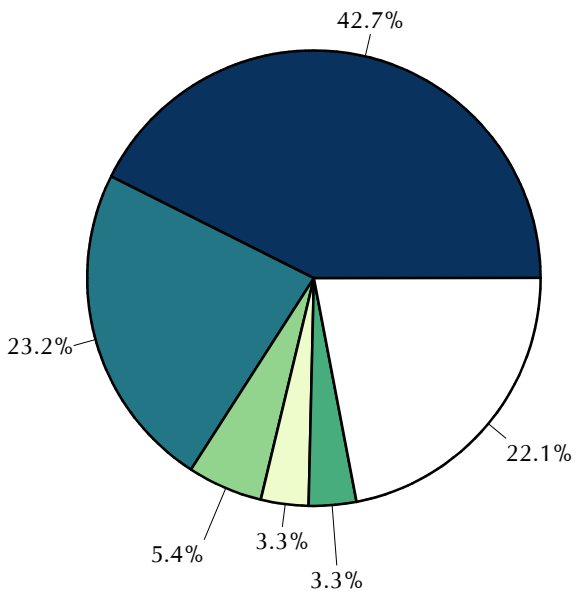
**Figure 4. Leading Causes of Death for Men  
New York City, 2005**



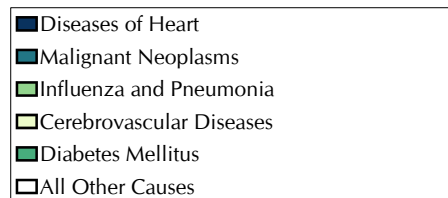
About sixty percent of the 27,352 deaths among New York City men in 2005 were caused by either diseases of the heart (36.3%) or malignant neoplasms (23.7%). Influenza and pneumonia caused 4.8% of deaths, HIV diseases caused 3.5% of deaths, and diabetes mellitus caused 3.0% of deaths. All remaining causes of deaths among men accounted for 28.7% of total deaths.

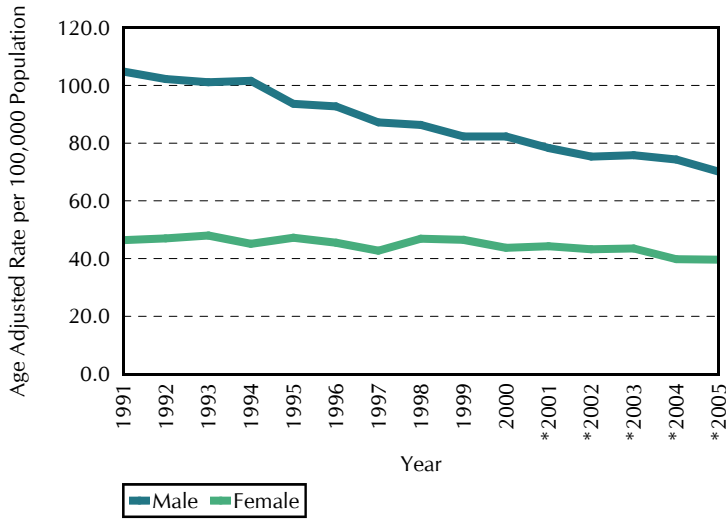


**Figure 5. Leading Causes of Death for Women  
New York City, 2005**



The two leading causes of death among women were the same as for men, diseases of the heart and malignant neoplasms, accounting for 65.9% of the 29,716 deaths. Influenza and pneumonia caused 5.4% of deaths. The fourth and fifth leading causes in women differ from those of men: cerebrovascular diseases and diabetes mellitus each caused 3.3% of deaths in 2005. All remaining causes of deaths among women accounted for 22.1% of total deaths.



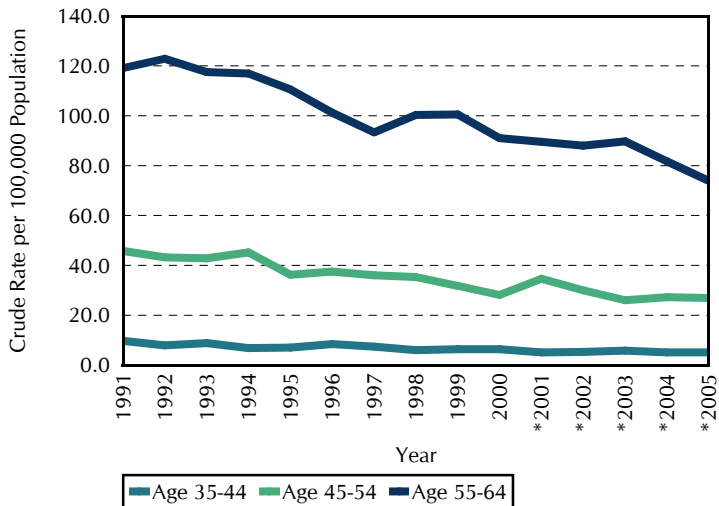


**Figure 6a. Age Adjusted Death Rates\* for Malignant Neoplasms (Trachea, Bronchus, and Lung) by Sex Age 20 and Over, New York City, 1991-2005**

Trachea, bronchus, and lung cancers are the leading causes of death among all cancers. The age adjusted death rates for men decreased dramatically in the past 15 years, from 104.8 per 100,000 population in 1991 to 70.1 in 2005. In contrast, the same age adjusted rate did not change much for women in the same time period, from 46.4 per 100,000 population in 1991 to 39.6 in 2005.

\*Population data in 1991-1999 are interpolated from 1990 and 2000 census data. Population data for 2001-2005 are from U.S. Census Bureau's estimates. See Technical Notes: Population.

ICD-9 is used to code cause of death for 1991-1998; ICD-10 is used to code cause of death for 1999-2005. Comparability ratios from ICD-9 to ICD-10 are 0.98 for male and 0.99 for female, respectively.

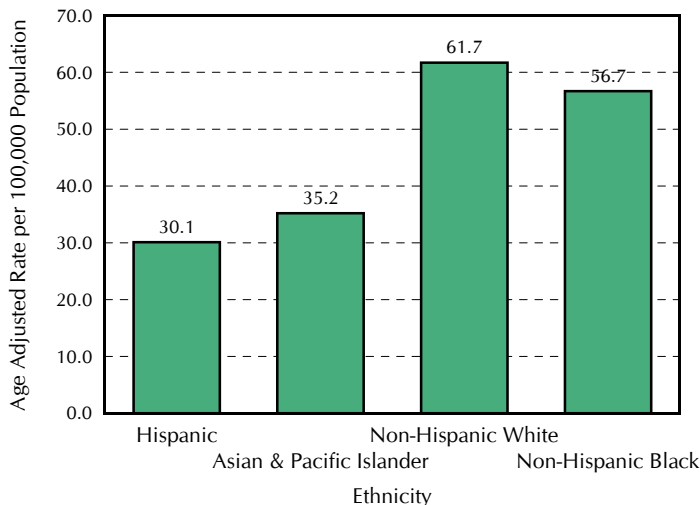


**Figure 6b. Crude Death Rates\* for Malignant Neoplasms (Trachea, Bronchus, and Lung), Selected Age Groups New York City, 1991-2005**

Trachea, bronchus, and lung cancers are the leading causes of death among all cancers. The crude death rates for selected age groups all decreased in the past 15 years, changing from 119.1 per 100,000 population to 73.9 for age group 55-64, from 45.8 to 26.9 for age group 45-54, and 9.7 to 5.1 for age group 35-44 from 1991 to 2005.

\*Population data in 1991-1999 are interpolated from 1990 and 2000 census data. Population data for 2001-2005 are from U.S. Census Bureau's estimates. See Technical Notes: Population.

ICD-9 is used to code cause of death for 1991-1998; ICD-10 is used to code cause of death for 1999-2005.



**Figure 7. Age Adjusted Death Rates\* for Malignant Neoplasms (Trachea, Bronchus, and Lung) by Ethnicity Age 20 and Over, New York City, 2005**

The age adjusted rate of trachea, bronchus, and lung cancer is the lowest for Hispanics, at 36.9 per 100,000 population. The same age adjusted rate is the highest for Non-Hispanic blacks, at 62.1 per 100,000 population. For Asian and Pacific Islanders and Non-Hispanic whites, the rates are in between, at 46.7 and 60.6 per 100,000 population respectively.

\*Population data are from 2005 U.S. Census Bureau's estimates. See Technical Notes: Population.

Table 5a.

Leading Causes of Death by Sex, Age Under 65  
New York City, 2005

| Rank | Cause of Death   | Male   |         | Female |         | All    |         |
|------|--|--------|---------|--------|---------|--------|---------|
|      |  | Deaths | Percent | Deaths | Percent | Deaths | Percent |
| 1    | Malignant Neoplasms . . . . .                                  | 2,288  | 21.8    | 2,364  | 35.1    | 4,652  | 27.0    |
|      | Trachea, bronchus, and lung . . . . .                          | 558    | 5.3     | 403    | 6.0     | 961    | 5.6     |
|      | Breast . . . . .   | 3      | 0.0     | 574    | 8.5     | 577    | 3.3     |
|      | Colon, rectum, and anus . . . . .                              | 188    | 1.8     | 165    | 2.4     | 353    | 2.0     |
|      | Liver and intrahepatic bile ducts . . . . .                    | 209    | 2.0     | 57     | 0.8     | 266    | 1.5     |
|      | Pancreas . . . . .   | 151    | 1.4     | 98     | 1.5     | 249    | 1.4     |
| 2    | Diseases of Heart . . . . .                                    | 2,270  | 21.6    | 1,217  | 18.1    | 3,487  | 20.2    |
| 3    | Human Immunodeficiency Virus (HIV) Disease . . . . .           | 901    | 8.6     | 451    | 6.7     | 1,352  | 7.8     |
| 4    | Use of or Poisoning by Psychoactive Substance . . . . .        | 664    | 6.3     | 219    | 3.2     | 883    | 5.1     |
| 5    | Accidents Except Poisoning by Psychoactive Substance . . . . . | 475    | 4.5     | 153    | 2.3     | 628    | 3.6     |
| 6    | Assault (Homicide) . . . . .                                   | 463    | 4.4     | 98     | 1.5     | 561    | 3.3     |
| 7    | Diabetes Mellitus . . . . .                                    | 268    | 2.6     | 216    | 3.2     | 484    | 2.8     |
| 8    | Intentional Self-harm (Suicide) . . . . .                      | 308    | 2.9     | 100    | 1.5     | 408    | 2.4     |
| 9    | Cerebrovascular Diseases . . . . .                             | 207    | 2.0     | 190    | 2.8     | 397    | 2.3     |
| 10   | Influenza and Pneumonia . . . . .                              | 226    | 2.2     | 141    | 2.1     | 367    | 2.1     |
|      | All Other Causes . . . . .                                     | 2,423  | 23.1    | 1,590  | 23.6    | 4,013  | 23.3    |
|      | Total . . . . .  | 10,493 | 100.0   | 6,739  | 100.0   | 17,232 | 100.0   |

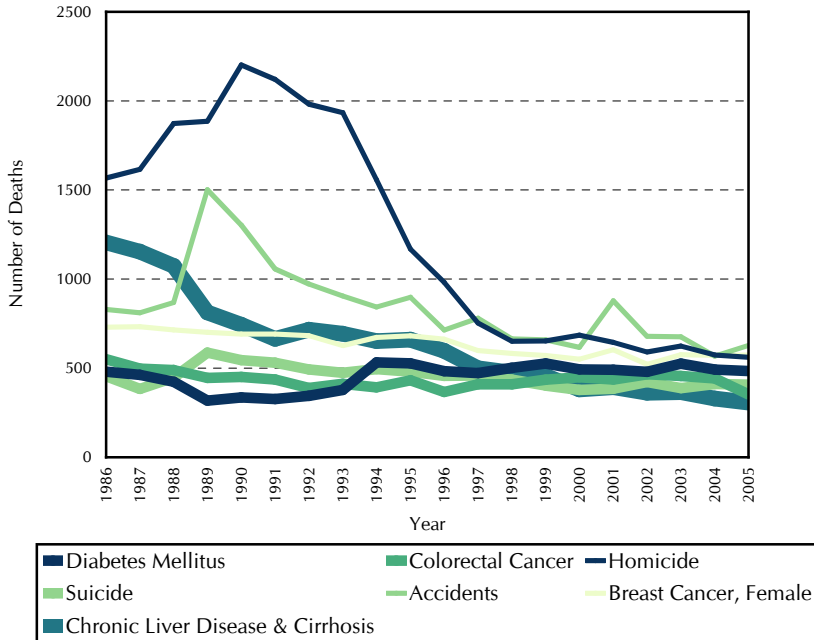


Figure 8. Number of Deaths from Selected Causes Age under 65, New York City, 1986-2005

The number of homicide deaths to those under 65 years of age declined steadily between 1990 and 1998. It has remained near 600 deaths per year, with 561 homicide deaths in 2005. (Note, all reported WTC deaths are homicides and not included for the year 2001.) Suicide deaths declined slightly in the past two decades, from 455 in 1986 to 408 in 2005; suicide deaths peaked in 1989. The number of colorectal cancer deaths occurring among those under 65 years of age also declined in the past two decades, from 550 to 353, with a 20% decline from 443 in 2004. Accidental deaths have fluctuated while decreasing since their surge in 2001 due to the Flight 587 air crash. During the past two decades, diabetes mellitus declined to a low of 318 deaths in 1989 and then increased; since 1994, it has remained near 500 deaths per year. Chronic liver disease and cirrhosis has declined approximately 75% over the past two decades from 1206 in 1986 to 307 in 2005. Breast cancer deaths in women have decreased slowly over the past two decades from approximately 700 deaths per year to 500 to 600 deaths per year since 1997.



Table 6.

**Leading Causes of Death in Specified Ethnic Groups\* by Sex  
New York City, 2005**

| Rank | Puerto Rican   | Male   |         | Female |         | All    |         |
|------|--|--------|---------|--------|---------|--------|---------|
|      |  | Deaths | Percent | Deaths | Percent | Deaths | Percent |
| 1    | Diseases of Heart. . . . .                                     | 740    | 28.3    | 807    | 34.5    | 1,547  | 31.2    |
| 2    | Malignant Neoplasms. . . . .                                   | 560    | 21.4    | 475    | 20.3    | 1,035  | 20.9    |
| 3    | Human Immunodeficiency Virus (HIV) Disease. . . . .            | 206    | 7.9     | 83     | 3.6     | 289    | 5.8     |
| 4    | Influenza and Pneumonia. . . . .                               | 122    | 4.7     | 148    | 6.3     | 270    | 5.4     |
| 5    | Diabetes Mellitus. . . . .                                     | 109    | 4.2     | 120    | 5.1     | 229    | 4.6     |
| 6    | Chronic Lower Respiratory Diseases. . . . .                    | 65     | 2.5     | 91     | 3.9     | 156    | 3.1     |
| 7    | Use of or Poisoning by Psychoactive Substance . . . . .        | 131    | 5.0     | 24     | 1.0     | 155    | 3.1     |
| 8    | Cerebrovascular Diseases. . . . .                              | 68     | 2.6     | 84     | 3.6     | 152    | 3.1     |
| 9    | Accidents Except Poisoning by Psychoactive Substance. . . . .  | 58     | 2.2     | 37     | 1.6     | 95     | 1.9     |
| 10   | Chronic Liver Disease and Cirrhosis. . . . .                   | 75     | 2.9     | 18     | 0.8     | 93     | 1.9     |
|      | All Other Causes . . . . .                                     | 483    | 18.5    | 451    | 19.3    | 934    | 18.8    |
|      | Total . . . . .  | 2,617  | 100.0   | 2,338  | 100.0   | 4,955  | 100.0   |
| Rank | Other Hispanic   | Deaths | Percent | Deaths | Percent | Deaths | Percent |
| 1    | Diseases of Heart. . . . .                                     | 521    | 25.5    | 609    | 33.6    | 1,130  | 29.3    |
| 2    | Malignant Neoplasms. . . . .                                   | 455    | 22.3    | 474    | 26.1    | 929    | 24.1    |
| 3    | Influenza and Pneumonia. . . . .                               | 94     | 4.6     | 84     | 4.6     | 178    | 4.6     |
| 4    | Cerebrovascular Diseases. . . . .                              | 70     | 3.4     | 76     | 4.2     | 146    | 3.8     |
| 5    | Diabetes Mellitus. . . . .                                     | 71     | 3.5     | 65     | 3.6     | 136    | 3.5     |
| 6    | Accidents Except Poisoning by Psychoactive Substance. . . . .  | 100    | 4.9     | 33     | 1.8     | 133    | 3.4     |
| 7    | Human Immunodeficiency Virus (HIV) Disease. . . . .            | 100    | 4.9     | 29     | 1.6     | 129    | 3.3     |
| 8    | Use of or Poisoning by Psychoactive Substance . . . . .        | 79     | 3.9     | 20     | 1.1     | 99     | 2.6     |
| 9    | Assault (Homicide). . . . .                                    | 81     | 4.0     | 14     | 0.8     | 95     | 2.5     |
| 10   | Chronic Lower Respiratory Diseases. . . . .                    | 40     | 2.0     | 44     | 2.4     | 84     | 2.2     |
|      | All Other Causes . . . . .                                     | 433    | 21.2    | 366    | 20.2    | 799    | 20.7    |
|      | Total. . . . .   | 2,044  | 100.0   | 1,814  | 100.0   | 3,858  | 100.0   |
| Rank | Asian and Pacific Islander                                     | Deaths | Percent | Deaths | Percent | Deaths | Percent |
| 1    | Diseases of Heart. . . . .                                     | 493    | 31.5    | 420    | 34.0    | 913    | 32.6    |
| 2    | Malignant Neoplasms. . . . .                                   | 454    | 29.0    | 366    | 29.6    | 820    | 29.2    |
| 3    | Influenza and Pneumonia. . . . .                               | 77     | 4.9     | 66     | 5.3     | 143    | 5.1     |
| 4    | Cerebrovascular Diseases. . . . .                              | 62     | 4.0     | 64     | 5.2     | 126    | 4.5     |
| 5    | Accidents Except Poisoning by Psychoactive Substance. . . . .  | 59     | 3.8     | 33     | 2.7     | 92     | 3.3     |
| 6    | Diabetes Mellitus. . . . .                                     | 55     | 3.5     | 36     | 2.9     | 91     | 3.2     |
| 7    | Chronic Lower Respiratory Diseases. . . . .                    | 41     | 2.6     | 24     | 1.9     | 65     | 2.3     |
| 8    | Intentional Self-harm (Suicide). . . . .                       | 39     | 2.5     | 25     | 2.0     | 64     | 2.3     |
| 9    | Viral Hepatitis. . . . .                                       | 21     | 1.3     | 12     | 1.0     | 33     | 1.2     |
| 10   | Nephritis, Nephrotic Syndrome and Nephrosis . . . . .          | 17     | 1.1     | 14     | 1.1     | 31     | 1.1     |
|      | All Other Causes. . . . .                                      | 249    | 15.9    | 177    | 14.3    | 426    | 15.2    |
|      | Total. . . . .   | 1,567  | 100.0   | 1,237  | 100.0   | 2,804  | 100.0   |
| Rank | Non-Hispanic White   | Deaths | Percent | Deaths | Percent | Deaths | Percent |
| 1    | Diseases of Heart. . . . .                                     | 5,849  | 42.7    | 7,812  | 49.0    | 13,661 | 46.1    |
| 2    | Malignant Neoplasms. . . . .                                   | 3,417  | 25.0    | 3,648  | 22.9    | 7,065  | 23.8    |
| 3    | Influenza and Pneumonia. . . . .                               | 726    | 5.3     | 881    | 5.5     | 1,607  | 5.4     |
| 4    | Chronic Lower Respiratory Diseases. . . . .                    | 382    | 2.8     | 511    | 3.2     | 893    | 3.0     |
| 5    | Cerebrovascular Diseases. . . . .                              | 276    | 2.0     | 448    | 2.8     | 724    | 2.4     |
| 6    | Diabetes Mellitus. . . . .                                     | 296    | 2.2     | 293    | 1.8     | 589    | 2.0     |
| 7    | Accidents Except Poisoning by Psychoactive Substance. . . . .  | 304    | 2.2     | 236    | 1.5     | 540    | 1.8     |
| 8    | Use of or Poisoning by Psychoactive Substance . . . . .        | 252    | 1.8     | 88     | 0.6     | 340    | 1.1     |
| 9    | Essential Hypertension and Hypertensive Renal Disease. . . . . | 127    | 0.9     | 174    | 1.1     | 301    | 1.0     |
| 10   | Intentional Self-harm (Suicide). . . . .                       | 190    | 1.4     | 65     | 0.4     | 255    | 0.9     |
|      | All Other Causes. . . . .                                      | 1,876  | 13.7    | 1,797  | 11.3    | 3,673  | 12.4    |
|      | Total. . . . .   | 13,695 | 100.0   | 15,953 | 100.0   | 29,648 | 100.0   |
| Rank | Non-Hispanic Black   | Deaths | Percent | Deaths | Percent | Deaths | Percent |
| 1    | Diseases of Heart. . . . .                                     | 2,157  | 31.1    | 2,878  | 36.2    | 5,035  | 33.8    |
| 2    | Malignant Neoplasms. . . . .                                   | 1,493  | 21.5    | 1,832  | 23.1    | 3,325  | 22.3    |
| 3    | Human Immunodeficiency Virus (HIV) Disease. . . . .            | 475    | 6.8     | 294    | 3.7     | 769    | 5.2     |
| 4    | Diabetes Mellitus. . . . .                                     | 292    | 4.2     | 456    | 5.7     | 748    | 5.0     |
| 5    | Influenza and Pneumonia. . . . .                               | 281    | 4.0     | 386    | 4.9     | 667    | 4.5     |
| 6    | Cerebrovascular Diseases. . . . .                              | 182    | 2.6     | 292    | 3.7     | 474    | 3.2     |
| 7    | Chronic Lower Respiratory Diseases. . . . .                    | 148    | 2.1     | 207    | 2.6     | 355    | 2.4     |
| 8    | Assault (Homicide). . . . .                                    | 281    | 4.0     | 48     | 0.6     | 329    | 2.2     |
| 9    | Essential Hypertension and Hypertensive Renal Disease. . . . . | 120    | 1.7     | 178    | 2.2     | 298    | 2.0     |
| 10   | Use of or Poisoning by Psychoactive Substance . . . . .        | 195    | 2.8     | 87     | 1.1     | 282    | 1.9     |
|      | All Other Causes. . . . .                                      | 1,320  | 19.0    | 1,284  | 16.2    | 2,604  | 17.5    |
|      | Total. . . . .   | 6,944  | 100.0   | 7,942  | 100.0   | 14,886 | 100.0   |

Note: The ten leading causes of death in each ethnic group for both sexes combined are arranged in decreasing order of frequency.

\* Decedents of other, two or more races, and unknown ethnicities are not shown.

Table 6a.

**Leading Causes of Death in Specified Ethnic Groups\* by Sex  
Age under 65, New York City, 2005**

| Rank | Puerto Rican  | Male   |         | Female |         | All    |         |
|------|---|--------|---------|--------|---------|--------|---------|
|      |   | Deaths | Percent | Deaths | Percent | Deaths | Percent |
| 1    | Malignant Neoplasms. . . . .                                  | 239    | 18.4    | 195    | 26.5    | 434    | 21.3    |
| 2    | Diseases of Heart. . . . .                                    | 221    | 17.0    | 125    | 17.0    | 346    | 17.0    |
| 3    | Human Immunodeficiency Virus (HIV) Disease. . . . .           | 197    | 15.1    | 80     | 10.9    | 277    | 13.6    |
| 4    | Use of or Poisoning by Psychoactive Substance . . . . .       | 128    | 9.8     | 24     | 3.3     | 152    | 7.5     |
| 5    | Diabetes Mellitus. . . . .                                    | 32     | 2.5     | 34     | 4.6     | 66     | 3.2     |
| 5    | Chronic Liver Disease and Cirrhosis. . . . .                  | 57     | 4.4     | 9      | 1.2     | 66     | 3.2     |
| 7    | Accidents Except Poisoning by Psychoactive Substance. . . . . | 46     | 3.5     | 19     | 2.6     | 65     | 3.2     |
| 8    | Viral Hepatitis . . . . .                                     | 45     | 3.5     | 17     | 2.3     | 62     | 3.0     |
| 9    | Assault (Homicide). . . . .                                   | 47     | 3.6     | 13     | 1.8     | 60     | 2.9     |
| 10   | Cerebrovascular Diseases. . . . .                             | 28     | 2.2     | 24     | 3.3     | 52     | 2.6     |
|      | All Other Causes . . . . .                                    | 262    | 20.1    | 197    | 26.7    | 459    | 22.5    |
|      | Total . . . . .   | 1,302  | 100.0   | 737    | 100.0   | 2,039  | 100.0   |
| Rank | Other Hispanic  | Deaths | Percent | Deaths | Percent | Deaths | Percent |
| 1    | Malignant Neoplasms. . . . .                                  | 200    | 17.5    | 210    | 34.8    | 410    | 23.5    |
| 2    | Diseases of Heart. . . . .                                    | 201    | 17.6    | 87     | 14.4    | 288    | 16.5    |
| 3    | Human Immunodeficiency Virus (HIV) Disease. . . . .           | 96     | 8.4     | 28     | 4.6     | 124    | 7.1     |
| 4    | Accidents Except Poisoning by Psychoactive Substance. . . . . | 82     | 7.2     | 14     | 2.3     | 96     | 5.5     |
| 4    | Use of or Poisoning by Psychoactive Substance . . . . .       | 76     | 6.7     | 20     | 3.3     | 96     | 5.5     |
| 6    | Assault (Homicide). . . . .                                   | 76     | 6.7     | 14     | 2.3     | 90     | 5.2     |
| 7    | Cerebrovascular Diseases. . . . .                             | 35     | 3.1     | 25     | 4.1     | 60     | 3.4     |
| 8    | Diabetes Mellitus. . . . .                                    | 30     | 2.6     | 16     | 2.6     | 46     | 2.6     |
| 9    | Chronic Liver Disease and Cirrhosis. . . . .                  | 31     | 2.7     | 13     | 2.2     | 44     | 2.5     |
| 10   | Intentional Self-harm (Suicide). . . . .                      | 34     | 3.0     | 9      | 1.5     | 43     | 2.5     |
|      | All Other Causes . . . . .                                    | 279    | 24.5    | 168    | 27.8    | 447    | 25.6    |
|      | Total. . . . .  | 1,140  | 100.0   | 604    | 100.0   | 1,744  | 100.0   |
| Rank | Asian and Pacific Islander                                    | Deaths | Percent | Deaths | Percent | Deaths | Percent |
| 1    | Malignant Neoplasms. . . . .                                  | 190    | 31.7    | 166    | 46.9    | 356    | 37.3    |
| 2    | Diseases of Heart. . . . .                                    | 143    | 23.8    | 43     | 12.1    | 186    | 19.5    |
| 3    | Intentional Self-harm (Suicide). . . . .                      | 33     | 5.5     | 19     | 5.4     | 52     | 5.5     |
| 4    | Accidents Except Poisoning by Psychoactive Substance. . . . . | 35     | 5.8     | 11     | 3.1     | 46     | 4.8     |
| 5    | Cerebrovascular Diseases. . . . .                             | 20     | 3.3     | 15     | 4.2     | 35     | 3.7     |
| 6    | Influenza and Pneumonia. . . . .                              | 9      | 1.5     | 11     | 3.1     | 20     | 2.1     |
| 6    | Chronic Liver Disease and Cirrhosis. . . . .                  | 18     | 3.0     | 2      | 0.6     | 20     | 2.1     |
| 8    | Assault (Homicide). . . . .                                   | 15     | 2.5     | 4      | 1.1     | 19     | 2.0     |
| 8    | Diabetes Mellitus. . . . .                                    | 12     | 2.0     | 7      | 2.0     | 19     | 2.0     |
| 10   | Mental Disorders due to Use of Alcohol . . . . .              | 18     | 3.0     | —      | 0.0     | 18     | 1.9     |
|      | All Other Causes. . . . .                                     | 107    | 17.8    | 76     | 21.5    | 183    | 19.2    |
|      | Total. . . . .  | 600    | 100.0   | 354    | 100.0   | 954    | 100.0   |
| Rank | Non-Hispanic White  | Deaths | Percent | Deaths | Percent | Deaths | Percent |
| 1    | Malignant Neoplasms. . . . .                                  | 972    | 26.5    | 973    | 43.0    | 1,945  | 32.8    |
| 2    | Diseases of Heart. . . . .                                    | 890    | 24.3    | 410    | 18.1    | 1,300  | 21.9    |
| 3    | Use of or Poisoning by Psychoactive Substance . . . . .       | 248    | 6.8     | 87     | 3.8     | 335    | 5.7     |
| 4    | Accidents Except Poisoning by Psychoactive Substance. . . . . | 155    | 4.2     | 61     | 2.7     | 216    | 3.6     |
| 5    | Intentional Self-harm (Suicide). . . . .                      | 159    | 4.3     | 51     | 2.3     | 210    | 3.5     |
| 6    | Human Immunodeficiency Virus (HIV) Disease. . . . .           | 134    | 3.7     | 52     | 2.3     | 186    | 3.1     |
| 7    | Influenza and Pneumonia. . . . .                              | 87     | 2.4     | 39     | 1.7     | 126    | 2.1     |
| 8    | Diabetes Mellitus. . . . .                                    | 79     | 2.2     | 36     | 1.6     | 115    | 1.9     |
| 9    | Chronic Lower Respiratory Diseases. . . . .                   | 61     | 1.7     | 48     | 2.1     | 109    | 1.8     |
| 10   | Congenital Malformations, Deformations. . . . .               | 64     | 1.7     | 41     | 1.8     | 105    | 1.8     |
|      | All Other Causes. . . . .                                     | 813    | 22.2    | 464    | 20.5    | 1,277  | 21.6    |
|      | Total. . . . .  | 3,662  | 100.0   | 2,262  | 100.0   | 5,924  | 100.0   |
| Rank | Non-Hispanic Black  | Deaths | Percent | Deaths | Percent | Deaths | Percent |
| 1    | Malignant Neoplasms. . . . .                                  | 639    | 18.0    | 779    | 29.2    | 1,418  | 22.8    |
| 2    | Diseases of Heart. . . . .                                    | 771    | 21.7    | 535    | 20.1    | 1,306  | 21.0    |
| 3    | Human Immunodeficiency Virus (HIV) Disease. . . . .           | 450    | 12.7    | 280    | 10.5    | 730    | 11.7    |
| 4    | Assault (Homicide). . . . .                                   | 277    | 7.8     | 47     | 1.8     | 324    | 5.2     |
| 5    | Use of or Poisoning by Psychoactive Substance . . . . .       | 185    | 5.2     | 86     | 3.2     | 271    | 4.4     |
| 6    | Diabetes Mellitus. . . . .                                    | 113    | 3.2     | 122    | 4.6     | 235    | 3.8     |
| 7    | Accidents Except Poisoning by Psychoactive Substance. . . . . | 145    | 4.1     | 46     | 1.7     | 191    | 3.1     |
| 8    | Cerebrovascular Diseases. . . . .                             | 70     | 2.0     | 76     | 2.9     | 146    | 2.3     |
| 9    | Influenza and Pneumonia. . . . .                              | 80     | 2.3     | 55     | 2.1     | 135    | 2.2     |
| 10   | Chronic Lower Respiratory Diseases. . . . .                   | 53     | 1.5     | 60     | 2.3     | 113    | 1.8     |
|      | All Other Causes. . . . .                                     | 772    | 21.7    | 579    | 21.7    | 1,351  | 21.7    |
|      | Total. . . . .  | 3,555  | 100.0   | 2,665  | 100.0   | 6,220  | 100.0   |

Note: The ten leading causes of death in each ethnic group for both sexes combined are arranged in decreasing order of frequency.

\* Decedents of other and unknown ethnicities are not shown.





**Table 8. Deaths and Death Rates\* per 100,000 Population from Selected Causes by Community District of Residence, New York City, 2005 (Continued)**

| Community District             | Population<br>2000<br>Census | All Causes<br>(Rate per 1,000) |               |                         | Heart<br>Diseases |               | Malignant<br>Neoplasms |               | HIV<br>Disease |               | Influenza<br>and<br>Pneumonia |               | Cerebro-<br>Vascular<br>Diseases |               | Chronic<br>Lower<br>Respiratory<br>Diseases |               | Chronic<br>Liver<br>Disease &<br>Cirrhosis |               | Diabetes<br>Mellitus |               | Mental Disorders<br>due to Substance<br>& Accidental<br>Poisoning |               | Accidents<br>Except<br>Drug Poisoning |               | Intentional<br>Self-harm<br>(Suicide) |               | Assault***<br>(Homicide) |               | Events of<br>Undetermined<br>Intent |               |
|--------------------------------|------------------------------|--------------------------------|---------------|-------------------------|-------------------|---------------|------------------------|---------------|----------------|---------------|-------------------------------|---------------|----------------------------------|---------------|---|---------------|--|---------------|----------------------|---------------|---|---------------|---------------------------------------|---------------|---------------------------------------|---------------|--------------------------|---------------|-------------------------------------|---------------|
|                                |                              | No.                            | Crude<br>Rate | Age<br>Adjusted<br>Rate | No.               | Crude<br>Rate | No.                    | Crude<br>Rate | No.            | Crude<br>Rate | No.                           | Crude<br>Rate | No.                              | Crude<br>Rate | No.   | Crude<br>Rate | No.  | Crude<br>Rate | No.                  | Crude<br>Rate | No.   | Crude<br>Rate | No.                                   | Crude<br>Rate | No.                                   | Crude<br>Rate | No.                      | Crude<br>Rate | No.                                 | Crude<br>Rate |
|                                |                              |                                |               |                         |                   |               |                        |               |                |               |                               |               |                                  |               |   |               |  |               |                      |               |   |               |                                       |               |                                       |               |                          |               |                                     |               |
| QUEENS                         | 2,229,379                    | 13,298                         | 6.0           | 5.9                     | 6,148             | 275.8         | 2,873                  | 128.9         | 148            | 6.6           | 576                           | 25.8          | 398                              | 17.9          | 360   | 16.1          | 81   | 3.6           | 359                  | 16.1          | 143   | 6.4           | 320                                   | 14.4          | 116                                   | 5.2           | 95                       | 4.3           | 54                                  | 2.4           |
| Astoria, Long Island City (01) | 211,220                      | 1,029                          | 4.9           | 5.6                     | 519               | 245.7         | 220                    | 104.2         | 10             | 4.7           | 27                            | 12.8          | 27                               | 12.8          | 25  | 11.8          | 7  | 3.3           | 21                   | 9.9           | 13  | 6.2           | 22                                    | 10.4          | 8                                     | 3.8           | 6                        | 2.8           | 4                                   | 1.9           |
| Sunnyside, Woodside (02)       | 109,920                      | 586                            | 5.3           | 6.0                     | 233               | 212.0         | 132                    | 120.1         | 3              | 2.7           | 34                            | 30.9          | 25                               | 22.7          | 18  | 16.4          | 4  | 3.6           | 13                   | 11.8          | 6   | 5.5           | 17                                    | 15.5          | 6                                     | 5.5           | 7                        | 6.4           | 3                                   | 2.7           |
| Jackson Heights (03)           | 169,083                      | 755                            | 4.5           | 5.5                     | 343               | 202.9         | 171                    | 101.1         | 4              | 2.4           | 35                            | 20.7          | 25                               | 14.8          | 16  | 9.5           | 9  | 5.3           | 8                    | 4.7           | 11  | 6.5           | 19                                    | 11.2          | 13                                    | 7.7           | 4                        | 2.4           | 6                                   | 3.5           |
| Elmhurst, Corona (04)          | 167,005                      | 620                            | 3.7           | 5.4                     | 266               | 159.3         | 138                    | 82.6          | 8              | 4.8           | 31                            | 18.6          | 22                               | 13.2          | 11  | 6.6           | 11   | 6.6           | 11                   | 6.6           | 10  | 6.0           | 22                                    | 13.2          | 3                                     | 1.8           | 8                        | 4.8           | 3                                   | 1.8           |
| Ridgewood, Glendale (05)       | 165,911                      | 1,147                          | 6.9           | 6.4                     | 515               | 310.4         | 261                    | 157.3         | 12             | 7.2           | 62                            | 37.4          | 29                               | 17.5          | 32  | 19.3          | 8  | 4.8           | 31                   | 18.7          | 11  | 6.6           | 30                                    | 18.1          | 6                                     | 3.6           | 4                        | 2.4           | 2                                   | 1.2           |
| Rego Park, Forest Hills (06)   | 115,967                      | 935                            | 8.1           | 5.2                     | 507               | 437.2         | 192                    | 165.6         | 5              | 4.3           | 40                            | 34.5          | 24                               | 20.7          | 22  | 19.0          | 1  | 0.9           | 19                   | 16.4          | 7   | 6.0           | 24                                    | 20.7          | 12                                    | 10.3          | 1                        | 0.9           | 5                                   | 4.3           |
| Flushing (07)                  | 242,952                      | 1,681                          | 6.9           | 5.5                     | 859               | 353.6         | 379                    | 156.0         | 5              | 2.1           | 64                            | 26.3          | 41                               | 16.9          | 50  | 20.6          | 3  | 1.2           | 44                   | 18.1          | 12  | 4.9           | 32                                    | 13.2          | 16                                    | 6.6           | 5                        | 2.1           | 5                                   | 2.1           |
| Fresh Meadows, Briarwood (08)  | 146,594                      | 914                            | 6.2           | 5.4                     | 411               | 280.4         | 192                    | 131.0         | 8              | 5.5           | 43                            | 29.3          | 35                               | 23.9          | 30  | 20.5          | 3  | 2.0           | 27                   | 18.4          | 10  | 6.8           | 21                                    | 14.3          | 5                                     | 3.4           | 6                        | 4.1           | 5                                   | 3.4           |
| Woodhaven (09)                 | 141,608                      | 698                            | 4.9           | 6.1                     | 293               | 206.9         | 134                    | 94.6          | 11             | 7.8           | 26                            | 18.4          | 23                               | 16.2          | 14  | 9.9           | 12   | 8.5           | 20                   | 14.1          | 10  | 7.1           | 27                                    | 19.1          | 6                                     | 4.2           | 11                       | 7.8           | 2                                   | 1.4           |
| Howard Beach (10)              | 127,274                      | 702                            | 5.5           | 6.3                     | 284               | 223.1         | 160                    | 125.7         | 8              | 6.3           | 33                            | 25.9          | 28                               | 22.0          | 16  | 12.6          | 6  | 4.7           | 27                   | 21.2          | 8   | 6.3           | 19                                    | 14.9          | 9                                     | 7.1           | 3                        | 2.4           | 3                                   | 2.4           |
| Bayside (11)                   | 116,404                      | 740                            | 6.4           | 4.7                     | 367               | 315.3         | 196                    | 168.4         | 1              | 0.9           | 29                            | 24.9          | 18                               | 15.5          | 19  | 16.3          | 3  | 2.6           | 11                   | 9.4           | 2   | 1.7           | 13                                    | 11.2          | 8                                     | 6.9           | 3                        | 2.6           | -                                   | -             |
| Jamaica, St. Albans (12)       | 223,602                      | 1,414                          | 6.3           | 7.2                     | 565               | 252.7         | 292                    | 130.6         | 44             | 19.7          | 64                            | 28.6          | 52                               | 23.3          | 33  | 14.8          | 6  | 2.7           | 52                   | 23.3          | 17  | 7.6           | 33                                    | 14.8          | 12                                    | 5.4           | 20                       | 8.9           | 6                                   | 2.7           |
| Queens Village (13)            | 196,284                      | 980                            | 5.0           | 5.4                     | 394               | 200.7         | 233                    | 118.7         | 13             | 6.6           | 47                            | 23.9          | 25                               | 12.7          | 30  | 15.3          | 4  | 2.0           | 34                   | 17.3          | 16  | 8.2           | 24                                    | 12.2          | 10                                    | 5.1           | 8                        | 4.1           | 3                                   | 1.5           |
| The Rockaways (14)             | 106,686                      | 1,093                          | 10.2          | 9.2                     | 589               | 552.1         | 172                    | 161.2         | 16             | 15.0          | 41                            | 38.4          | 24                               | 22.5          | 44  | 41.2          | 4  | 3.7           | 41                   | 38.4          | 10  | 9.4           | 17                                    | 15.9          | 2                                     | 1.9           | 9                        | 8.4           | 7                                   | 6.6           |
| STATEN ISLAND                  | 443,728                      | 3,455                          | 7.8           | 8.3                     | 1,542             | 347.5         | 813                    | 183.2         | 46             | 10.4          | 298                           | 67.2          | 66                               | 14.9          | 120   | 27.0          | 28   | 6.3           | 78                   | 17.6          | 44  | 9.9           | 65                                    | 14.6          | 32                                    | 7.2           | 20                       | 4.5           | 11                                  | 2.5           |
| Port Richmond (01)             | 162,609                      | 1,274                          | 7.8           | 8.6                     | 533               | 327.8         | 272                    | 167.3         | 39             | 24.0          | 123                           | 75.6          | 27                               | 16.6          | 44  | 27.1          | 13   | 8.0           | 38                   | 23.4          | 16  | 9.8           | 29                                    | 17.8          | 13                                    | 8.0           | 15                       | 9.2           | 7                                   | 4.3           |
| Willowbrook, South Beach (02)  | 127,071                      | 1,184                          | 9.3           | 8.4                     | 567               | 446.2         | 269                    | 211.7         | 5              | 3.9           | 95                            | 74.8          | 21                               | 16.5          | 44  | 34.6          | 7  | 5.5           | 22                   | 17.3          | 20  | 15.7          | 21                                    | 16.5          | 9                                     | 7.1           | 3                        | 2.4           | 2                                   | 1.6           |
| Tottenville (03)               | 152,908                      | 994                            | 6.5           | 8.3                     | 442               | 289.1         | 271                    | 177.2         | 2              | 1.3           | 80                            | 52.3          | 18                               | 11.8          | 32  | 20.9          | 8  | 5.2           | 18                   | 11.8          | 8   | 5.2           | 13                                    | 8.5           | 10                                    | 6.5           | 2                        | 1.3           | 2                                   | 1.3           |

\* For all age adjusted rates and crude rates, population data are from 2000 census; compare to Table 1 where citywide rate is 7.0, based on 2005 Census Bureau's estimate.

\*\* In addition to the five boroughs, New York City deaths include events to non-residents and residence unknowns. See Technical Notes: Vital Events.

\*\*\* In 2002 and earlier years, deaths from legal interventions were included in Homicide. Since then they are excluded from this table and can be seen as a separate cause of death in Tables 4 and 16. See Technical Notes: External Causes of Death.

Borough totals may be higher than the sum of the community districts, as they may include some deaths whose community district could not be determined.

Table 9.

**Deaths by Place\* of Death  
New York City, 1999 - 2005**

| Place of Death             | 1999   |       | 2000   |       | 2001** |       | 2002   |       | 2003   |       | 2004   |       | 2005   |       |
|----------------------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
|                            | Deaths | %     | Deaths | %     | Deaths | %     | Deaths | %     | Deaths | %     | Deaths | %     | Deaths | %     |
| Home.....                  | 11,911 | 19.1  | 11,163 | 18.3  | 11,150 | 18.5  | 10,944 | 18.3  | 10,843 | 18.3  | 10,342 | 18.0  | 10,590 | 18.6  |
| Hospital                   |        |       |        |       |        |       |        |       |        |       |        |       |        |       |
| Voluntary.....             | 34,825 | 55.7  | 34,208 | 56.2  | 33,418 | 55.5  | 33,565 | 56.3  | 33,307 | 56.2  | 32,630 | 56.8  | 32,022 | 56.1  |
| Proprietary.....           | 1,198  | 1.9   | 842    | 1.4   | 845    | 1.4   | 740    | 1.2   | 737    | 1.2   | 738    | 1.3   | 799    | 1.4   |
| Municipal.....             | 5,784  | 9.3   | 5,598  | 9.2   | 5,534  | 9.2   | 5,362  | 9.0   | 5,277  | 8.9   | 4,931  | 8.6   | 4,715  | 8.3   |
| Other Government.....      | 847    | 1.4   | 866    | 1.4   | 790    | 1.3   | 715    | 1.2   | 689    | 1.2   | 632    | 1.1   | 560    | 1.0   |
| Nursing Home.....          | 6,475  | 10.4  | 6,632  | 10.9  | 6,621  | 11.0  | 6,735  | 11.3  | 6,790  | 11.5  | 6,659  | 11.6  | 6,748  | 11.8  |
| Other Specified Place..... | 1,430  | 2.3   | 1,530  | 2.5   | 1,860  | 3.1   | 1,590  | 2.7   | 1,570  | 2.7   | 1,534  | 2.7   | 1,634  | 2.9   |
| Total.....                 | 62,470 | 100.0 | 60,839 | 100.0 | 60,218 | 100.0 | 59,651 | 100.0 | 59,213 | 100.0 | 57,466 | 100.0 | 57,068 | 100.0 |

\* Hospice care may be provided at any place.

\*\* World Trade Center disaster deaths are not included in 2001.

Table 10.

**Deaths by Decedent Ancestry\* and Borough of Residence  
New York City, 2005**

| Ancestry                                    | Total  | Borough of Residence |       |          |        |               | Non-Residents | Residence Unknown |
|---|--------|----------------------|-------|----------|--------|---------------|---------------|-------------------|
|   |        | Manhattan            | Bronx | Brooklyn | Queens | Staten Island |               |                   |
| Puerto Rican.....                           | 4,955  | 1,019                | 1,901 | 1,264    | 468    | 147           | 146           | 10                |
| Dominican.....                              | 1,281  | 493                  | 369   | 192      | 192    | 4             | 31            | -                 |
| Colombian.....                              | 253    | 28                   | 15    | 24       | 171    | 2             | 13            | -                 |
| Ecuadorian.....                             | 299    | 38                   | 55    | 39       | 145    | 7             | 15            | -                 |
| Mexican.....                                | 202    | 30                   | 40    | 50       | 52     | 16            | 12            | 2                 |
| Cuban.....                                  | 442    | 152                  | 75    | 67       | 112    | 8             | 26            | 2                 |
| Other Hispanic.....                         | 1,381  | 241                  | 337   | 402      | 282    | 34            | 64            | 21                |
| African-American.....                       | 11,330 | 2,382                | 2,458 | 3,798    | 2,021  | 216           | 405           | 50                |
| American.....                               | 12,277 | 2,948                | 1,402 | 2,867    | 2,717  | 909           | 1,418         | 16                |
| Guyanese.....                               | 565    | 6                    | 76    | 216      | 246    | 3             | 18            | -                 |
| Haitian.....                                | 503    | 29                   | 14    | 287      | 137    | 3             | 31            | 2                 |
| Jamaican.....                               | 677    | 15                   | 183   | 354      | 90     | 3             | 31            | 1                 |
| Trinidadian.....                            | 328    | 10                   | 15    | 211      | 72     | 2             | 18            | -                 |
| All Other North, Central and South American | 995    | 68                   | 140   | 543      | 181    | 10            | 51            | 2                 |
| English.....                                | 218    | 51                   | 18    | 24       | 57     | 44            | 24            | -                 |
| German.....                                 | 1,151  | 261                  | 102   | 106      | 512    | 92            | 77            | 1                 |
| Irish.....                                  | 2,202  | 240                  | 279   | 390      | 729    | 337           | 223           | 4                 |
| Italian.....                                | 5,621  | 324                  | 613   | 1,745    | 1,468  | 1,070         | 394           | 7                 |
| Polish.....                                 | 1,170  | 146                  | 106   | 398      | 380    | 65            | 70            | 5                 |
| Russian.....                                | 1,035  | 90                   | 55    | 630      | 210    | 36            | 13            | 1                 |
| Other European.....                         | 2,971  | 436                  | 194   | 996      | 1,010  | 171           | 155           | 9                 |
| Asian Indian.....                           | 235    | 11                   | 10    | 25       | 131    | 15            | 41            | 2                 |
| Bangladeshi.....                            | 66     | -                    | 6     | 16       | 42     | -             | 2             | -                 |
| Chinese.....                                | 1,604  | 536                  | 28    | 437      | 533    | 25            | 44            | 1                 |
| Filipino.....                               | 183    | 25                   | 11    | 18       | 93     | 16            | 20            | -                 |
| Korean.....                                 | 296    | 20                   | 18    | 10       | 213    | 10            | 24            | 1                 |
| Pakistani.....                              | 88     | 3                    | 9     | 22       | 41     | 2             | 10            | 1                 |
| Other Asian.....                            | 464    | 95                   | 25    | 121      | 160    | 20            | 43            | -                 |
| Jewish or Hebrew.....                       | 1,544  | 186                  | 129   | 798      | 254    | 34            | 138           | 5                 |
| Other & Not Stated.....                     | 2,732  | 494                  | 441   | 651      | 579    | 154           | 248           | 165               |
| Total.....                                  | 57,068 | 10,377               | 9,124 | 16,701   | 13,298 | 3,455         | 3,805         | 308               |

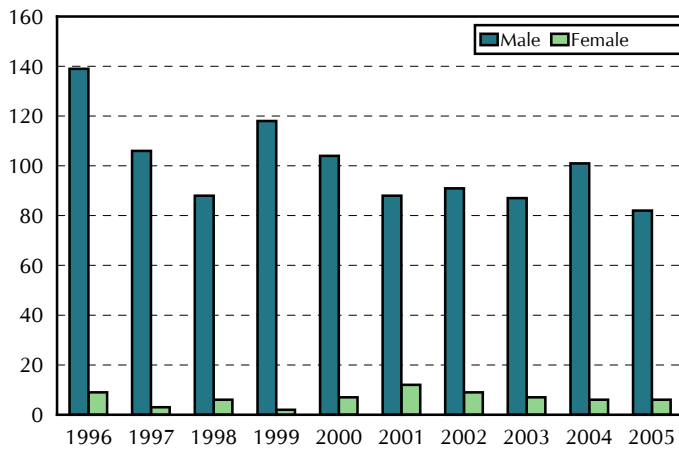
\* See Technical Notes: Race, Ancestry, Ethnic Group and Birthplace.

**Table 11.**

**Selected Characteristics of Deaths Due to Fatal Occupational Injuries  
New York City, 2005**

| Characteristic                       | All Deaths | Sex       |          | Age Group |           |           |           |           |
|--------------------------------------|------------|-----------|----------|-----------|-----------|-----------|-----------|-----------|
|                                      |            | Male      | Female   | <25       | 25-34     | 35-44     | 45-54     | 55+       |
| <b>Selected Events</b>               |            |           |          |           |           |           |           |           |
| Transportation incident . . . . .    | 18         | 17        | 1        | 1         | 5         | 2         | 6         | 4         |
| Assaults and violent acts . . . . .  | 29         | 24        | 5        | 5         | 5         | 7         | 6         | 6         |
| Homicide . . . . .                   | 19         | 15        | 4        | 5         | 2         | 4         | 5         | 3         |
| Shooting . . . . .                   | 13         | 12        | 1        | 3         | 2         | 4         | 3         | 1         |
| Falls . . . . .                      | 17         | 17        | 0        | 3         | 4         | 5         | 1         | 4         |
| <b>Selected Industries *</b>         |            |           |          |           |           |           |           |           |
| Construction . . . . .               | 23         | 23        | 0        | 4         | 8         | 7         | 3         | 1         |
| Taxicabs . . . . .                   | 4          | 4         | 0        | 0         | 0         | 0         | 2         | 2         |
| Grocery stores . . . . .             | 2          | 1         | 1        | 2         | 0         | 0         | 0         | 0         |
| Eating and drinking places . . . . . | 3          | 3         | 0        | 0         | 1         | 0         | 2         | 0         |
| Police and fire protection . . . . . | 5          | 5         | 0        | 0         | 1         | 3         | 1         | 0         |
| <b>Race / Ethnicity</b>              |            |           |          |           |           |           |           |           |
| White . . . . .                      | 34         | 32        | 2        | 1         | 6         | 9         | 11        | 7         |
| Black . . . . .                      | 19         | 16        | 3        | 4         | 4         | 6         | 4         | 1         |
| Hispanic . . . . .                   | 22         | 21        | 1        | 4         | 8         | 4         | 3         | 3         |
| Asian . . . . .                      | 13         | 13        | 0        | 1         | 1         | 1         | 5         | 5         |
| <b>Total . . . . .</b>               | <b>88</b>  | <b>82</b> | <b>6</b> | <b>10</b> | <b>19</b> | <b>20</b> | <b>23</b> | <b>16</b> |

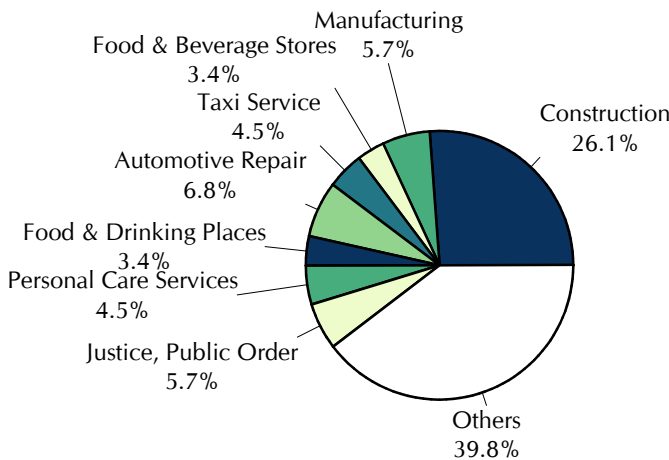
\* Beginning in 2003, coding for industries was changed from Standard Industrial Classification (SIC) to North American Industry Classification System (NAICS). See Technical Notes: Fatal Occupational Injuries. Data reported in Table 11 and Figures 9 and 10 include all fatal occupational injuries occurring in New York City regardless of the residence of decedents or location of the deaths, i.e. deaths occurring inside or outside of New York City.



**Figure 9. Fatal Occupational Injuries by Sex  
New York City, 1996-2005**

Fatal occupational injuries decreased to 88 in 2005, compared to about 100 deaths per year over the past five years. Males have a much higher rate of fatal injuries than females, accounting for greater than 90% of overall occupational injury deaths during the past three years.

World Trade Center (WTC) deaths are homicides and are not included in this figure for the year 2001. See 2002 Annual Summary's Special Section on WTC deaths.



**Figure 10. Fatal Occupational Injuries  
by Selected Industries  
New York City, 2005**

Approximately one fourth of all fatal occupational injuries in New York City occurred in the construction industry. This industry continued to record the highest number of fatal work injuries among all industries in NYC and the nation. Other industries that also had high numbers of fatal occupational injuries in 2005 were Automotive Repair with 6.8% of occupational deaths; Manufacturing, Justice and Public Order, each with 5.7%; Taxi Service and Personal Care Services, each with 4.5%; Food & Beverage Stores, Food & Drinking Places, each with 3.4%.

Table 12.

**Deaths by Decedent Birthplace and Borough of Residence  
New York City, 2005**

| Birthplace          | Total  | Borough of Residence |       |          |        |               | Non-Residents | Residence Unknown |
|---------------------|--------|----------------------|-------|----------|--------|---------------|---------------|-------------------|
|                     |        | Manhattan            | Bronx | Brooklyn | Queens | Staten Island |               |                   |
| Bangladesh          | 79     | -                    | 8     | 18       | 51     | -             | 2             | -                 |
| China               | 1,398  | 487                  | 24    | 395      | 443    | 18            | 31            | -                 |
| Colombia            | 245    | 27                   | 15    | 27       | 161    | 3             | 12            | -                 |
| Cuba                | 449    | 152                  | 73    | 72       | 115    | 10            | 25            | 2                 |
| Dominican Republic  | 1,248  | 482                  | 358   | 195      | 178    | 4             | 31            | -                 |
| Ecuador             | 289    | 39                   | 55    | 38       | 137    | 8             | 12            | -                 |
| El Salvador         | 70     | 9                    | 5     | 15       | 30     | 1             | 9             | 1                 |
| Germany             | 541    | 193                  | 59    | 58       | 188    | 11            | 32            | -                 |
| Guyana              | 663    | 13                   | 82    | 272      | 272    | 3             | 21            | -                 |
| Haiti               | 627    | 34                   | 18    | 376      | 157    | 6             | 34            | 2                 |
| Honduras            | 125    | 18                   | 43    | 35       | 21     | 1             | 6             | 1                 |
| India               | 210    | 14                   | 9     | 19       | 108    | 16            | 44            | -                 |
| Ireland             | 364    | 52                   | 103   | 47       | 109    | 17            | 36            | -                 |
| Israel              | 74     | 12                   | 2     | 37       | 8      | 4             | 11            | -                 |
| Italy               | 1,280  | 42                   | 185   | 433      | 387    | 153           | 77            | 3                 |
| Jamaica             | 1,042  | 51                   | 259   | 443      | 230    | 5             | 53            | 1                 |
| Korea               | 290    | 22                   | 15    | 10       | 207    | 10            | 25            | 1                 |
| Mexico              | 163    | 24                   | 33    | 44       | 43     | 11            | 6             | 2                 |
| Pakistan            | 72     | 1                    | 7     | 19       | 35     | 2             | 7             | 1                 |
| Philippines         | 190    | 29                   | 12    | 20       | 94     | 17            | 18            | -                 |
| Poland              | 984    | 132                  | 111   | 409      | 253    | 16            | 58            | 5                 |
| Puerto Rico         | 4,123  | 865                  | 1,607 | 1,086    | 360    | 102           | 94            | 9                 |
| Russia              | 705    | 65                   | 52    | 409      | 144    | 20            | 14            | 1                 |
| Trinidad and Tobago | 487    | 19                   | 31    | 293      | 107    | 6             | 31            | -                 |
| Ukraine             | 936    | 46                   | 15    | 725      | 113    | 30            | 6             | 1                 |
| United States       | 33,752 | 6,365                | 5,011 | 9,135    | 7,603  | 2,779         | 2,783         | 76                |
| Other               | 5,089  | 810                  | 548   | 1,742    | 1,509  | 160           | 308           | 12                |
| Not Stated          | 1,573  | 374                  | 384   | 329      | 235    | 42            | 19            | 190               |
| Total               | 57,068 | 10,377               | 9,124 | 16,701   | 13,298 | 3,455         | 3,805         | 308               |

Table 13.

**Deaths by Decedent Birthplace and Age  
New York City, 2005**

| Birthplace          | Total  | Age   |       |       |       |       |       |       |        |        |
|---------------------|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
|                     |        | <15   | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75-84  | 85+    |
| Bangladesh          | 79     | 2     | 2     | 5     | 6     | 21    | 14    | 19    | 9      | 1      |
| China               | 1,398  | -     | 2     | 18    | 34    | 85    | 116   | 288   | 421    | 434    |
| Colombia            | 245    | 1     | 1     | 8     | 15    | 31    | 33    | 55    | 52     | 49     |
| Cuba                | 449    | -     | -     | -     | 8     | 24    | 35    | 89    | 155    | 138    |
| Dominican Republic  | 1,248  | 2     | 25    | 42    | 75    | 182   | 187   | 257   | 280    | 198    |
| Ecuador             | 289    | 1     | 11    | 12    | 33    | 35    | 30    | 61    | 54     | 52     |
| El Salvador         | 70     | -     | 2     | 5     | 7     | 14    | 12    | 7     | 15     | 8      |
| Germany             | 541    | -     | 1     | 4     | 1     | 7     | 25    | 41    | 166    | 296    |
| Guyana              | 663    | 1     | 9     | 17    | 50    | 86    | 113   | 117   | 162    | 108    |
| Haiti               | 627    | 1     | 2     | 6     | 31    | 69    | 90    | 160   | 161    | 107    |
| Honduras            | 125    | -     | 3     | 7     | 7     | 18    | 18    | 25    | 30     | 17     |
| India               | 210    | 1     | -     | 7     | 16    | 34    | 38    | 48    | 41     | 25     |
| Ireland             | 364    | 1     | 3     | 2     | 4     | 5     | 26    | 72    | 90     | 161    |
| Israel              | 74     | -     | -     | 6     | 4     | 11    | 13    | 13    | 12     | 15     |
| Italy               | 1,280  | -     | -     | 1     | 8     | 26    | 67    | 190   | 413    | 575    |
| Jamaica             | 1,042  | 2     | 14    | 39    | 40    | 116   | 166   | 199   | 237    | 229    |
| Korea               | 290    | -     | 4     | 6     | 9     | 25    | 47    | 52    | 81     | 66     |
| Mexico              | 163    | 3     | 26    | 33    | 27    | 26    | 16    | 14    | 13     | 5      |
| Pakistan            | 72     | 1     | 2     | 3     | 8     | 13    | 21    | 15    | 5      | 4      |
| Philippines         | 190    | -     | 3     | 5     | 2     | 16    | 46    | 37    | 44     | 37     |
| Poland              | 984    | -     | 5     | 3     | 17    | 57    | 60    | 67    | 213    | 562    |
| Puerto Rico         | 4,123  | 2     | 18    | 29    | 107   | 394   | 756   | 945   | 1,029  | 843    |
| Russia              | 705    | -     | 5     | 11    | 15    | 26    | 43    | 82    | 187    | 336    |
| Trinidad and Tobago | 487    | 2     | 15    | 15    | 38    | 81    | 91    | 79    | 101    | 65     |
| Ukraine             | 936    | -     | -     | 3     | 10    | 30    | 39    | 160   | 364    | 330    |
| United States       | 33,752 | 995   | 460   | 637   | 1,501 | 3,056 | 4,084 | 5,143 | 8,682  | 9,194  |
| Other               | 5,089  | 8     | 51    | 72    | 176   | 384   | 530   | 810   | 1,379  | 1,679  |
| Not Stated          | 1,573  | 5     | 11    | 45    | 125   | 237   | 289   | 262   | 359    | 240    |
| Total               | 57,068 | 1,028 | 675   | 1,041 | 2,374 | 5,109 | 7,005 | 9,307 | 14,755 | 15,774 |



DEATHS DUE TO EXTERNAL CAUSES BY AGE AND SEX, NEW YORK CITY, 2005

Table 14. Accidents

| Type                                  | All Ages | 0-4  |        | 5-9  |        | 10-14 |        | 15-19 |        | 20-24 |        | 25-34 |        | 35-44 |        | 45-54 |        | 55-64 |        | 65-74 |        | 75+  |        |
|---------------------------------------|----------|------|--------|------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|------|--------|
|                                       |          | Male | Female | Male | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male | Female |
| Total                                 | 1,222    | 12   | 20     | 8    | 6      | 7     | 4      | 34    | 11     | 54    | 10     | 99    | 16     | 84    | 29     | 122   | 48     | 86    | 36     | 87    | 48     | 172  | 229    |
| Motor Vehicle                         |          |      |        |      |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |      |        |
| Injury to pedestrian                  | 191      | 4    | 1      | 1    | -      | 4     | -      | 4     | 1      | 1     | 3      | 15    | 3      | 15    | 4      | 23    | 8      | 18    | 14     | 18    | 10     | 21   | 23     |
| Injury to pedal cyclist               | 9        | -    | -      | -    | -      | -     | -      | 1     | -      | 1     | 1      | 2     | 1      | -     | -      | 1     | -      | 1     | -      | -     | 1      | -    | -      |
| Injury to occupant                    | 66       | -    | -      | 1    | -      | -     | -      | 5     | 1      | 14    | 1      | 19    | -      | 6     | 3      | 5     | 1      | 1     | -      | 5     | -      | 2    | 2      |
| Other motor vehicle accidents         | 114      | -    | 2      | 1    | 1      | -     | 2      | 11    | 4      | 18    | 3      | 19    | 5      | 8     | 7      | 5     | 3      | 11    | 1      | 4     | 1      | 5    | 3      |
| Railway (includes subway)             | 13       | -    | -      | -    | -      | -     | -      | -     | -      | 1     | -      | 1     | 2      | 2     | 1      | 2     | 1      | 1     | 1      | -     | 1      | 1    | -      |
| Other land transport accidents        | 19       | -    | -      | -    | -      | 1     | -      | 1     | -      | 3     | -      | 1     | -      | 2     | -      | -     | 1      | 5     | -      | 2     | 1      | 2    | -      |
| Water transport accidents             | 1        | -    | -      | -    | -      | -     | -      | -     | -      | -     | -      | -     | -      | 1     | -      | -     | -      | -     | -      | -     | -      | -    | -      |
| Air and space transport accidents     | 4        | -    | -      | -    | -      | -     | -      | -     | 2      | -     | -      | 1     | -      | 1     | -      | -     | -      | -     | -      | -     | -      | -    | -      |
| Other transport accidents             | 7        | -    | -      | -    | -      | -     | -      | -     | -      | -     | -      | -     | -      | 1     | -      | 2     | 1      | 1     | 1      | 1     | -      | 1    | -      |
| Fall                                  | 470      | 1    | 1      | 1    | -      | -     | -      | 3     | 1      | 8     | -      | 17    | -      | 16    | 5      | 28    | 7      | 25    | 7      | 36    | 21     | 116  | 177    |
| Drowning and submersion               | 17       | 1    | -      | -    | -      | -     | -      | 2     | 1      | 5     | -      | 1     | -      | 1     | -      | 2     | 1      | 2     | -      | 1     | -      | -    | -      |
| Smoke, fire and flames                | 86       | 1    | 2      | 3    | 3      | 2     | 1      | 1     | 1      | 1     | 1      | 2     | 2      | 8     | 3      | 11    | 3      | 6     | 2      | 5     | 9      | 8    | 11     |
| Poisoning by psychoactive substances  | 63       | -    | -      | -    | -      | -     | -      | 1     | -      | 1     | -      | 5     | 2      | 6     | 2      | 13    | 16     | 5     | 7      | 1     | -      | 3    | 1      |
| Poisoning by other noxious substances | 20       | -    | -      | -    | -      | -     | -      | 2     | -      | -     | -      | 1     | -      | 2     | -      | 7     | 2      | 1     | -      | 4     | -      | 1    | -      |
| Exposure to excessive natural heat    | 6        | -    | -      | -    | -      | -     | -      | -     | -      | -     | -      | 1     | -      | 1     | -      | 2     | -      | -     | 1      | -     | -      | -    | 1      |
| Exposure to excessive natural cold    | 16       | -    | -      | -    | -      | -     | -      | -     | -      | -     | -      | -     | -      | 1     | -      | 6     | 2      | -     | 1      | 1     | 1      | 3    | 1      |
| Other nontransport accidents          | 120      | 5    | 14     | 1    | 2      | -     | 1      | 3     | -      | 1     | 1      | 14    | 1      | 13    | 4      | 15    | 2      | 9     | 2      | 9     | 2      | 11   | 10     |

Table 15. Intentional Self-harm (Suicide)

| Method                                 | All Ages | 0-4  |        | 5-9  |        | 10-14 |        | 15-19 |        | 20-24 |        | 25-34 |        | 35-44 |        | 45-54 |        | 55-64 |        | 65-74 |        | 75+  |        |
|--|----------|------|--------|------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|------|--------|
|  |          | Male | Female | Male | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male | Female |
| Total                                  | 481      | -    | -      | -    | -      | 3     | 2      | 13    | 5      | 29    | 12     | 67    | 24     | 70    | 15     | 85    | 27     | 41    | 15     | 21    | 9      | 29   | 14     |
| Poisoning by noxious substances        | 85       | -    | -      | -    | -      | -     | 1      | 1     | 3      | 2     | 1      | 8     | 10     | 10    | 4      | 21    | 6      | 4     | 8      | 3     | 1      | -    | 2      |
| Hanging, strangulation and suffocation | 146      | -    | -      | -    | -      | 1     | 1      | 2     | 1      | 14    | 6      | 22    | 7      | 19    | 3      | 25    | 10     | 12    | 2      | 6     | 2      | 8    | 5      |
| Drowning and submersion                | 9        | -    | -      | -    | -      | -     | -      | -     | -      | 1     | -      | 2     | 1      | 3     | 1      | 1     | -      | -     | -      | -     | -      | -    | -      |
| Firearm discharge                      | 78       | -    | -      | -    | -      | 1     | -      | 5     | -      | 3     | -      | 13    | -      | 13    | -      | 16    | 2      | 11    | -      | 7     | 1      | 6    | -      |
| Sharp or blunt object                  | 15       | -    | -      | -    | -      | -     | -      | -     | -      | -     | -      | 2     | 1      | 3     | 1      | 2     | -      | 2     | 1      | 1     | -      | 2    | -      |
| Jumping from high place                | 107      | -    | -      | -    | -      | -     | -      | 5     | 1      | 7     | 4      | 16    | 2      | 13    | 4      | 14    | 8      | 7     | 2      | 3     | 5      | 9    | 7      |
| Jumping or lying before moving object  | 35       | -    | -      | -    | -      | 1     | -      | -     | -      | 2     | 1      | 4     | 3      | 6     | 1      | 5     | 1      | 5     | 2      | 1     | -      | 3    | -      |
| Other and unspecified means            | 6        | -    | -      | -    | -      | -     | -      | -     | -      | -     | -      | -     | -      | 3     | 1      | 1     | -      | -     | -      | -     | -      | 1    | -      |

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**DEATHS DUE TO EXTERNAL CAUSES BY AGE AND SEX, NEW YORK CITY, 2005 (CONTINUED)**

**Table 16. Assault (Homicide) and Legal Intervention**

| Method                                    | All Ages | 0-4  |        | 5-9  |        | 10-14 |        | 15-19 |        | 20-24 |        | 25-34 |        | 35-44 |        | 45-54 |        | 55-64 |        | 65-74 |        | 75+  |        |
|---|----------|------|--------|------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|------|--------|
|   |          | Male | Female | Male | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male | Female |
| Total                                     | 584      | 14   | 3      | 2    | 2      | 1     | 2      | 54    | 6      | 101   | 17     | 146   | 24     | 83    | 18     | 45    | 20     | 22    | 6      | 10    | 1      | 5    | 2      |
| Hanging, strangulation and suffocation    | 33       | 4    | 1      | -    | -      | -     | -      | -     | 2      | 2     | 2      | 2     | 3      | 4     | 2      | 3     | 3      | 1     | 1      | -     | -      | 2    | 1      |
| Drowning and submersion                   | 2        | 2    | -      | -    | -      | -     | -      | -     | -      | -     | -      | -     | -      | -     | -      | -     | -      | -     | -      | -     | -      | -    | -      |
| Firearm discharge                         | 328      | 1    | -      | -    | -      | 1     | 36     | 4     | 75     | 7     | 114    | 9     | 44     | 4     | 17     | 7     | 5      | 1     | 3      | -     | -      | -    | -      |
| Smoke, fire and flames                    | 10       | 1    | -      | 1    | 1      | 1     | -      | -     | -      | -     | -      | 1     | -      | -     | -      | 1     | 1      | 1     | 2      | -     | -      | -    | -      |
| Sharp or blunt object                     | 127      | -    | -      | 1    | -      | -     | 1      | 17    | -      | 18    | 6      | 23    | 6      | 14    | 8      | 12    | 5      | 8     | 3      | 2     | 1      | 2    | -      |
| Pushing from high place                   | 2        | 1    | -      | -    | -      | -     | -      | -     | -      | -     | -      | -     | -      | 1     | -      | -     | -      | -     | -      | -     | -      | -    | -      |
| Neglect, abandonment & other maltreatment | 1        | 1    | -      | -    | -      | -     | -      | -     | -      | -     | -      | -     | -      | -     | -      | -     | -      | -     | -      | -     | -      | -    | -      |
| Other and unspecified means               | 60       | 4    | 2      | -    | 1      | -     | -      | 1     | -      | 4     | 1      | 4     | 5      | 14    | 4      | 8     | 3      | 6     | -      | 2     | -      | -    | 1      |
| Sequelae (Late effects)                   | 16       | -    | -      | -    | -      | -     | -      | -     | -      | 1     | 1      | 2     | -      | 5     | -      | 3     | 1      | 1     | -      | 1     | -      | 1    | -      |
| Legal intervention, all                   | 5        | -    | -      | -    | -      | -     | -      | -     | -      | 1     | -      | 1     | -      | 1     | -      | 2     | -      | -     | -      | -     | -      | -    | -      |

Note: All 5 Legal intervention deaths are from firearm discharge. See Technical Notes: External Causes of Death.

**Table 17. Events of Undetermined Intent**

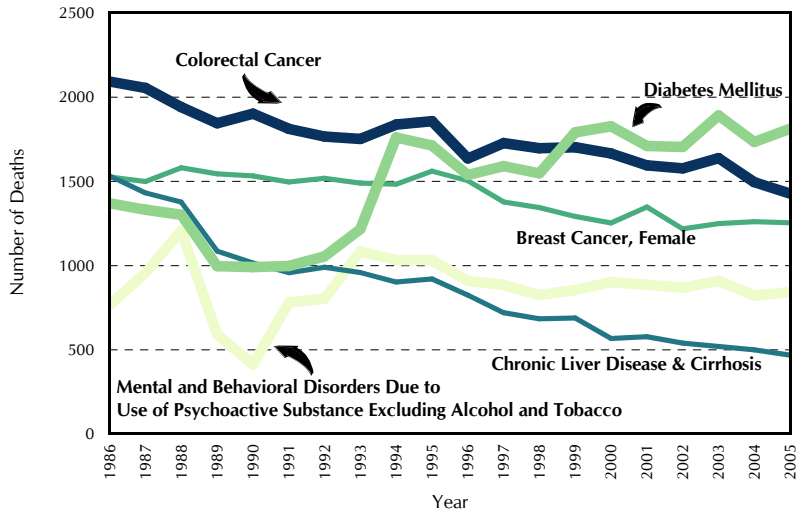
| Method                                 | All Ages | 0-4  |        | 5-9  |        | 10-14 |        | 15-19 |        | 20-24 |        | 25-34 |        | 35-44 |        | 45-54 |        | 55-64 |        | 65-74 |        | 75+  |        |
|--|----------|------|--------|------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|------|--------|
|  |          | Male | Female | Male | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male | Female |
| Total                                  | 269      | 23   | 23     | -    | -      | -     | 1      | 1     | 1      | 8     | 3      | 16    | 8      | 40    | 19     | 47    | 14     | 24    | 5      | 7     | 5      | 9    | 15     |
| Poisoning by noxious substances        | 37       | -    | -      | -    | -      | -     | -      | 1     | 1      | 1     | -      | 1     | 6      | 6     | 7      | 7     | 2      | 2     | 2      | -     | -      | -    | 1      |
| Hanging, strangulation and suffocation | 1        | -    | -      | -    | -      | -     | -      | -     | -      | 1     | -      | -     | -      | -     | -      | -     | -      | -     | -      | -     | -      | -    | -      |
| Drowning and submersion                | 8        | -    | -      | -    | -      | -     | -      | -     | -      | -     | 3      | 1     | 3      | -     | 1      | -     | -      | -     | -      | -     | -      | -    | -      |
| Firearm discharge                      | 3        | -    | -      | -    | -      | -     | -      | -     | -      | 1     | -      | -     | 1      | 1     | -      | -     | -      | -     | -      | -     | -      | -    | -      |
| Smoke, fire and flames                 | 7        | -    | -      | -    | -      | -     | -      | -     | -      | -     | -      | -     | 2      | 1     | 3      | -     | 1      | -     | -      | -     | -      | -    | -      |
| Falling from high place                | 4        | -    | -      | -    | -      | -     | -      | 1     | -      | 1     | -      | 1     | -      | -     | -      | -     | -      | -     | -      | -     | 1      | -    | -      |
| Other and unspecified means            | 209      | 23   | 23     | -    | -      | -     | 1      | -     | -      | 5     | 1      | 12    | 6      | 28    | 11     | 36    | 7      | 21    | 3      | 5     | 4      | 9    | 14     |

**Table 18. Complications of Medical and Surgical Care**

| Method                                     | All Ages | 0-4  |        | 5-9  |        | 10-14 |        | 15-19 |        | 20-24 |        | 25-34 |        | 35-44 |        | 45-54 |        | 55-64 |        | 65-74 |        | 75+  |        |
|--|----------|------|--------|------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|------|--------|
|  |          | Male | Female | Male | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male | Female |
| Complications of medical and surgical care | 32       | -    | -      | -    | -      | -     | -      | -     | -      | -     | -      | -     | 1      | 3     | 2      | 2     | 5      | 2     | 2      | 3     | 4      | 3    | 5      |

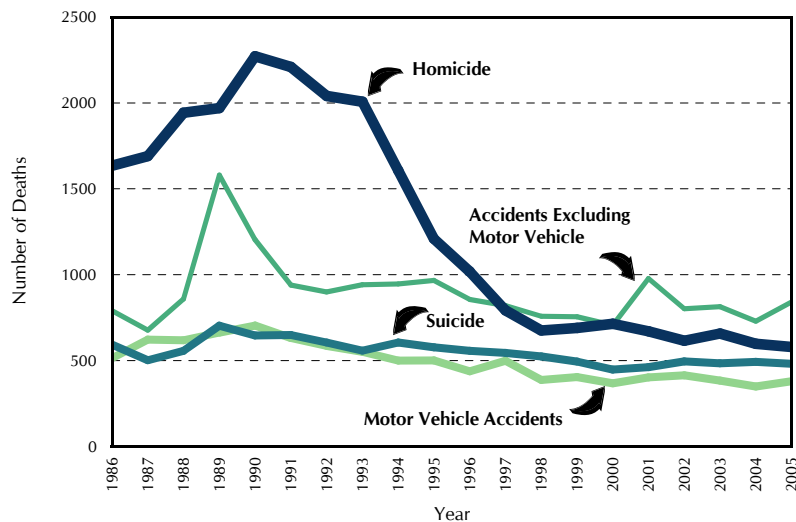
**Table 19. Firearms (All Causes)**

| Method                | All Ages | 0-4  |        | 5-9  |        | 10-14 |        | 15-19 |        | 20-24 |        | 25-34 |        | 35-44 |        | 45-54 |        | 55-64 |        | 65-74 |        | 75+  |        |
|-----------------------|----------|------|--------|------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|------|--------|
|                       |          | Male | Female | Male | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male  | Female | Male | Female |
| Firearms (all causes) | 413      | 1    | -      | -    | -      | 1     | 1      | 41    | 4      | 80    | 7      | 128   | 9      | 59    | 5      | 34    | 9      | 16    | 1      | 10    | 1      | 6    | -      |



**Figure 11. Number of Deaths from Selected Natural Causes New York City, 1986-2005**

Figure 11 displays trends in selected natural causes of death. It shows that deaths due to these selected causes have decreased over the past two decades. The number of colorectal cancer deaths declined in the past two decades by 32%, from 2,093 to 1,427. Approximately 1500 women died from breast cancer annually between 1985 and 1997. Since then breast cancer deaths have decreased to 1,254 in 2005. Over the last two decades, the number of chronic liver disease and cirrhosis deaths has declined steadily, with 469 deaths in 2005. After a surge in the early 1990s, death due to diabetes mellitus remained 1,700 to 1,900 deaths per year since 2000, with 1,813 deaths in 2005. Between 1993 and 1998, deaths due to Mental and Behavioral Disorders Due to Use of Psychoactive Substance Excluding Alcohol and Tobacco decreased, and since 1998 remained near 800 deaths per year.



**Figure 12. Number of Deaths from Selected External Causes New York City, 1986-2005**

The number of homicide deaths has declined more than 70% since 1990 when it peaked at 2,272. The rate of decline has slowed since 1998, dropping from 675 to 579 in 2005 (the lowest since 1963, when there were 575 homicide deaths). Suicide deaths have declined approximately 19% over the past two decades from 593 in 1986 to 481 in 2005; suicides peaked in 1989 with 703 deaths that year. Motor vehicle accidents deaths declined over 50%, from 704 in 1990 to 380 in 2005. The surge in non-motor vehicle accidental deaths in 2001 was caused by the Flight 587 air crash. Two-hundred sixty-five deaths from the crash are included in the total 2001 accidental deaths.

All reported WTC deaths are homicides and not included in this graph for the year 2001. See Special Section in the 2002 Summary of Vital Statistics for detailed information on WTC deaths.

Table 20.

## Deaths from HIV Disease by Sex, Age, and Ethnic Group\*,

| AGE GROUP/ETHNIC GROUP | ALL                      |        |       |       |       |       |       |        |       |       |       |       | 1983-1995 | 1996  | 1997  |
|------------------------|--------------------------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-----------|-------|-------|
|                        | 1983-1995                | 1996   | 1997  | 1998  | 1999  | 2000  | 2001  | 2002** | 2003  | 2004  | 2005  |       |           |       |       |
| ALL AGES               | Total                    | 52,838 | 4,998 | 2,625 | 1,978 | 2,020 | 1,961 | 1,774  | 1,713 | 1,656 | 1,451 | 1,419 | 42,063    | 3,616 | 1,850 |
|                        | Puerto Rican             | 9,404  | 1,105 | 571   | 381   | 404   | 413   | 369    | 359   | 323   | 300   | 289   | 7,130     | 784   | 401   |
|                        | Other Hispanic           | 4,942  | 368   | 187   | 150   | 137   | 166   | 121    | 144   | 167   | 113   | 129   | 4,139     | 290   | 154   |
|                        | Asian & Pacific Islander | 349    | 27    | 20    | 12    | 13    | 13    | 8      | 14    | 8     | 6     | 7     | 315       | 23    | 16    |
|                        | Other White              | 14,916 | 1,088 | 466   | 363   | 341   | 303   | 298    | 274   | 245   | 192   | 196   | 13,341    | 888   | 369   |
|                        | Other Black              | 20,055 | 2,303 | 1,331 | 1,013 | 1,032 | 1,008 | 911    | 872   | 846   | 793   | 769   | 14,580    | 1,543 | 874   |
|                        | Other & Unknown          | 3,172  | 107   | 50    | 59    | 93    | 58    | 67     | 50    | 67    | 47    | 29    | 2,558     | 88    | 36    |
| UNDER 1                | Total                    | 287    | 13    | 5     | 2     | 1     | 3     | 1      | 1     | 1     | -     | -     | 145       | 7     | 2     |
|                        | Puerto Rican             | 41     | 1     | -     | -     | -     | -     | -      | -     | -     | -     | -     | 24        | -     | -     |
|                        | Other Hispanic           | 28     | -     | -     | -     | -     | -     | 1      | 1     | -     | -     | -     | 15        | -     | -     |
|                        | Asian & Pacific Islander | 1      | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | 1         | -     | -     |
|                        | Other White              | 42     | 5     | -     | 1     | -     | -     | -      | -     | -     | -     | -     | 26        | 4     | -     |
|                        | Other Black              | 157    | 6     | 5     | 1     | 1     | 3     | -      | -     | 1     | -     | -     | 72        | 2     | 2     |
|                        | Other & Unknown          | 18     | 1     | -     | -     | -     | -     | -      | -     | -     | -     | -     | 7         | 1     | -     |
| 1-14                   | Total                    | 763    | 92    | 36    | 15    | 18    | 7     | 6      | 5     | 9     | 6     | 4     | 388       | 48    | 20    |
|                        | Puerto Rican             | 139    | 16    | 8     | 3     | -     | 1     | -      | -     | -     | 1     | 2     | 72        | 9     | 5     |
|                        | Other Hispanic           | 84     | 7     | 3     | -     | 3     | -     | -      | 2     | 1     | 1     | 1     | 46        | 2     | 2     |
|                        | Asian & Pacific Islander | 6      | -     | -     | -     | -     | -     | -      | -     | -     | -     | -     | 3         | -     | -     |
|                        | Other White              | 119    | 21    | 3     | 3     | 4     | 2     | 1      | -     | 1     | -     | -     | 61        | 13    | 2     |
|                        | Other Black              | 374    | 45    | 21    | 9     | 11    | 3     | 5      | 3     | 7     | 4     | 1     | 190       | 22    | 10    |
|                        | Other & Unknown          | 41     | 3     | 1     | -     | -     | 1     | -      | -     | -     | -     | -     | 16        | 2     | 1     |
| 15-24                  | Total                    | 880    | 33    | 23    | 20    | 21    | 22    | 24     | 20    | 18    | 15    | 22    | 556       | 15    | 12    |
|                        | Puerto Rican             | 203    | 9     | 5     | 2     | 2     | 2     | 3      | 6     | 1     | 2     | 4     | 123       | 3     | 3     |
|                        | Other Hispanic           | 104    | 5     | 2     | 1     | 1     | 2     | 2      | 3     | 4     | -     | 2     | 77        | 2     | 2     |
|                        | Asian & Pacific Islander | 6      | -     | -     | -     | -     | -     | -      | -     | 1     | -     | -     | 4         | -     | -     |
|                        | Other White              | 142    | 4     | 2     | 2     | 1     | 1     | 1      | 2     | -     | 1     | 1     | 96        | 3     | 2     |
|                        | Other Black              | 367    | 12    | 13    | 13    | 17    | 17    | 18     | 9     | 12    | 11    | 15    | 221       | 6     | 5     |
|                        | Other & Unknown          | 58     | 3     | 1     | 2     | -     | -     | -      | -     | -     | 1     | -     | 35        | 1     | -     |
| 25-34                  | Total                    | 14,238 | 936   | 434   | 314   | 252   | 233   | 194    | 140   | 123   | 90    | 92    | 10,568    | 619   | 277   |
|                        | Puerto Rican             | 2,951  | 220   | 95    | 55    | 56    | 55    | 31     | 24    | 20    | 12    | 12    | 2,114     | 148   | 61    |
|                        | Other Hispanic           | 1,534  | 77    | 38    | 31    | 23    | 29    | 20     | 15    | 15    | 8     | 12    | 1,240     | 56    | 28    |
|                        | Asian & Pacific Islander | 74     | 5     | 5     | 2     | 2     | 1     | 1      | 1     | -     | 1     | -     | 65        | 3     | 5     |
|                        | Other White              | 3,632  | 180   | 78    | 52    | 32    | 21    | 17     | 13    | 10    | 12    | 7     | 3,087     | 125   | 56    |
|                        | Other Black              | 5,211  | 442   | 210   | 166   | 132   | 120   | 117    | 83    | 75    | 56    | 59    | 3,429     | 276   | 122   |
|                        | Other & Unknown          | 836    | 12    | 8     | 8     | 7     | 7     | 8      | 4     | 3     | 1     | 2     | 633       | 11    | 5     |
| 35-44                  | Total                    | 23,111 | 2,134 | 1,099 | 778   | 767   | 695   | 638    | 624   | 568   | 467   | 407   | 18,696    | 1,517 | 754   |
|                        | Puerto Rican             | 3,974  | 448   | 253   | 151   | 167   | 152   | 142    | 131   | 114   | 101   | 71    | 3,104     | 318   | 175   |
|                        | Other Hispanic           | 1,962  | 152   | 79    | 69    | 58    | 60    | 40     | 62    | 60    | 33    | 48    | 1,678     | 121   | 63    |
|                        | Asian & Pacific Islander | 146    | 10    | 7     | 3     | 3     | 6     | 4      | 4     | 3     | 2     | 3     | 137       | 9     | 6     |
|                        | Other White              | 6,697  | 496   | 216   | 160   | 152   | 121   | 118    | 101   | 85    | 71    | 45    | 6,045     | 396   | 165   |
|                        | Other Black              | 8,963  | 988   | 527   | 375   | 353   | 339   | 309    | 312   | 281   | 250   | 224   | 6,616     | 646   | 336   |
|                        | Other & Unknown          | 1,369  | 40    | 17    | 20    | 34    | 17    | 25     | 14    | 25    | 10    | 16    | 1,116     | 27    | 9     |
| 45-54                  | Total                    | 9,755  | 1,313 | 734   | 595   | 669   | 706   | 629    | 641   | 640   | 594   | 586   | 8,433     | 1,019 | 549   |
|                        | Puerto Rican             | 1,605  | 306   | 156   | 119   | 133   | 140   | 133    | 125   | 127   | 127   | 140   | 1,300     | 229   | 120   |
|                        | Other Hispanic           | 855    | 79    | 45    | 33    | 29    | 55    | 32     | 41    | 58    | 45    | 49    | 755       | 67    | 42    |
|                        | Asian & Pacific Islander | 84     | 6     | 4     | 4     | 2     | 3     | 1      | 6     | 4     | 2     | 3     | 79        | 5     | 3     |
|                        | Other White              | 3,010  | 293   | 127   | 112   | 111   | 117   | 109    | 116   | 103   | 73    | 93    | 2,842     | 264   | 107   |
|                        | Other Black              | 3,583  | 594   | 385   | 307   | 357   | 367   | 329    | 327   | 322   | 322   | 294   | 2,910     | 421   | 262   |
|                        | Other & Unknown          | 618    | 35    | 17    | 20    | 37    | 24    | 25     | 26    | 26    | 25    | 7     | 547       | 33    | 15    |
| 55 & OVER              | Total                    | 3,804  | 477   | 294   | 254   | 292   | 295   | 282    | 282   | 296   | 279   | 308   | 3,277     | 391   | 236   |
|                        | Puerto Rican             | 491    | 105   | 54    | 51    | 46    | 63    | 60     | 73    | 61    | 57    | 60    | 393       | 77    | 37    |
|                        | Other Hispanic           | 375    | 48    | 20    | 16    | 23    | 20    | 26     | 20    | 29    | 26    | 17    | 328       | 42    | 17    |
|                        | Asian & Pacific Islander | 32     | 6     | 4     | 3     | 6     | 3     | 2      | 3     | -     | 1     | 1     | 26        | 6     | 2     |
|                        | Other White              | 1,274  | 89    | 40    | 33    | 41    | 41    | 52     | 42    | 46    | 35    | 50    | 1,184     | 83    | 37    |
|                        | Other Black              | 1,400  | 216   | 170   | 142   | 161   | 159   | 133    | 138   | 148   | 150   | 176   | 1,142     | 170   | 137   |
|                        | Other & Unknown          | 232    | 13    | 6     | 9     | 15    | 9     | 9      | 6     | 12    | 10    | 4     | 204       | 13    | 6     |

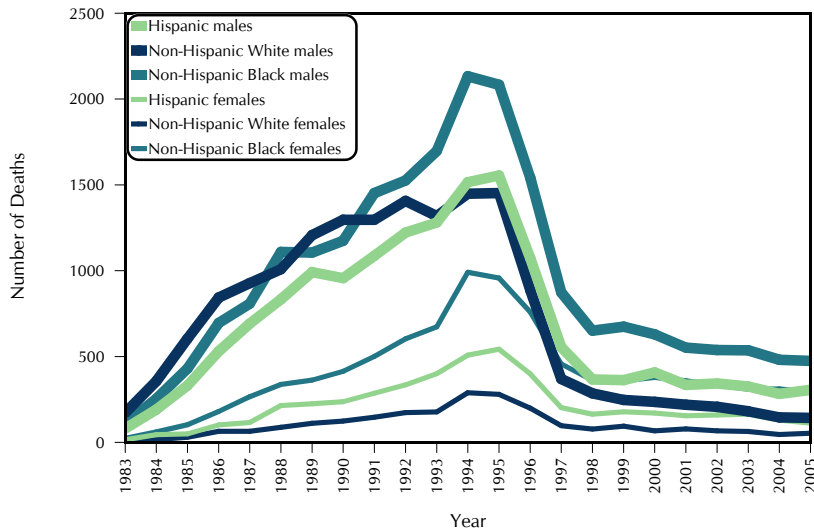
Note: 1983-1986, only AIDS was recognized as a cause of death and coded 279.1; from 1987 through 1998, AIDS as a cause of death was coded 042 and other HIV infections as a cause of death were coded 043-044. Under ICD-10, beginning in 1999, HIV disease as a cause of death is coded B20-B24. In 1982, 30 deaths were attributed to AIDS. Tables showing deaths due to AIDS alone for 1983-1996 can be found in the Vital Statistics Summaries for 1987-1996.

\* Multiple race categories were introduced in January 2003 when New York City implemented a new death certificate form. Beginning in 2003 multiple races are included in "Other & Unknown" category in this table. See Technical Notes: Multiple Race.

\*\*An HIV disease death was miscoded as a maternal cause in 2002. As a result of the correction, HIV disease deaths are increased by 1 in this table for the year of 2002.

New York City, 1983-2005

| MALE  |       |       |       |       |       |      |      | FEMALE    |       |      |      |      |      |      |        |      |      |      |
|-------|-------|-------|-------|-------|-------|------|------|-----------|-------|------|------|------|------|------|--------|------|------|------|
| 1998  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004 | 2005 | 1983-1995 | 1996  | 1997 | 1998 | 1999 | 2000 | 2001 | 2002** | 2003 | 2004 | 2005 |
| 1,358 | 1,372 | 1,333 | 1,166 | 1,138 | 1,100 | 943  | 949  | 10,775    | 1,382 | 775  | 620  | 648  | 628  | 608  | 575    | 556  | 508  | 470  |
| 253   | 265   | 285   | 240   | 239   | 213   | 204  | 206  | 2,274     | 321   | 170  | 128  | 139  | 128  | 129  | 120    | 110  | 96   | 83   |
| 114   | 98    | 123   | 95    | 104   | 113   | 79   | 100  | 803       | 78    | 33   | 36   | 39   | 43   | 26   | 40     | 54   | 34   | 29   |
| 10    | 11    | 11    | 7     | 11    | 8     | 5    | 6    | 34        | 4     | 4    | 2    | 2    | 2    | 1    | 3      | -    | 1    | 1    |
| 285   | 247   | 236   | 219   | 207   | 181   | 146  | 143  | 1,575     | 200   | 97   | 78   | 94   | 67   | 79   | 67     | 64   | 46   | 53   |
| 651   | 674   | 629   | 552   | 538   | 536   | 481  | 475  | 5,475     | 760   | 457  | 362  | 358  | 379  | 359  | 334    | 310  | 312  | 294  |
| 45    | 77    | 49    | 53    | 39    | 49    | 28   | 19   | 614       | 19    | 14   | 14   | 16   | 9    | 14   | 11     | 18   | 19   | 10   |
| 1     | 1     | 1     | 1     | -     | -     | -    | -    | 142       | 6     | 3    | 1    | -    | 2    | -    | 1      | 1    | -    | -    |
| -     | -     | -     | -     | -     | -     | -    | -    | 17        | 1     | -    | -    | -    | -    | -    | -      | -    | -    | -    |
| -     | -     | -     | 1     | -     | -     | -    | -    | 13        | -     | -    | -    | -    | -    | -    | 1      | -    | -    | -    |
| -     | -     | -     | -     | -     | -     | -    | -    | 0         | -     | -    | -    | -    | -    | -    | -      | -    | -    | -    |
| 1     | -     | -     | -     | -     | -     | -    | -    | 16        | 1     | -    | -    | -    | -    | -    | -      | -    | -    | -    |
| -     | 1     | 1     | -     | -     | -     | -    | -    | 85        | 4     | 3    | 1    | -    | 2    | -    | -      | 1    | -    | -    |
| -     | -     | -     | -     | -     | -     | -    | -    | 11        | -     | -    | -    | -    | -    | -    | -      | -    | -    | -    |
| 7     | 10    | 3     | 2     | 3     | 3     | 4    | 2    | 375       | 44    | 16   | 8    | 8    | 4    | 4    | 2      | 6    | 2    | 2    |
| 2     | -     | -     | -     | -     | -     | -    | 1    | 67        | 7     | 3    | 1    | -    | 1    | -    | -      | -    | 1    | 1    |
| -     | 2     | -     | -     | 2     | -     | -    | -    | 38        | 5     | 1    | -    | 1    | -    | -    | -      | 1    | 1    | 1    |
| -     | -     | -     | -     | -     | -     | -    | -    | 3         | -     | -    | -    | -    | -    | -    | -      | -    | -    | -    |
| 1     | 2     | 2     | 1     | -     | 1     | -    | -    | 58        | 8     | 1    | 2    | 2    | -    | -    | -      | -    | -    | -    |
| 4     | 6     | 1     | 1     | 1     | 2     | 4    | 1    | 184       | 23    | 11   | 5    | 5    | 2    | 4    | 2      | 5    | -    | -    |
| -     | -     | -     | -     | -     | -     | -    | -    | 25        | 1     | -    | -    | -    | 1    | -    | -      | -    | -    | -    |
| 8     | 7     | 8     | 9     | 11    | 7     | 8    | 14   | 324       | 18    | 11   | 12   | 14   | 14   | 15   | 9      | 11   | 7    | 8    |
| -     | -     | 1     | -     | 3     | 1     | 1    | 4    | 80        | 6     | 2    | 2    | 2    | 1    | 3    | 3      | -    | 1    | -    |
| 1     | -     | -     | 1     | 2     | 2     | -    | 2    | 27        | 3     | -    | -    | 1    | 2    | 1    | 1      | 2    | -    | -    |
| -     | -     | -     | -     | -     | 1     | -    | -    | 2         | -     | -    | -    | -    | -    | -    | -      | -    | -    | -    |
| 1     | -     | -     | -     | 2     | -     | 1    | 1    | 46        | 1     | -    | 1    | 1    | 1    | 1    | -      | -    | -    | -    |
| 5     | 7     | 7     | 8     | 4     | 3     | 5    | 7    | 146       | 6     | 8    | 8    | 10   | 10   | 10   | 5      | 9    | 6    | 8    |
| 1     | -     | -     | -     | -     | -     | 1    | -    | 23        | 2     | 1    | 1    | -    | -    | -    | -      | -    | -    | -    |
| 183   | 151   | 133   | 102   | 72    | 76    | 45   | 59   | 3,670     | 317   | 157  | 131  | 101  | 100  | 92   | 68     | 47   | 45   | 33   |
| 29    | 34    | 30    | 15    | 10    | 12    | 5    | 6    | 837       | 72    | 34   | 26   | 22   | 25   | 16   | 14     | 8    | 7    | 6    |
| 19    | 15    | 23    | 17    | 10    | 12    | 6    | 9    | 294       | 21    | 10   | 12   | 8    | 6    | 3    | 5      | 3    | 2    | 3    |
| 1     | 1     | -     | 1     | 1     | -     | 1    | -    | 9         | 2     | -    | 1    | 1    | 1    | -    | -      | -    | -    | -    |
| 38    | 20    | 13    | 8     | 8     | 8     | 9    | 5    | 545       | 55    | 22   | 14   | 12   | 8    | 9    | 5      | 2    | 3    | 2    |
| 90    | 76    | 62    | 58    | 41    | 43    | 23   | 38   | 1,782     | 166   | 88   | 76   | 56   | 58   | 59   | 42     | 32   | 33   | 21   |
| 6     | 5     | 5     | 3     | 2     | 1     | 1    | 1    | 203       | 1     | 3    | 2    | 2    | 2    | 5    | 2      | 2    | -    | 1    |
| 498   | 489   | 456   | 387   | 383   | 330   | 280  | 241  | 4,415     | 617   | 345  | 280  | 278  | 239  | 251  | 241    | 238  | 187  | 166  |
| 100   | 103   | 103   | 84    | 83    | 65    | 65   | 46   | 870       | 130   | 78   | 51   | 64   | 49   | 58   | 48     | 49   | 36   | 25   |
| 52    | 42    | 40    | 27    | 41    | 32    | 23   | 32   | 284       | 31    | 16   | 17   | 16   | 20   | 13   | 21     | 28   | 10   | 16   |
| 3     | 3     | 6     | 4     | 3     | 3     | 1    | 3    | 9         | 1     | 1    | -    | -    | -    | -    | 1      | -    | 1    | -    |
| 118   | 104   | 95    | 80    | 67    | 55    | 53   | 31   | 652       | 100   | 51   | 42   | 48   | 26   | 38   | 34     | 30   | 18   | 14   |
| 211   | 209   | 198   | 171   | 179   | 156   | 134  | 120  | 2,347     | 342   | 191  | 164  | 144  | 141  | 138  | 133    | 125  | 116  | 104  |
| 14    | 28    | 14    | 21    | 10    | 19    | 4    | 9    | 253       | 13    | 8    | 6    | 6    | 3    | 4    | 4      | 6    | 6    | 7    |
| 461   | 474   | 499   | 443   | 455   | 451   | 395  | 400  | 1,322     | 294   | 185  | 134  | 195  | 207  | 186  | 186    | 189  | 199  | 186  |
| 83    | 88    | 102   | 98    | 86    | 91    | 91   | 101  | 305       | 77    | 36   | 36   | 45   | 38   | 35   | 39     | 36   | 36   | 39   |
| 28    | 22    | 44    | 27    | 32    | 45    | 31   | 43   | 100       | 12    | 3    | 5    | 7    | 11   | 5    | 9      | 13   | 14   | 6    |
| 4     | 2     | 3     | -     | 6     | 4     | 2    | 2    | 5         | 1     | 1    | -    | -    | -    | 1    | -      | -    | -    | 1    |
| 99    | 82    | 94    | 86    | 93    | 77    | 53   | 69   | 168       | 29    | 20   | 13   | 29   | 23   | 23   | 23     | 26   | 20   | 24   |
| 230   | 250   | 234   | 211   | 215   | 216   | 203  | 180  | 673       | 173   | 123  | 77   | 107  | 133  | 118  | 112    | 106  | 119  | 114  |
| 17    | 30    | 22    | 21    | 23    | 18    | 15   | 5    | 71        | 2     | 2    | 3    | 7    | 2    | 4    | 3      | 8    | 10   | 2    |
| 200   | 240   | 233   | 222   | 214   | 232   | 211  | 233  | 527       | 86    | 58   | 54   | 52   | 62   | 60   | 68     | 64   | 68   | 75   |
| 39    | 40    | 49    | 43    | 57    | 44    | 42   | 48   | 98        | 28    | 17   | 12   | 6    | 14   | 17   | 16     | 17   | 15   | 12   |
| 14    | 17    | 16    | 22    | 17    | 22    | 19   | 14   | 47        | 6     | 3    | 2    | 6    | 4    | 4    | 3      | 7    | 7    | 3    |
| 2     | 5     | 2     | 2     | 1     | -     | 1    | 1    | 6         | -     | 2    | 1    | 1    | 1    | -    | 2      | -    | -    | -    |
| 27    | 39    | 32    | 44    | 37    | 40    | 30   | 37   | 90        | 6     | 3    | 6    | 2    | 9    | 8    | 5      | 6    | 5    | 13   |
| 111   | 125   | 126   | 103   | 98    | 116   | 112  | 129  | 258       | 46    | 33   | 31   | 36   | 33   | 30   | 40     | 32   | 38   | 47   |
| 7     | 14    | 8     | 8     | 4     | 10    | 7    | 4    | 28        | -     | -    | 2    | 1    | 1    | 1    | 2      | 2    | 3    | -    |

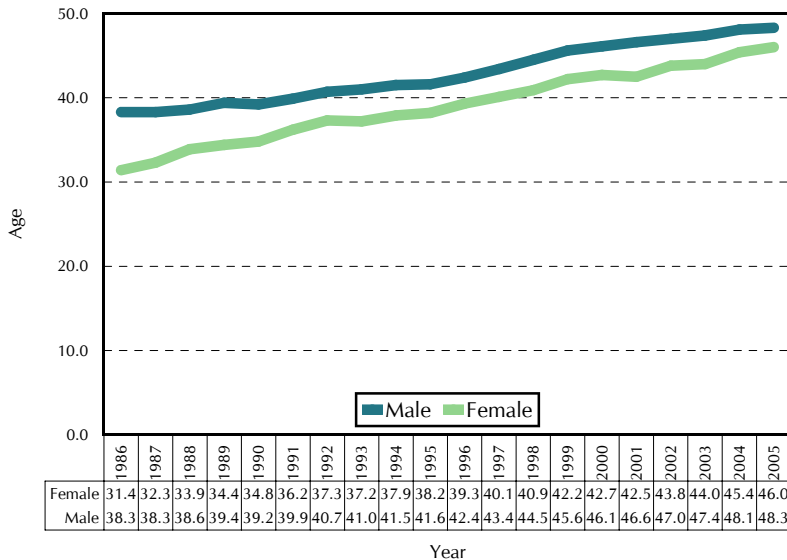


**Figure 13. Deaths Due to HIV Disease by Sex and Selected Ethnic Group New York City, 1983-2005**

The number of deaths due to HIV disease decreased 2.2% from 1,451 in 2004 to 1,419 in 2005, comparable to the 1985 level for AIDS alone at 1,663 before it peaked at 7,102 in 1994. The number of HIV disease deaths was flat for males and decreased slightly for females from 2004 to 2005. Among ethnic groups, HIV disease deaths increased for Hispanic males and non-Hispanic white females and stayed the same or slightly decreased for all other ethnic groups from 2004 to 2005.

The effect of changes between ICD-9 and ICD-10, implemented in 1999, can be determined by using the comparability ratio of 1.08.

See Technical Notes: HIV and AIDS Mortality.



**Figure 14. Mean Age at Death, HIV Disease Deaths by Sex New York City, 1986-2005**

The mean age at death for men who died of HIV disease was 48.3 in 2005, an increase of 10 years from 1986. The mean age at death for women increased 14.6 years from 1986 to 2005. Both men and women are living longer with HIV and dying at older ages, in part due to the natural aging of the epidemic and in part due to improved survival resulting from the widespread use of highly active antiretroviral therapy. Although the increase of mean age was steeper for women who died of HIV disease in the past 20 years, they lived 2.3 fewer years than their male counterparts in 2005. Among those who died of HIV disease, on average, men lived 18.8 fewer years and women lived 29.3 fewer years compared with overall deaths in New York City in 2005.

Table 21.

## Characteristics of Decedents with Selected Causes of Death, New York City, 2005

| Cause of Death   | Total  | Race/Ethnic Group* |      |                |      |        |      |                    |      |                    |      | Sex, Marital Status, and Age |      |        |       |               |      |              |      |                |      |
|--|--------|--------------------|------|----------------|------|--------|------|--------------------|------|--------------------|------|------------------------------|------|--------|-------|---------------|------|--------------|------|----------------|------|
|  |        | Puerto Rican       |      | Other Hispanic |      | Asian  |      | Non-Hispanic White |      | Non-Hispanic Black |      | Other & Unknown              |      | Male   |       | Never Married |      | Age Under 20 |      | Age 65 or Over |      |
|  |        | Number             | Row% | Number         | Row% | Number | Row% | Number             | Row% | Number             | Row% | Number                       | Row% | Number | %     | Number        | %    | Number       | %    | Number         | %    |
| All Causes.....  | 57,068 | 4,955              | 8.7  | 3,858          | 6.8  | 2,804  | 4.9  | 29,648             | 52.0 | 14,886             | 26.1 | 917                          | 1.6  | 27,352 | 47.9  | 12,933        | 22.7 | 1,263        | 2.2  | 39,836         | 69.8 |
| HIV Disease.....                                       | 1,419  | 289                | 20.4 | 129            | 9.1  | 7      | 0.5  | 196                | 13.8 | 769                | 54.2 | 29                           | 2.0  | 949    | 66.9  | 868           | 61.2 | 11           | 0.8  | 67             | 4.7  |
| Cancer of Colon, Rectum and Anus.....                  | 1,427  | 116                | 8.1  | 74             | 5.2  | 94     | 6.6  | 754                | 52.8 | 363                | 25.4 | 26                           | 1.8  | 669    | 46.9  | 247           | 17.3 | 2            | 0.1  | 1,074          | 75.3 |
| Cancer of Trachea, Bronchus and Lung, Male.....        | 1,648  | 106                | 6.4  | 95             | 5.8  | 119    | 7.2  | 935                | 56.7 | 379                | 23.0 | 14                           | 0.8  | 1,648  | 100.0 | 276           | 16.7 | 0            | 0.0  | 1,090          | 66.1 |
| Cancer of Trachea, Bronchus and Lung, Female.....      | 1,335  | 84                 | 6.3  | 57             | 4.3  | 66     | 4.9  | 759                | 56.9 | 347                | 26.0 | 22                           | 1.6  | 0      | 0.0   | 218           | 16.3 | 0            | 0.0  | 932            | 69.8 |
| Cancer of Breast, Female.....                          | 1,254  | 72                 | 5.7  | 94             | 7.5  | 60     | 4.8  | 629                | 50.2 | 380                | 30.3 | 19                           | 1.5  | 0      | 0.0   | 258           | 20.6 | 0            | 0.0  | 680            | 54.2 |
| Cancer of Prostate.....                                | 724    | 57                 | 7.9  | 68             | 9.4  | 13     | 1.8  | 310                | 42.8 | 265                | 36.6 | 11                           | 1.5  | 724    | 100.0 | 102           | 14.1 | 0            | 0.0  | 644            | 89.0 |
| Chronic Liver Disease & Cirrhosis.....                 | 469    | 93                 | 19.8 | 69             | 14.7 | 28     | 6.0  | 171                | 36.5 | 95                 | 20.3 | 13                           | 2.8  | 327    | 69.7  | 139           | 29.6 | 2            | 0.4  | 162            | 34.5 |
| Mental & Behavior Disorder Due to Use of Alcohol.....  | 279    | 43                 | 15.4 | 28             | 10.0 | 19     | 6.8  | 101                | 36.2 | 76                 | 27.2 | 12                           | 4.3  | 248    | 88.9  | 106           | 38.0 | 0            | 0.0  | 36             | 12.9 |
| Use & Accidental Poisoning Psychoactive Substance..... | 906    | 155                | 17.1 | 99             | 10.9 | 11     | 1.2  | 340                | 37.5 | 282                | 31.1 | 19                           | 2.1  | 685    | 75.6  | 477           | 52.6 | 13           | 1.4  | 23             | 2.5  |
| Motor Vehicle Accidents.....                           | 380    | 39                 | 10.3 | 46             | 12.1 | 27     | 7.1  | 151                | 39.7 | 110                | 28.9 | 7                            | 1.8  | 270    | 71.1  | 188           | 49.5 | 44           | 11.6 | 95             | 25.0 |
| Accidental Falls.....                                  | 470    | 33                 | 7.0  | 47             | 10.0 | 38     | 8.1  | 256                | 54.5 | 87                 | 18.5 | 9                            | 1.9  | 251    | 53.4  | 107           | 22.8 | 7            | 1.5  | 350            | 74.5 |
| Other Accidents, Excluding Accidental Poisoning.....   | 309    | 23                 | 7.4  | 40             | 12.9 | 27     | 8.7  | 133                | 43.0 | 83                 | 26.9 | 3                            | 1.0  | 209    | 67.6  | 149           | 48.2 | 50           | 16.2 | 86             | 27.8 |
| Intentional Self-harm (Suicide).....                   | 481    | 30                 | 6.2  | 48             | 10.0 | 64     | 13.3 | 255                | 53.0 | 77                 | 16.0 | 7                            | 1.5  | 358    | 74.4  | 239           | 49.7 | 23           | 4.8  | 73             | 15.2 |
| Assault (Homicide)**.....                              | 579    | 62                 | 10.7 | 95             | 16.4 | 19     | 3.3  | 64                 | 11.1 | 329                | 56.8 | 10                           | 1.7  | 478    | 82.6  | 416           | 71.8 | 84           | 14.5 | 18             | 3.1  |
| Events of Undetermined Intent.....                     | 269    | 22                 | 8.2  | 19             | 7.1  | 20     | 7.4  | 120                | 44.6 | 77                 | 28.6 | 11                           | 4.1  | 175    | 65.1  | 152           | 56.5 | 49           | 18.2 | 36             | 13.4 |
| All Other Causes.....                                  | 45,119 | 3,731              | 8.3  | 2,850          | 6.3  | 2,192  | 4.9  | 24,474             | 54.2 | 11,167             | 24.8 | 705                          | 1.6  | 20,361 | 45.1  | 8,991         | 19.9 | 978          | 2.2  | 34,470         | 76.4 |

\* Multiple races were introduced in January 2003 when New York City implemented a new death certificate form. Two or more races are included in "Other & Unknown" category in this table.

See Technical Notes: Multiple Race.

\*\* In 2002 and earlier years, deaths from legal interventions were included in Homicide. Since then they are excluded from this table and can be seen as a separate cause of death in Tables 4 and 16.

**Table 22. Life Expectancy at Specified Ages by Sex and Ethnic Group, New York City, 1989-1991 and 1999-2001\***

| Exact Age | All       |          |                    |                    |             |          |                    |                    |
|-----------|-----------|----------|--------------------|--------------------|-------------|----------|--------------------|--------------------|
|           | 1989-1991 |          |                    |                    | 1999-2001** |          |                    |                    |
|           | Total     | Hispanic | Non-Hispanic White | Non-Hispanic Black | Total       | Hispanic | Non-Hispanic White | Non-Hispanic Black |
| 0         | 72.4      | 76.3     | 74.0               | 66.4               | 77.6        | 79.7     | 77.7               | 73.2               |
| 1         | 72.4      | 75.8     | 74.0               | 66.7               | 77.1        | 79.0     | 77.3               | 73.0               |
| 5         | 68.5      | 72.0     | 70.2               | 62.9               | 73.2        | 75.0     | 73.4               | 59.0               |
| 10        | 63.6      | 67.1     | 65.2               | 58.0               | 65.2        | 70.0     | 68.5               | 64.2               |
| 15        | 58.7      | 62.1     | 60.3               | 53.1               | 63.3        | 65.1     | 63.6               | 59.3               |
| 20        | 54.0      | 57.4     | 55.5               | 48.6               | 58.4        | 60.2     | 58.7               | 54.5               |
| 25        | 49.4      | 52.9     | 50.7               | 44.2               | 53.6        | 55.4     | 53.9               | 49.9               |
| 30        | 44.9      | 48.6     | 46.0               | 40.0               | 48.8        | 50.5     | 49.0               | 45.2               |
| 35        | 40.7      | 44.6     | 41.5               | 36.1               | 44.1        | 45.8     | 44.3               | 40.7               |
| 40        | 36.6      | 40.7     | 37.2               | 32.7               | 39.5        | 41.2     | 39.6               | 36.3               |
| 45        | 32.6      | 36.8     | 33.0               | 29.1               | 35.0        | 36.7     | 35.1               | 32.1               |
| 50        | 28.5      | 32.8     | 28.8               | 25.4               | 30.7        | 32.4     | 30.7               | 28.2               |
| 55        | 24.6      | 28.9     | 24.7               | 22.0               | 26.6        | 28.2     | 26.5               | 24.4               |
| 60        | 20.9      | 25.0     | 20.9               | 18.7               | 22.6        | 24.1     | 22.4               | 20.8               |
| 65        | 17.4      | 21.3     | 17.3               | 15.7               | 18.8        | 20.2     | 18.6               | 17.5               |
| 70        | 14.1      | 17.8     | 13.9               | 13.0               | 15.3        | 16.7     | 15.1               | 14.5               |
| 75        | 11.1      | 14.6     | 10.9               | 10.5               | 12.1        | 13.3     | 11.8               | 11.3               |
| 80        | 8.4       | 11.4     | 8.2                | 8.2                | 9.2         | 10.4     | 8.9                | 9.3                |
| 85        | 6.1       | 8.6      | 5.9                | 6.2                | 6.7         | 7.7      | 6.4                | 7.1                |
| Exact Age | Male      |          |                    |                    |             |          |                    |                    |
|           | 1989-1991 |          |                    |                    | 1999-2001** |          |                    |                    |
|           | Total     | Hispanic | Non-Hispanic White | Non-Hispanic Black | Total       | Hispanic | Non-Hispanic White | Non-Hispanic Black |
| 0         | 67.7      | 70.5     | 70.0               | 60.0               | 74.5        | 76.1     | 74.9               | 69.1               |
| 1         | 67.6      | 70.0     | 70.1               | 60.3               | 74.0        | 75.4     | 74.5               | 69.0               |
| 5         | 63.8      | 66.2     | 66.2               | 56.5               | 70.1        | 71.4     | 70.6               | 65.1               |
| 10        | 58.8      | 61.2     | 61.3               | 51.6               | 65.2        | 66.5     | 65.7               | 60.2               |
| 15        | 53.9      | 56.3     | 56.4               | 46.7               | 60.2        | 61.5     | 60.8               | 55.3               |
| 20        | 49.4      | 51.7     | 51.6               | 42.4               | 55.4        | 56.6     | 55.9               | 50.6               |
| 25        | 45.0      | 47.4     | 46.9               | 38.3               | 50.7        | 51.9     | 51.2               | 46.1               |
| 30        | 40.7      | 43.4     | 42.3               | 34.4               | 46.0        | 47.1     | 46.4               | 41.6               |
| 35        | 36.7      | 39.8     | 38.1               | 30.9               | 41.3        | 42.5     | 41.7               | 37.2               |
| 40        | 33.1      | 36.5     | 34.1               | 28.0               | 36.8        | 37.9     | 37.1               | 32.9               |
| 45        | 29.4      | 33.2     | 30.1               | 25.0               | 32.4        | 33.6     | 32.7               | 28.8               |
| 50        | 25.7      | 29.6     | 26.2               | 21.8               | 28.3        | 29.5     | 28.5               | 25.2               |
| 55        | 22.1      | 26.1     | 22.3               | 18.8               | 24.4        | 25.6     | 24.4               | 21.8               |
| 60        | 18.6      | 22.5     | 18.7               | 15.9               | 20.6        | 21.8     | 20.5               | 18.4               |
| 65        | 15.4      | 19.1     | 15.3               | 13.2               | 17.0        | 18.2     | 16.9               | 15.3               |
| 70        | 12.4      | 16.1     | 12.2               | 10.9               | 13.8        | 14.9     | 13.6               | 12.6               |
| 75        | 9.7       | 13.2     | 9.5                | 8.8                | 10.8        | 12.0     | 10.6               | 10.2               |
| 80        | 7.3       | 10.5     | 7.1                | 7.0                | 8.2         | 9.4      | 7.9                | 8.2                |
| 85        | 5.5       | 8.2      | 5.2                | 5.4                | 6.1         | 7.3      | 5.7                | 6.6                |
| Exact Age | Female    |          |                    |                    |             |          |                    |                    |
|           | 1989-1991 |          |                    |                    | 1999-2001** |          |                    |                    |
|           | Total     | Hispanic | Non-Hispanic White | Non-Hispanic Black | Total       | Hispanic | Non-Hispanic White | Non-Hispanic Black |
| 0         | 77.0      | 81.7     | 77.9               | 72.2               | 80.2        | 82.6     | 80.4               | 76.5               |
| 1         | 76.9      | 81.2     | 77.9               | 72.5               | 79.7        | 81.9     | 79.9               | 76.2               |
| 5         | 73.1      | 77.4     | 74.0               | 68.7               | 75.8        | 77.9     | 76.0               | 72.3               |
| 10        | 68.1      | 72.4     | 69.1               | 63.9               | 70.8        | 72.9     | 71.1               | 67.4               |
| 15        | 63.2      | 67.5     | 64.1               | 58.9               | 65.9        | 68.0     | 66.1               | 62.4               |
| 20        | 58.3      | 62.6     | 59.2               | 54.1               | 61.0        | 63.0     | 61.2               | 57.5               |
| 25        | 53.5      | 57.9     | 54.3               | 49.4               | 56.1        | 58.1     | 56.4               | 52.7               |
| 30        | 48.8      | 53.2     | 49.5               | 44.8               | 51.2        | 53.2     | 51.4               | 47.9               |
| 35        | 44.2      | 48.7     | 44.8               | 40.6               | 46.4        | 48.4     | 46.6               | 43.3               |
| 40        | 39.8      | 44.2     | 40.1               | 36.5               | 41.7        | 43.7     | 41.8               | 38.8               |
| 45        | 35.3      | 39.6     | 35.5               | 32.4               | 37.1        | 39.1     | 37.2               | 34.4               |
| 50        | 30.9      | 35.2     | 31.0               | 28.3               | 32.6        | 34.5     | 32.6               | 30.3               |
| 55        | 26.6      | 30.9     | 26.6               | 24.3               | 28.3        | 30.0     | 28.2               | 26.3               |
| 60        | 22.6      | 26.6     | 22.6               | 20.6               | 24.1        | 25.7     | 23.9               | 22.4               |
| 65        | 18.8      | 22.6     | 18.7               | 17.3               | 20.1        | 21.5     | 19.9               | 18.8               |
| 70        | 15.2      | 18.8     | 15.1               | 14.2               | 16.4        | 17.7     | 16.1               | 15.5               |
| 75        | 12.0      | 15.3     | 11.8               | 11.4               | 12.9        | 14.1     | 12.6               | 12.5               |
| 80        | 9.0       | 11.9     | 8.7                | 8.8                | 9.7         | 10.8     | 9.4                | 9.8                |
| 85        | 6.4       | 8.8      | 6.2                | 6.5                | 7.0         | 7.9      | 6.7                | 7.3                |

Note: Three year (1999-2001) death data are used to estimate life expectancy to smooth the outcome. Life expectancy figures for 1989-1991 are calculated by using same methodology as 1999-2001. See Technical Notes.

\* Census population data, 1990 and 2000, are used to calculate 1989-1991 and 1999-2001 life expectancy, respectively. See Technical Notes: Population.

\*\* World Trade Center (WTC) disaster deaths are not included. See Special Section in 2002 Summary of Vital Statistics, Table WTC10 for the impact of WTC deaths on life expectancy in New York City. See Technical Notes: World Trade Center Deaths.



Table 23.

## Life Expectancy at Specified Ages by Sex, New York City, 1999 - 2004\*

|    | Total |      |        |      |      |      |
|----|-------|------|--------|------|------|------|
|    | 1999  | 2000 | 2001** | 2002 | 2003 | 2004 |
| 0  | 77.2  | 77.7 | 77.8   | 78.0 | 78.2 | 78.6 |
| 1  | 76.7  | 77.2 | 77.2   | 77.4 | 77.6 | 78.1 |
| 5  | 72.8  | 73.2 | 73.3   | 73.5 | 73.7 | 74.1 |
| 10 | 67.9  | 68.3 | 68.4   | 68.6 | 68.7 | 69.2 |
| 15 | 62.9  | 63.3 | 63.4   | 63.6 | 63.8 | 64.2 |
| 20 | 58.1  | 58.5 | 58.6   | 58.7 | 58.9 | 59.4 |
| 25 | 53.3  | 53.7 | 53.8   | 53.9 | 54.1 | 54.6 |
| 30 | 48.5  | 48.9 | 49.0   | 49.1 | 49.3 | 49.7 |
| 35 | 43.8  | 44.2 | 44.2   | 44.3 | 44.5 | 44.9 |
| 40 | 39.2  | 39.5 | 39.6   | 39.7 | 39.9 | 40.2 |
| 45 | 34.7  | 35.1 | 35.2   | 35.2 | 35.4 | 35.7 |
| 50 | 30.4  | 30.8 | 30.9   | 30.9 | 31.1 | 31.3 |
| 55 | 26.3  | 26.6 | 26.8   | 26.8 | 26.9 | 27.2 |
| 60 | 22.3  | 22.6 | 22.8   | 22.8 | 23.0 | 23.3 |
| 65 | 18.5  | 18.8 | 19.0   | 19.1 | 19.2 | 19.4 |
| 70 | 15.1  | 15.4 | 15.5   | 15.5 | 15.6 | 15.8 |
| 75 | 11.9  | 12.1 | 12.2   | 12.2 | 12.3 | 12.3 |
| 80 | 9.1   | 9.3  | 9.2    | 9.2  | 9.3  | 9.3  |
| 85 | 6.7   | 6.8  | 6.7    | 6.7  | 6.8  | 6.9  |

|    | Male |      |        |      |      |      |
|----|------|------|--------|------|------|------|
|    | 1999 | 2000 | 2001** | 2002 | 2003 | 2004 |
| 0  | 74.1 | 74.5 | 74.8   | 74.9 | 75.1 | 75.7 |
| 1  | 73.7 | 74.0 | 74.2   | 74.4 | 74.6 | 75.2 |
| 5  | 69.8 | 70.1 | 70.3   | 70.5 | 70.7 | 71.2 |
| 10 | 64.8 | 65.1 | 65.4   | 65.5 | 65.7 | 66.3 |
| 15 | 59.9 | 60.2 | 60.4   | 60.6 | 60.8 | 61.4 |
| 20 | 55.1 | 55.4 | 55.6   | 55.7 | 56.0 | 56.5 |
| 25 | 50.4 | 50.7 | 50.9   | 51.0 | 51.2 | 51.8 |
| 30 | 45.7 | 46.0 | 46.2   | 46.3 | 46.5 | 47.0 |
| 35 | 41.0 | 41.3 | 41.5   | 41.6 | 41.8 | 42.3 |
| 40 | 36.5 | 36.8 | 37.0   | 37.0 | 37.2 | 37.6 |
| 45 | 32.2 | 32.4 | 32.6   | 32.6 | 32.8 | 33.1 |
| 50 | 28.1 | 28.3 | 28.5   | 28.5 | 28.6 | 28.9 |
| 55 | 24.1 | 24.4 | 24.6   | 24.5 | 24.7 | 25.0 |
| 60 | 20.3 | 20.6 | 20.8   | 20.8 | 20.9 | 21.3 |
| 65 | 16.7 | 17.0 | 17.2   | 17.2 | 17.4 | 17.7 |
| 70 | 13.5 | 13.8 | 13.9   | 13.9 | 14.0 | 14.3 |
| 75 | 10.7 | 10.8 | 10.9   | 11.0 | 10.9 | 11.0 |
| 80 | 8.1  | 8.3  | 8.3    | 8.3  | 8.3  | 8.3  |
| 85 | 6.0  | 6.1  | 6.1    | 6.2  | 6.2  | 6.2  |

|    | Female |      |        |      |      |      |
|----|--------|------|--------|------|------|------|
|    | 1999   | 2000 | 2001** | 2002 | 2003 | 2004 |
| 0  | 79.9   | 80.4 | 80.4   | 80.6 | 80.7 | 81.1 |
| 1  | 79.4   | 79.9 | 79.8   | 80.1 | 80.2 | 80.5 |
| 5  | 75.5   | 76.0 | 75.9   | 76.1 | 76.3 | 76.5 |
| 10 | 70.5   | 71.0 | 70.9   | 71.2 | 71.3 | 71.6 |
| 15 | 65.6   | 66.0 | 66.0   | 66.2 | 66.4 | 66.6 |
| 20 | 60.7   | 61.1 | 61.1   | 61.3 | 61.5 | 61.7 |
| 25 | 55.8   | 56.2 | 56.2   | 56.4 | 56.5 | 56.8 |
| 30 | 50.9   | 51.4 | 51.3   | 51.5 | 51.6 | 51.9 |
| 35 | 46.1   | 46.6 | 46.5   | 46.7 | 46.8 | 47.1 |
| 40 | 41.4   | 41.9 | 41.8   | 42.0 | 42.1 | 42.3 |
| 45 | 36.8   | 37.3 | 37.2   | 37.4 | 37.5 | 37.7 |
| 50 | 32.3   | 32.8 | 32.8   | 32.9 | 33.0 | 33.2 |
| 55 | 28.0   | 28.4 | 28.4   | 28.6 | 28.6 | 28.8 |
| 60 | 23.8   | 24.1 | 24.3   | 24.4 | 24.4 | 24.7 |
| 65 | 19.8   | 20.1 | 20.3   | 20.4 | 20.5 | 20.7 |
| 70 | 16.1   | 16.4 | 16.5   | 16.6 | 16.7 | 16.8 |
| 75 | 12.7   | 12.9 | 12.9   | 13.0 | 13.1 | 13.2 |
| 80 | 9.7    | 9.8  | 9.8    | 9.7  | 9.8  | 9.9  |
| 85 | 7.0    | 7.1  | 7.0    | 7.0  | 7.1  | 7.2  |

Note: Three year (1999-2001) death data are used to estimate 2000 life expectancy in Table 22 while single year death data are used in this Table. Life expectancy for year 2005 is not presented since national data are required and are not yet available.

\* Census population data (2000) are used for all those years in calculation. See Technical Notes: Population.

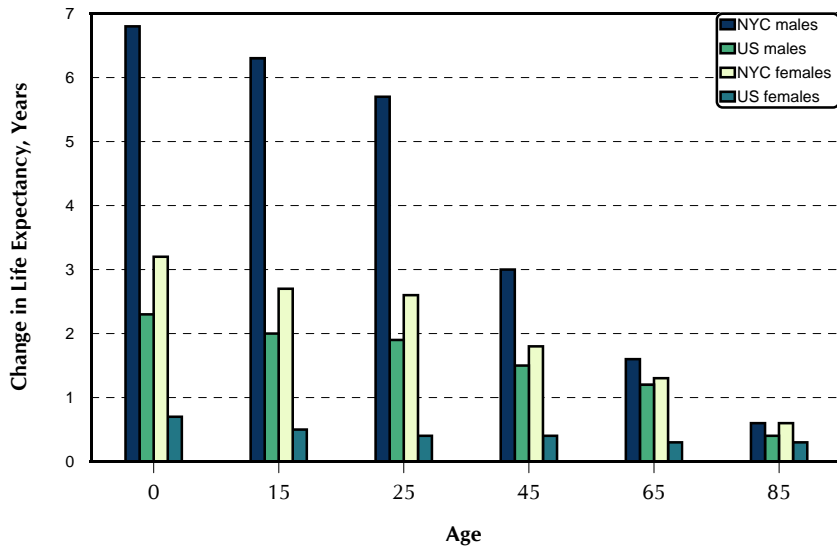
\*\* Calculations exclude World Trade Center deaths.

**Table 24.**

**Years of Potential Life Lost (YPLL) Before Age 75  
By Sex and By Selected Causes of Death, New York City, 2005**

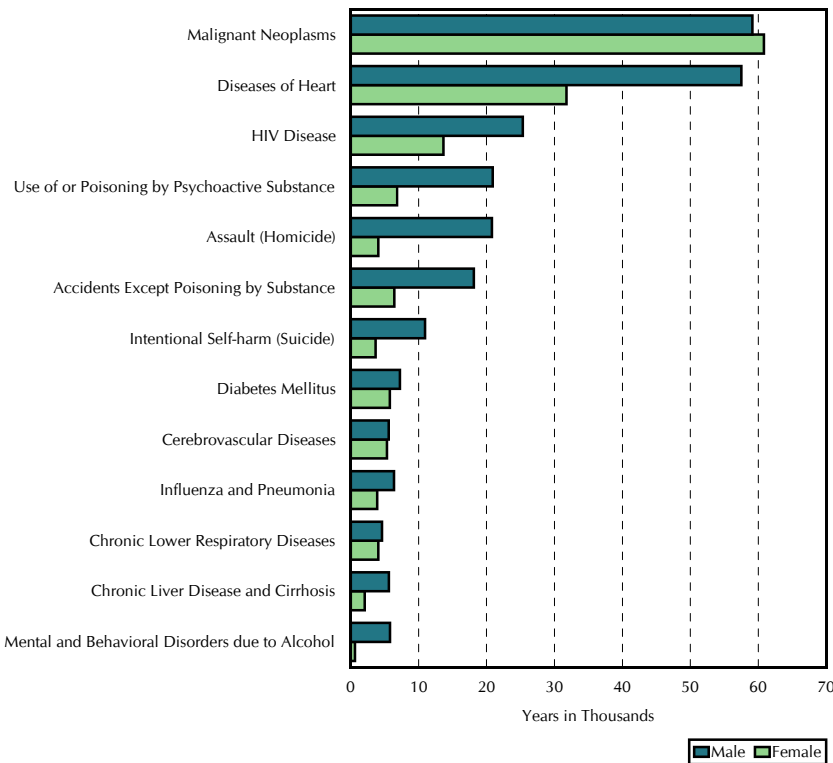
| Cause of Death  | Male    |       | Female  |       | All     |       |
|---|---------|-------|---------|-------|---------|-------|
|   | YPLL    | %     | YPLL    | %     | YPLL    | %     |
| Malignant neoplasms                                   | 59,145  | 18.5  | 60,835  | 29.7  | 119,980 | 22.9  |
| Trachea, bronchus and lung                            | 13,251  | 4.1   | 9,983   | 4.9   | 23,234  | 4.4   |
| Breast  | 44      | 0.0   | 14,132  | 6.9   | 14,176  | 2.7   |
| Colon, rectum and anus                                | 4,831   | 1.5   | 4,177   | 2.0   | 9,008   | 1.7   |
| Cervix uteri  | -       | 0.0   | 2,367   | 1.2   | 2,367   | 0.5   |
| Prostate  | 2,165   | 0.7   | -       | 0.0   | 2,165   | 0.4   |
| Diseases of heart                                     | 57,503  | 18.0  | 31,758  | 15.5  | 89,261  | 17.0  |
| HIV disease   | 25,331  | 7.9   | 13,655  | 6.7   | 38,986  | 7.4   |
| Use of or poisoning by psychoactive substance         | 20,899  | 6.5   | 6,835   | 3.3   | 27,734  | 5.3   |
| Assault (Homicide)                                    | 20,783  | 6.5   | 4,067   | 2.0   | 24,850  | 4.7   |
| Accidents except poisoning by psychoactive substance  | 18,139  | 5.7   | 6,429   | 3.1   | 24,568  | 4.7   |
| Motor vehicle   | 8,848   | 2.8   | 2,694   | 1.3   | 11,542  | 2.2   |
| Intentional self-harm (Suicide)                       | 10,950  | 3.4   | 3,682   | 1.8   | 14,632  | 2.8   |
| Diabetes mellitus                                     | 7,246   | 2.3   | 5,769   | 2.8   | 13,015  | 2.5   |
| Cerebrovascular diseases                              | 5,586   | 1.7   | 5,344   | 2.6   | 10,930  | 2.1   |
| Influenza and pneumonia                               | 6,373   | 2.0   | 3,908   | 1.9   | 10,281  | 2.0   |
| Chronic lower respiratory diseases                    | 4,620   | 1.4   | 4,079   | 2.0   | 8,699   | 1.7   |
| Chronic liver disease and cirrhosis                   | 5,603   | 1.7   | 2,064   | 1.0   | 7,667   | 1.5   |
| Mental and behavioral disorders due to use of alcohol | 5,779   | 1.8   | 633     | 0.3   | 6,412   | 1.2   |
| All other causes                                      | 72,218  | 22.6  | 55,555  | 27.2  | 127,773 | 24.3  |
| Total   | 320,175 | 100.0 | 204,613 | 100.0 | 524,788 | 100.0 |

Note: Years of potential life lost (YPLL) is defined as the number of years of life lost among persons who die before a predetermined age.  
See Technical Notes for detailed calculation.



**Figure 15. Changes in Life Expectancy at Selected Ages by Sex, 1990 and 2000**  
New York City and United States

Between 1990 and 2000, in contrast to the prior decade, life expectancy for male New York City residents at birth, at ages 15 and 25 increased substantially. The increases are 6.8, 6.3, and 5.7 years respectively. Contributing factors include declines in infant mortality, HIV, cardiovascular diseases and homicide deaths. Life expectancy for all United States males at these ages also increased but at lower rates, from 1.9 to 2.3 years. Life expectancy for New York City females increased more than for all United States females. At selected older ages New York City male residents also showed greater increases in life expectancy than did males nationwide but not as much as younger ages. Nationwide, females had a small increase in life expectancy at all ages.  
Note: Calculations exclude World Trade Center deaths.



**Figure 16. Years of Potential Life Lost (YPLL) Before Age 75 by Sex, Selected Causes**  
New York City, 2005

Malignant neoplasms (cancers) and diseases of the heart, the two leading causes of death, are responsible for approximately 40% of YPLL in NYC. Cancer, the second leading cause of death, is responsible for the greatest number of YPLL, 119,980 in 2005, while diseases of the heart, the first leading cause of death, accounts for 89,261 YPLL.

While cancer is responsible for similar numbers of YPLL for both women and men, fewer years are lost from reproductive cancers among men and more years are lost from cancer of the trachea, bronchus, lung, colon, rectum and anus among men. Cancers of the trachea, bronchus, lung, breast, colon, rectum, anus and cervix uteri account for 41% of cancer YPLL among men and women.

For many of the most frequent causes of death, more than twice the number of YPLL are lost to men than women. Sixty-four percent of the 89,261 YPLL due to diseases of the heart are lost to men (57,503 YPLL) vs. 36% to women (31,758 YPLL). Sixty-five percent of YPLL to AIDS are lost to men vs. 35% to women; 75% of YPLL to use of or poisoning by psychoactive substance are lost to men vs. 25% to women; 85% of YPLL to assault (Homicide) are lost to men vs. 15% to women; 74% of YPLL to accidents except poisoning by psychoactive substance (includes motor vehicle accidents) are lost to men vs. 26% to women; 75% of YPLL to intentional self-harm (Suicide) are lost to men vs. 25% to women; 73% of YPLL to Chronic Liver Disease and Cirrhosis are lost to men vs. 27% to women; and 90% of YPLL to mental and behavioral disorders due to use of alcohol are lost to men vs. 10% to women.

Table 25.

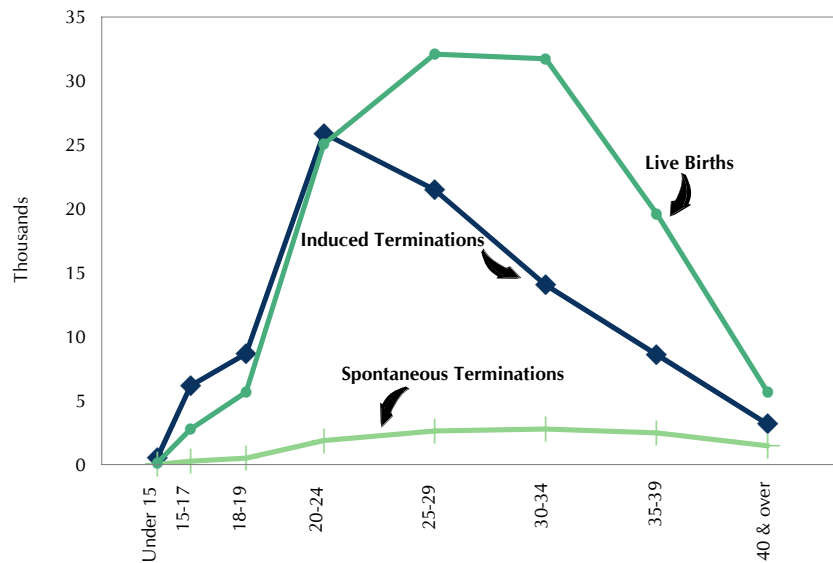
Deaths and Crude Death Rates\*\*\* per 100,000 Population from

| Cause (ICD-10 Codes (1) )                                  | ANNUAL    |           |           |           |           |           |           |           |           |           |           |           |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|  | 1901-1905 | 1906-1910 | 1911-1915 | 1916-1920 | 1921-1925 | 1926-1930 | 1931-1935 | 1936-1940 | 1941-1945 | 1946-1950 | 1951-1955 | 1952-1955 |
| Infant deaths (under 1 year).....                          | 15,611    | 16,609    | 14,060    | 12,004    | 8,895     | 7,662     | 5,521     | 4,079     | 3,828     | 4,298     | 3,882     | 4,021     |
| Rate per 1,000 live births.....                            | 120.8     | 115.2     | 100.0     | 88.2      | 68.9      | 61.0      | 52.0      | 39.8      | 30.3      | 26.8      | 24.5      | 24.6      |
| Neonatal deaths (under 28 days).....                       | **        | **        | 5,143     | 4,894     | 4,309     | 3,892     | 3,152     | 2,631     | 2,764     | 3,298     | 2,989     | 3,032     |
| Rate per 1,000 live births.....                            | **        | **        | 37.4      | 36.0      | 33.0      | 31.0      | 29.7      | 25.7      | 21.9      | 20.5      | 18.9      | 18.5      |
| Early neonatal deaths (under 7 days).....                  | **        | **        | **        | **        | **        | **        | **        | 2,110     | 2,338     | 2,845     | 2,604     | 2,713     |
| Rate per 1,000 live births.....                            | **        | **        | **        | **        | **        | **        | **        | 20.5      | 18.5      | 17.7      | 16.4      | 16.6      |
| Fetal deaths 28 weeks gestation & over.....                | **        | **        | **        | **        | **        | **        | **        | 2,589     | 2,709     | 2,902     | 2,441     | 2,310     |
| Rate per 1,000 live births.....                            | **        | **        | **        | **        | **        | **        | **        | 25.3      | 21.4      | 18.1      | 15.4      | 14.1      |
| Perinatal mortality ratio (2).....                         | **        | **        | **        | **        | **        | **        | **        | 44.7      | 39.1      | 35.1      | 31.3      | 30.2      |
| Pregnancy, childbirth and the puerperium (O00-O99).....    | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        |
| Rate per 100,000 live births.....                          | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        |
| Maternal causes *** (A34,O00-O95,O98-O99).....             | 694       | 745       | 694       | 664       | 689       | 651       | 608       | 372       | 255       | 178       | 115       | 102       |
| Rate per 100,000 live births.....                          | 538.0     | 517.4     | 493.7     | 487.9     | 528.1     | 518.4     | 572.6     | 363.2     | 201.6     | 110.8     | 72.6      | 62.3      |
| Respiratory tuberculosis (A16).....                        | 8,154     | 8,832     | 8,745     | 7,915     | 4,937     | 4,574     | 4,068     | 3,680     | 3,281     | 2,932     | 2,173     | 1,178     |
| Rate.....  | 215.4     | 197.5     | 173.2     | 144.1     | 80.0      | 68.2      | 57.3      | 50.0      | 43.2      | 37.7      | 27.4      | 15.0      |
| Other forms of tuberculosis (A17-A19).....                 | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | 225       | 174       |
| Rate.....  | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | 2.9       | 2.2       |
| Human immunodeficiency virus disease (B20-B24) (3).....    | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        |
| Rate.....  | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        |
| Malignant neoplasms (C00-C97).....                         | 2,621     | 3,334     | 4,256     | 4,993     | 6,229     | 7,637     | 9,062     | 11,257    | 13,169    | 14,627    | 15,556    | 16,553    |
| Rate.....  | 69.2      | 74.5      | 84.3      | 90.9      | 100.9     | 113.9     | 127.6     | 152.9     | 173.3     | 188.2     | 196.0     | 210.6     |
| Trachea, bronchus and lung, male (C33-C34).....            | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | 828       | 847       |
| Rate.....  | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | 21.9      | 22.2      |
| Trachea, bronchus and lung, female (C33-C34).....          | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | 220       | 179       |
| Rate.....  | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | 5.5       | 4.4       |
| Colon, rectum and anus (C18-C21).....                      | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        |
| Rate.....  | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | 1,429     | 1,476     |
| Breast, female (C50).....                                  | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | 35.9      | 36.4      |
| Rate.....  | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | 44.0      | 44.0      |
| Diabetes mellitus (E10-E14).....                           | 520       | 690       | 916       | 1,063     | 1,284     | 1,624     | 2,140     | 2,787     | 3,131     | 3,423     | 1,583     | 1,644     |
| Rate.....  | 13.7      | 15.4      | 18.1      | 19.4      | 20.8      | 24.2      | 30.1      | 37.9      | 41.2      | 44.0      | 19.9      | 20.9      |
| Major cardiovascular diseases (I00-I78).....               | 5,954     | 9,148     | 12,699    | 14,792    | 18,114    | 21,815    | 23,706    | 25,711    | 30,886    | 32,539    | 36,206    | 37,724    |
| Rate.....  | 157.3     | 204.5     | 251.5     | 269.3     | 293.3     | 325.5     | 333.8     | 349.2     | 406.6     | 418.7     | 456.3     | 479.9     |
| Cerebrovascular disease (I60-I69).....                     | 2,593     | 1,790     | 970       | 834       | 719       | 723       | 1,333     | 3,846     | 3,611     | 3,710     | 5,099     | 5,688     |
| Rate.....  | 68.4      | 40.0      | 19.2      | 15.2      | 11.6      | 10.8      | 20.2      | 52.2      | 47.5      | 47.7      | 64.3      | 72.4      |
| Influenza & Pneumonia (J10-J18).....                       | 10,425    | 10,985    | 10,528    | 17,136    | 8,935     | 9,989     | 8,205     | 5,337     | 3,453     | 3,014     | 2,469     | 2,664     |
| Rate.....  | 275.4     | 245.6     | 208.5     | 312.0     | 144.7     | 149.0     | 115.5     | 72.5      | 45.5      | 38.8      | 31.2      | 33.9      |
| Other respiratory (J00-J06, J20-J99).....                  | 3,224     | 2,307     | 1,458     | 1,407     | 689       | 622       | 594       | 536       | 492       | 424       | 450       | 461       |
| Rate.....  | 85.2      | 51.6      | 38.9      | 25.6      | 11.2      | 9.3       | 8.4       | 7.3       | 6.5       | 5.5       | 5.7       | 5.9       |
| Chronic liver disease & cirrhosis (K70, K73-K74).....      | 814       | 1,076     | 900       | 500       | 338       | 413       | 584       | 922       | 1,052     | 1,500     | 1,500     | 1,440     |
| Rate.....  | 21.5      | 24.1      | 17.8      | 9.1       | 5.5       | 6.2       | 8.2       | 12.5      | 13.8      | 17.5      | 19.2      | 18.3      |
| Nephritis,nephrosis,etc. (N00-N07, N17-N19, N25-N27).....  | 5,752     | 5,600     | 5,499     | 5,676     | 4,108     | 3,411     | 3,608     | 3,675     | 3,081     | 2,574     | 570       | 556       |
| Rate.....  | 151.9     | 125.2     | 108.9     | 103.4     | 50.9      | 50.8      | 50.9      | 40.6      | 40.6      | 33.1      | 7.2       | 7.1       |
| Use of psychoactive substance (F11-F16, F18-F19).....      | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | 81        |
| Rate.....  | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | 1.0       |
| Accidental drug poisoning (X40-X42, X44).....              | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        |
| Rate.....  | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        |
| Motor vehicle accidents (4).....                           | **        | **        | 253       | 658       | 929       | 1,175     | 1,167     | 920       | 728       | 635       | 600       | 634       |
| Rate.....  | **        | **        | 5.0       | 12.0      | 15.0      | 17.5      | 16.4      | 12.5      | 9.6       | 8.2       | 7.6       | 8.1       |
| Home accidents.....  | **        | **        | **        | **        | **        | **        | **        | 1,546     | 1,823     | 1,941     | 1,699     | 1,568     |
| Rate.....  | **        | **        | **        | **        | **        | **        | **        | 21.0      | 24.0      | 25.0      | 21.4      | 19.9      |
| Other accidents (Rest of V01-X59, Y85-Y86).....            | 3,521     | 3,549     | 3,516     | 3,426     | 3,138     | 3,574     | 3,205     | 3,107     | 3,091     | 3,255     | 2,707     | 2,450     |
| Rate.....  | 93.0      | 79.3      | 69.3      | 62.4      | 50.8      | 53.3      | 45.1      | 42.2      | 40.7      | 41.9      | 34.3      | 31.2      |
| Intentional self-harm (Suicide) (X60-X84, Y87.0).....      | 761       | 825       | 686       | 742       | 842       | 1,163     | 1,369     | 1,191     | 907       | 930       | 863       | 649       |
| Rate.....  | 20.1      | 18.4      | 17.2      | 13.5      | 13.6      | 17.4      | 19.3      | 16.2      | 11.9      | 12.0      | 10.9      | 8.3       |
| Assault (Homicide) (X85-Y09, Y87.1).....                   | 143       | 247       | 293       | 271       | 334       | 405       | 522       | 351       | 265       | 362       | 318       | 340       |
| Rate.....  | 3.8       | 5.5       | 5.8       | 4.9       | 5.4       | 6.0       | 7.4       | 4.5       | 3.5       | 4.7       | 4.0       | 4.3       |
| Events of undetermined intent (Y10-Y34, Y87.2, Y89.9)..... | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        |
| Rate.....  | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        |
| Alzheimer's disease (G30).....                             | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        |
| Rate.....  | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        |
| Asthma (J45-J46).....                                      | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        |
| Rate.....  | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        | **        |

(1) Numbers following causes are codes of the International Classification of Diseases, Tenth Revision.  
 (2) Perinatal mortality ratio: see rates and ratios section for a definition.  
 (3) AIDS was first reported as a cause of death in 1982, and coded 279.1 until 1986. From 1987 through 1998, HIV infections were coded 042-044. Under ICD-10, beginning in 1999, HIV disease is coded to B20-B24. See the Technical Notes for a discussion of HIV disease and AIDS as the cause of death.  
 (4) Motor vehicle accident codes include V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2.  
 (5) Data for 1982-1985.  
 (6) Rate less than 0.05.  
 # World Trade Center (WTC) deaths are not included in 2001. See 2002 Annual Summary's Special Section on WTC deaths in 2002 Summary of Vital Statistics for detailed statistics.  
 \* Excludes deaths occurring more than 42 days after the termination of pregnancy and includes obstetrical tetanus (ICD-10 codes: A34, O00-O95, O98-O99). In 2000-2002 Summary, the codes was mistakenly labeled as "A34, O00-O96,O98-O99" in this Table. See Technical Notes for detailed description of maternal death.  
 \*\* Data are not available or not applicable.  
 \*\*\* Rates for intercensal years are not adjusted for intercensal population changes before 2000. 2001-2005 population data are from U.S. Census Bureau's annual estimates. See Technical Notes: Population.

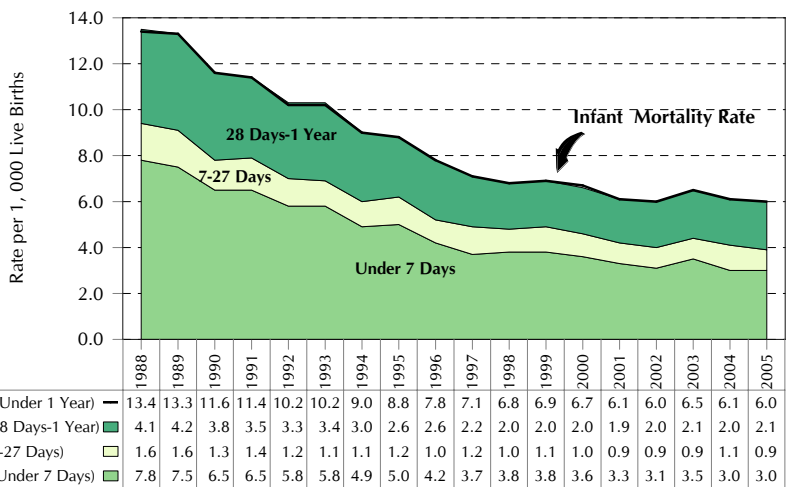
**Selected Causes, New York City, 1901-2005**

| AVERAGE   |           |           |           |           |           |           |           |        |        |        |        |        |        |        |        |        |        |       |      | Comparability Ratio |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|---------------------|
| 1956-1960 | 1961-1965 | 1966-1970 | 1971-1975 | 1976-1980 | 1981-1985 | 1986-1990 | 1991-1995 | 1996   | 1997   | 1998   | 1999   | 2000   | 2001*  | 2002   | 2003   | 2004   | 2005   |       |      |                     |
| 4,290     | 4,333     | 3,477     | 2,312     | 1,875     | 1,624     | 1,691     | 1,339     | 992    | 881    | 843    | 848    | 839    | 760    | 742    | 807    | 760    | 732    |       |      |                     |
| 25.7      | 26.2      | 23.6      | 19.9      | 17.4      | 14.4      | 12.8      | 10.0      | 7.8    | 7.1    | 6.8    | 6.9    | 6.7    | 6.1    | 6.0    | 6.5    | 6.1    | 6.0    |       |      |                     |
| 3,220     | 3,226     | 2,602     | 1,714     | 1,333     | 1,097     | 1,159     | 912       | 656    | 605    | 593    | 606    | 583    | 524    | 497    | 542    | 516    | 481    |       |      |                     |
| 19.3      | 19.5      | 17.7      | 14.8      | 12.3      | 9.7       | 8.8       | 6.8       | 5.2    | 4.9    | 4.8    | 4.9    | 4.6    | 4.2    | 4.0    | 4.4    | 4.1    | 3.9    |       |      |                     |
| 2,909     | 2,922     | 2,351     | 1,480     | 1,131     | 927       | 972       | 753       | 528    | 459    | 475    | 474    | 455    | 409    | 379    | 432    | 377    | 374    |       |      |                     |
| 17.4      | 17.7      | 16.0      | 12.8      | 10.5      | 8.2       | 7.4       | 5.6       | 4.2    | 3.7    | 3.8    | 3.8    | 3.6    | 3.3    | 3.1    | 3.5    | 3.0    | 3.0    |       |      |                     |
| 2,362     | 2,276     | 1,885     | 1,288     | 835       | 719       | 698       | 686       | 580    | 507    | 505    | 490    | 507    | 444    | 460    | 410    | 419    | 422    |       |      |                     |
| 14.1      | 13.8      | 12.8      | 11.1      | 7.7       | 6.4       | 5.3       | 5.1       | 4.6    | 4.1    | 4.1    | 4.0    | 4.0    | 3.6    | 3.7    | 3.3    | 3.4    | 3.4    |       |      |                     |
| 31.1      | 31.0      | 28.4      | 23.6      | 18.1      | 14.5      | 12.6      | 10.6      | 8.7    | 7.8    | 7.9    | 7.8    | 7.6    | 6.9    | 6.8    | 6.7    | 6.4    | 6.5    |       |      |                     |
| **        | **        | **        | **        | **        | **        | **        | **        | **     | **     | **     | **     | 26     | 34     | 43     | 32     | 29     | 29     | 26    |      |                     |
| 107       | 109       | 73        | 36        | 28        | 33        | 29        | 26        | 22     | 17     | 16     | 24     | 27.1   | 34.7   | 26.0   | 23.3   | 23.3   | 21.2   |       |      |                     |
| 64.1      | 66.0      | 49.6      | 31.1      | 25.9      | 29.2      | 22.3      | 19.2      | 17.3   | 13.8   | 12.9   | 19.4   | 23.9   | 33.1   | 26.0   | 17.7   | 22.5   | 17.1   |       |      |                     |
| 824       | 624       | 432       | 235       | 141       | 125       | 174       | 135       | 46     | 44     | 33     | 37     | 37     | 30     | 26     | 26     | 26     | 17     |       | 0.94 |                     |
| 10.6      | 8.0       | 5.5       | 3.1       | 2.0       | 1.7       | 2.4       | 1.8       | 0.6    | 0.6    | 0.5    | 0.5    | 0.5    | 0.4    | 0.3    | 0.3    | 0.3    | 0.2    |       |      |                     |
| 52        | 43        | 39        | 32        | 22        | 35        | 55        | 34        | 21     | 11     | 19     | 12     | 7      | 3      | 4      | 8      | 5      | 4      |       | 0.70 |                     |
| 0.7       | 0.6       | 0.5       | 0.4       | 0.3       | 0.5       | 0.8       | 0.5       | 0.3    | 0.2    | 0.3    | 0.2    | 0.1    | 0.0    | 0.0    | 0.1    | 0.1    | 0.0    |       |      |                     |
| **        | **        | **        | **        | **        | **        | 768 (5)   | 3,703     | 6,257  | 4,998  | 2,625  | 1,978  | 2,020  | 1,961  | 1,774  | 1,713  | 1,656  | 1,451  | 1,419 |      | 1.08                |
| 16,869    | 17,398    | 17,814    | 17,315    | 16,549    | 15,889    | 15,612    | 15,191    | 14,591 | 14,194 | 14,454 | 14,334 | 14,100 | 14,041 | 13,742 | 13,826 | 13,611 | 13,366 |       | 1.01 |                     |
| 216.1     | 222.1     | 226.3     | 226.3     | 228.7     | 222.3     | 214.7     | 201.9     | 199.3  | 193.8  | 197.4  | 195.8  | 176.1  | 175.3  | 171.6  | 172.6  | 170.0  | 166.9  |       |      |                     |
| 1,157     | 1,294     | 1,890     | 2,434     | 2,387     | 2,217     | 2,201     | 2,083     | 1,967  | 1,859  | 1,849  | 1,782  | 1,790  | 1,746  | 1,708  | 1,738  | 1,727  | 1,648  |       | 0.98 |                     |
| 30.9      | 34.8      | 51.0      | 68.1      | 71.0      | 66.7      | 64.4      | 60.6      | 57.2   | 54.1   | 53.8   | 51.8   | 47.2   | 46.0   | 45.0   | 45.8   | 45.5   | 43.4   |       |      |                     |
| 261       | 303       | 474       | 777       | 970       | 1,169     | 1,315     | 1,426     | 1,420  | 1,333  | 1,472  | 1,467  | 1,390  | 1,426  | 1,413  | 1,436  | 1,331  | 1,335  |       | 0.99 |                     |
| 6.4       | 7.4       | 11.4      | 19.1      | 25.0      | 30.6      | 33.9      | 36.7      | 36.6   | 34.3   | 37.9   | 37.8   | 33.0   | 33.8   | 33.5   | 34.1   | 31.6   | 31.7   |       |      |                     |
| **        | **        | **        | **        | **        | **        | **        | 1,805     | 1,636  | 1,727  | 1,697  | 1,702  | 1,665  | 1,595  | 1,577  | 1,638  | 1,495  | 1,427  |       | 1.00 |                     |
| 1,573     | 1,694     | 1,787     | 1,723     | 1,622     | 1,533     | 1,537     | 1,510     | 1,504  | 1,378  | 1,344  | 1,292  | 1,253  | 1,348  | 1,218  | 1,249  | 1,261  | 1,254  |       | 1.01 |                     |
| 38.7      | 41.3      | 42.9      | 42.3      | 41.9      | 40.1      | 39.6      | 38.9      | 38.7   | 35.5   | 34.6   | 33.3   | 29.7   | 32.0   | 28.9   | 29.6   | 29.9   | 29.8   |       |      |                     |
| 1,581     | 1,789     | 1,867     | 2,064     | 1,547     | 1,436     | 1,198     | 1,348     | 1,538  | 1,590  | 1,548  | 1,791  | 1,827  | 1,710  | 1,704  | 1,891  | 1,734  | 1,813  |       | 1.02 |                     |
| 20.3      | 22.9      | 23.7      | 27.0      | 21.4      | 20.1      | 16.5      | 17.9      | 21.0   | 21.7   | 21.1   | 24.5   | 22.8   | 21.4   | 21.3   | 23.6   | 21.7   | 22.6   |       |      |                     |
| 38,988    | 39,943    | 41,981    | 40,639    | 37,978    | 37,818    | 33,527    | 32,074    | 30,995 | 29,642 | 28,755 | 29,157 | 28,101 | 27,407 | 27,638 | 26,992 | 25,687 | 25,592 |       | 1.00 |                     |
| 499.5     | 510.2     | 532.4     | 531.1     | 524.8     | 529.1     | 461.0     | 426.4     | 423.3  | 404.8  | 392.7  | 398.2  | 350.9  | 342.2  | 345.1  | 337.1  | 320.8  | 319.6  |       |      |                     |
| 6,013     | 6,174     | 6,277     | 5,433     | 4,174     | 3,194     | 2,927     | 2,256     | 2,114  | 2,119  | 1,998  | 2,101  | 1,960  | 1,887  | 1,854  | 1,855  | 1,794  | 1,647  |       | 1.05 |                     |
| 77.0      | 78.9      | 79.7      | 71.0      | 57.7      | 44.7      | 40.2      | 30.0      | 28.9   | 28.9   | 27.3   | 28.7   | 24.5   | 23.6   | 23.2   | 23.2   | 22.4   | 20.6   |       |      |                     |
| 3,459     | 3,394     | 3,562     | 3,164     | 3,000     | 2,740     | 3,354     | 2,810     | 2,702  | 2,618  | 2,680  | 2,474  | 2,267  | 2,505  | 2,508  | 2,692  | 3,003  | 2,921  |       | 0.70 |                     |
| 44.3      | 43.4      | 45.2      | 41.4      | 41.5      | 38.3      | 46.1      | 37.4      | 36.9   | 35.8   | 36.6   | 33.8   | 28.3   | 31.3   | 31.3   | 33.6   | 37.5   | 36.5   |       |      |                     |
| 651       | 960       | 1,425     | 1,627     | 1,583     | 1,941     | 2,507     | 1,943     | 1,951  | 1,933  | 1,993  | 2,195  | 2,054  | 2,118  | 2,092  | 2,013  | 2,052  | 1,912  |       |      |                     |
| 8.3       | 12.3      | 18.1      | 21.3      | 21.9      | 27.2      | 34.5      | 25.8      | 26.6   | 26.4   | 27.2   | 30.0   | 25.6   | 26.4   | 26.1   | 25.1   | 25.6   | 23.9   |       |      |                     |
| 1,858     | 2,386     | 2,936     | 2,440     | 2,185     | 1,789     | 1,289     | 946       | 825    | 720    | 684    | 689    | 568    | 578    | 540    | 520    | 500    | 469    |       | 1.03 |                     |
| 23.8      | 30.5      | 37.3      | 31.9      | 30.2      | 25.0      | 17.7      | 12.6      | 11.3   | 9.8    | 9.3    | 9.4    | 7.1    | 7.2    | 6.7    | 6.5    | 6.2    | 5.9    |       |      |                     |
| 573       | 509       | 447       | 372       | 381       | 383       | 816       | 311       | 296    | 378    | 413    | 882    | 853    | 800    | 711    | 635    | 592    | 531    |       | 1.26 |                     |
| 7.3       | 6.5       | 5.7       | 4.9       | 5.3       | 5.4       | 11.2      | 4.1       | 4.0    | 5.2    | 5.6    | 12.0   | 10.7   | 10.0   | 8.9    | 7.9    | 7.4    | 6.6    |       |      |                     |
| 96        | 263       | 551       | 677       | 414       | 573       | 787       | 947       | 909    | 885    | 825    | 855    | 902    | 887    | 869    | 909    | 822    | 843    |       |      |                     |
| 1.2       | 3.4       | 7.0       | 8.8       | 5.7       | 8.0       | 10.8      | 12.6      | 12.4   | 12.1   | 11.3   | 11.7   | 11.3   | 11.1   | 10.9   | 11.4   | 10.3   | 10.5   |       |      |                     |
| **        | **        | **        | **        | **        | 1         | 143       | 49        | 36     | 19     | 18     | 26     | 30     | 22     | 36     | 51     | 33     | 63     |       |      |                     |
| 655       | 714       | 887       | 834       | 606       | 477       | (6)       | 2.0       | 0.7    | 0.5    | 0.3    | 0.2    | 0.4    | 0.3    | 0.4    | 0.6    | 0.4    | 0.8    |       |      |                     |
| 8.4       | 9.1       | 11.3      | 10.9      | 8.4       | 6.7       | 8.6       | 7.4       | 6.0    | 6.8    | 5.3    | 5.5    | 4.6    | 5.0    | 5.2    | 4.8    | 4.4    | 4.7    |       | 0.95 |                     |
| 1,095     | 951       | 871       | 755       | 525       | 486       | 589       | 508       | 479    | 432    | 390    | **     | **     | **     | **     | **     | **     | **     |       |      |                     |
| 14.0      | 12.1      | 11.1      | 9.9       | 7.3       | 6.8       | 8.1       | 6.8       | 6.5    | 5.9    | 5.3    |        |        |        |        |        |        |        |       |      |                     |
| 2,091     | 1,947     | 1,730     | 1,239     | 926       | 812       | 880       | 394       | 341    | 369    | 350    | 729    | 676    | 956    | 766    | 763    | 696    | 779    |       |      |                     |
| 26.8      | 24.9      | 22.0      | 16.2      | 12.8      | 11.4      | 12.1      | 5.2       | 4.7    | 5.0    | 4.8    | 10.0   | 8.4    | 11.9   | 9.6    | 9.5    | 8.7    | 9.7    |       |      |                     |
| 711       | 908       | 680       | 641       | 711       | 603       | 600       | 599       | 557    | 545    | 524    | 494    | 448    | 462    | 495    | 484    | 493    | 481    |       | 1.00 |                     |
| 9.1       | 11.6      | 8.6       | 8.4       | 9.8       | 8.4       | 8.3       | 8.0       | 7.6    | 7.4    | 7.2    | 6.7    | 5.6    | 5.8    | 6.2    | 6.0    | 6.2    | 6.0    |       |      |                     |
| 366       | 592       | 992       | 1,663     | 1,700     | 1,763     | 1,902     | 1,815     | 1,018  | 793    | 675    | 690    | 714    | 670    | 616    | 657    | 598    | 579    |       | 1.00 |                     |
| 4.7       | 7.6       | 12.6      | 21.7      | 23.5      | 24.7      | 26.2      | 24.1      | 13.9   | 10.8   | 9.2    | 9.4    | 8.9    | 8.4    | 7.7    | 8.2    | 7.5    | 7.2    |       |      |                     |
| **        | **        | 946       | 1,062     | 699       | 696       | 504       | 161       | 153    | 159    | 135    | 153    | 155    | 206    | 261    | 189    | 234    | 269    |       |      |                     |
| **        | **        | 10.9      | 13.9      | 9.7       | 9.7       | 6.9       | 2.0       | 2.1    | 2.2    | 1.8    | 2.1    | 1.9    | 2.6    | 3.3    | 2.4    | 2.9    | 3.4    |       |      |                     |
| **        | **        | **        | **        | **        | **        | **        | 84        | 77     | 74     | 82     | 132    | 211    | 172    | 230    | 249    | 242    | 269    |       | 1.58 |                     |
| **        | **        | **        | **        | **        | **        | **        | 1.2       | 1.1    | 1.0    | 1.1    | 1.8    | 2.6    | 2.1    | 2.9    | 3.1    | 3.0    | 3.4    |       |      |                     |
| **        | **        | **        | **        | **        | **        | **        | 269       | 273    | 235    | 250    | 244    | 213    | 215    | 205    | 205    | 180    | 177    |       | 0.89 |                     |
| **        | **        | **        | **        | **        | **        | **        | 3.7       | 3.7    | 3.2    | 3.4    | 3.3    | 2.7    | 2.7    | 2.6    | 2.6    | 2.2    | 2.2    |       |      |                     |



**Figure 17. Live Births, Induced Terminations and Spontaneous Terminations of Pregnancy by Age of Woman, New York City, 2005**

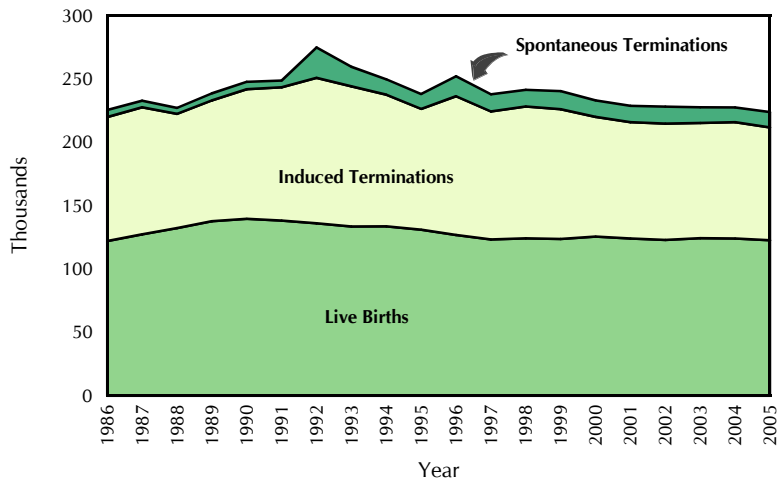
Over 223,000 pregnancy outcomes were reported in New York City in 2005. About 55% were live births, 40% were induced terminations, and the remainder were spontaneous terminations (fetal deaths). The proportion of pregnancies ending in an induced termination is the highest among younger women, and stabilizes at around 30% at age 30. For women under the age of 25, the pregnancy outcome is more likely to be an induced termination than a live birth or spontaneous termination. The number of induced and spontaneous terminations reported to the Department of Health and Mental Hygiene depends to some extent on active surveillance, notwithstanding that all terminations, not just those of a certain gestational age or weight, are required to be reported.



**Figure 18. Infant, Neonatal and Post-neonatal Mortality Rates, New York City, 1988-2005**

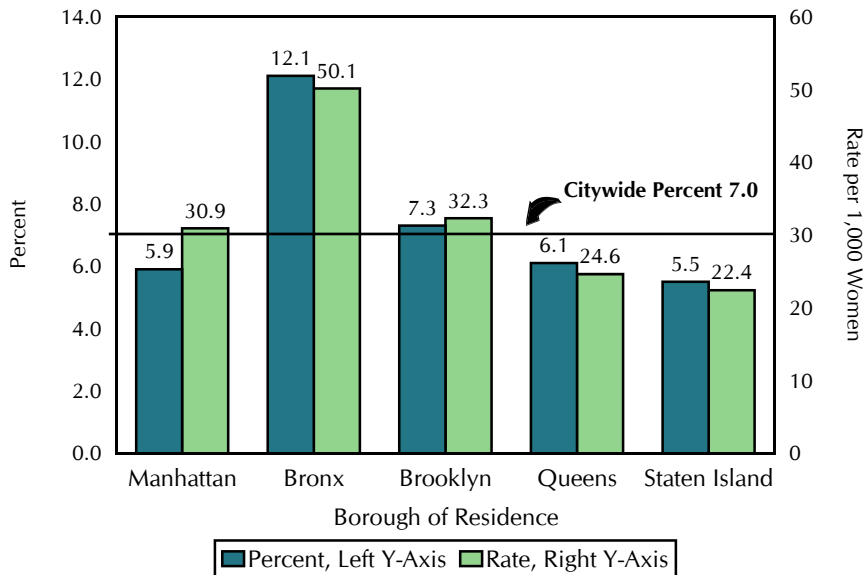
The New York City Infant Mortality Rate decreased from 6.1 in 2004 to 6.0 deaths per 1,000 live births in 2005, the same as its historical low in 2002. Deaths in the early neonatal period after birth (under seven days) were 3.0 per 1,000 live births. Late neonatal (seven to twenty-seven days), and post-neonatal (twenty eight days to under one year) IMR stayed at about the same level as 2004. From 1988 to 2005, the rates of both early neonatal deaths and post-neonatal deaths declined by more than half, while the rate for late neonatal deaths declined by about 50 percent.

Note: See Table 53 on Perinatal Periods of Risk (PPOR) approach to understand fetal-infant mortality (page 65).



**Figure 19. Number of Live Births, Induced Terminations and Spontaneous Terminations New York City, 1986-2005**

The number of live births increased in the 1980s and reached its current peak in 1990. (The historic peak was 168,393 in 1961.) Since then the number has declined slightly. The number of Induced terminations had a similar pattern except its peak was 1992. The number of spontaneous terminations also peaked in 1992. The number of induced and spontaneous terminations reported to the Department of Health and Mental Hygiene depends to some extent on active surveillance, notwithstanding that all terminations, not just those of a certain gestational age or weight, are required to be reported. See Technical Notes: Induced and Spontaneous Terminations of Pregnancy.



**Figure 20. Percent and Rate\* of Live Births to Teenagers by Borough of Residence New York City, 2003-2005**

In 2003-2005, of all live births in the five boroughs of New York City, the Bronx had the highest percent of teen births, 12.1%. This was two times higher than the percent of live births to teenagers in Manhattan, at 5.9%; Queens, at 6.1%; and Staten Island, at 5.5%. The percent of teen births in Brooklyn was 7.3% in the 2003-2005 time period. Citywide live births to teenage mothers stayed at a low level, 7.0% in 2005. This compares to 10.3% in the U.S. in 2004, the latest year for which data were available. The birth rate to teenagers (aged 15-19) has the same pattern, with the highest, 50.1 per 1000 women at Bronx, and the lowest, 22.4 at Staten Island. Citywide birth rate to mothers aged 15-19 is 33.6 per 1,000 women in 2003-2005. \* Population data are from 2000 census. See Technical Notes: Population.

Table 25a.

## Average Yearly Age-Sex-Specific Death Rates per 1,000 Population, New York City, 1909-2001

See Note

| Age       | 1909-1911 |        | 1919-1920 |        | 1929-1931 |        | 1939-1941 |        | 1949-1951 |        | 1959-1961 |        | 1969-1971 |        | 1979-1981 |        | 1989-1991 |        | 1999-2001* |        |
|-----------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|------------|--------|
|           | Male      | Female | Male      | Female | Male      | Female | Male      | Female | Male      | Female | Male      | Female | Male      | Female | Male      | Female | Male      | Female | Male       | Female |
| 0-4       | 50.2      | 43.2   | 32.4      | 26.5   | 19.4      | 15.4   | 11.3      | 8.8    | 7.6       | 6.0    | 8.2       | 6.4    | 6.6       | 5.3    | 4.1       | 3.4    | 3.8       | 3.1    | 1.9        | 1.5    |
| 5-9       | 4.2       | 3.9    | 3.8       | 3.1    | 2.5       | 2.0    | 1.0       | 0.8    | 0.6       | 0.5    | 0.7       | 0.5    | 0.6       | 0.4    | 0.4       | 0.2    | 0.2       | 0.2    | 0.2        | 0.1    |
| 10-14     | 2.4       | 2.3    | 2.4       | 2.2    | 1.7       | 1.3    | 0.9       | 0.7    | 0.6       | 0.4    | 0.5       | 0.3    | 0.5       | 0.3    | 0.3       | 0.2    | 0.3       | 0.2    | 0.2        | 0.2    |
| 15-19     | 3.9       | 3.1    | 4.0       | 3.7    | 2.6       | 2.2    | 1.3       | 1.1    | 0.9       | 0.6    | 0.9       | 0.5    | 1.8       | 0.7    | 1.3       | 0.5    | 1.7       | 0.4    | 0.7        | 0.3    |
| 20-24     | 5.3       | 4.6    | 5.8       | 5.4    | 3.4       | 3.2    | 1.7       | 1.6    | 1.3       | 0.9    | 1.5       | 0.7    | 2.9       | 0.9    | 2.4       | 0.7    | 2.5       | 0.7    | 1.2        | 0.4    |
| 25-29     | 6.9       | 5.9    | 6.5       | 6.9    | 3.8       | 3.4    | 2.2       | 2.0    | 1.4       | 1.2    | 1.7       | 1.0    | 2.8       | 1.1    | 2.7       | 0.8    | 3.2       | 1.0    | 1.2        | 0.5    |
| 30-34     | 9.6       | 7.6    | 7.7       | 7.0    | 5.1       | 4.1    | 3.1       | 2.4    | 2.0       | 1.6    | 2.4       | 1.6    | 3.3       | 1.7    | 3.1       | 1.1    | 5.0       | 1.8    | 1.6        | 0.8    |
| 35-39     | 13.0      | 9.3    | 9.2       | 7.3    | 7.0       | 5.0    | 4.5       | 3.2    | 3.2       | 2.2    | 3.5       | 2.3    | 4.8       | 2.5    | 3.7       | 1.6    | 7.4       | 2.4    | 2.4        | 1.4    |
| 40-44     | 16.5      | 11.2   | 10.9      | 9.0    | 10.1      | 6.9    | 7.0       | 4.8    | 5.5       | 3.6    | 5.6       | 3.5    | 6.7       | 3.6    | 5.2       | 2.5    | 8.4       | 2.6    | 3.9        | 2.1    |
| 45-49     | 20.8      | 14.3   | 15.2      | 12.1   | 14.8      | 10.5   | 11.7      | 7.4    | 8.9       | 5.3    | 8.6       | 5.0    | 9.5       | 5.3    | 7.8       | 3.9    | 9.0       | 3.5    | 6.1        | 3.1    |
| 50-54     | 26.5      | 19.1   | 20.6      | 16.3   | 22.0      | 15.0   | 17.2      | 11.5   | 14.5      | 8.3    | 13.7      | 7.2    | 13.5      | 7.3    | 11.0      | 5.8    | 11.1      | 5.3    | 8.1        | 4.2    |
| 55-59     | 37.0      | 28.8   | 30.1      | 24.8   | 32.0      | 23.4   | 25.9      | 17.5   | 22.6      | 12.8   | 19.7      | 9.8    | 19.8      | 9.9    | 15.6      | 8.4    | 14.5      | 7.6    | 11.2       | 6.3    |
| 60-64     | 51.4      | 44.1   | 40.8      | 33.8   | 44.7      | 35.3   | 37.9      | 26.8   | 32.9      | 20.5   | 30.0      | 15.8   | 28.3      | 13.4   | 23.2      | 12.7   | 20.1      | 11.6   | 15.6       | 9.4    |
| 65-69     | 68.5      | 58.9   | 60.1      | 55.0   | 62.0      | 50.2   | 55.0      | 40.8   | 46.2      | 29.7   | 43.4      | 24.2   | 41.1      | 20.3   | 33.4      | 17.8   | 28.5      | 16.9   | 23.5       | 14.5   |
| 70-74     | 89.6      | 81.2   | 85.1      | 79.5   | 84.3      | 73.3   | 78.9      | 62.5   | 68.0      | 49.7   | 61.1      | 40.7   | 57.3      | 32.6   | 49.9      | 27.3   | 41.9      | 25.3   | 34.4       | 21.2   |
| 75-79     | 127.3     | 114.4  | 116.2     | 107.6  | 120.7     | 109.2  | 111.4     | 93.3   | 95.9      | 77.0   | 87.7      | 65.6   | 83.1      | 55.3   | 71.0      | 42.7   | 60.6      | 37.8   | 52.3       | 33.9   |
| 80-84     | 167.4     | 159.6  | 162.6     | 143.6  | 170.9     | 151.2  | 149.8     | 141.5  | 134.0     | 121.2  | 138.9     | 117.1  | 120.3     | 91.7   | 109.9     | 75.9   | 95.9      | 62.1   | 80.6       | 55.3   |
| 85 & Over | 257.4     | 232.3  | 224.8     | 210.2  | 242.8     | 227.5  | 230.5     | 222.2  | 202.8     | 183.8  | 206.6     | 198.3  | 167.0     | 155.6  | 185.2     | 154.2  | 169.6     | 142.9  | 150.9      | 130.2  |

Note: Rates for 1979-1981, 1989-1991, and 1999-2001 are based on deaths to New York City residents only, regardless of place of occurrence, while those for previous years included all events in New York City, regardless of the residence of the decedents. See Technical Notes: Life Expectancy, Age Specific and Adjusted Death Rates. \*World Trade Center deaths are not included. See Technical Notes: World Trade Center Deaths.

Table 25b.

Average Yearly Age-Sex-Race Adjusted Death Rates for Selected Causes per 100,000 Population  
New York City, 1901-2001

See Note

See Note

| Cause of Death                              | 1901-1903 | 1909-1911 | 1919-1920 | 1929-1931 | 1939-1941 | 1949-1951 | 1959-1961 | 1969-1971 | 1979-1981 | 1989-1991 | 1999-2001** |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|
| All causes                                  | 2,324.2   | 1,934.1   | 1,691.4   | 1,449.0   | 1,128.1   | 885.8     | 813.3     | 771.1     | 549.3     | 606.6     | 799.6       |
| Influenza and pneumonia                     | 302.8     | 260.8     | 301.7     | 178.6     | 60.3      | 30.7      | 36.4      | 29.0      | 15.2      | 22.2      | 33.2        |
| Malignant neoplasms                         | 116.8     | 124.8     | 134.3     | 156.0     | 176.9     | 170.6     | 162.9     | 161.2     | 126.0     | 128.0     | 178.4       |
| Colon, rectum and anus                      | *         | *         | *         | *         | *         | *         | *         | *         | *         | *         | 21.3        |
| Trachea, bronchus and lung                  | *         | *         | *         | *         | *         | *         | *         | *         | *         | *         | 40.8        |
| Breast                                      | *         | *         | *         | *         | *         | *         | *         | *         | *         | *         | 16.7        |
| Prostate                                    | *         | *         | *         | *         | *         | *         | *         | *         | *         | *         | 10.7        |
| Diabetes mellitus                           | 23.3      | 25.4      | 26.5      | 35.8      | 43.6      | 17.0      | 14.8      | 15.9      | 10.3      | 7.1       | 22.9        |
| Nephritis, nephrotic syndrome and nephrosis | 244.8     | 181.9     | 141.6     | 63.3      | 52.6      | 6.7       | 5.5       | 3.5       | 2.3       | 4.9       | 11.1        |
| Major cardiovascular diseases               | 258.6     | 383.2     | 427.7     | 506.7     | 421.1     | 404.8     | 355.8     | 306.6     | 239.1     | 228.7     | 372.9       |
| Chronic liver disease and cirrhosis         | *         | *         | *         | *         | *         | *         | *         | *         | 23.5      | 11.8      | 7.8         |
| Chronic lower respiratory diseases          | *         | *         | *         | *         | *         | *         | *         | *         | 9.3       | 13.1      | 23.0        |
| HIV disease                                 | *         | *         | *         | *         | *         | *         | *         | *         | *         | 56.6      | 23.6        |
| Total accidents                             | 108.2     | 87.8      | 73.8      | 81.3      | 55.9      | 38.4      | 28.1      | 22.7      | 18.2      | 21.6      | 20.6        |
| Motor vehicle accidents                     | *         | *         | 14.9      | 22.6      | 12.8      | 7.3       | 7.7       | 11.0      | 8.4       | 9.4       | 3.4         |
| Other accidents                             | *         | *         | 58.9      | 58.7      | 43.1      | 31.0      | 20.3      | 11.6      | 9.8       | 12.1      | 17.2        |
| Intentional self-harm (suicide)             | 26.8      | 21.2      | 14.1      | 21.3      | 14.3      | 9.7       | 9.2       | 6.4       | 9.4       | 9.0       | 5.4         |
| Assault (homicide)                          | 3.6       | 5.1       | 6.2       | 8.0       | 4.4       | 4.0       | 5.3       | 14.0      | 21.8      | 22.6      | 8.3         |

Note: Rates for 1979-1981, 1989-1991, and 1999-2001 are based on deaths to New York City residents only, regardless of place of occurrence, while those for previous years included all events in New York City, regardless of the residence of the decedents.

For 1901-1903 and 1909-1911 rates are adjusted for age and sex. For years before 1999, rates are adjusted for age, sex and race (white and others). Standard is United States population, 1940.

\* Data are not available or not applicable.

\*\* For 1999-2001 rates are adjusted only for age. A 2000 US standard population is used to calculate age-adjusted death rates. See Technical Notes: Life Expectancy, Age Specific and Adjusted Rates. World Trade Center Deaths are not included. See Technical Notes: World Trade Center Deaths.



Table 26.

**Live Births, Spontaneous and Induced Terminations of Pregnancy  
by Borough of Residence and Age of Woman  
New York City, 2005**

| Borough of Residence /<br>Pregnancy Outcome | Total   | Age of Woman |       |        |        |        |        |        |              | Unknown<br>or<br>Not Stated |
|---|---------|--------------|-------|--------|--------|--------|--------|--------|--------------|-----------------------------|
|   |         | Under<br>15  | 15-17 | 18-19  | 20-24  | 25-29  | 30-34  | 35-39  | 40 &<br>Over |                             |
| NEW YORK CITY . . . . .                     | 223,763 | 678          | 9,198 | 14,859 | 52,834 | 56,208 | 48,546 | 30,690 | 10,278       | 472                         |
| Live Births . . . . .                       | 122,725 | 137          | 2,764 | 5,678  | 25,053 | 32,097 | 31,725 | 19,613 | 5,656        | 2                           |
| Spontaneous Terminations . . . . .          | 12,147  | 17           | 273   | 504    | 1,876  | 2,628  | 2,785  | 2,483  | 1,466        | 115                         |
| Induced Terminations . . . . .              | 88,891  | 524          | 6,161 | 8,677  | 25,905 | 21,483 | 14,036 | 8,594  | 3,156        | 355                         |
| MANHATTAN . . . . .                         | 34,694  | 94           | 1,269 | 2,080  | 7,007  | 7,549  | 8,439  | 6,061  | 2,117        | 78                          |
| Live Births . . . . .                       | 20,017  | 18           | 391   | 761    | 2,877  | 4,112  | 6,037  | 4,398  | 1,423        | -                           |
| Spontaneous Terminations . . . . .          | 1,701   | 2            | 26    | 60     | 206    | 293    | 422    | 417    | 260          | 15                          |
| Induced Terminations . . . . .              | 12,976  | 74           | 852   | 1,259  | 3,924  | 3,144  | 1,980  | 1,246  | 434          | 63                          |
| BRONX . . . . .                             | 43,621  | 198          | 2,468 | 3,782  | 12,241 | 11,448 | 7,649  | 4,398  | 1,328        | 109                         |
| Live Births . . . . .                       | 20,766  | 45           | 845   | 1,560  | 5,505  | 5,755  | 4,162  | 2,279  | 615          | -                           |
| Spontaneous Terminations . . . . .          | 2,271   | 4            | 77    | 144    | 440    | 553    | 468    | 376    | 191          | 18                          |
| Induced Terminations . . . . .              | 20,584  | 149          | 1,546 | 2,078  | 6,296  | 5,140  | 3,019  | 1,743  | 522          | 91                          |
| BROOKLYN . . . . .                          | 71,675  | 226          | 2,916 | 4,710  | 18,604 | 18,975 | 14,509 | 8,599  | 3,000        | 136                         |
| Live Births . . . . .                       | 39,026  | 55           | 863   | 1,862  | 9,631  | 10,953 | 8,999  | 5,181  | 1,482        | -                           |
| Spontaneous Terminations . . . . .          | 4,096   | 7            | 113   | 176    | 737    | 933    | 844    | 770    | 477          | 39                          |
| Induced Terminations . . . . .              | 28,553  | 164          | 1,940 | 2,672  | 8,236  | 7,089  | 4,666  | 2,648  | 1,041        | 97                          |
| QUEENS . . . . .                            | 46,520  | 96           | 1,706 | 2,857  | 10,549 | 12,464 | 10,476 | 6,212  | 2,069        | 91                          |
| Live Births . . . . .                       | 27,050  | 18           | 536   | 1,158  | 5,417  | 7,920  | 7,045  | 3,895  | 1,061        | -                           |
| Spontaneous Terminations . . . . .          | 2,469   | 1            | 45    | 90     | 368    | 578    | 574    | 499    | 288          | 26                          |
| Induced Terminations . . . . .              | 17,001  | 77           | 1,125 | 1,609  | 4,764  | 3,966  | 2,857  | 1,818  | 720          | 65                          |
| STATEN ISLAND . . . . .                     | 8,909   | 17           | 340   | 551    | 1,729  | 2,143  | 2,313  | 1,392  | 409          | 15                          |
| Live Births . . . . .                       | 5,575   | -            | 100   | 215    | 900    | 1,462  | 1,710  | 958    | 230          | -                           |
| Spontaneous Terminations . . . . .          | 673     | 1            | 9     | 20     | 73     | 129    | 218    | 138    | 77           | 8                           |
| Induced Terminations . . . . .              | 2,661   | 16           | 231   | 316    | 756    | 552    | 385    | 296    | 102          | 7                           |
| NON-RESIDENTS . . . . .                     | 17,710  | 43           | 453   | 803    | 2,526  | 3,499  | 5,060  | 3,966  | 1,332        | 28                          |
| Live Births . . . . .                       | 10,283  | 1            | 29    | 122    | 722    | 1,893  | 3,771  | 2,900  | 845          | -                           |
| Spontaneous Terminations . . . . .          | 926     | 2            | 3     | 13     | 49     | 141    | 258    | 282    | 172          | 6                           |
| Induced Terminations . . . . .              | 6,501   | 40           | 421   | 668    | 1,755  | 1,465  | 1,031  | 784    | 315          | 22                          |
| RESIDENCE UNKNOWN . . . . .                 | 634     | 4            | 46    | 76     | 178    | 130    | 100    | 62     | 23           | 15                          |
| Live Births . . . . .                       | 8       | -            | -     | -      | 1      | 2      | 1      | 2      | -            | 2                           |
| Spontaneous Terminations . . . . .          | 11      | -            | -     | 1      | 3      | 1      | 1      | 1      | 1            | 3                           |
| Induced Terminations . . . . .              | 615     | 4            | 46    | 75     | 174    | 127    | 98     | 59     | 22           | 10                          |

Note: See Technical Notes: Induced and Spontaneous Terminations of Pregnancy.

Table 27.

**Spontaneous Terminations of Pregnancy by Gestation and Age of Woman  
New York City, 2005**

| Gestation<br>in Weeks | Total  | Age of Woman |       |       |       |       |       |       |              | Unknown or<br>Not Stated |
|-----------------------|--------|--------------|-------|-------|-------|-------|-------|-------|--------------|--------------------------|
|                       |        | Under<br>15  | 15-17 | 18-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40 &<br>Over |                          |
| Total . . . . .       | 12,147 | 17           | 273   | 504   | 1,876 | 2,628 | 2,785 | 2,483 | 1,466        | 115                      |
| Under 13 . . . . .    | 8,284  | 10           | 182   | 323   | 1,228 | 1,734 | 1,878 | 1,753 | 1,120        | 56                       |
| 13-15 . . . . .       | 1,194  | 1            | 24    | 57    | 212   | 265   | 281   | 229   | 115          | 10                       |
| 16-19 . . . . .       | 843    | 2            | 21    | 38    | 146   | 187   | 209   | 152   | 79           | 9                        |
| 20-27 . . . . .       | 742    | 2            | 23    | 46    | 106   | 176   | 187   | 133   | 65           | 4                        |
| 28 & Over . . . . .   | 422    | 1            | 8     | 18    | 77    | 105   | 88    | 88    | 33           | 4                        |
| Not Stated . . . . .  | 662    | 1            | 15    | 22    | 107   | 161   | 142   | 128   | 54           | 32                       |

Note: See Technical Notes: Induced and Spontaneous Terminations of Pregnancy.

**Table 28. Live Births, Spontaneous Terminations of 28 Weeks Gestation and Over and Induced Terminations of Pregnancy by Boroughs of Residence and Occurrence  
New York City, 2005**

| Borough of Residence /<br>Pregnancy Outcome | Total   | Borough of Occurrence |        |          |        |               |
|---|---------|-----------------------|--------|----------|--------|---------------|
|   |         | Manhattan             | Bronx  | Brooklyn | Queens | Staten Island |
| <b>NEW YORK CITY</b> .....                  | 212,038 | 79,836                | 29,253 | 53,652   | 42,821 | 6,476         |
| Live Births .....                           | 122,725 | 42,711                | 16,956 | 32,237   | 24,659 | 6,162         |
| Spontaneous Terminations .....              | 422     | 124                   | 78     | 132      | 75     | 13            |
| Induced Terminations .....                  | 88,891  | 37,001                | 12,219 | 21,283   | 18,087 | 301           |
| <b>MANHATTAN</b> .....                      | 33,051  | 30,523                | 1,243  | 773      | 489    | 23            |
| Live Births .....                           | 20,017  | 19,310                | 385    | 175      | 128    | 19            |
| Spontaneous Terminations .....              | 58      | 55                    | -      | 3        | -      | -             |
| Induced Terminations .....                  | 12,976  | 11,158                | 858    | 595      | 361    | 4             |
| <b>BRONX</b> .....                          | 41,443  | 14,116                | 26,024 | 529      | 767    | 7             |
| Live Births .....                           | 20,766  | 4,825                 | 15,618 | 145      | 171    | 7             |
| Spontaneous Terminations .....              | 93      | 16                    | 75     | -        | 2      | -             |
| Induced Terminations .....                  | 20,584  | 9,275                 | 10,331 | 384      | 594    | -             |
| <b>BROOKLYN</b> .....                       | 67,724  | 16,000                | 384    | 46,419   | 3,936  | 985           |
| Live Births .....                           | 39,026  | 7,392                 | 115    | 29,221   | 1,322  | 976           |
| Spontaneous Terminations .....              | 145     | 22                    | -      | 115      | 5      | 3             |
| Induced Terminations .....                  | 28,553  | 8,586                 | 269    | 17,083   | 2,609  | 6             |
| <b>QUEENS</b> .....                         | 44,135  | 8,298                 | 322    | 3,026    | 32,440 | 49            |
| Live Births .....                           | 27,050  | 4,984                 | 118    | 1,629    | 20,275 | 44            |
| Spontaneous Terminations .....              | 84      | 14                    | 1      | 9        | 59     | 1             |
| Induced Terminations .....                  | 17,001  | 3,300                 | 203    | 1,388    | 12,106 | 4             |
| <b>STATEN ISLAND</b> .....                  | 8,248   | 1,417                 | 52     | 1,685    | 114    | 4,980         |
| Live Births .....                           | 5,575   | 285                   | 12     | 563      | 23     | 4,692         |
| Spontaneous Terminations .....              | 12      | -                     | -      | 4        | -      | 8             |
| Induced Terminations .....                  | 2,661   | 1,132                 | 40     | 1,118    | 91     | 280           |
| <b>NON-RESIDENTS</b> .....                  | 16,814  | 9,361                 | 1,169  | 1,115    | 4,737  | 432           |
| Live Births .....                           | 10,283  | 5,912                 | 706    | 502      | 2,739  | 424           |
| Spontaneous Terminations .....              | 30      | 17                    | 2      | 1        | 9      | 1             |
| Induced Terminations .....                  | 6,501   | 3,432                 | 461    | 612      | 1,989  | 7             |
| <b>RESIDENCE UNKNOWN</b> .....              | 623     | 121                   | 59     | 105      | 338    | -             |
| Live Births .....                           | 8       | 3                     | 2      | 2        | 1      | -             |
| Spontaneous Terminations .....              | 0       | -                     | -      | -        | -      | -             |
| Induced Terminations .....                  | 615     | 118                   | 57     | 103      | 337    | -             |

Note: See Technical Notes: Induced and Spontaneous Terminations of Pregnancy.

**Table 28a. Teen Births and Pregnancy Rates\* by Ethnicity, Borough of Residence, New York City, 2005**

| Ethnicity/Borough of Residence | Women's Age | Live Births | Spontaneous Terminations | Induced Terminations | Population (Women) | Birth Rate per 1,000 Women | Pregnancy Rate per 1,000 Women |
|--------------------------------|-------------|-------------|--------------------------|----------------------|--------------------|----------------------------|--------------------------------|
|                                |             |             |                          |                      |                    |                            |                                |
|                                | 18-19       | 3,045       | 214                      | 2,890                | 34,813             | 87.5                       | 176.6                          |
|                                | Age 15-19   | 4,682       | 359                      | 5,000                | 84,147             | 55.6                       | 119.3                          |
| Asian and Pacific Islander     | 15-17       | 39          | 5                        | 143                  | 13,286             | 2.9                        | 14.1                           |
|                                | 18-19       | 159         | 16                       | 270                  | 9,768              | 16.3                       | 45.6                           |
|                                | Age 15-19   | 198         | 21                       | 413                  | 23,054             | 8.6                        | 27.4                           |
| Non-Hispanic White             | 15-17       | 141         | 15                       | 391                  | 35,053             | 4.0                        | 15.6                           |
|                                | 18-19       | 549         | 54                       | 691                  | 26,699             | 20.6                       | 48.5                           |
|                                | Age 15-19   | 690         | 69                       | 1,082                | 61,752             | 11.2                       | 29.8                           |
| Non-Hispanic Black             | 15-17       | 938         | 102                      | 2,871                | 46,468             | 20.2                       | 84.2                           |
|                                | 18-19       | 1,900       | 199                      | 3,983                | 29,528             | 64.3                       | 206.0                          |
|                                | Age 15-19   | 2,838       | 301                      | 6,854                | 75,996             | 37.3                       | 131.5                          |
| Manhattan                      | 15-17       | 391         | 26                       | 852                  | 19,383             | 20.2                       | 65.5                           |
|                                | 18-19       | 761         | 60                       | 1,259                | 18,785             | 40.5                       | 110.7                          |
|                                | Age 15-19   | 1,152       | 86                       | 2,111                | 38,168             | 30.2                       | 87.7                           |
| Bronx                          | 15-17       | 845         | 77                       | 1,546                | 29,404             | 28.7                       | 83.9                           |
|                                | 18-19       | 1,560       | 144                      | 2,078                | 20,276             | 76.9                       | 186.5                          |
|                                | Age 15-19   | 2,405       | 221                      | 3,624                | 49,680             | 48.4                       | 125.8                          |
| Brooklyn                       | 15-17       | 863         | 113                      | 1,940                | 52,727             | 16.4                       | 55.3                           |
|                                | 18-19       | 1,862       | 176                      | 2,672                | 34,193             | 54.5                       | 137.7                          |
|                                | Age 15-19   | 2,725       | 289                      | 4,612                | 86,920             | 31.4                       | 87.7                           |
| Queens                         | 15-17       | 536         | 45                       | 1,125                | 39,968             | 13.4                       | 42.7                           |
|                                | 18-19       | 1,158       | 90                       | 1,609                | 26,538             | 43.6                       | 107.7                          |
|                                | Age 15-19   | 1,694       | 135                      | 2,734                | 66,506             | 25.5                       | 68.6                           |
| Staten Island                  | 15-17       | 100         | 9                        | 231                  | 8,725              | 11.5                       | 39.0                           |
|                                | 18-19       | 215         | 20                       | 316                  | 5,357              | 40.1                       | 102.9                          |
|                                | Age 15-19   | 315         | 29                       | 547                  | 14,082             | 22.4                       | 63.3                           |
| Total**                        | 15-17       | 2,764       | 273                      | 6,161                | 150,207            | 18.4                       | 61.2                           |
|                                | 18-19       | 5,678       | 504                      | 8,677                | 105,149            | 54.0                       | 141.3                          |
|                                | Age 15-19   | 8,442       | 777                      | 14,838               | 255,356            | 33.1                       | 94.2                           |

\* Population data are from 2000 Census. See Technical Notes: Population. \*\* Total includes other/unknown ethnicities or non-NYC residents/residence unknowns.

**Table 29. Induced Terminations of Pregnancy by Selected Characteristics and Age of Woman  
New York City, 2005**

|   | Total  | Age of Woman |       |       |        |        |        |       |           |            |
|---|--------|--------------|-------|-------|--------|--------|--------|-------|-----------|------------|
|   |        | Under 15     | 15-17 | 18-19 | 20-24  | 25-29  | 30-34  | 35-39 | 40 & Over | Not Stated |
| Induced Termination of Pregnancy, All . . . . . | 88,891 | 524          | 6,161 | 8,677 | 25,905 | 21,483 | 14,036 | 8,594 | 3,156     | 355        |
| <b>Ethnic Group</b>                             |        |              |       |       |        |        |        |       |           |            |
| Hispanic . . . . .                              | 27,210 | 172          | 2,110 | 2,890 | 8,526  | 6,701  | 3,913  | 2,111 | 682       | 105        |
| Asian and Pacific Islander . . . . .            | 4,354  | 9            | 143   | 270   | 1,035  | 1,095  | 883    | 630   | 270       | 19         |
| White Non-Hispanic . . . . .                    | 9,804  | 27           | 391   | 691   | 2,641  | 2,402  | 1,726  | 1,334 | 544       | 48         |
| Black Non-Hispanic . . . . .                    | 40,227 | 247          | 2,871 | 3,983 | 11,612 | 9,635  | 6,475  | 3,831 | 1,417     | 156        |
| Other . . . . .                                 | 541    | 2            | 39    | 39    | 134    | 125    | 108    | 73    | 17        | 4          |
| Not Stated . . . . .                            | 6,755  | 67           | 607   | 804   | 1,957  | 1,525  | 931    | 615   | 226       | 23         |
| <b>Marital Status</b>                           |        |              |       |       |        |        |        |       |           |            |
| Married . . . . .                               | 12,722 | 5            | 72    | 215   | 1,884  | 3,235  | 3,368  | 2,677 | 1,203     | 63         |
| Not Married . . . . .                           | 73,793 | 503          | 5,961 | 8,245 | 23,360 | 17,717 | 10,277 | 5,653 | 1,867     | 210        |
| Not Stated . . . . .                            | 2,376  | 16           | 128   | 217   | 661    | 531    | 391    | 264   | 86        | 82         |
| <b>Gestation Age</b>                            |        |              |       |       |        |        |        |       |           |            |
| 6 Weeks or Less . . . . .                       | 28,772 | 95           | 1,357 | 2,238 | 8,105  | 7,736  | 4,940  | 3,025 | 1,151     | 125        |
| 7 - 8 Weeks . . . . .                           | 27,524 | 110          | 1,536 | 2,374 | 7,815  | 6,960  | 4,764  | 2,898 | 983       | 84         |
| 9 - 10 Weeks . . . . .                          | 13,520 | 89           | 1,156 | 1,458 | 3,979  | 3,100  | 2,064  | 1,182 | 440       | 52         |
| 11 - 12 Weeks . . . . .                         | 6,634  | 54           | 669   | 822   | 2,102  | 1,385  | 834    | 530   | 210       | 28         |
| 13 - 15 Weeks . . . . .                         | 4,727  | 56           | 536   | 708   | 1,499  | 875    | 563    | 335   | 133       | 22         |
| 16 - 20 Weeks . . . . .                         | 4,695  | 70           | 551   | 672   | 1,518  | 850    | 513    | 348   | 150       | 23         |
| 21 or More Weeks . . . . .                      | 2,221  | 45           | 309   | 330   | 669    | 392    | 230    | 186   | 52        | 8          |
| Not Stated . . . . .                            | 798    | 5            | 47    | 75    | 218    | 185    | 128    | 90    | 37        | 13         |
| <b>Type of Termination Procedures</b>           |        |              |       |       |        |        |        |       |           |            |
| Suction Curettage . . . . .                     | 69,308 | 335          | 4,471 | 6,376 | 19,781 | 17,219 | 11,399 | 6,941 | 2,523     | 263        |
| Sharp Curettage / D+C . . . . .                 | 1,352  | 7            | 75    | 102   | 350    | 330    | 232    | 164   | 82        | 10         |
| Dilatation and Evacuation . . . . .             | 10,741 | 159          | 1,285 | 1,583 | 3,411  | 1,936  | 1,227  | 789   | 307       | 44         |
| Intrauterine Instillation . . . . .             | 24     | -            | 3     | 1     | 6      | 4      | 6      | 4     | -         | -          |
| Hysterotomy / Hysterectomy . . . . .            | 5      | -            | -     | -     | -      | -      | -      | 4     | 1         | -          |
| Medical (Non-Surgical) . . . . .                | 6,971  | 21           | 304   | 578   | 2,227  | 1,860  | 1,084  | 641   | 219       | 37         |
| Other . . . . .                                 | 72     | 1            | 3     | -     | 11     | 19     | 18     | 13    | 7         | -          |
| Not Stated . . . . .                            | 418    | 1            | 20    | 37    | 119    | 115    | 70     | 38    | 17        | 1          |

Note: See Technical Notes: Induced and Spontaneous Terminations of Pregnancy.

**Table 29a. Induced Terminations of Pregnancy by Woman's Marital Status, Age, and Ethnic Group  
New York City, 1996 - 2005**

|                                      | 1996    | 1997    | 1998    | 1999    | 2000   | 2001   | 2002   | 2003   | 2004   | 2005   |
|--------------------------------------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| <b>Marital Status (percent)</b>      |         |         |         |         |        |        |        |        |        |        |
| Married . . . . .                    | 19.9    | 19.1    | 19.3    | 17.9    | 16.4   | 15.8   | 15.8   | 15.9   | 14.7   | 14.3   |
| Not Married . . . . .                | 74.4    | 78.2    | 78.3    | 79.3    | 81.0   | 81.6   | 82.2   | 82.1   | 82.1   | 83.0   |
| Unknown . . . . .                    | 5.7     | 2.7     | 2.4     | 2.9     | 2.6    | 2.6    | 2.0    | 2.0    | 3.2    | 2.7    |
| <b>Age of Woman</b>                  |         |         |         |         |        |        |        |        |        |        |
| < 15 . . . . .                       | 786     | 696     | 704     | 672     | 601    | 564    | 506    | 518    | 550    | 524    |
| 15 - 19 . . . . .                    | 18,571  | 17,056  | 16,922  | 16,525  | 15,497 | 14,999 | 14,706 | 14,487 | 14,917 | 14,838 |
| 20 - 24 . . . . .                    | 31,155  | 28,804  | 29,736  | 29,857  | 27,799 | 27,100 | 27,076 | 26,815 | 27,159 | 25,905 |
| 25 - 29 . . . . .                    | 27,452  | 24,868  | 25,504  | 24,758  | 22,502 | 21,549 | 21,790 | 21,748 | 22,038 | 21,483 |
| 30 - 34 . . . . .                    | 18,375  | 17,078  | 17,662  | 17,337  | 15,735 | 15,376 | 15,285 | 14,833 | 14,692 | 14,036 |
| 35 - 39 . . . . .                    | 9,829   | 9,312   | 9,938   | 9,875   | 9,193  | 8,981  | 8,989  | 8,930  | 8,893  | 8,594  |
| 40 + . . . . .                       | 2,871   | 2,796   | 3,156   | 3,138   | 2,953  | 2,922  | 3,126  | 3,166  | 3,148  | 3,156  |
| Unknown . . . . .                    | 334     | 316     | 360     | 172     | 186    | 301    | 322    | 323    | 276    | 355    |
| <b>Ethnic Group</b>                  |         |         |         |         |        |        |        |        |        |        |
| Hispanic . . . . .                   | 29,253  | 28,965  | 31,895  | 32,826  | 31,118 | 29,684 | 30,098 | 29,953 | 27,946 | 27,210 |
| Asian and Pacific Islander . . . . . | 4,112   | 4,317   | 5,198   | 4,969   | 4,873  | 4,977  | 5,097  | 5,341  | 4,811  | 4,354  |
| Non-Hispanic, White . . . . .        | 14,598  | 12,037  | 12,365  | 11,833  | 10,438 | 10,220 | 9,903  | 9,779  | 9,426  | 9,804  |
| Non-Hispanic, Black . . . . .        | 52,026  | 47,072  | 48,799  | 48,245  | 45,150 | 44,213 | 43,912 | 41,961 | 39,847 | 40,227 |
| Other . . . . .                      | 523     | 469     | 713     | 749     | 532    | 603    | 526    | 597    | 646    | 541    |
| Unknown . . . . .                    | 8,861   | 8,066   | 5,012   | 3,712   | 2,355  | 2,095  | 2,264  | 3,189  | 8,997  | 6,755  |
| Total . . . . .                      | 109,373 | 100,926 | 103,982 | 102,334 | 94,466 | 91,792 | 91,800 | 90,820 | 91,673 | 88,891 |

Note: See Technical Notes: Induced and Spontaneous Terminations of Pregnancy.

**Table 30.**

**Live Births by Ancestry of Mother and Borough of Residence  
New York City, 2005**

| Ancestry of Mother                      | Total   | Borough of Residence |        |          |        |               |               |                   |
|---|---------|----------------------|--------|----------|--------|---------------|---------------|-------------------|
|   |         | Manhattan            | Bronx  | Brooklyn | Queens | Staten Island | Non-Residents | Residence Unknown |
| Total                                   | 122,725 | 20,017               | 20,766 | 39,026   | 27,050 | 5,575         | 10,283        | 8                 |
| Puerto Rican                            | 9,922   | 1,337                | 4,359  | 2,165    | 1,212  | 445           | 404           | –                 |
| Dominican                               | 9,907   | 2,826                | 4,052  | 1,301    | 1,351  | 63            | 313           | 1                 |
| Colombian                               | 1,312   | 98                   | 72     | 114      | 892    | 38            | 98            | –                 |
| Ecuadorian                              | 3,380   | 279                  | 436    | 628      | 1,908  | 51            | 78            | –                 |
| Mexican                                 | 7,986   | 1,015                | 1,754  | 2,335    | 2,284  | 537           | 61            | –                 |
| Cuban                                   | 265     | 62                   | 49     | 46       | 56     | 9             | 43            | –                 |
| Other Hispanic                          | 6,769   | 554                  | 1,132  | 2,163    | 2,416  | 143           | 361           | –                 |
| African-American                        | 16,448  | 2,013                | 4,005  | 6,604    | 2,613  | 567           | 644           | 2                 |
| American                                | 5,199   | 1,450                | 153    | 1,823    | 427    | 272           | 1,074         | –                 |
| Guyanese                                | 2,078   | 27                   | 212    | 715      | 1,045  | 7             | 72            | –                 |
| Haitian                                 | 1,679   | 72                   | 58     | 1,029    | 388    | 12            | 120           | –                 |
| Jamaican                                | 2,714   | 78                   | 745    | 1,078    | 648    | 22            | 143           | –                 |
| Trinidadian                             | 1,516   | 39                   | 85     | 809      | 519    | 20            | 44            | –                 |
| Other North, Central and South American | 2,759   | 235                  | 289    | 1,694    | 349    | 43            | 149           | –                 |
| English                                 | 825     | 425                  | 17     | 161      | 41     | 21            | 160           | –                 |
| German                                  | 1,809   | 664                  | 51     | 306      | 235    | 121           | 432           | –                 |
| Irish                                   | 3,148   | 815                  | 113    | 449      | 532    | 356           | 883           | –                 |
| Italian                                 | 4,905   | 695                  | 206    | 812      | 643    | 1,475         | 1,074         | –                 |
| Polish                                  | 1,452   | 248                  | 28     | 420      | 407    | 92            | 257           | –                 |
| Russian                                 | 2,153   | 498                  | 43     | 759      | 362    | 145           | 345           | 1                 |
| Other European                          | 5,516   | 1,398                | 374    | 1,571    | 1,061  | 341           | 771           | –                 |
| Asian Indian                            | 1,984   | 260                  | 82     | 185      | 1,070  | 64            | 323           | –                 |
| Bangladeshi                             | 1,541   | 47                   | 211    | 371      | 882    | 6             | 24            | –                 |
| Chinese                                 | 7,426   | 1,845                | 111    | 2,798    | 2,150  | 116           | 406           | –                 |
| Filipino                                | 883     | 125                  | 52     | 101      | 395    | 63            | 147           | –                 |
| Korean                                  | 1,036   | 241                  | 21     | 91       | 517    | 20            | 146           | –                 |
| Pakistani                               | 1,171   | 47                   | 81     | 501      | 426    | 35            | 81            | –                 |
| Other Asian                             | 4,002   | 772                  | 254    | 1,359    | 1,059  | 204           | 353           | 1                 |
| Jewish or Hebrew                        | 7,632   | 702                  | 74     | 5,360    | 479    | 137           | 880           | –                 |
| Other and Not Stated                    | 5,308   | 1,150                | 1,647  | 1,278    | 683    | 150           | 397           | 3                 |

Note: See Technical Notes: Race, Ancestry, Ethnicity Group, and Birthplace.

**Table 31.**

**Live Births by Mother's Ethnic Group and Age  
New York City, 2005**

| Ethnic Group               | Total   | Age of Mother |       |       |        |        |        |        |           |            |
|----------------------------|---------|---------------|-------|-------|--------|--------|--------|--------|-----------|------------|
|                            |         | Under 15      | 15-17 | 18-19 | 20-24  | 25-29  | 30-34  | 35-39  | 40 & Over | Not Stated |
| Total                      | 122,725 | 137           | 2,764 | 5,678 | 25,053 | 32,097 | 31,725 | 19,613 | 5,656     | 2          |
| Puerto Rican               | 9,922   | 19            | 562   | 999   | 2,850  | 2,603  | 1,704  | 955    | 230       | –          |
| Other Hispanic             | 29,619  | 54            | 1,075 | 2,046 | 7,868  | 8,198  | 6,140  | 3,376  | 862       | –          |
| Asian and Pacific Islander | 16,407  | –             | 39    | 159   | 2,467  | 5,215  | 5,194  | 2,683  | 650       | –          |
| Non-Hispanic White         | 37,340  | 4             | 141   | 549   | 5,068  | 8,469  | 12,178 | 8,357  | 2,574     | –          |
| Non-Hispanic Black         | 28,935  | 60            | 938   | 1,900 | 6,715  | 7,467  | 6,384  | 4,165  | 1,306     | –          |
| Other                      | 318     | –             | 6     | 12    | 55     | 102    | 82     | 39     | 22        | –          |
| Not Stated                 | 184     | –             | 3     | 13    | 30     | 43     | 43     | 38     | 12        | 2          |

Note: See Technical Notes: Race, Ancestry, Ethnicity Group, and Birthplace.

Table 32.

**Selected Characteristics of Live Births and Spontaneous Terminations of Pregnancy  
28 Weeks Gestation and Over by Age of Mother, New York City, 2005**

|  | Total   | Age of Mother |       |       |        |        |        |        |           |            |
|--|---------|---------------|-------|-------|--------|--------|--------|--------|-----------|------------|
|  |         | Under 15      | 15-17 | 18-19 | 20-24  | 25-29  | 30-34  | 35-39  | 40 & Over | Not Stated |
| Total Live Births .....                                | 122,725 | 137           | 2,764 | 5,678 | 25,053 | 32,097 | 31,725 | 19,613 | 5,656     | 2          |
| Sex  |         |               |       |       |        |        |        |        |           |            |
| Male .....   | 63,011  | 62            | 1,417 | 2,901 | 12,814 | 16,424 | 16,381 | 10,126 | 2,886     | -          |
| Female .....   | 59,714  | 75            | 1,347 | 2,777 | 12,239 | 15,673 | 15,344 | 9,487  | 2,770     | 2          |
| Birth Order This Child (Live Births Only)              |         |               |       |       |        |        |        |        |           |            |
| First .....  | 55,041  | 135           | 2,510 | 4,628 | 14,233 | 13,319 | 12,090 | 6,362  | 1,762     | 2          |
| Second .....   | 37,328  | 2             | 233   | 912   | 7,724  | 10,362 | 10,179 | 6,275  | 1,641     | -          |
| Third .....  | 17,276  | -             | 20    | 121   | 2,362  | 5,070  | 5,061  | 3,685  | 957       | -          |
| Fourth .....   | 6,927   | -             | 1     | 13    | 555    | 2,110  | 2,179  | 1,530  | 539       | -          |
| Fifth .....  | 2,922   | -             | -     | 4     | 131    | 829    | 1,037  | 666    | 255       | -          |
| Sixth or higher .....                                  | 3,231   | -             | -     | -     | 48     | 407    | 1,179  | 1,095  | 502       | -          |
| Weight at Delivery in Grams                            |         |               |       |       |        |        |        |        |           |            |
| Under 500 .....  | 124     | 1             | 1     | 4     | 27     | 33     | 27     | 25     | 6         | -          |
| 500-999 .....  | 812     | 2             | 22    | 38    | 148    | 170    | 200    | 160    | 72        | -          |
| 1000-1499 .....  | 1,063   | 2             | 33    | 62    | 191    | 212    | 266    | 222    | 75        | -          |
| 1500-1999 .....  | 2,155   | 5             | 55    | 103   | 389    | 487    | 550    | 387    | 179       | -          |
| 2000-2499 .....  | 6,831   | 9             | 187   | 344   | 1,430  | 1,668  | 1,634  | 1,127  | 432       | -          |
| 2500-2999 .....  | 24,127  | 35            | 749   | 1,407 | 5,396  | 6,109  | 5,794  | 3,580  | 1,057     | -          |
| 3000-3499 .....  | 48,734  | 56            | 1,122 | 2,380 | 10,379 | 13,081 | 12,411 | 7,329  | 1,976     | -          |
| 3500-3999 .....  | 30,419  | 20            | 491   | 1,124 | 5,774  | 8,078  | 8,397  | 5,139  | 1,396     | -          |
| 4000-4499 .....  | 7,296   | 7             | 92    | 196   | 1,150  | 1,960  | 2,104  | 1,394  | 393       | -          |
| 4500-4999 .....  | 1,051   | -             | 10    | 18    | 154    | 264    | 309    | 230    | 66        | -          |
| 5000 & over .....                                      | 106     | -             | 2     | 2     | 14     | 33     | 31     | 20     | 4         | -          |
| Not stated .....                                       | 7       | -             | -     | -     | 1      | 2      | 2      | -      | -         | 2          |
| Plurality  |         |               |       |       |        |        |        |        |           |            |
| Single .....   | 118,104 | 135           | 2,716 | 5,565 | 24,486 | 31,121 | 30,327 | 18,588 | 5,164     | 2          |
| Twin .....   | 4,406   | 2             | 48    | 110   | 561    | 925    | 1,315  | 989    | 456       | -          |
| Triplet .....  | 215     | -             | -     | 3     | 6      | 51     | 83     | 36     | 36        | -          |
| Quadruplet .....                                       | 0       | -             | -     | -     | -      | -      | -      | -      | -         | -          |
| Quintuplet .....                                       | 0       | -             | -     | -     | -      | -      | -      | -      | -         | -          |
| Apgar Score at 5 Minutes *                             |         |               |       |       |        |        |        |        |           |            |
| 6 or less .....  | 898     | 5             | 24    | 52    | 184    | 206    | 208    | 170    | 49        | -          |
| 7 .....  | 944     | 3             | 32    | 56    | 183    | 232    | 212    | 167    | 59        | -          |
| 8 .....  | 4,254   | 3             | 115   | 242   | 822    | 1,004  | 1,095  | 724    | 249       | -          |
| 9 .....  | 111,068 | 119           | 2,445 | 5,074 | 22,762 | 29,250 | 28,748 | 17,615 | 5,055     | -          |
| 10 .....   | 5,423   | 7             | 143   | 246   | 1,074  | 1,368  | 1,432  | 913    | 240       | -          |
| Not stated .....                                       | 138     | -             | 5     | 8     | 28     | 37     | 30     | 24     | 4         | 2          |
| Place of Birth   |         |               |       |       |        |        |        |        |           |            |
| Home .....   | 445     | -             | 15    | 14    | 61     | 113    | 124    | 86     | 32        | -          |
| Voluntary Hospital, Private Service .....              | 62,903  | 18            | 489   | 1,248 | 8,217  | 15,292 | 20,274 | 13,419 | 3,946     | -          |
| Voluntary Hospital, General Service .....              | 37,357  | 68            | 1,426 | 2,823 | 10,550 | 10,750 | 7,039  | 3,728  | 973       | -          |
| Municipal Hospital .....                               | 21,747  | 51            | 830   | 1,577 | 6,147  | 5,853  | 4,241  | 2,349  | 699       | -          |
| Birthing Center .....                                  | 179     | -             | 3     | 11    | 56     | 59     | 32     | 14     | 4         | -          |
| Other .....  | 94      | -             | 1     | 5     | 22     | 30     | 15     | 17     | 2         | 2          |
| Attendant  |         |               |       |       |        |        |        |        |           |            |
| Physician .....  | 111,242 | 119           | 2,346 | 4,814 | 21,857 | 28,866 | 29,408 | 18,487 | 5,345     | -          |
| Certified Nurse Midwife .....                          | 10,964  | 18            | 404   | 834   | 3,038  | 3,071  | 2,227  | 1,075  | 297       | -          |
| Other .....  | 519     | -             | 14    | 30    | 158    | 160    | 90     | 51     | 14        | 2          |
| Financial Coverage                                     |         |               |       |       |        |        |        |        |           |            |
| Medicaid .....   | 63,370  | 107           | 2,188 | 4,572 | 18,464 | 17,903 | 12,019 | 6,376  | 1,741     | -          |
| HMO .....  | 22,765  | 20            | 348   | 648   | 3,322  | 5,607  | 6,984  | 4,514  | 1,322     | -          |
| Third Party .....                                      | 34,052  | 6             | 152   | 325   | 2,710  | 7,928  | 12,105 | 8,339  | 2,487     | -          |
| Self .....   | 2,404   | 4             | 73    | 124   | 529    | 625    | 586    | 361    | 102       | -          |
| Not stated .....                                       | 134     | -             | 3     | 9     | 28     | 34     | 31     | 23     | 4         | 2          |
| First Visit for Prenatal Care                          |         |               |       |       |        |        |        |        |           |            |
| First Trimester (1-3 months) .....                     | 88,595  | 59            | 1,445 | 3,372 | 16,581 | 23,055 | 24,363 | 15,378 | 4,342     | -          |
| Second Trimester (4-6 months) .....                    | 24,177  | 45            | 898   | 1,569 | 6,074  | 6,515  | 5,240  | 2,931  | 905       | -          |
| Late (7-9 months) .....                                | 6,370   | 21            | 315   | 525   | 1,636  | 1,644  | 1,297  | 718    | 214       | -          |
| No Care .....  | 586     | 4             | 38    | 49    | 152    | 129    | 99     | 83     | 32        | -          |
| Not stated .....                                       | 2,997   | 8             | 68    | 163   | 610    | 754    | 726    | 503    | 163       | 2          |
| Marital Status of Mother                               |         |               |       |       |        |        |        |        |           |            |
| Not Married .....                                      | 53,489  | 136           | 2,616 | 4,856 | 15,926 | 14,167 | 8,947  | 5,227  | 1,612     | 2          |
| Married .....  | 69,236  | 1             | 148   | 822   | 9,127  | 17,930 | 22,778 | 14,386 | 4,044     | -          |
| Years of Education                                     |         |               |       |       |        |        |        |        |           |            |
| None .....   | 386     | 1             | 5     | 13    | 90     | 104    | 90     | 52     | 31        | -          |
| 1-11 .....   | 26,110  | 134           | 2,375 | 2,667 | 7,456  | 6,409  | 4,181  | 2,209  | 679       | -          |
| 12 .....   | 37,528  | -             | 371   | 2,407 | 10,337 | 10,484 | 7,878  | 4,719  | 1,332     | -          |
| 13 & over .....  | 58,261  | -             | 3     | 568   | 7,073  | 14,972 | 19,473 | 12,577 | 3,595     | -          |
| Not stated .....                                       | 440     | 2             | 10    | 23    | 97     | 128    | 103    | 56     | 19        | 2          |
| Birthplace of Mother                                   |         |               |       |       |        |        |        |        |           |            |
| United States other than Puerto Rico .....             | 56,395  | 100           | 1,784 | 3,347 | 12,183 | 12,966 | 14,019 | 9,333  | 2,663     | -          |
| Puerto Rico .....                                      | 1,745   | 3             | 80    | 129   | 406    | 486    | 375    | 199    | 67        | -          |
| Foreign .....  | 64,147  | 33            | 887   | 2,175 | 12,373 | 18,531 | 17,222 | 10,025 | 2,901     | -          |
| Not stated .....                                       | 438     | 1             | 13    | 27    | 91     | 114    | 109    | 56     | 25        | 2          |
| Spontaneous Terminations of Pregnancy, 28 weeks & Over |         |               |       |       |        |        |        |        |           |            |
| Total .....  | 422     | 1             | 8     | 18    | 77     | 105    | 88     | 88     | 33        | 4          |
| Sex  |         |               |       |       |        |        |        |        |           |            |
| Male .....   | 196     | 1             | 2     | 10    | 30     | 47     | 39     | 47     | 17        | 3          |
| Female .....   | 178     | -             | 6     | 5     | 35     | 47     | 39     | 32     | 13        | 1          |
| Undetermined .....                                     | 48      | -             | -     | 3     | 12     | 11     | 10     | 9      | 3         | -          |
| Weight at Delivery in Grams                            |         |               |       |       |        |        |        |        |           |            |
| Under 500 .....  | 32      | -             | -     | 2     | 3      | 5      | 7      | 12     | 3         | -          |
| 500-999 .....  | 40      | -             | 1     | 3     | 10     | 5      | 9      | 10     | 2         | -          |
| 1000-1499 .....  | 56      | -             | 1     | 2     | 9      | 13     | 12     | 12     | 5         | 2          |
| 1500-1999 .....  | 53      | -             | -     | 2     | 10     | 16     | 11     | 9      | 5         | -          |
| 2000-2499 .....  | 50      | -             | -     | 3     | 15     | 12     | 5      | 10     | 5         | -          |
| 2500 & over .....                                      | 116     | -             | 6     | 3     | 17     | 38     | 23     | 20     | 8         | 1          |
| Not stated .....                                       | 75      | 1             | -     | 3     | 13     | 16     | 21     | 15     | 5         | 1          |

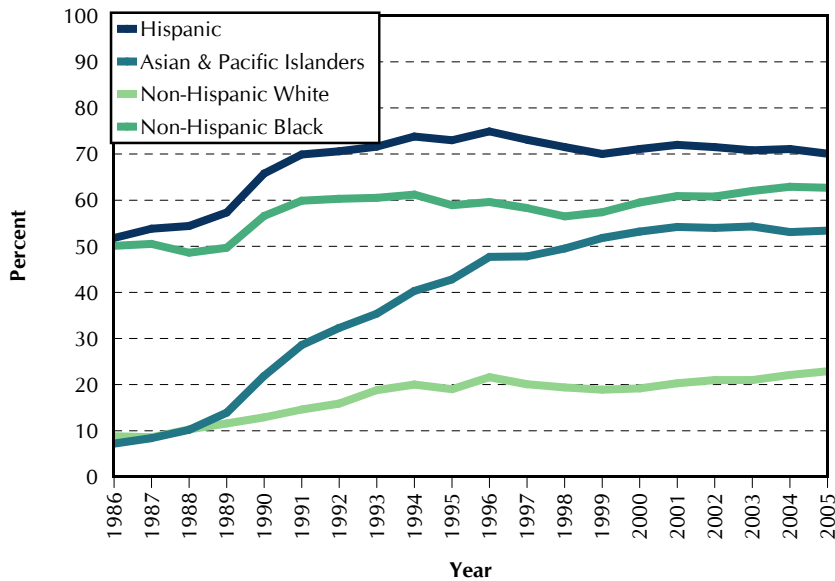
Note: See Technical Notes: Induced and Spontaneous Terminations of Pregnancy.

Table 33.

**Selected Characteristics of Live Births and Spontaneous Terminations of Pregnancy  
28 Weeks Gestation and Over by Mother's Ethnic Group, New York City, 2005**

|  | Total   | Ethnic Group of Mother |                |        |             |             |     | Other | Not Stated |
|--|---------|------------------------|----------------|--------|-------------|-------------|-----|-------|------------|
|  |         | Puerto Rican           | Other Hispanic | Asian  | Other White | Other Black |     |       |            |
| Total Live Births . . . . .                            | 122,725 | 9,922                  | 29,619         | 16,407 | 37,340      | 28,935      | 318 | 184   |            |
| Sex  |         |                        |                |        |             |             |     |       |            |
| Male . . . . .   | 63,011  | 5,046                  | 15,086         | 8,469  | 19,242      | 14,908      | 158 | 102   |            |
| Female . . . . .                                       | 59,714  | 4,876                  | 14,533         | 7,938  | 18,098      | 14,027      | 160 | 82    |            |
| Birth Order This Child (Live Births Only)              |         |                        |                |        |             |             |     |       |            |
| First . . . . .  | 55,041  | 4,220                  | 12,107         | 8,437  | 17,706      | 12,332      | 136 | 103   |            |
| Second . . . . .                                       | 37,328  | 2,921                  | 9,549          | 5,697  | 10,713      | 8,285       | 115 | 48    |            |
| Third . . . . .  | 17,276  | 1,506                  | 5,168          | 1,645  | 4,358       | 4,535       | 45  | 19    |            |
| Fourth . . . . .                                       | 6,927   | 689                    | 1,818          | 432    | 1,917       | 2,050       | 13  | 8     |            |
| Fifth . . . . .  | 2,922   | 306                    | 599            | 124    | 991         | 894         | 4   | 4     |            |
| Sixth or Higher . . . . .                              | 3,231   | 280                    | 378            | 72     | 1,655       | 839         | 5   | 2     |            |
| Weight at Delivery in Grams                            |         |                        |                |        |             |             |     |       |            |
| Under 500 . . . . .                                    | 124     | 13                     | 21             | 13     | 23          | 51          | 1   | 2     |            |
| 500-999 . . . . .                                      | 812     | 73                     | 140            | 52     | 137         | 403         | 5   | 2     |            |
| 1000-1499 . . . . .                                    | 1,063   | 110                    | 199            | 101    | 219         | 427         | 2   | 5     |            |
| 1500-1999 . . . . .                                    | 2,155   | 220                    | 373            | 243    | 560         | 742         | 9   | 8     |            |
| 2000-2499 . . . . .                                    | 6,831   | 682                    | 1,315          | 879    | 1,758       | 2,143       | 43  | 11    |            |
| 2500-2999 . . . . .                                    | 24,127  | 2,100                  | 5,417          | 3,737  | 6,173       | 6,586       | 85  | 29    |            |
| 3000-3499 . . . . .                                    | 48,734  | 3,738                  | 12,198         | 7,132  | 14,684      | 10,797      | 119 | 66    |            |
| 3500-3999 . . . . .                                    | 30,419  | 2,327                  | 7,794          | 3,555  | 10,588      | 6,062       | 45  | 48    |            |
| 4000-4499 . . . . .                                    | 7,296   | 559                    | 1,889          | 611    | 2,715       | 1,504       | 7   | 11    |            |
| 4500-4999 . . . . .                                    | 1,051   | 77                     | 248            | 78     | 456         | 190         | 2   | -     |            |
| 5000 & over . . . . .                                  | 106     | 23                     | 25             | 6      | 25          | 27          | -   | -     |            |
| Not stated . . . . .                                   | 7       | -                      | -              | -      | 2           | 3           | -   | 2     |            |
| Plurality  |         |                        |                |        |             |             |     |       |            |
| Single . . . . .                                       | 118,104 | 9,593                  | 28,942         | 15,953 | 35,273      | 27,865      | 305 | 173   |            |
| Twin . . . . .   | 4,406   | 314                    | 656            | 425    | 1,959       | 1,028       | 13  | 11    |            |
| Triplet . . . . .                                      | 215     | 15                     | 21             | 29     | 108         | 42          | -   | -     |            |
| Quadruplet . . . . .                                   | 0       | -                      | -              | -      | -           | -           | -   | -     |            |
| Quintuplet . . . . .                                   | 0       | -                      | -              | -      | -           | -           | -   | -     |            |
| Apgar Score at 5 Minutes *                             |         |                        |                |        |             |             |     |       |            |
| 6 or less . . . . .                                    | 898     | 96                     | 168            | 43     | 183         | 398         | 6   | 4     |            |
| 7 . . . . .  | 944     | 88                     | 198            | 83     | 199         | 369         | 3   | 4     |            |
| 8 . . . . .  | 4,254   | 397                    | 918            | 413    | 1,095       | 1,414       | 10  | 7     |            |
| 9 . . . . .  | 111,068 | 8,776                  | 26,845         | 15,224 | 34,230      | 25,557      | 281 | 155   |            |
| 10 . . . . .   | 5,423   | 549                    | 1,460          | 637    | 1,617       | 1,134       | 17  | 9     |            |
| Not stated . . . . .                                   | 138     | 16                     | 30             | 7      | 16          | 63          | 1   | 5     |            |
| Place of Birth   |         |                        |                |        |             |             |     |       |            |
| Home . . . . .   | 445     | 22                     | 78             | 13     | 168         | 153         | 3   | 8     |            |
| Voluntary Hospital, Private Service . . . . .          | 62,903  | 4,104                  | 6,461          | 8,257  | 32,685      | 11,173      | 127 | 96    |            |
| Voluntary Hospital, General Service . . . . .          | 37,357  | 3,722                  | 13,901         | 5,525  | 3,353       | 10,645      | 162 | 49    |            |
| Municipal Hospital . . . . .                           | 21,747  | 2,028                  | 9,117          | 2,601  | 1,077       | 6,871       | 26  | 27    |            |
| Birthing Center . . . . .                              | 179     | 34                     | 50             | 3      | 38          | 53          | -   | 1     |            |
| Other . . . . .  | 94      | 12                     | 12             | 8      | 19          | 40          | -   | 3     |            |
| Attendant  |         |                        |                |        |             |             |     |       |            |
| Physician . . . . .                                    | 111,242 | 8,849                  | 25,980         | 15,456 | 34,557      | 25,982      | 264 | 154   |            |
| Certified Nurse Midwife . . . . .                      | 10,964  | 1,026                  | 3,523          | 917    | 2,621       | 2,802       | 50  | 25    |            |
| Other . . . . .  | 519     | 47                     | 116            | 34     | 162         | 151         | 4   | 5     |            |
| Financial Coverage                                     |         |                        |                |        |             |             |     |       |            |
| Medicaid . . . . .                                     | 63,370  | 6,078                  | 21,651         | 8,768  | 8,535       | 18,141      | 119 | 78    |            |
| HMO . . . . .  | 22,765  | 1,649                  | 3,874          | 2,952  | 9,552       | 4,588       | 104 | 46    |            |
| Third Party . . . . .                                  | 34,052  | 2,020                  | 3,606          | 4,300  | 18,341      | 5,645       | 92  | 48    |            |
| Self . . . . .   | 2,404   | 161                    | 467            | 356    | 888         | 525         | 2   | 5     |            |
| Not stated . . . . .                                   | 134     | 14                     | 21             | 31     | 24          | 36          | 1   | 7     |            |
| First Visit for Prenatal Care                          |         |                        |                |        |             |             |     |       |            |
| First Trimester (1-3 months) . . . . .                 | 88,595  | 7,314                  | 19,987         | 11,303 | 30,597      | 19,058      | 203 | 133   |            |
| Second Trimester (4-6 months) . . . . .                | 24,177  | 1,870                  | 6,783          | 3,706  | 5,036       | 6,667       | 88  | 27    |            |
| Late (7-9 months) . . . . .                            | 6,370   | 437                    | 2,069          | 840    | 890         | 2,113       | 14  | 7     |            |
| No Care . . . . .                                      | 586     | 67                     | 130            | 41     | 54          | 287         | 2   | 5     |            |
| Not stated . . . . .                                   | 2,997   | 234                    | 650            | 517    | 763         | 810         | 11  | 12    |            |
| Marital Status of Mother                               |         |                        |                |        |             |             |     |       |            |
| Not Married . . . . .                                  | 53,489  | 7,271                  | 19,061         | 3,385  | 4,002       | 19,550      | 128 | 92    |            |
| Married . . . . .                                      | 69,236  | 2,651                  | 10,558         | 13,022 | 33,338      | 9,385       | 190 | 92    |            |
| Years of Education                                     |         |                        |                |        |             |             |     |       |            |
| None . . . . .   | 386     | 4                      | 124            | 47     | 52          | 145         | 1   | 13    |            |
| 1-11 . . . . .   | 26,110  | 3,657                  | 11,086         | 3,052  | 2,022       | 6,207       | 77  | 9     |            |
| 12 . . . . .   | 37,528  | 2,810                  | 9,920          | 5,292  | 9,368       | 9,952       | 121 | 65    |            |
| 13 & over . . . . .                                    | 58,261  | 3,439                  | 8,390          | 7,925  | 25,843      | 12,498      | 119 | 47    |            |
| Not stated . . . . .                                   | 440     | 12                     | 99             | 91     | 55          | 133         | -   | 50    |            |
| Birthplace of Mother                                   |         |                        |                |        |             |             |     |       |            |
| United States other than Puerto Rico . . . . .         | 56,395  | 8,182                  | 5,380          | 1,148  | 26,108      | 15,420      | 63  | 94    |            |
| Puerto Rico . . . . .                                  | 1,745   | 1,642                  | 85             | -      | 12          | 6           | -   | -     |            |
| Foreign . . . . .                                      | 64,147  | 76                     | 24,071         | 15,238 | 11,097      | 13,365      | 254 | 46    |            |
| Not stated . . . . .                                   | 438     | 22                     | 83             | 21     | 123         | 144         | 1   | 44    |            |
| Spontaneous Terminations of Pregnancy, 28 weeks & Over |         |                        |                |        |             |             |     |       |            |
| Total . . . . .  | 422     | 24                     | 109            | 40     | 98          | 141         | 1   | 9     |            |
| Sex  |         |                        |                |        |             |             |     |       |            |
| Male . . . . .   | 196     | 13                     | 49             | 17     | 38          | 73          | 1   | 5     |            |
| Female . . . . .                                       | 178     | 8                      | 46             | 19     | 46          | 56          | -   | 3     |            |
| Undetermined . . . . .                                 | 48      | 3                      | 14             | 4      | 14          | 12          | -   | 1     |            |
| Weight at Delivery in Grams                            |         |                        |                |        |             |             |     |       |            |
| Under 500 . . . . .                                    | 32      | -                      | 6              | -      | 8           | 17          | -   | 1     |            |
| 500-999 . . . . .                                      | 40      | 4                      | 5              | 9      | 6           | 15          | -   | 1     |            |
| 1000-1499 . . . . .                                    | 56      | 2                      | 12             | 6      | 14          | 21          | -   | 1     |            |
| 1500-1999 . . . . .                                    | 53      | 2                      | 14             | 5      | 11          | 21          | -   | -     |            |
| 2000-2499 . . . . .                                    | 50      | 2                      | 16             | 7      | 4           | 20          | -   | 1     |            |
| 2500 & over . . . . .                                  | 116     | 8                      | 38             | 8      | 31          | 27          | 1   | 3     |            |
| Not stated . . . . .                                   | 75      | 6                      | 18             | 5      | 24          | 20          | -   | 2     |            |

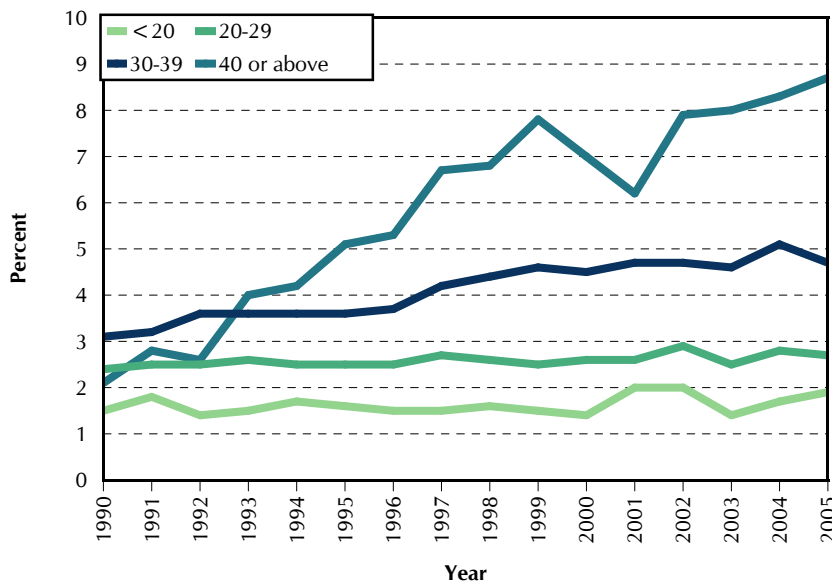
Note: See Technical Notes: Induced and Spontaneous Terminations of Pregnancy.



**Figure 21. Percent of Live Births Covered by Medicaid New York City, 1986-2005**

Of the 122,725 births in NYC in 2005, approximately 52% (63,370) were covered by Medicaid. This distribution varies greatly by ethnicity. Since 1985, greater than 50% of Hispanic births were covered by Medicaid, hovering near 70% since 1991. Since 1991, approximately 60% of births to Non-Hispanic blacks were covered by Medicaid. Asian and Pacific Islanders showed the largest increase in the percent of Medicaid births over the two decades, increasing from approximately 10% of births covered by Medicaid in 1985 to more than 50% in 2005. The proportion of births covered by Medicaid among Non-Hispanic whites remains the lowest, with a slow steady increase from 10% in 1985 to slightly more than 20% of births in 2005.

Of the 63,370 births reported as covered by Medicaid in 2005, 44% were to Hispanics, 29% were to Non-Hispanic blacks, 14% were to Asian and Pacific Islanders and 13% were to Non-Hispanic whites.



**Figure 22. Percent of Multiple Births by Mother's Age New York City, 1990-2005**

Plurality or multiple births occurred among 4,621 of the 122,725 births in New York City in 2005; 96.2% births were singletons, compared to 3.6% twins; 0.2% triplets. The proportion of multiple births increases with age. In 2005, 8.7% of births to women 40 years of age or over were multiple, compared to 4.7% of births to women between 30-39, 2.7% to women between 20-29 and 1.9% to women under 20.

The percent of multiple births to women 40 years of age or over has increased since 1990, with a short decline between 2000 and 2001, increasing to 8.7% in 2005. Women between 30 and 39 have also had an increase in the proportion of multiple births from 3.1% in 1990 to greater than 4.7% in 2005. The proportion of multiple births to women between 20 to 29 and women under 20 also increased slightly from 2.4% and 1.5% in 1990 to 2.7% and 1.9% in 2005 respectively.

Table 34.

Live Births by Selected Characteristics and Infant Deaths  
by Health Center District of Residence, New York City, 2005

| Health Center District   | Live Births Rate* |       | Percent of Total Live Births with Specified Characteristics |                |          |                     |                  |                   |                          |                    |             | Infant Mortality (Under 1 Year) |        | Neonatal Mortality (Under 28 Days) |        |
|--------------------------|-------------------|-------|---|----------------|----------|---------------------|------------------|-------------------|--------------------------|--------------------|-------------|---------------------------------|--------|------------------------------------|--------|
|                          |                   |       | Mother's Ancestry   |                |          | Foreign Born Mother | First Live Birth | Under 2,500 Grams | Late or No Prenatal Care | Mother Not Married | On Medicaid | Number                          | Rate** | Number                             | Rate** |
|                          |                   |       | Puerto Rican  | Hispanic Other | Hispanic |                     |                  |                   |                          |                    |             |                                 |        |                                    |        |
| NEW YORK CITY            | 122,725           | 15.3* | 8.1   | 24.1           | 52.3     | 44.8                | 9.0              | 5.7               | 43.6                     | 51.6               | 732         | 6.0                             | 481    | 3.9                                |        |
| MANHATTAN                | 20,017            | 13.0  | 6.7   | 24.1           | 45.3     | 55.2                | 8.6              | 4.4               | 36.9                     | 41.8               | 89          | 4.4                             | 66     | 3.3                                |        |
| Central Harlem           | 1,882             | 15.2  | 8.3   | 18.7           | 40.3     | 40.6                | 12.1             | 9.4               | 69.3                     | 72.2               | 14          | 7.4                             | 10     | 5.3                                |        |
| East Harlem              | 1,933             | 14.2  | 19.7  | 30.3           | 41.7     | 48.5                | 9.7              | 5.4               | 57.6                     | 60.0               | 7           | 3.6                             | 5      | 2.6                                |        |
| Kips Bay-Yorkville       | 3,013             | 12.5  | 1.0   | 5.0            | 31.3     | 67.1                | 8.4              | 1.5               | 5.9                      | 4.1                | 11          | 3.7                             | 9      | 3.0                                |        |
| Lower East Side          | 2,882             | 11.9  | 10.4  | 8.4            | 57.6     | 56.9                | 6.7              | 4.7               | 34.8                     | 52.9               | 9           | 3.1                             | 5      | 1.7                                |        |
| Lower West Side          | 3,753             | 12.1  | 3.3   | 7.7            | 39.0     | 66.2                | 8.3              | 3.0               | 16.0                     | 14.8               | 13          | 3.5                             | 9      | 2.4                                |        |
| Riverside                | 2,573             | 12.6  | 5.5   | 13.0           | 34.8     | 56.8                | 8.9              | 3.3               | 26.1                     | 25.7               | 17          | 6.6                             | 12     | 4.7                                |        |
| Washington Heights       | 3,981             | 14.3  | 5.2   | 72.3           | 63.7     | 43.5                | 8.2              | 5.6               | 63.1                     | 74.8               | 18          | 4.5                             | 16     | 4.0                                |        |
| BRONX                    | 20,766            | 15.6  | 21.0  | 36.1           | 51.6     | 40.9                | 10.3             | 6.1               | 68.9                     | 68.0               | 130         | 6.3                             | 89     | 4.3                                |        |
| Fordham-Riverdale        | 4,106             | 15.5  | 16.8  | 45.0           | 57.0     | 40.9                | 9.5              | 4.4               | 61.7                     | 62.8               | 20          | 4.9                             | 14     | 3.4                                |        |
| Morrisania               | 3,236             | 19.2  | 21.0  | 36.1           | 50.8     | 37.9                | 11.2             | 7.4               | 76.2                     | 71.2               | 24          | 7.4                             | 19     | 5.9                                |        |
| Mott Haven               | 2,408             | 17.4  | 29.4  | 43.9           | 43.3     | 39.1                | 10.6             | 9.3               | 78.6                     | 79.3               | 14          | 5.8                             | 8      | 3.3                                |        |
| Pelham Bay               | 2,845             | 11.6  | 14.3  | 14.2           | 53.2     | 49.2                | 10.5             | 6.3               | 65.4                     | 68.1               | 17          | 6.0                             | 10     | 3.5                                |        |
| Tremont                  | 4,291             | 19.9  | 18.9  | 45.1           | 55.9     | 37.0                | 10.5             | 5.7               | 74.5                     | 64.8               | 30          | 7.0                             | 17     | 4.0                                |        |
| Westchester              | 3,880             | 12.9  | 27.3  | 27.9           | 45.9     | 42.5                | 9.9              | 5.2               | 60.8                     | 67.4               | 25          | 6.4                             | 21     | 5.4                                |        |
| BROOKLYN                 | 39,026            | 15.8  | 5.5   | 16.9           | 50.8     | 41.8                | 8.9              | 5.6               | 43.3                     | 57.2               | 233         | 6.0                             | 142    | 3.6                                |        |
| Bay Ridge                | 3,983             | 14.7  | 3.9   | 16.8           | 63.9     | 43.2                | 6.9              | 3.3               | 25.1                     | 43.2               | 12          | 3.0                             | 10     | 2.5                                |        |
| Bedford                  | 3,624             | 15.7  | 3.3   | 6.9            | 44.5     | 41.5                | 11.7             | 8.7               | 64.2                     | 70.6               | 42          | 11.6                            | 22     | 6.1                                |        |
| Brownsville              | 4,520             | 15.0  | 7.4   | 10.0           | 48.2     | 40.1                | 12.2             | 9.6               | 69.1                     | 68.1               | 41          | 9.1                             | 23     | 5.1                                |        |
| Bushwick                 | 3,550             | 18.3  | 16.9  | 46.9           | 54.6     | 37.9                | 9.0              | 7.2               | 71.2                     | 75.3               | 31          | 8.7                             | 16     | 4.5                                |        |
| Flatbush                 | 8,118             | 15.1  | 1.9   | 11.5           | 56.6     | 39.5                | 9.6              | 5.9               | 39.8                     | 53.7               | 44          | 5.4                             | 26     | 3.2                                |        |
| Fort Greene              | 2,162             | 14.2  | 6.1   | 15.4           | 31.5     | 47.2                | 10.9             | 5.2               | 48.7                     | 55.5               | 12          | 5.6                             | 9      | 4.2                                |        |
| Gravesend                | 3,667             | 11.8  | 4.6   | 13.9           | 62.8     | 49.6                | 7.9              | 4.4               | 29.4                     | 46.9               | 17          | 4.6                             | 11     | 3.0                                |        |
| Red Hook-Gowanus         | 1,453             | 13.0  | 8.4   | 12.9           | 29.2     | 58.4                | 8.3              | 2.8               | 27.8                     | 27.5               | 6           | 4.1                             | 4      | 2.8                                |        |
| Sunset Park              | 4,887             | 24.9  | 3.7   | 22.7           | 57.3     | 39.7                | 5.7              | 2.8               | 30.6                     | 55.9               | 16          | 3.3                             | 12     | 2.5                                |        |
| Williamsburg-Greenpoint  | 3,062             | 19.1  | 6.3   | 15.7           | 24.3     | 35.5                | 6.0              | 3.5               | 21.9                     | 61.4               | 12          | 3.9                             | 9      | 2.9                                |        |
| QUEENS                   | 27,050            | 12.1  | 4.5   | 32.9           | 71.1     | 45.8                | 8.2              | 8.4               | 44.2                     | 58.3               | 139         | 5.1                             | 91     | 3.4                                |        |
| Astoria-Long Island City | 3,151             | 11.6  | 3.9   | 36.6           | 73.0     | 51.1                | 7.0              | 10.9              | 40.7                     | 63.5               | 17          | 5.4                             | 11     | 3.5                                |        |
| Corona                   | 6,092             | 16.7  | 1.9   | 63.7           | 86.5     | 43.7                | 7.2              | 13.1              | 54.1                     | 80.6               | 19          | 3.1                             | 11     | 1.8                                |        |
| Flushing                 | 4,490             | 9.0   | 2.3   | 18.8           | 73.2     | 46.9                | 6.8              | 4.7               | 27.1                     | 52.8               | 20          | 4.5                             | 11     | 2.4                                |        |
| Jamaica East             | 4,311             | 11.4  | 3.2   | 14.8           | 60.3     | 45.6                | 10.1             | 7.9               | 58.2                     | 52.7               | 43          | 10.0                            | 27     | 6.3                                |        |
| Jamaica West             | 5,489             | 13.0  | 7.5   | 27.7           | 64.3     | 42.2                | 10.1             | 7.7               | 46.8                     | 48.3               | 30          | 5.5                             | 22     | 4.0                                |        |
| Maspeth-Forest Hills     | 3,517             | 11.9  | 9.2   | 24.8           | 63.7     | 49.2                | 7.6              | 4.6               | 31.0                     | 44.5               | 10          | 2.8                             | 9      | 2.6                                |        |
| RICHMOND                 | 5,575             | 12.6  | 8.0   | 15.1           | 35.5     | 39.8                | 8.5              | 2.9               | 30.0                     | 31.7               | 29          | 5.2                             | 23     | 4.1                                |        |
| NON-RESIDENTS            | 10,283            | -     | 3.9   | 9.3            | 32.4     | 44.6                | 9.3              | 1.8               | 12.2                     | 9.9                | 110         | 10.7                            | 68     | 6.6                                |        |
| RESIDENCE UNKNOWN        | 8                 | -     | -   | -              | -        | -                   | -                | -                 | -                        | -                  | 2           | -                               | 2      | -                                  |        |

\*Rate per 1,000 population. Population data are from 2000 census; compare to Table 1 where citywide rate is 15.1, based on 2005 Census Bureau's estimate. \*\*Rate per 1,000 live births. Borough totals may be higher than the sum of the health center districts, as they may include some live births whose health center district could not be determined.

Table 35.

Live Births by Selected Characteristics and Mother's Ancestry  
New York City, 2005

| Ancestry of Mother                      | Live Births | Percent of Live Births with Specified Characteristics |                  |                   |                          |                    |             |      | Teenage Mother* |
|---|-------------|---|------------------|-------------------|--------------------------|--------------------|-------------|------|-----------------|
|   |             | Foreign Born Mother                                   | First Live Birth | Under 2,500 Grams | Late or No Prenatal Care | Mother Not Married | On Medicaid |      |                 |
| Total                                   | 122,725     | 52.3  | 44.8             | 9.0               | 5.7                      | 43.6               | 51.6        | 7.0  |                 |
| Puerto Rican                            | 9,922       | 0.8   | 42.5             | 11.1              | 5.1                      | 73.3               | 61.3        | 15.9 |                 |
| Dominican                               | 9,907       | 76.9  | 42.0             | 7.8               | 6.3                      | 66.3               | 70.7        | 10.7 |                 |
| Colombian                               | 1,312       | 79.6  | 51.2             | 6.2               | 9.1                      | 50.9               | 59.5        | 6.9  |                 |
| Ecuadorian                              | 3,380       | 88.5  | 38.2             | 6.1               | 9.7                      | 53.6               | 77.2        | 7.7  |                 |
| Mexican                                 | 7,986       | 95.8  | 36.3             | 5.6               | 8.6                      | 72.6               | 84.7        | 12.9 |                 |
| Cuban                                   | 265         | 26.0  | 54.3             | 10.6              | 2.3                      | 45.3               | 32.8        | 7.9  |                 |
| Other Hispanic                          | 6,769       | 69.3  | 43.6             | 7.5               | 6.4                      | 60.5               | 65.1        | 10.5 |                 |
| African-American                        | 16,448      | 11.0  | 43.5             | 14.2              | 6.8                      | 76.5               | 62.5        | 13.8 |                 |
| American                                | 5,199       | 4.0   | 47.6             | 9.0               | 2.6                      | 14.6               | 19.2        | 2.8  |                 |
| Guyanese                                | 2,078       | 96.5  | 41.5             | 14.9              | 5.3                      | 44.0               | 48.1        | 4.2  |                 |
| Haitian                                 | 1,679       | 87.3  | 44.8             | 9.9               | 8.0                      | 42.4               | 57.7        | 3.0  |                 |
| Jamaican                                | 2,714       | 91.5  | 44.5             | 10.9              | 9.7                      | 64.7               | 62.3        | 7.3  |                 |
| Trinidadian                             | 1,516       | 95.3  | 48.9             | 12.8              | 10.8                     | 58.3               | 62.2        | 7.4  |                 |
| Other North, Central and South American | 2,759       | 89.5  | 47.9             | 12.1              | 10.8                     | 53.6               | 58.9        | 4.7  |                 |
| English                                 | 825         | 23.8  | 60.4             | 9.8               | 1.3                      | 7.5                | 4.0         | -    |                 |
| German                                  | 1,809       | 13.7  | 59.6             | 6.6               | 1.5                      | 12.8               | 7.5         | 0.8  |                 |
| Irish                                   | 3,148       | 9.9   | 53.3             | 6.6               | 1.5                      | 12.6               | 7.6         | 1.2  |                 |
| Italian                                 | 4,905       | 6.6   | 49.7             | 8.6               | 1.2                      | 14.2               | 10.5        | 1.8  |                 |
| Polish                                  | 1,452       | 58.0  | 58.2             | 6.0               | 3.0                      | 14.9               | 33.3        | 1.8  |                 |
| Russian                                 | 2,153       | 62.5  | 53.9             | 6.7               | 2.5                      | 13.1               | 17.3        | 1.0  |                 |
| Other European                          | 5,516       | 55.3  | 52.5             | 6.4               | 2.8                      | 12.6               | 23.9        | 1.3  |                 |
| Asian Indian                            | 1,984       | 91.2  | 53.3             | 10.0              | 5.1                      | 12.1               | 34.8        | 0.7  |                 |
| Bangladeshi                             | 1,541       | 99.5  | 37.1             | 11.4              | 10.0                     | 14.0               | 77.6        | 1.8  |                 |
| Chinese                                 | 7,426       | 93.7  | 53.3             | 5.5               | 3.2                      | 27.2               | 58.4        | 1.0  |                 |
| Filipino                                | 883         | 83.6  | 54.7             | 8.7               | 7.7                      | 16.2               | 23.0        | 1.0  |                 |
| Korean                                  | 1,036       | 87.9  | 59.6             | 6.3               | 4.6                      | 11.1               | 40.3        | 0.1  |                 |
| Pakistani                               | 1,171       | 97.4  | 40.6             | 9.5               | 11.6                     | 8.3                | 68.6        | 1.9  |                 |
| Other Asian                             | 4,002       | 87.1  | 48.0             | 7.7               | 6.3                      | 13.1               | 44.4        | 4.2  |                 |
| Jewish or Hebrew                        | 7,632       | 17.6  | 31.1             | 6.3               | 1.8                      | 3.8                | 37.4        | 1.7  |                 |
| Other & Not Stated                      | 5,308       | 73.1  | 40.3             | 9.3               | 9.2                      | 34.7               | 52.2        | 2.5  |                 |

Note: See Technical Notes: Race, Ancestry, Ethnicity, and Birthplace.

\* Teenage mother is defined as a mother whose age is under 20 years old.



Table 36.

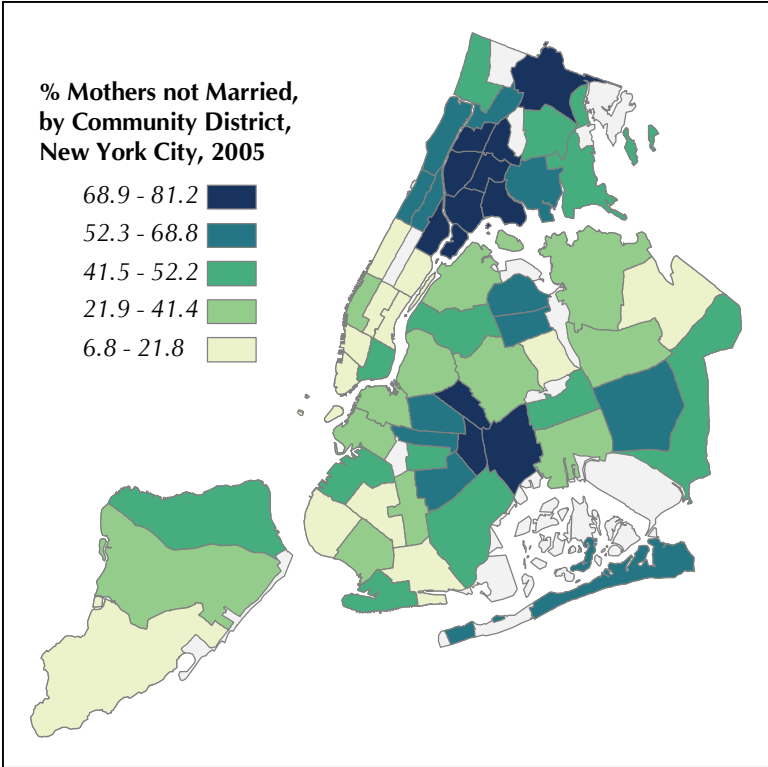
Live Births by Selected Characteristics and Infant Deaths  
by Community District of Residence, New York City, 2005

| Community District                | Live Births<br>Rate* |       | Percent of Total Live Births with Specified Characteristics |                |                     |                  |                   |                          |                    |             |     | Infant Mortality<br>(Under 1 Year)<br>Number Rate** |     | Neonatal Mortality<br>(Under 28 Days)<br>Number Rate** |  |
|-----------------------------------|----------------------|-------|---|----------------|---------------------|------------------|-------------------|--------------------------|--------------------|-------------|-----|---|-----|--|--|
|                                   |                      |       | Mother's Ancestry   |                | Foreign Born Mother | First Live Birth | Under 2,500 Grams | Late or No Prenatal Care | Mother Not Married | On Medicaid |     |   |     |  |  |
|                                   |                      |       | Puerto Rican  | Other Hispanic |                     |                  |                   |                          |                    |             |     |   |     |  |  |
| NEW YORK CITY                     | 122,725              | 15.3* | 8.1   | 24.1           | 52.3                | 44.8             | 9.0               | 5.7                      | 43.6               | 51.6        | 732 | 6.0   | 481 | 3.9  |  |
| MANHATTAN                         | 19,922               | 13.0  | 6.7   | 23.9           | 45.2                | 55.3             | 8.6               | 4.4                      | 36.8               | 41.7        | 89  | 4.5   | 66  | 3.3  |  |
| Battery Park, Tribeca (01)        | 663                  | 19.3  | 1.7   | 6.9            | 38.0                | 64.7             | 6.9               | 1.7                      | 9.8                | 5.4         | 1   | 1.5   | 1   | 1.5  |  |
| Greenwich Village, SOHO (02)      | 856                  | 9.2   | 0.9   | 5.0            | 39.6                | 69.2             | 8.4               | 2.6                      | 13.2               | 13.8        | 1   | 1.2   | 1   | 1.2  |  |
| Lower East Side (03)              | 2,254                | 13.7  | 12.5  | 9.1            | 67.0                | 52.8             | 6.3               | 5.2                      | 42.5               | 67.3        | 5   | 2.2   | 2   | 0.9  |  |
| Chelsea, Clinton (04)             | 891                  | 10.2  | 8.9   | 14.6           | 40.2                | 64.3             | 9.7               | 6.2                      | 29.5               | 29.6        | 1   | 1.1   | 1   | 1.1  |  |
| Midtown Business District (05)    | 482                  | 10.9  | 1.5   | 6.0            | 39.8                | 69.7             | 7.1               | 3.1                      | 16.2               | 12.0        | 5   | 10.4  | 3   | 6.2  |  |
| Murray Hill (06)                  | 1,220                | 9.0   | 2.2   | 5.3            | 33.2                | 70.7             | 7.8               | 2.5                      | 7.5                | 5.7         | 5   | 4.1   | 3   | 2.5  |  |
| Upper West Side (07)              | 2,879                | 13.9  | 3.7   | 9.1            | 31.4                | 60.8             | 8.7               | 2.2                      | 16.4               | 13.3        | 16  | 5.6   | 12  | 4.2  |  |
| Upper East Side (08)              | 2,838                | 13.1  | 1.4   | 5.5            | 30.7                | 65.7             | 8.6               | 1.6                      | 6.8                | 5.5         | 10  | 3.5   | 8   | 2.8  |  |
| Manhattanville (09)               | 1,561                | 14.0  | 7.0   | 48.9           | 57.8                | 44.8             | 9.9               | 5.7                      | 61.7               | 71.0        | 11  | 7.0   | 8   | 5.1  |  |
| Central Harlem (10)               | 1,659                | 15.5  | 7.4   | 18.4           | 42.4                | 40.7             | 12.5              | 9.5                      | 68.8               | 72.5        | 13  | 7.8   | 10  | 6.0  |  |
| East Harlem (11)                  | 1,725                | 14.7  | 22.8  | 34.4           | 40.6                | 43.5             | 9.7               | 6.4                      | 71.0               | 73.5        | 6   | 3.5   | 4   | 2.3  |  |
| Washington Heights (12)           | 2,892                | 13.9  | 4.9   | 74.9           | 64.8                | 44.4             | 7.5               | 5.4                      | 61.0               | 73.2        | 15  | 5.2   | 13  | 4.5  |  |
| BRONX                             | 20,861               | 15.7  | 20.9  | 36.2           | 51.6                | 40.9             | 10.4              | 6.1                      | 68.9               | 68.0        | 130 | 6.2   | 89  | 4.3  |  |
| Mott Haven (01)                   | 1,636                | 19.9  | 30.1  | 42.8           | 43.1                | 37.5             | 11.0              | 9.8                      | 79.0               | 80.6        | 9   | 5.5   | 3   | 1.8  |  |
| Hunts Point (02)                  | 895                  | 19.1  | 30.7  | 45.4           | 42.8                | 38.8             | 9.9               | 8.9                      | 80.9               | 77.1        | 5   | 5.6   | 5   | 5.6  |  |
| Morrisania (03)                   | 1,293                | 18.9  | 23.9  | 28.8           | 40.2                | 37.6             | 12.8              | 6.3                      | 79.0               | 64.9        | 14  | 10.8  | 10  | 7.7  |  |
| Concourse, Highbridge (04)        | 2,838                | 20.3  | 16.0  | 42.5           | 61.0                | 37.3             | 10.3              | 7.4                      | 72.7               | 72.1        | 14  | 4.9   | 12  | 4.2  |  |
| University/Morris Heights (05)    | 2,522                | 19.7  | 16.6  | 47.9           | 58.4                | 38.7             | 10.0              | 5.6                      | 74.5               | 63.7        | 20  | 7.9   | 11  | 4.4  |  |
| East Tremont (06)                 | 1,364                | 18.0  | 27.5  | 37.9           | 43.6                | 35.5             | 11.7              | 4.6                      | 77.1               | 60.1        | 9   | 6.6   | 5   | 3.7  |  |
| Fordham (07)                      | 2,507                | 17.7  | 18.6  | 48.7           | 60.4                | 40.3             | 9.3               | 4.8                      | 65.7               | 72.0        | 17  | 6.8   | 12  | 4.8  |  |
| Riverdale (08)                    | 1,116                | 11.0  | 10.4  | 41.3           | 52.0                | 46.1             | 9.6               | 3.5                      | 44.5               | 48.2        | -   | -   | -   | -  |  |
| Unionport, Soundview (09)         | 2,505                | 14.9  | 27.5  | 30.1           | 46.6                | 41.8             | 10.5              | 5.8                      | 68.4               | 72.6        | 18  | 7.2   | 14  | 5.6  |  |
| Throgs Neck (10)                  | 922                  | 8.0   | 28.6  | 16.8           | 35.7                | 44.9             | 9.4               | 3.4                      | 48.0               | 50.9        | 9   | 9.8   | 9   | 9.8  |  |
| Pelham Parkway (11)               | 1,376                | 12.4  | 20.7  | 24.9           | 52.2                | 44.0             | 8.7               | 4.9                      | 52.2               | 64.9        | 3   | 2.2   | 1   | 0.7  |  |
| Williamsbridge (12)               | 1,886                | 12.7  | 11.9  | 11.6           | 56.0                | 51.4             | 11.1              | 7.2                      | 69.6               | 71.4        | 12  | 6.4   | 7   | 3.7  |  |
| BROOKLYN                          | 39,026               | 15.8  | 5.5   | 16.9           | 50.8                | 41.8             | 8.9               | 5.6                      | 43.3               | 57.2        | 233 | 6.0   | 142 | 3.6  |  |
| Williamsburg, Greenpoint (01)     | 3,062                | 19.1  | 6.3   | 15.7           | 24.3                | 35.5             | 6.0               | 3.5                      | 21.9               | 61.4        | 12  | 3.9   | 9   | 2.9  |  |
| Fort Green, Brooklyn Heights (02) | 1,092                | 11.1  | 5.5   | 12.1           | 29.8                | 58.1             | 11.2              | 3.9                      | 38.5               | 36.4        | 6   | 5.5   | 5   | 4.6  |  |
| Bedford Stuyvesant (03)           | 2,260                | 15.7  | 6.9   | 14.4           | 31.5                | 39.9             | 12.9              | 7.9                      | 68.1               | 73.2        | 23  | 10.2  | 10  | 4.4  |  |
| Bushwick (04)                     | 2,071                | 19.8  | 18.3  | 55.8           | 58.4                | 36.4             | 7.6               | 7.0                      | 72.6               | 83.2        | 14  | 6.8   | 8   | 3.9  |  |
| East New York (05)                | 2,785                | 16.1  | 12.3  | 26.0           | 48.0                | 37.6             | 10.7              | 9.0                      | 69.4               | 67.6        | 28  | 10.1  | 12  | 4.3  |  |
| Park Slope (06)                   | 1,456                | 14.0  | 8.0   | 10.6           | 26.6                | 58.1             | 7.8               | 2.4                      | 25.3               | 23.4        | 3   | 2.1   | 2   | 1.4  |  |
| Sunset Park (07)                  | 2,550                | 21.2  | 6.1   | 40.4           | 78.0                | 47.0             | 6.2               | 2.5                      | 48.3               | 56.8        | 5   | 2.0   | 3   | 1.2  |  |
| Crown Heights North (08)          | 1,471                | 15.3  | 3.4   | 7.9            | 43.6                | 44.7             | 11.5              | 8.8                      | 64.0               | 65.7        | 14  | 9.5   | 8   | 5.4  |  |
| Crown Heights South (09)          | 1,705                | 16.4  | 1.5   | 7.7            | 57.2                | 41.9             | 8.7               | 7.6                      | 51.5               | 66.5        | 18  | 10.6  | 10  | 5.9  |  |
| Bay Ridge (10)                    | 1,575                | 12.9  | 5.0   | 15.7           | 61.9                | 47.0             | 6.2               | 4.2                      | 21.8               | 35.4        | 5   | 3.2   | 4   | 2.5  |  |
| Bensonhurst (11)                  | 2,176                | 12.6  | 3.3   | 16.4           | 70.5                | 44.2             | 7.7               | 3.2                      | 27.4               | 43.0        | 8   | 3.7   | 6   | 2.8  |  |
| Borough Park (12)                 | 4,733                | 25.6  | 1.4   | 9.8            | 43.2                | 32.0             | 5.7               | 3.4                      | 16.2               | 54.4        | 21  | 4.4   | 15  | 3.2  |  |
| Coney Island (13)                 | 1,171                | 11.0  | 9.7   | 18.6           | 60.4                | 59.1             | 9.5               | 5.8                      | 42.2               | 61.4        | 12  | 10.2  | 8   | 6.8  |  |
| Flatbush, Midwood (14)            | 2,728                | 16.2  | 2.1   | 18.0           | 61.5                | 40.5             | 10.4              | 6.4                      | 40.7               | 58.0        | 15  | 5.5   | 10  | 3.7  |  |
| Sheepshead Bay (15)               | 1,935                | 12.1  | 1.9   | 9.0            | 61.4                | 45.0             | 7.4               | 3.8                      | 21.2               | 38.6        | 3   | 1.6   | 1   | 0.5  |  |
| Brownsville (16)                  | 1,394                | 16.3  | 9.7   | 9.6            | 34.2                | 38.6             | 15.4              | 9.3                      | 81.2               | 79.1        | 10  | 7.2   | 8   | 5.7  |  |
| East Flatbush (17)                | 2,332                | 14.1  | 1.9   | 4.7            | 68.2                | 42.3             | 11.5              | 9.4                      | 64.4               | 67.3        | 18  | 7.7   | 8   | 3.4  |  |
| Canarsie (18)                     | 2,523                | 13.0  | 3.3   | 5.7            | 51.7                | 41.7             | 10.4              | 5.3                      | 42.2               | 43.6        | 18  | 7.1   | 15  | 5.9  |  |
| QUEENS                            | 27,050               | 12.1  | 4.5   | 32.9           | 71.1                | 45.8             | 8.2               | 8.4                      | 44.2               | 58.3        | 139 | 5.1   | 91  | 3.4  |  |
| Astoria, Long Island City (01)    | 2,263                | 10.7  | 4.9   | 31.4           | 68.7                | 50.6             | 7.2               | 11.1                     | 39.8               | 62.1        | 13  | 5.7   | 8   | 3.5  |  |
| Sunnyside, Woodside (02)          | 1,489                | 13.5  | 2.2   | 45.3           | 83.7                | 51.0             | 7.1               | 11.5                     | 43.0               | 68.8        | 8   | 5.4   | 5   | 3.4  |  |
| Jackson Heights (03)              | 2,718                | 16.1  | 1.9   | 72.1           | 84.0                | 43.8             | 7.8               | 12.8                     | 56.2               | 80.6        | 8   | 2.9   | 5   | 1.8  |  |
| Elmhurst, Corona (04)             | 2,890                | 17.3  | 1.6   | 59.6           | 89.6                | 43.0             | 6.5               | 13.3                     | 53.6               | 81.7        | 7   | 2.4   | 4   | 1.4  |  |
| Ridgewood, Glendale (05)          | 2,077                | 12.5  | 13.5  | 32.4           | 58.4                | 46.4             | 6.8               | 5.3                      | 39.2               | 53.1        | 5   | 2.4   | 5   | 2.4  |  |
| Rego Park, Forest Hills (06)      | 1,265                | 10.9  | 2.9   | 12.6           | 70.6                | 52.6             | 8.9               | 3.3                      | 18.1               | 29.6        | 4   | 3.2   | 3   | 2.4  |  |
| Flushing (07)                     | 2,427                | 10.0  | 1.8   | 22.6           | 81.1                | 49.7             | 5.9               | 5.0                      | 31.3               | 63.9        | 12  | 4.9   | 6   | 2.5  |  |
| Fresh Meadows, Briarwood (08)     | 1,716                | 11.7  | 3.3   | 16.3           | 70.9                | 45.6             | 8.3               | 5.3                      | 28.6               | 45.6        | 6   | 3.5   | 4   | 2.3  |  |
| Woodhaven (09)                    | 2,026                | 14.3  | 8.7   | 36.6           | 75.2                | 42.5             | 9.0               | 6.8                      | 44.4               | 42.9        | 15  | 7.4   | 12  | 5.9  |  |
| Howard Beach (10)                 | 1,467                | 11.5  | 7.4   | 19.4           | 65.2                | 43.8             | 11.5              | 6.3                      | 41.4               | 43.5        | 8   | 5.5   | 7   | 4.8  |  |
| Bayside (11)                      | 703                  | 6.0   | 2.1   | 16.2           | 57.8                | 46.1             | 6.7               | 4.1                      | 19.8               | 33.7        | 2   | 2.8   | 1   | 1.4  |  |
| Jamaica, St. Albans (12)          | 2,969                | 13.3  | 3.0   | 19.5           | 59.9                | 43.8             | 10.4              | 8.1                      | 63.0               | 54.8        | 30  | 10.1  | 20  | 6.7  |  |
| Queens Village (13)               | 1,714                | 8.7   | 3.8   | 11.0           | 61.6                | 46.7             | 10.0              | 6.9                      | 47.0               | 48.2        | 13  | 7.6   | 7   | 4.1  |  |
| The Rockaways (14)                | 1,319                | 12.4  | 7.5   | 20.5           | 41.1                | 38.1             | 10.3              | 10.9                     | 55.2               | 59.2        | 8   | 6.1   | 4   | 3.0  |  |
| STATEN ISLAND                     | 5,575                | 12.6  | 8.0   | 15.1           | 35.5                | 39.8             | 8.5               | 2.9                      | 30.0               | 31.7        | 29  | 5.2   | 23  | 4.1  |  |
| Port Richmond (01)                | 2,468                | 15.2  | 11.8  | 24.9           | 43.9                | 38.5             | 9.1               | 3.8                      | 47.6               | 46.8        | 11  | 4.5   | 8   | 3.2  |  |
| Willowbrook, South Beach (02)     | 1,382                | 10.9  | 6.2   | 10.9           | 42.2                | 42.8             | 7.5               | 2.5                      | 22.9               | 29.0        | 10  | 7.2   | 8   | 5.8  |  |
| Tottenville (03)                  | 1,704                | 11.1  | 3.9   | 4.5            | 18.5                | 39.1             | 8.5               | 1.7                      | 10.7               | 12.4        | 8   | 4.7   | 7   | 4.1  |  |

\*Rate per 1,000 population. Population data are from 2000 census; compare to Table 1 where citywide rate is 15.1, based on 2005 Census Bureau's estimate.

\*\*Rate per 1,000 live births.

Borough totals may be higher than the sum of the community districts, as they may include some live births whose community district could not be determined.



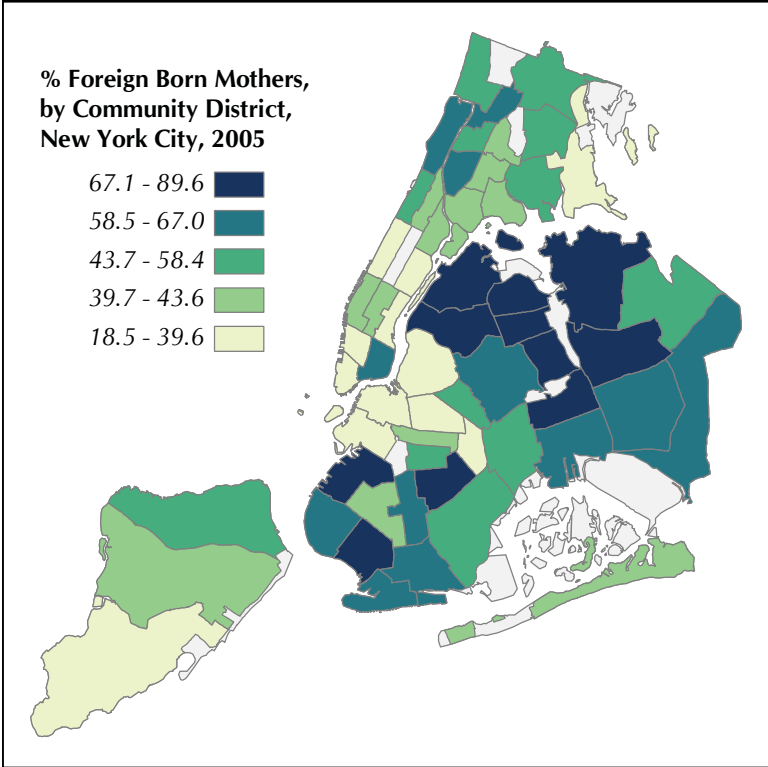
**Map 1. Percent of Live Births to Mothers Not Married by Community District of Residence New York City, 2005**

Forty-four percent of women giving birth in New York City during 2005 were not married. The distribution among New York City boroughs was 68.9% in the Bronx, 44.2% in Queens, 43.3% in Brooklyn, 36.8% in Manhattan, and 30.0% in Staten Island.

Community districts in the highest quintile of women giving birth who were not married were Brownsville at 81.2%, followed by Hunts Point at 80.9%, Mott Haven and Morrisania at 79.0%, East Tremont at 77.1%, University/Morris Heights at 74.5%, Concourse, Highbridge at 72.7%, Bushwick at 72.6%, East Harlem at 71.0%, Williamsbridge at 69.6%, and East New York at 69.4%.

Only three community districts had less than 10% of women giving birth who were not married; they were Upper East Side at 6.8%, Murray Hill at 7.5%, and Battery Park, Tribeca at 9.8%.

See Table 36 on page 49 for additional rates.



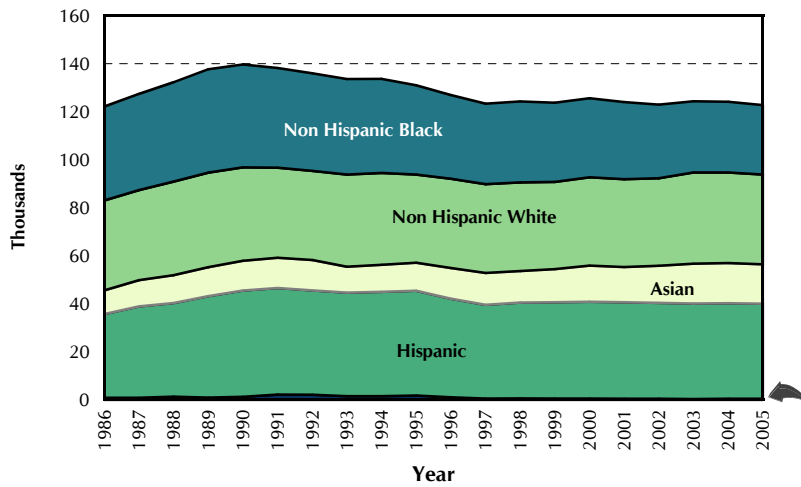
**Map 2. Percent of Live Births to Foreign Born Mothers by Community District of Residence New York City, 2005**

Fifty-two percent of women giving birth in New York City during 2005 were foreign born. The distribution of foreign born women giving birth among New York City boroughs was 71.1% in Queens, 50.8% in Brooklyn, 51.6% in the Bronx, 45.2% in Manhattan, and 35.5% in Staten Island.

Community districts in the highest quintile of foreign born women giving birth were Elmhurst, Corona at 89.6%, followed by Jackson Heights at 84.0%, Sunnyside, Woodside at 83.7%, Flushing at 81.1%, Sunset Park at 78.0%, Woodhaven at 75.2%, Fresh Meadows, Briarwood at 70.9%, Rego Park, Forest Hills at 70.6%, Bensonhurst at 70.5%, Astoria, Long Island City at 68.7%, and East Flatbush at 68.2%.

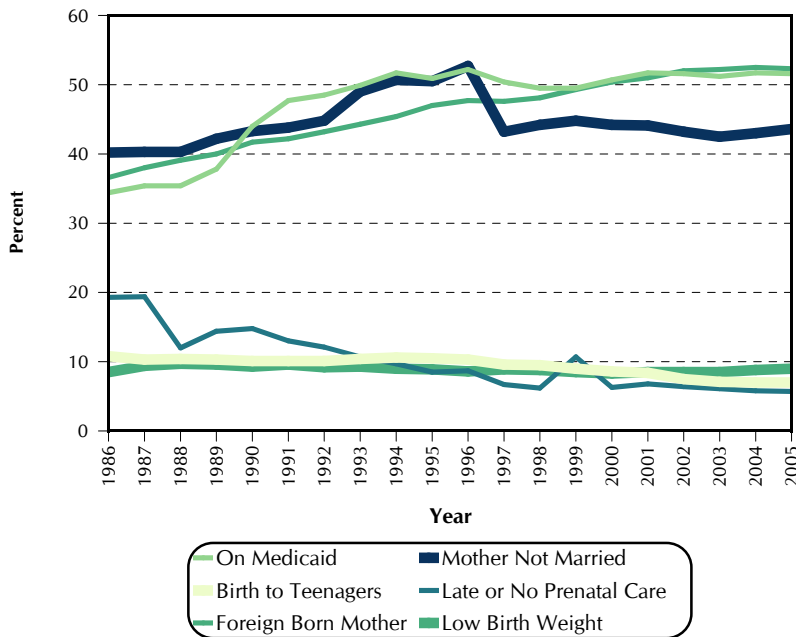
Only four community districts had less than 30% of women giving birth who were foreign born; they were Tottenville at 18.5%, Williamsburg, Greenpoint at 24.3%, Park Slope at 26.6%, and Fort Greene, Brooklyn Heights at 29.8%.

See Table 36 on page 49 for additional rates.



**Figure 23. Live Births by Mother's Ethnic Group New York City, 1986 - 2005**

The total number of live births registered in New York City rose about 14%, from 122,108 in 1985 to 139,630 in 1990, the highest number since 1970. After 1990, live births declined 12%. Since 1990, there have been more births to Hispanic women than to women of any other ethnic group, although births to Puerto Rican women declined. Births to both non-Hispanic black and non-Hispanic white women peaked in 1989; by 2005 births to non-Hispanic white mothers declined 5%, and to non-Hispanic black mothers declined 33%. From 1986 to 2005, births to Asian and Pacific Islander women increased 66%, while the population of Asian and Pacific Islanders increased from about 230,000 in 1980 to over 489,000 in 1990 and 827,000 in 2000, a 2.6 fold increase.



**Figure 24. Percent of Live Births with Specified Characteristics, New York City, 1986-2005**

The percent of live births to foreign born mothers has increased steadily in the past two decades, from 36.6 in 1986 to 52.3 in 2005, reflecting the inflow of new immigrants. The percent of mothers giving birth on Medicaid surged during the late 1980s and early 1990s. The percent of low birth weight babies has been virtually flat for the past 20 years. The percent of late or no prenatal care has trended downward, from 19.3 in 1986 to 5.7 in 2005. The percent of mothers not married when they delivered a baby increased from 1986 to 1996. Note that the method used to compute mother's marital status was changed in 1997. As a result, unmarried mothers declined 19.2% in a sample tested by using both old and new methods. See the Special Note On Mother's Marital Status, Summary of Vital Statistics, 1997, pp.32-33. The percent of mothers not married decreased slightly since 1999, largely due to the decline of teenage mothers who are more likely to be not married.

Table 37.

**Live Births by Mother's Birthplace and Borough of Residence  
New York City, 2005**

| Birthplace               | Total   | Borough of Residence |        |          |        |               | Non-Residents | Residence Unknown |
|--------------------------|---------|----------------------|--------|----------|--------|---------------|---------------|-------------------|
|                          |         | Manhattan            | Bronx  | Brooklyn | Queens | Staten Island |               |                   |
| Bangladesh.....          | 1,555   | 47                   | 209    | 377      | 890    | 6             | 26            | -                 |
| China.....               | 6,100   | 1,504                | 93     | 2,498    | 1,725  | 69            | 211           | -                 |
| Colombia.....            | 1,131   | 79                   | 54     | 99       | 799    | 26            | 74            | -                 |
| Cuba.....                | 64      | 12                   | 11     | 12       | 15     | 2             | 12            | -                 |
| Dominican Republic.....  | 7,903   | 2,061                | 3,341  | 1,210    | 1,050  | 41            | 200           | -                 |
| Ecuador.....             | 3,186   | 233                  | 377    | 599      | 1,886  | 34            | 57            | -                 |
| El Salvador.....         | 804     | 52                   | 89     | 150      | 429    | 9             | 75            | -                 |
| Germany.....             | 274     | 114                  | 15     | 73       | 28     | 9             | 35            | -                 |
| Guyana.....              | 2,275   | 29                   | 228    | 784      | 1,139  | 13            | 82            | -                 |
| Haiti.....               | 1,633   | 57                   | 48     | 1,046    | 349    | 13            | 120           | -                 |
| Honduras.....            | 794     | 59                   | 346    | 182      | 163    | 20            | 24            | -                 |
| India.....               | 1,599   | 179                  | 58     | 136      | 926    | 49            | 251           | -                 |
| Ireland.....             | 246     | 45                   | 18     | 18       | 117    | 5             | 43            | -                 |
| Israel.....              | 1,228   | 226                  | 28     | 626      | 186    | 47            | 115           | -                 |
| Italy.....               | 245     | 70                   | 11     | 69       | 37     | 26            | 32            | -                 |
| Jamaica.....             | 3,189   | 69                   | 885    | 1,293    | 745    | 27            | 170           | -                 |
| Korea.....               | 896     | 171                  | 18     | 79       | 490    | 19            | 119           | -                 |
| Mexico.....              | 7,946   | 978                  | 1,676  | 2,431    | 2,295  | 520           | 46            | -                 |
| Pakistan.....            | 1,134   | 44                   | 78     | 488      | 416    | 36            | 72            | -                 |
| Philippines.....         | 768     | 97                   | 50     | 80       | 369    | 50            | 122           | -                 |
| Poland.....              | 816     | 48                   | 14     | 313      | 340    | 56            | 45            | -                 |
| Puerto Rico.....         | 1,745   | 204                  | 846    | 368      | 197    | 54            | 76            | -                 |
| Russia.....              | 850     | 84                   | 11     | 420      | 174    | 65            | 96            | -                 |
| Trinidad and Tobago..... | 1,824   | 51                   | 99     | 1,018    | 568    | 31            | 57            | -                 |
| Ukraine.....             | 718     | 63                   | 16     | 458      | 40     | 86            | 55            | -                 |
| United States.....       | 56,395  | 10,672               | 9,059  | 18,695   | 7,589  | 3,522         | 6,855         | 3                 |
| Other & Not Stated.....  | 17,407  | 2,769                | 3,088  | 5,504    | 4,088  | 740           | 1,213         | 5                 |
| Total.....               | 122,725 | 20,017               | 20,766 | 39,026   | 27,050 | 5,575         | 10,283        | 8                 |

Table 38.

**Live Births by Mother's Birthplace and Age of Mother  
New York City, 2005**

| Birthplace               | Total   | Age   |        |        |        |        |       | Unknown |
|--------------------------|---------|-------|--------|--------|--------|--------|-------|---------|
|                          |         | <20   | 20-24  | 25-29  | 30-34  | 35-39  | 40+   |         |
| Bangladesh.....          | 1,555   | 28    | 364    | 540    | 419    | 164    | 40    | -       |
| China.....               | 6,100   | 56    | 1,227  | 2,283  | 1,644  | 704    | 186   | -       |
| Colombia.....            | 1,131   | 58    | 218    | 291    | 270    | 212    | 82    | -       |
| Cuba.....                | 64      | 3     | 4      | 14     | 18     | 16     | 9     | -       |
| Dominican Republic.....  | 7,903   | 618   | 1,855  | 2,262  | 1,819  | 1,065  | 284   | -       |
| Ecuador.....             | 3,186   | 201   | 769    | 898    | 720    | 460    | 138   | -       |
| El Salvador.....         | 804     | 73    | 169    | 242    | 192    | 105    | 23    | -       |
| Germany.....             | 274     | 5     | 21     | 42     | 102    | 77     | 27    | -       |
| Guyana.....              | 2,275   | 79    | 433    | 673    | 597    | 375    | 118   | -       |
| Haiti.....               | 1,633   | 37    | 177    | 416    | 508    | 371    | 124   | -       |
| Honduras.....            | 794     | 74    | 195    | 239    | 161    | 93     | 32    | -       |
| India.....               | 1,599   | 9     | 196    | 605    | 533    | 221    | 35    | -       |
| Ireland.....             | 246     | -     | 7      | 36     | 100    | 83     | 20    | -       |
| Israel.....              | 1,228   | 24    | 200    | 348    | 404    | 198    | 54    | -       |
| Italy.....               | 245     | 1     | 4      | 40     | 92     | 79     | 29    | -       |
| Jamaica.....             | 3,189   | 210   | 602    | 814    | 741    | 625    | 197   | -       |
| Korea.....               | 896     | 1     | 20     | 202    | 415    | 221    | 37    | -       |
| Mexico.....              | 7,946   | 935   | 2,560  | 2,354  | 1,422  | 553    | 122   | -       |
| Pakistan.....            | 1,134   | 20    | 228    | 386    | 285    | 174    | 41    | -       |
| Philippines.....         | 768     | 7     | 51     | 177    | 262    | 212    | 59    | -       |
| Poland.....              | 816     | 23    | 107    | 339    | 235    | 85     | 27    | -       |
| Puerto Rico.....         | 1,745   | 212   | 406    | 486    | 375    | 199    | 67    | -       |
| Russia.....              | 850     | 14    | 112    | 280    | 259    | 134    | 51    | -       |
| Trinidad and Tobago..... | 1,824   | 130   | 398    | 465    | 449    | 280    | 102   | -       |
| Ukraine.....             | 718     | 3     | 80     | 232    | 264    | 113    | 26    | -       |
| United States.....       | 56,395  | 5,231 | 12,183 | 12,966 | 14,019 | 9,333  | 2,663 | -       |
| Other & Not Stated.....  | 17,407  | 527   | 2,467  | 4,467  | 5,420  | 3,461  | 1,063 | 2       |
| Total.....               | 122,725 | 8,579 | 25,053 | 32,097 | 31,725 | 19,613 | 5,656 | 2       |

Table 39.

Live Births to Teenagers (Age Under 20) by Selected Characteristics and Infant Deaths by Health Center District of Residence, New York City, 2005

| Health Center District   | Live Births to Teenagers | Percent of Total Live Births | Percent of Teenage Live Births with Specified Characteristics |                |                     |                  |                   |                          |                    |             | Infant Mortality (Under 1 Year) |       | Neonatal Mortality (Under 28 Days) |       |
|--------------------------|--------------------------|------------------------------|---|----------------|---------------------|------------------|-------------------|--------------------------|--------------------|-------------|---------------------------------|-------|------------------------------------|-------|
|                          |                          |                              | Mother's Ancestry   |                | Foreign Born Mother | First Live Birth | Under 2,500 Grams | Late or No Prenatal Care | Mother Not Married | On Medicaid | Number                          | Rate* | Number                             | Rate* |
|                          |                          |                              | Puerto Rican  | Other Hispanic |                     |                  |                   |                          |                    |             |                                 |       |                                    |       |
| NEW YORK CITY            | 8,579                    | 7.0                          | 18.4  | 37.0           | 36.1                | 84.8             | 10.1              | 11.1                     | 88.7               | 80.0        | 52                              | 6.1   | 33                                 | 3.8   |
| MANHATTAN                | 1,170                    | 5.8                          | 21.5  | 46.4           | 33.4                | 81.7             | 10.3              | 9.9                      | 92.3               | 90.9        | 5                               | 4.3   | 2                                  | 1.7   |
| Central Harlem           | 198                      | 10.5                         | 13.1  | 24.2           | 22.7                | 85.4             | 16.7              | 14.1                     | 93.9               | 88.9        | 3                               | 15.2  | 2                                  | 10.1  |
| East Harlem              | 210                      | 10.9                         | 35.2  | 40.5           | 31.9                | 83.8             | 8.1               | 11.4                     | 93.8               | 95.2        | -                               | -     | -                                  | -     |
| Kips Bay-Yorkville       | 28                       | 0.9                          | 14.3  | 17.9           | 14.3                | 92.9             | 17.9              | 10.7                     | 92.9               | 85.7        | -                               | -     | -                                  | -     |
| Lower East Side          | 116                      | 4.0                          | 44.0  | 18.1           | 22.4                | 81.0             | 9.5               | 6.0                      | 86.2               | 87.1        | 1                               | 8.6   | -                                  | -     |
| Lower West Side          | 86                       | 2.3                          | 24.4  | 24.4           | 22.1                | 81.4             | 4.7               | 12.8                     | 89.5               | 86.0        | -                               | -     | -                                  | -     |
| Riverside                | 111                      | 4.3                          | 28.8  | 27.9           | 22.5                | 80.2             | 12.6              | 8.1                      | 95.5               | 87.4        | 1                               | 9.0   | -                                  | -     |
| Washington Heights       | 421                      | 10.6                         | 10.2  | 78.9           | 48.7                | 78.9             | 8.6               | 8.1                      | 92.2               | 93.1        | -                               | -     | -                                  | -     |
| BRONX                    | 2,450                    | 11.8                         | 31.2  | 36.5           | 30.5                | 84.4             | 10.6              | 9.8                      | 92.9               | 77.8        | 13                              | 5.3   | 9                                  | 3.7   |
| Fordham-Riverdale        | 391                      | 9.5                          | 27.4  | 47.3           | 36.3                | 83.1             | 10.7              | 11.5                     | 90.0               | 77.5        | 2                               | 5.1   | 1                                  | 2.6   |
| Morrisania               | 440                      | 13.6                         | 30.7  | 34.8           | 29.5                | 82.7             | 11.6              | 10.0                     | 93.6               | 73.9        | 4                               | 9.1   | 3                                  | 6.8   |
| Mott Haven               | 390                      | 16.2                         | 36.2  | 40.3           | 29.0                | 84.9             | 12.6              | 12.1                     | 94.4               | 83.8        | -                               | -     | -                                  | -     |
| Pelham Bay               | 296                      | 10.4                         | 21.3  | 14.5           | 31.8                | 88.2             | 13.2              | 12.2                     | 96.3               | 89.9        | 1                               | 3.4   | -                                  | -     |
| Tremont                  | 537                      | 12.5                         | 32.2  | 40.4           | 27.4                | 82.7             | 7.4               | 6.9                      | 91.6               | 65.0        | 3                               | 5.6   | 2                                  | 3.7   |
| Westchester              | 396                      | 10.2                         | 36.9  | 35.4           | 30.8                | 86.6             | 9.8               | 7.8                      | 92.9               | 84.8        | 3                               | 7.6   | 3                                  | 7.6   |
| BROOKLYN                 | 2,780                    | 7.1                          | 12.6  | 27.9           | 35.0                | 85.8             | 10.1              | 10.6                     | 86.0               | 81.6        | 19                              | 6.8   | 12                                 | 4.3   |
| Bay Ridge                | 145                      | 3.6                          | 13.1  | 49.7           | 55.2                | 87.6             | 9.0               | 4.1                      | 71.0               | 62.8        | -                               | -     | -                                  | -     |
| Bedford                  | 369                      | 10.2                         | 5.1   | 11.9           | 27.9                | 84.6             | 12.5              | 14.6                     | 94.6               | 89.4        | 2                               | 5.4   | 2                                  | 5.4   |
| Brownsville              | 497                      | 11.0                         | 13.1  | 11.5           | 22.7                | 86.9             | 11.7              | 14.1                     | 95.2               | 84.1        | 2                               | 4.0   | -                                  | -     |
| Bushwick                 | 401                      | 11.3                         | 26.2  | 40.1           | 35.4                | 81.3             | 7.7               | 10.2                     | 92.5               | 84.0        | 2                               | 5.0   | 1                                  | 2.5   |
| Flatbush                 | 451                      | 5.6                          | 3.1   | 21.5           | 44.1                | 88.7             | 10.0              | 11.8                     | 84.9               | 82.3        | 5                               | 11.1  | 3                                  | 6.7   |
| Fort Greene              | 179                      | 8.3                          | 10.1  | 28.5           | 20.1                | 83.8             | 15.1              | 8.9                      | 93.3               | 91.1        | 1                               | 5.6   | 1                                  | 5.6   |
| Gravesend                | 249                      | 6.8                          | 16.9  | 26.9           | 35.7                | 88.0             | 10.8              | 9.6                      | 73.9               | 76.7        | 4                               | 16.1  | 4                                  | 16.1  |
| Red Hook-Gowanus         | 71                       | 4.9                          | 28.2  | 35.2           | 28.2                | 84.5             | 7.0               | 8.5                      | 85.9               | 87.3        | 1                               | 14.1  | -                                  | -     |
| Sunset Park              | 265                      | 5.4                          | 9.1   | 55.1           | 57.7                | 84.5             | 5.7               | 5.3                      | 75.1               | 65.3        | 1                               | 3.8   | -                                  | -     |
| Williamsburg-Greenpoint  | 153                      | 5.0                          | 15.7  | 35.9           | 24.2                | 87.6             | 8.5               | 7.2                      | 66.0               | 86.3        | 1                               | 6.5   | 1                                  | 6.5   |
| QUEENS                   | 1,712                    | 6.3                          | 9.1   | 48.5           | 48.5                | 86.2             | 8.6               | 15.5                     | 86.6               | 77.6        | 8                               | 4.7   | 5                                  | 2.9   |
| Astoria-Long Island City | 176                      | 5.6                          | 10.8  | 57.4           | 53.4                | 84.1             | 6.8               | 19.9                     | 81.8               | 87.5        | 2                               | 11.4  | 1                                  | 5.7   |
| Corona                   | 429                      | 7.0                          | 3.0   | 87.4           | 70.4                | 83.9             | 6.3               | 18.6                     | 85.3               | 92.1        | -                               | -     | -                                  | -     |
| Flushing                 | 120                      | 2.7                          | 13.3  | 50.0           | 43.3                | 87.5             | 6.7               | 15.8                     | 85.8               | 84.2        | 2                               | 16.7  | 1                                  | 8.3   |
| Jamaica East             | 398                      | 9.2                          | 5.5   | 19.1           | 34.4                | 88.9             | 12.1              | 11.6                     | 94.7               | 67.8        | 4                               | 10.1  | 3                                  | 7.5   |
| Jamaica West             | 439                      | 8.0                          | 12.3  | 35.3           | 42.1                | 85.9             | 9.8               | 15.0                     | 85.0               | 66.3        | -                               | -     | -                                  | -     |
| Maspeth-Forest Hills     | 150                      | 4.3                          | 21.3  | 42.0           | 40.7                | 87.3             | 6.7               | 12.7                     | 80.0               | 78.7        | -                               | -     | -                                  | -     |
| RICHMOND                 | 315                      | 5.7                          | 14.6  | 32.1           | 36.5                | 80.6             | 13.0              | 6.7                      | 87.6               | 66.7        | 4                               | 12.7  | 3                                  | 9.5   |
| NON-RESIDENTS            | 152                      | 1.5                          | 7.9   | 20.4           | 25.0                | 89.5             | 12.5              | 9.9                      | 66.4               | 59.2        | 2                               | 13.2  | 1                                  | 6.6   |
| RESIDENCE UNKNOWN        | -                        | -                            | -   | -              | -                   | -                | -                 | -                        | -                  | -           | 1                               | -     | 1                                  | -     |

\*Rate per 1,000 live births to teenagers.

Borough totals may be higher than the sum of the health center districts, as they may include some live births whose health center district could not be determined.

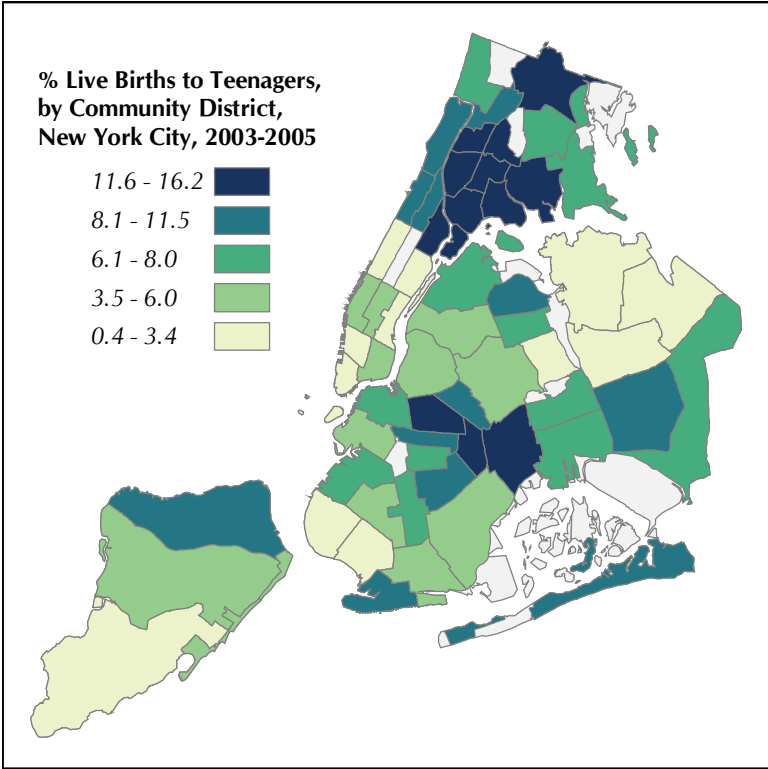
Table 40.

Live Births to Teenagers (Age Under 20) by Selected Characteristics, New York City, 1992-2005

|   | Year    |         |         |         |         |         |         |         |         |         |         |         |         |         |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|   | 1992    | 1993    | 1994    | 1995    | 1996    | 1997    | 1998    | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    | 2005    |
| Total Live Births                                 | 136,002 | 133,583 | 133,662 | 131,009 | 126,901 | 123,313 | 124,252 | 123,739 | 125,563 | 124,023 | 122,937 | 124,345 | 124,099 | 122,725 |
| Percent to Teenagers                              | 10.1    | 10.4    | 10.6    | 10.5    | 10.3    | 9.6     | 9.5     | 9.0     | 8.6     | 8.4     | 7.5     | 7.1     | 7.0     | 7.0     |
| Birth Rate * (Age 15-19)                          | 55.7    | 55.5    | 56.5    | 54.6    | 51.4    | 46.5    | 46.2    | 43.4    | 41.5    | 39.9    | 35.6    | 34.1    | 33.5    | 33.1    |
| Births to Teenagers                               | 13,795  | 13,848  | 14,156  | 13,713  | 13,020  | 11,793  | 11,789  | 11,145  | 10,800  | 10,386  | 9,240   | 8,831   | 8,702   | 8,579   |
| Percent of Births with Specified Characteristics: |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Puerto Rican                                      | 25.9    | 25.6    | 23.4    | 22.2    | 22.3    | 22.2    | 22.5    | 21.3    | 19.6    | 18.1    | 18.4    | 18.3    | 18.7    | 18.4    |
| Other Hispanic                                    | 20.8    | 21.6    | 23.8    | 28.2    | 27.2    | 27.2    | 28.7    | 30.7    | 32.8    | 35.0    | 34.0    | 35.9    | 36.6    | 37.0    |
| Foreign Born Mother                               | 26.9    | 27.9    | 28.6    | 30.8    | 31.3    | 32.5    | 32.1    | 33.5    | 35.1    | 36.5    | 36.4    | 36.4    | 35.8    | 36.1    |
| First Live Birth                                  | 78.2    | 77.9    | 77.5    | 78.2    | 80.2    | 81.5    | 81.8    | 82.2    | 82.9    | 84.4    | 84.0    | 84.4    | 84.8    | 84.8    |
| Under 2,500 Grams                                 | 10.4    | 11.1    | 10.7    | 10.6    | 9.7     | 10.8    | 10.3    | 10.3    | 9.7     | 10.1    | 10.4    | 9.7     | 10.2    | 10.1    |
| Prenatal Care in First 6 Months of Pregnancy      | 65.6    | 66.1    | 69.5    | 71.3    | 71.7    | 67.3    | 68.8    | 69.8    | 77.7    | 80.7    | 83.2    | 85.6    | 86.9    | 86.1    |
| Not Married                                       | 84.2    | 88.1    | 89.8    | 89.3    | 90.8    | 87.3    | 88.6    | 89.0    | 89.1    | 88.1    | 88.4    | 88.6    | 88.5    | 88.7    |
| On Medicaid                                       | 79.2    | 79.4    | 80.6    | 78.6    | 81.5    | 80.2    | 78.5    | 77.7    | 79.3    | 81.7    | 80.1    | 80.5    | 81.6    | 80.0    |
| Infant Mortality Rate**                           | 11.0    | 11.9    | 9.9     | 12.3    | 9.4     | 9.5     | 7.5     | 8.5     | 8.3     | 7.4     | 9.2     | 8.5     | 9.9     | 6.1     |

\*Birth rate per 1,000 women aged 15-19. Intercensal population data for 1992-1999 are interpolated. 2000 census data are used for 2001-2005. See Technical Notes: Population.

\*\*Infant mortality rate per 1,000 live births to teenagers.



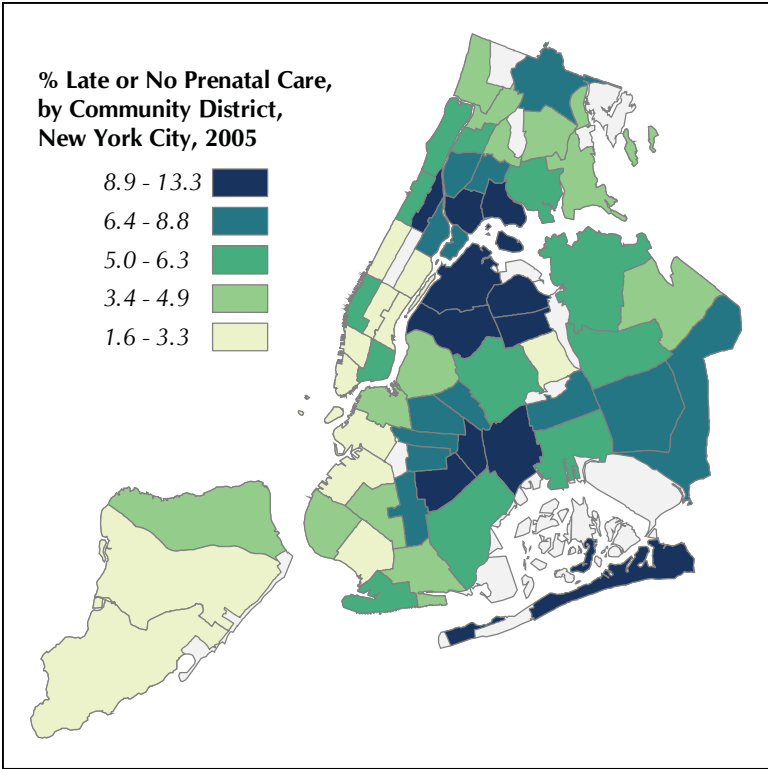
**Map 3. Percent Live Births to Teenagers by Community District of Residence New York City, 2003-2005**

Three year averages were used in this map because of the relatively small number of births per year to teenage mothers in some community districts.

The community district with the highest percent of births to teenagers was Mott Haven at 16.2%. Other community districts in the highest quintile were Hunts Point at 15.2%, Morrisania and East Tremont at 15.1%, Brownsville at 14.6%, East Harlem at 13.8%, University/Morris Heights at 13.0%, Bedford Stuyvesant at 12.9%, Concourse, Highbridge at 12.5%, East New York at 12.3%, Williamsbridge at 11.8%, and Unionport, Soundview at 11.7%.

Seven community districts had less than 2% of their births to teenagers; they were Battery Park, Tribeca at 0.4%, Murray Hill at 0.5%, Greenwich Village, SOHO at 0.9%, Upper East Side at 1.2%, Tottenville at 1.5%, and Rego Park, Forrest Hills and Bayside at 1.6%.

See Table 41 on page 57 for additional rates.

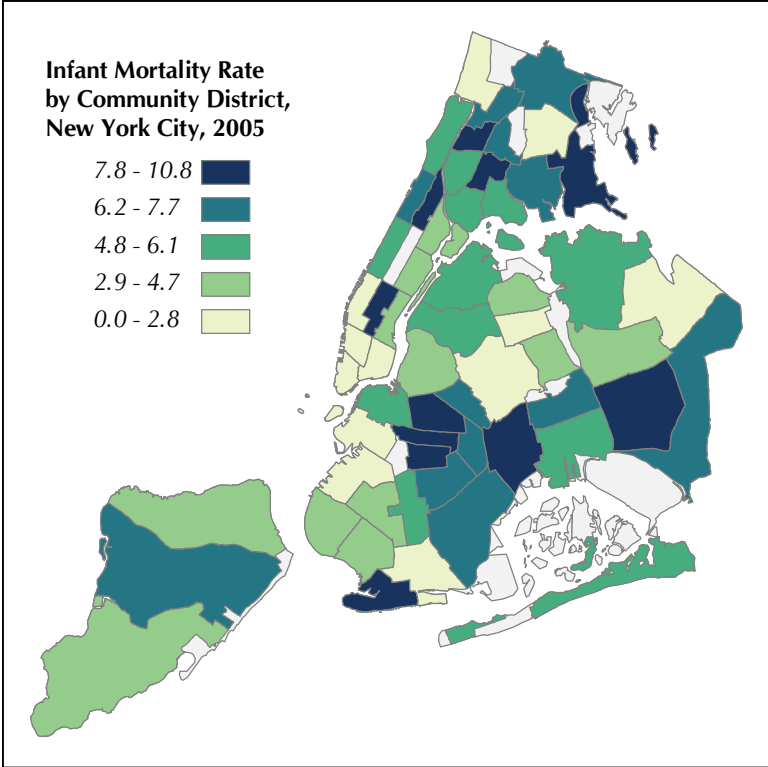


**Map 4. Percent Late or No Prenatal Care by Community District of Residence New York City, 2005**

The community district with the highest percent of births to mothers who received late or no prenatal care was Elmhurst, Corona at 13.3%. Other community districts in the highest quintile were Jackson Heights at 12.8%, Sunnyside, Woodside at 11.5%, Astoria, Long Island City at 11.1%, The Rockaways at 10.9%, Mott Haven at 9.8%, Central Harlem at 9.5%, East Flatbush at 9.4%, Brownsville at 9.3%, East New York at 9.0%, and Hunts Point at 8.9%.

The community district with the lowest percent of births to mothers who received late or no prenatal care was Upper East Side at 1.6%. Other community districts in the lowest quintile are Battery Park, Tribeca and Tottenville at 1.7%, Upper West Side at 2.2%, Park Slope at 2.4%, Sunset Park and Willowbrook, South Beach at 2.5%, Greenwich Village, SOHO at 2.6%, Midtown Business District at 3.1%, Bensonhurst at 3.2%, and Rego Park, Forrest Hills at 3.3%.

See Table 36 on page 49 for additional rates.



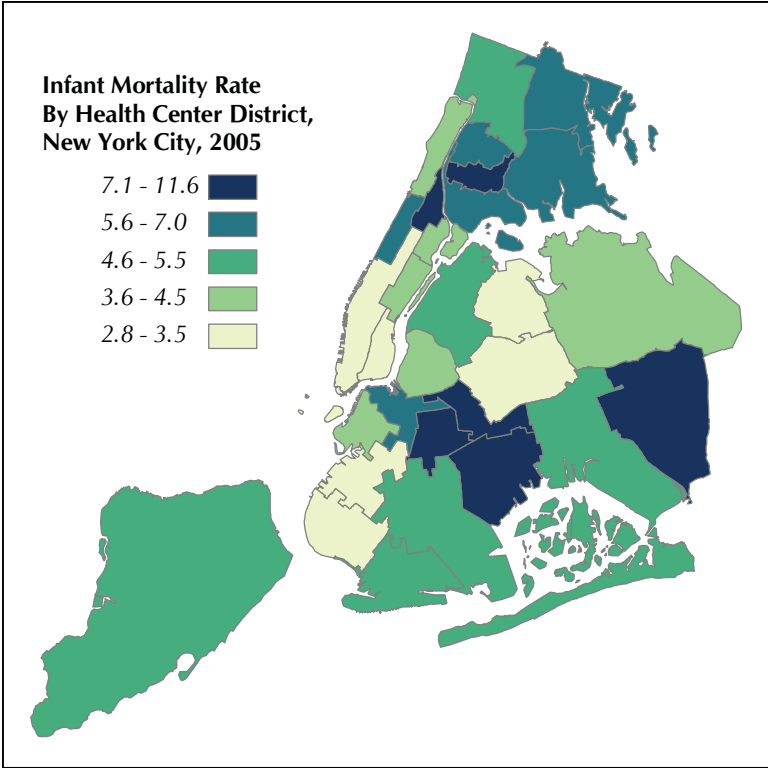
**Map 5. Infant Mortality Rate by Community District of Residence New York City, 2005**

The community district with the highest Infant Mortality Rate (IMR) in 2005 was Morrisania at 10.8 infant deaths per 1,000 live births. Other community districts that fall in the highest quintile are Crown Heights at 10.6, Midtown Business South at 10.4, Coney Island and Bedford Stuyvesant at 10.2, Jamaica, St. Albans and East New York at 10.1, Throgs Neck at 9.8, Crown Heights North at 9.5, University/Morris Heights at 7.9, and Central Harlem at 7.8.

All twenty-four community districts in the two lowest quintiles met the TCNY 2008 goal of 5.0 deaths per 1,000 live births.

Three community districts were below 5.0 but above the Healthy People 2010 goal of 4.5 infant deaths per 1,000 live births. These were Flushing and Concourse, Highbridge at 4.9 and Tottenville at 4.7. The remaining community districts in the lowest two quintiles met the Healthy People 2010 goal of 4.5 infant deaths per 1,000 live births.

See Table 36 on page 49 for additional rates.



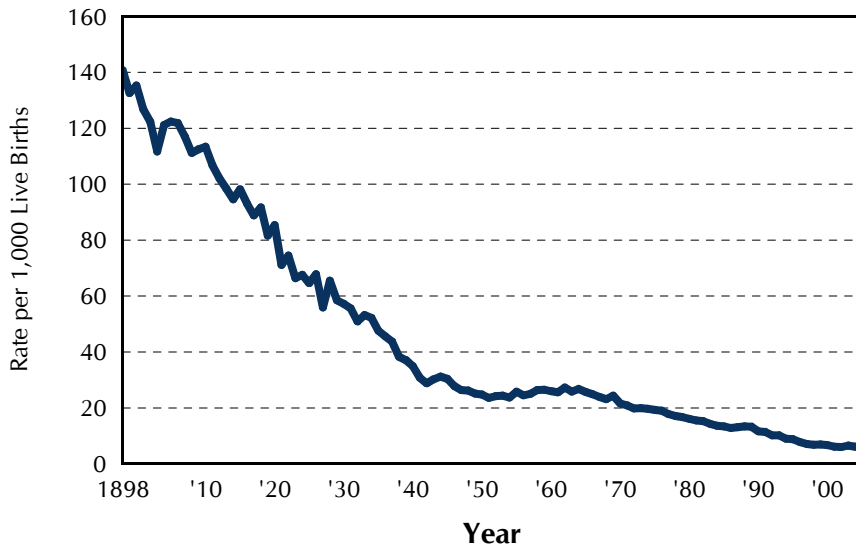
**Map 6. Infant Mortality Rate by Health Center District of Residence New York City, 2005**

The health center district with the highest Infant Mortality Rate (IMR) in 2005 was Bedford at 11.6 infant deaths per 1,000 live births. Other health center districts in the highest quintile were Jamaica East at 10.0, Brownsville at 9.1, Bushwick at 8.7 and Central Harlem and Morrisania at 7.4.

All health center districts falling in the two lowest quintiles have met both the "Take Care New York" (TCNY) 2008 goal and the Healthy People 2010 goal of 5.0 and 4.5 infant deaths per 1,000 live births respectively.

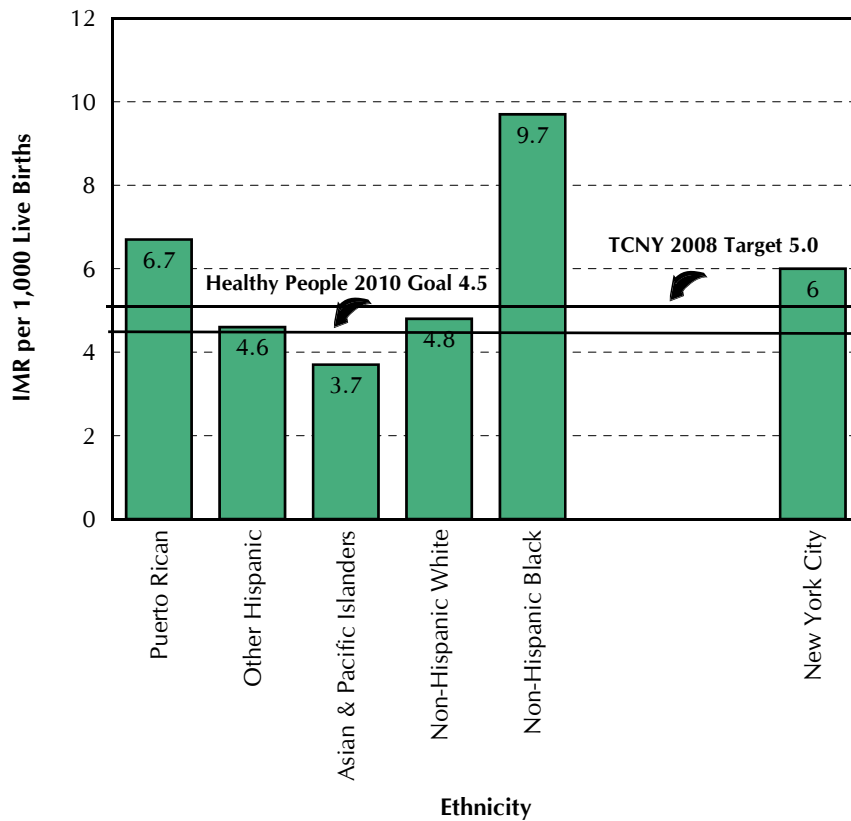
Two health center districts are below 5.0 but above the Healthy People 2010 goal of 4.5 infant deaths per 1,000 live births. These are Fordham-Riverdale at 4.9 and Gravesend at 4.6.

See Table 34 on page 48 for additional rates.



**Figure 25. Infant Mortality Rate  
New York City, 1898 - 2005**

The Infant Mortality Rate (IMR) was first estimated for NYC when its boundaries were extended to include all five boroughs, in 1898. The IMR was estimated at 136.7 deaths under one year of age per 1,000 live births. (Because of incomplete reporting of early neonatal deaths, this is almost certainly an underestimate.) Improvements in food and water safety in the earlier part of the twentieth century, and in access to medical care advances in recent years, have contributed to the decline to 6.0 deaths per 1,000 live births in 2005.



**Figure 26. Infant Mortality Rate by Ethnicity  
New York City, 2005**

The "Take Care New York" (TCNY) 2008 target and the Healthy People 2010 goal for IMR are 5.0 and 4.5 infant deaths per 1,000 live births respectively. This graph shows the IMR varies greatly by ethnicity. Non-Hispanic Whites, Asian & Pacific Islanders and Other Hispanics have already met the TCNY goal in 2005 with IMRs of 4.6, 3.7 and 4.8 deaths per 1,000 live births. However, IMRs remain high among Puerto Ricans at 6.7 deaths per 1,000 live births and Non-Hispanic Blacks at 9.7 deaths per 1,000 live births. The citywide infant mortality rate was 6.0 infant deaths per 1,000 live births in 2005.



Table 41.

**Live Births to Teenagers (Age Under 20) by Selected Characteristics and Infant Deaths  
by Community District of Residence, New York City, 2003-2005\***

| Community District                | Live Births | Percent of Total Live Births | Percent of Live Births with Specified Characteristics |                |              |                  |                   |                          |                    |             | Infant Mortality (Under 1 Year) |        | Neonatal Mortality (Under 28 Days) |        |
|-----------------------------------|-------------|------------------------------|---|----------------|--------------|------------------|-------------------|--------------------------|--------------------|-------------|---------------------------------|--------|------------------------------------|--------|
|                                   |             |                              | Mother's Ancestry                                     |                | Foreign Born | First Live Birth | Under 2,500 Grams | Late or No Prenatal Care | Mother Not Married | On Medicaid | Number                          | Rate** | Number                             | Rate** |
|                                   |             |                              | Puerto Rican  | Other Hispanic |              |                  |                   |                          |                    |             |                                 |        |                                    |        |
| NEW YORK CITY                     | 26,112      | 7.0                          | 18.5  | 36.5           | 36.1         | 84.7             | 10.0              | 10.9                     | 88.6               | 80.7        | 213                             | 8.2    | 141                                | 5.4    |
| MANHATTAN                         | 3,591       | 5.9                          | 20.7  | 46.1           | 33.6         | 82.7             | 10.1              | 10.8                     | 92.5               | 90.4        | 32                              | 8.9    | 19                                 | 5.3    |
| Battery Park, Tribeca (01)        | 8           | 0.4                          | 12.5  | 50.0           | 25.0         | 75.0             | -                 | 12.5                     | 87.5               | 50.0        | -                               | -      | -                                  | -      |
| Greenwich Village, SOHO (02)      | 24          | 0.9                          | 12.5  | 37.5           | 45.8         | 83.3             | -                 | 8.3                      | 83.3               | 87.5        | -                               | -      | -                                  | -      |
| Lower East Side (03)              | 353         | 5.1                          | 45.9  | 17.0           | 22.9         | 83.3             | 11.9              | 8.8                      | 87.8               | 85.8        | 3                               | 8.5    | 2                                  | 5.7    |
| Chelsea, Clinton (04)             | 117         | 4.5                          | 32.5  | 25.6           | 24.8         | 80.3             | 10.3              | 17.1                     | 83.8               | 91.5        | 2                               | 17.1   | 2                                  | 17.1   |
| Midtown Business District (05)    | 67          | 4.6                          | 22.4  | 16.4           | 11.9         | 92.5             | 4.5               | 19.4                     | 98.5               | 92.5        | -                               | -      | -                                  | -      |
| Murray Hill (06)                  | 18          | 0.5                          | 38.9  | 5.6            | 16.7         | 94.4             | 11.1              | 22.2                     | 83.3               | 66.7        | -                               | -      | -                                  | -      |
| Upper West Side (07)              | 201         | 2.3                          | 26.4  | 35.8           | 21.9         | 83.1             | 8.0               | 9.5                      | 96.5               | 83.1        | 1                               | 5.0    | -                                  | -      |
| Upper East Side (08)              | 101         | 1.2                          | 19.8  | 12.9           | 10.9         | 93.1             | 16.8              | 5.9                      | 96.0               | 81.2        | 1                               | 9.9    | 1                                  | 9.9    |
| Manhattanville (09)               | 486         | 10.4                         | 14.2  | 58.6           | 39.5         | 79.4             | 10.9              | 11.1                     | 94.2               | 91.6        | 6                               | 12.3   | 2                                  | 4.1    |
| Central Harlem (10)               | 556         | 11.0                         | 10.6  | 21.0           | 22.7         | 85.6             | 11.7              | 14.6                     | 94.6               | 88.5        | 6                               | 10.8   | 4                                  | 7.2    |
| East Harlem (11)                  | 736         | 13.8                         | 31.0  | 38.3           | 29.5         | 82.3             | 9.9               | 12.1                     | 93.2               | 93.5        | 5                               | 6.8    | 4                                  | 5.4    |
| Washington Heights (12)           | 924         | 10.3                         | 9.6   | 83.5           | 52.4         | 80.8             | 8.7               | 7.3                      | 91.2               | 93.6        | 8                               | 8.7    | 4                                  | 4.3    |
| BRONX                             | 7,603       | 12.0                         | 31.4  | 35.4           | 30.4         | 84.3             | 10.2              | 8.5                      | 92.2               | 79.7        | 63                              | 8.3    | 44                                 | 5.8    |
| Mott Haven (01)                   | 788         | 16.2                         | 41.0  | 33.9           | 24.5         | 83.2             | 11.8              | 11.2                     | 93.5               | 86.2        | 5                               | 6.3    | 3                                  | 3.8    |
| Hunts Point (02)                  | 399         | 15.2                         | 36.6  | 41.6           | 31.6         | 85.2             | 10.0              | 11.3                     | 95.7               | 83.7        | 1                               | 2.5    | 1                                  | 2.5    |
| Morrisania (03)                   | 581         | 15.1                         | 33.4  | 22.9           | 17.2         | 81.4             | 9.8               | 8.1                      | 95.2               | 73.8        | 5                               | 8.6    | 1                                  | 1.7    |
| Concourse, Highbridge (04)        | 1,093       | 12.5                         | 26.3  | 43.7           | 37.5         | 81.9             | 9.8               | 8.9                      | 90.4               | 76.5        | 9                               | 8.2    | 7                                  | 6.4    |
| University/Morris Heights (05)    | 977         | 13.0                         | 27.1  | 43.3           | 31.7         | 84.1             | 10.2              | 5.9                      | 93.6               | 67.3        | 11                              | 11.3   | 7                                  | 7.2    |
| East Tremont (06)                 | 631         | 15.1                         | 37.4  | 32.8           | 25.4         | 81.3             | 10.6              | 7.8                      | 91.9               | 64.5        | 5                               | 7.9    | 4                                  | 6.3    |
| Fordham (07)                      | 785         | 10.5                         | 25.9  | 49.6           | 40.1         | 85.7             | 8.9               | 7.4                      | 88.7               | 85.5        | 7                               | 8.9    | 5                                  | 6.4    |
| Riverdale (08)                    | 220         | 6.5                          | 25.0  | 55.0           | 37.7         | 87.3             | 10.0              | 9.1                      | 88.6               | 85.5        | 1                               | 4.5    | 1                                  | 4.5    |
| Unionport, Soundview (09)         | 917         | 11.7                         | 37.1  | 33.2           | 28.2         | 85.7             | 9.9               | 8.5                      | 93.8               | 86.4        | 9                               | 9.8    | 8                                  | 8.7    |
| Throgs Neck (10)                  | 210         | 7.5                          | 46.2  | 15.7           | 16.7         | 84.3             | 8.6               | 5.2                      | 87.6               | 87.6        | 3                               | 14.3   | 2                                  | 9.5    |
| Pelham Parkway (11)               | 322         | 7.8                          | 30.1  | 29.8           | 32.6         | 83.9             | 8.4               | 10.6                     | 85.7               | 87.3        | 2                               | 6.2    | 2                                  | 6.2    |
| Williamsbridge (12)               | 680         | 11.8                         | 21.6  | 10.9           | 31.9         | 90.0             | 12.1              | 9.3                      | 95.3               | 88.5        | 5                               | 7.4    | 3                                  | 4.4    |
| BROOKLYN                          | 8,541       | 7.3                          | 12.5  | 28.0           | 35.1         | 84.7             | 10.0              | 10.6                     | 85.8               | 83.5        | 64                              | 7.5    | 43                                 | 5.0    |
| Williamsburg, Greenpoint (01)     | 485         | 5.2                          | 18.4  | 39.6           | 24.3         | 87.4             | 8.9               | 8.7                      | 70.3               | 87.0        | 3                               | 6.2    | 3                                  | 6.2    |
| Fort Green, Brooklyn Heights (02) | 208         | 6.3                          | 13.0  | 30.3           | 22.1         | 80.8             | 10.1              | 7.7                      | 90.4               | 89.4        | -                               | -      | -                                  | -      |
| Bedford Stuyvesant (03)           | 861         | 12.9                         | 11.1  | 15.8           | 17.7         | 84.1             | 11.6              | 10.8                     | 94.3               | 87.2        | 6                               | 7.0    | 5                                  | 5.8    |
| Bushwick (04)                     | 732         | 11.5                         | 22.8  | 53.7           | 38.7         | 81.7             | 8.1               | 11.1                     | 94.4               | 91.0        | 4                               | 5.5    | 3                                  | 4.1    |
| East New York (05)                | 1,037       | 12.3                         | 19.5  | 24.5           | 25.5         | 83.4             | 11.5              | 14.1                     | 93.9               | 78.5        | 10                              | 9.6    | 5                                  | 4.8    |
| Park Slope (06)                   | 211         | 4.8                          | 28.9  | 34.1           | 23.7         | 81.5             | 7.1               | 2.8                      | 89.6               | 88.6        | -                               | -      | -                                  | -      |
| Sunset Park (07)                  | 597         | 8.0                          | 17.1  | 68.7           | 59.0         | 82.2             | 7.7               | 5.0                      | 86.9               | 82.2        | 5                               | 8.4    | 4                                  | 6.7    |
| Crown Heights North (08)          | 426         | 9.5                          | 5.4   | 10.6           | 24.4         | 84.3             | 10.8              | 14.8                     | 95.8               | 87.1        | 5                               | 11.7   | 3                                  | 7.0    |
| Crown Heights South (09)          | 363         | 6.9                          | 3.3   | 10.2           | 46.0         | 87.9             | 10.5              | 12.9                     | 93.9               | 89.0        | 3                               | 8.3    | 3                                  | 8.3    |
| Bay Ridge (10)                    | 160         | 3.2                          | 11.3  | 35.0           | 56.3         | 85.0             | 10.0              | 5.6                      | 63.8               | 73.8        | -                               | -      | -                                  | -      |
| Bensonhurst (11)                  | 219         | 3.4                          | 6.4   | 45.7           | 54.3         | 78.5             | 8.2               | 5.5                      | 73.1               | 76.7        | 1                               | 4.6    | 1                                  | 4.6    |
| Borough Park (12)                 | 466         | 3.4                          | 3.6   | 31.3           | 46.8         | 89.1             | 4.9               | 6.4                      | 46.1               | 65.9        | 1                               | 2.1    | -                                  | -      |
| Coney Island (13)                 | 344         | 9.7                          | 21.5  | 32.8           | 33.4         | 88.1             | 12.2              | 7.0                      | 69.2               | 87.2        | 4                               | 11.6   | 3                                  | 8.7    |
| Flatbush, Midwood (14)            | 507         | 6.1                          | 3.6   | 36.7           | 52.5         | 87.2             | 10.3              | 10.5                     | 86.4               | 86.4        | 8                               | 15.8   | 6                                  | 11.8   |
| Sheepshead Bay (15)               | 291         | 4.9                          | 6.5   | 19.2           | 55.7         | 81.4             | 5.8               | 7.9                      | 55.0               | 67.7        | 1                               | 3.4    | 1                                  | 3.4    |
| Brownsville (16)                  | 631         | 14.6                         | 13.8  | 9.8            | 15.5         | 83.5             | 13.9              | 15.5                     | 97.8               | 88.3        | 5                               | 7.9    | 3                                  | 4.8    |
| East Flatbush (17)                | 591         | 8.3                          | 3.2   | 6.6            | 44.8         | 88.8             | 11.3              | 13.5                     | 95.4               | 87.8        | 5                               | 8.5    | 2                                  | 3.4    |
| Canarsie (18)                     | 410         | 5.4                          | 4.9   | 8.0            | 32.0         | 87.3             | 9.8               | 13.4                     | 91.0               | 76.1        | 3                               | 7.3    | 1                                  | 2.4    |
| QUEENS                            | 4,976       | 6.1                          | 8.6   | 48.4           | 50.0         | 86.2             | 9.3               | 16.0                     | 86.9               | 76.1        | 40                              | 8.0    | 25                                 | 5.0    |
| Astoria, Long Island City (01)    | 434         | 6.3                          | 10.1  | 53.9           | 51.4         | 85.3             | 7.6               | 19.4                     | 83.6               | 85.9        | 4                               | 9.2    | 4                                  | 9.2    |
| Sunnyside, Woodside (02)          | 209         | 4.6                          | 6.2   | 79.9           | 65.1         | 87.6             | 4.3               | 18.7                     | 84.7               | 83.7        | 4                               | 19.1   | 1                                  | 4.8    |
| Jackson Heights (03)              | 675         | 8.2                          | 2.8   | 87.6           | 71.4         | 84.4             | 6.5               | 16.6                     | 85.5               | 88.1        | -                               | -      | -                                  | -      |
| Elmhurst, Corona (04)             | 594         | 6.7                          | 3.0   | 85.7           | 76.1         | 84.2             | 7.4               | 19.2                     | 85.0               | 87.0        | 2                               | 3.4    | 2                                  | 3.4    |
| Ridgewood, Glendale (05)          | 332         | 5.3                          | 21.7  | 51.8           | 42.2         | 88.6             | 6.9               | 12.0                     | 84.6               | 81.9        | 2                               | 6.0    | -                                  | -      |
| Rego Park, Forest Hills (06)      | 58          | 1.6                          | 8.6   | 22.4           | 56.9         | 82.8             | 6.9               | 19.0                     | 65.5               | 60.3        | -                               | -      | -                                  | -      |
| Flushing (07)                     | 207         | 2.9                          | 8.2   | 56.5           | 55.1         | 88.4             | 10.6              | 12.6                     | 82.6               | 77.3        | 2                               | 9.7    | 1                                  | 4.8    |
| Fresh Meadows, Briarwood (08)     | 158         | 3.0                          | 13.9  | 32.3           | 42.4         | 89.9             | 10.1              | 8.2                      | 76.6               | 72.8        | 1                               | 6.3    | -                                  | -      |
| Woodhaven (09)                    | 376         | 6.2                          | 14.6  | 44.4           | 52.9         | 87.5             | 11.4              | 11.2                     | 76.6               | 59.6        | 4                               | 10.6   | 2                                  | 5.3    |
| Howard Beach (10)                 | 290         | 6.4                          | 12.1  | 29.7           | 53.4         | 86.2             | 9.0               | 14.5                     | 85.5               | 59.3        | 3                               | 10.3   | 3                                  | 10.3   |
| Bayside (11)                      | 34          | 1.6                          | 8.8   | 47.1           | 38.2         | 85.3             | 2.9               | 14.7                     | 85.3               | 82.4        | -                               | -      | -                                  | -      |
| Jamaica, St. Albans (12)          | 894         | 10.1                         | 5.9   | 18.8           | 32.3         | 86.0             | 12.1              | 14.4                     | 95.1               | 67.7        | 12                              | 13.4   | 9                                  | 10.1   |
| Queens Village (13)               | 315         | 6.0                          | 4.8   | 14.0           | 33.0         | 88.9             | 11.1              | 17.5                     | 94.3               | 67.0        | 3                               | 9.5    | 1                                  | 3.2    |
| The Rockaways (14)                | 400         | 10.4                         | 13.8  | 17.8           | 20.8         | 85.8             | 13.3              | 20.5                     | 94.3               | 76.0        | 3                               | 7.5    | 2                                  | 5.0    |
| STATEN ISLAND                     | 958         | 5.5                          | 16.8  | 30.1           | 33.3         | 84.2             | 10.5              | 7.1                      | 86.6               | 65.1        | 10                              | 10.4   | 8                                  | 8.4    |
| Port Richmond (01)                | 705         | 9.4                          | 17.7  | 37.0           | 37.6         | 82.1             | 10.9              | 7.4                      | 89.1               | 70.5        | 5                               | 7.1    | 4                                  | 5.7    |
| Willowbrook, South Beach (02)     | 168         | 3.9                          | 18.5  | 12.5           | 21.4         | 91.7             | 9.5               | 4.2                      | 81.5               | 52.4        | 4                               | 23.8   | 3                                  | 17.9   |
| Tottenville (03)                  | 81          | 1.5                          | 6.2   | 7.4            | 22.2         | 87.7             | 9.9               | 11.1                     | 77.8               | 46.9        | 1                               | 12.3   | 1                                  | 12.3   |

\*Three years' data were combined because of the relatively small number of infant deaths per year for teenage mothers.

Map of percent of live births to teenagers by community district of residence is presented on page 54 (map 3).

\*\*Rate per 1,000 live births.

Borough totals may be higher than the sum of the community districts, as they may include some live births whose community district could not be determined.

Table 42.

## Live Births and Infant Deaths by Birth Weight, Ethnic Group\*, and Age, New York City, 2005

| Birth Weight in Grams | Live Births |          |             |             |              |             |       | Infant Deaths     |             |             |              |             |       |          |                  |             |              |             |  |  |  |
|-----------------------|-------------|----------|-------------|-------------|--------------|-------------|-------|-------------------|-------------|-------------|--------------|-------------|-------|----------|------------------|-------------|--------------|-------------|--|--|--|
|                       | Total       |          |             |             |              |             |       | Age Under 28 Days |             |             |              |             |       |          | Age Under 7 Days |             |              |             |  |  |  |
|                       | Total       | Hispanic | Non-H White | Non-H Black | Asian & P.I. | Other/ Unk. | Total | Hispanic          | Non-H White | Non-H Black | Asian & P.I. | Other/ Unk. | Total | Hispanic | Non-H White      | Non-H Black | Asian & P.I. | Other/ Unk. |  |  |  |
| Less than 500.....    | 124         | 34       | 23          | 51          | 13           | 3           | 112   | 31                | 23          | 44          | 12           | 2           | 110   | 31       | 23               | 42          | 12           | 2           |  |  |  |
| 500-999.....          | 812         | 213      | 137         | 403         | 52           | 7           | 246   | 65                | 50          | 111         | 15           | 5           | 188   | 53       | 40               | 81          | 10           | 4           |  |  |  |
| 1000-1499.....        | 1,063       | 309      | 219         | 427         | 101          | 7           | 45    | 10                | 11          | 18          | 6            | -           | 27    | 8        | 7                | 7           | 5            | -           |  |  |  |
| 1500-1999.....        | 2,155       | 593      | 560         | 742         | 243          | 17          | 42    | 14                | 8           | 14          | 6            | -           | 26    | 10       | 7                | 6           | 3            | -           |  |  |  |
| 2000-2499.....        | 6,831       | 1,997    | 1,758       | 2,143       | 879          | 54          | 49    | 13                | 13          | 21          | 2            | -           | 27    | 10       | 8                | 8           | 1            | -           |  |  |  |
| Less than 2500.....   | 10,985      | 3,146    | 2,697       | 3,766       | 1,288        | 88          | 494   | 133               | 105         | 208         | 41           | 7           | 378   | 112      | 85               | 144         | 31           | 6           |  |  |  |
| 2500-2999.....        | 24,127      | 7,517    | 6,173       | 6,586       | 3,737        | 114         | 67    | 18                | 15          | 26          | 8            | -           | 29    | 8        | 11               | 5           | 5            | -           |  |  |  |
| 3000-3499.....        | 48,734      | 15,936   | 14,684      | 10,797      | 7,132        | 185         | 71    | 25                | 18          | 23          | 5            | -           | 26    | 6        | 12               | 5           | 3            | -           |  |  |  |
| 3500-3999.....        | 30,419      | 10,121   | 10,588      | 6,062       | 3,555        | 93          | 25    | 2                 | 12          | 10          | 1            | -           | 12    | -        | 8                | 3           | 1            | -           |  |  |  |
| 4000-4499.....        | 7,296       | 2,448    | 2,715       | 1,504       | 611          | 18          | 8     | 4                 | 2           | 2           | -            | -           | 2     | -        | 1                | 1           | -            | -           |  |  |  |
| 4500-4999.....        | 1,051       | 325      | 456         | 190         | 78           | 2           | -     | -                 | -           | -           | -            | -           | -     | -        | -                | -           | -            | -           |  |  |  |
| 5000 & over.....      | 106         | 48       | 25          | 27          | 6            | -           | -     | -                 | -           | -           | -            | -           | -     | -        | -                | -           | -            | -           |  |  |  |
| 2500 & over.....      | 111,733     | 36,395   | 34,641      | 25,166      | 15,119       | 412         | 171   | 49                | 47          | 61          | 14           | -           | 69    | 14       | 32               | 14          | 9            | -           |  |  |  |
| Not stated.....       | 7           | -        | 2           | 3           | -            | 2           | 5     | -                 | 2           | 3           | -            | -           | 5     | -        | 2                | 3           | -            | -           |  |  |  |
| Unmatched**.....      | -           | -        | -           | -           | -            | -           | 62    | 19                | 24          | 10          | 6            | 3           | 29    | 9        | 10               | 5           | 2            | 3           |  |  |  |
| Total.....            | 122,725     | 39,541   | 37,340      | 28,935      | 16,407       | 502         | 732   | 201               | 178         | 282         | 61           | 10          | 481   | 135      | 129              | 166         | 42           | 9           |  |  |  |

\* Ethnic group is defined by mother's information on the infant's birth certificate. However, in the absence of a matching birth certificate for an infant death, the information on the death certificate is used to assign a maternal ethnic group.

\*\*Birth occurred outside of New York City or positive identification of matching birth certificate could not be made.

Table 43.

## Infant Mortality Rates\* by Birth Weight, Ethnic Group, and Age, New York City, 2005

| Birth Weight in Grams | Total |          |             |             |              |       | Age Under 28 Days |             |             |              |       | Age Under 7 Days |             |             |              |  |
|-----------------------|-------|----------|-------------|-------------|--------------|-------|-------------------|-------------|-------------|--------------|-------|------------------|-------------|-------------|--------------|--|
|                       | Total | Hispanic | Non-H White | Non-H Black | Asian & P.I. | Total | Hispanic          | Non-H White | Non-H Black | Asian & P.I. | Total | Hispanic         | Non-H White | Non-H Black | Asian & P.I. |  |
| Less than 500.....    | 903.2 | **       | **          | **          | **           | 887.1 | **                | **          | **          | **           | 838.7 | **               | **          | **          | **           |  |
| 500-999.....          | 303.0 | 305.2    | 365.0       | 275.4       | **           | 231.5 | 248.8             | 292.0       | 201.0       | **           | 183.5 | 225.4            | 211.7       | 153.8       | **           |  |
| 1000-1499.....        | 42.3  | 32.4     | 50.2        | 42.2        | 59.4         | 25.4  | 25.9              | 32.0        | 16.4        | 49.5         | 16.9  | 12.9             | 18.3        | 16.4        | 29.7         |  |
| 1500-1999.....        | 19.5  | 23.6     | 14.3        | 18.9        | 24.7         | 12.1  | 16.9              | 12.5        | 8.1         | 12.3         | 9.7   | 15.2             | 10.7        | 4.0         | 12.3         |  |
| 2000-2499.....        | 7.2   | 6.5      | 7.4         | 9.8         | 2.3          | 4.0   | 5.0               | 4.6         | 3.7         | 1.1          | 3.1   | 4.0              | 4.0         | 2.3         | 1.1          |  |
| Less than 2500.....   | 45.0  | 42.3     | 38.9        | 55.2        | 31.8         | 34.4  | 35.6              | 31.5        | 38.2        | 24.1         | 28.5  | 31.5             | 24.8        | 30.8        | 20.2         |  |
| 2500-2999.....        | 2.8   | 2.4      | 2.4         | 3.9         | 2.1          | 1.2   | 1.1               | 1.8         | 0.8         | 1.3          | 0.8   | 0.8              | 1.0         | 0.6         | 0.8          |  |
| 3000-3499.....        | 1.5   | 1.6      | 1.2         | 2.1         | 0.7          | 0.5   | 0.4               | 0.8         | 0.5         | 0.4          | 0.3   | 0.1              | 0.5         | 0.2         | 0.1          |  |
| 3500-3999.....        | 0.8   | 0.2      | 1.1         | 1.6         | 0.3          | 0.4   | -                 | 0.8         | 0.5         | 0.3          | 0.2   | -                | 0.5         | 0.2         | 0.3          |  |
| 4000-4499.....        | 1.1   | 1.6      | 0.7         | 1.3         | -            | 0.3   | -                 | 0.4         | 0.7         | -            | 0.1   | -                | -           | 0.7         | -            |  |
| 4500-4999.....        | -     | -        | -           | -           | **           | -     | -                 | -           | -           | **           | -     | -                | -           | -           | **           |  |
| 5000 & over.....      | -     | **       | **          | **          | **           | -     | **                | **          | **          | **           | -     | **               | **          | **          | **           |  |
| 2500 & over.....      | 1.5   | 1.3      | 1.4         | 2.4         | 0.9          | 0.6   | 0.4               | 0.9         | 0.6         | 0.6          | 0.4   | 0.2              | 0.5         | 0.3         | 0.3          |  |
| Total.....            | 6.0   | 5.1      | 4.8         | 9.7         | 3.7          | 3.9   | 3.4               | 3.5         | 5.7         | 2.6          | 3.0   | 2.8              | 2.5         | 4.5         | 2.0          |  |

\* Rate per 1,000 live births. Births and deaths included here were registered in 2005 and do not represent a true birth cohort. \*\* Rate not computed where base is less than 100.

Table 44.

## Infant Deaths by Ethnic Group and Cause by Sex and Age, New York City, 2005

|   | Comparability Ratio** | Total | MALE         |              |                | FEMALE       |              |                |
|---|-----------------------|-------|--------------|--------------|----------------|--------------|--------------|----------------|
|   |                       |       | Under 7 Days | 7 to 27 Days | 28 Days & Over | Under 7 Days | 7 to 27 Days | 28 Days & Over |
| Total.....  |                       | 732   | 208          | 58           | 153            | 166          | 49           | 98             |
| Ethnic Group*   |                       |       |              |              |                |              |              |                |
| Hispanic.....   |                       | 201   | 61           | 13           | 37             | 50           | 11           | 29             |
| Non-Hispanic, White.....  |                       | 178   | 46           | 18           | 32             | 48           | 17           | 17             |
| Non-Hispanic, Black.....  |                       | 282   | 81           | 20           | 74             | 49           | 16           | 42             |
| Asian and Pacific Islanders.....  |                       | 61    | 16           | 6            | 9              | 16           | 4            | 10             |
| Other and not stated.....   |                       | 10    | 4            | 1            | 1              | 3            | 1            | -              |
| Cause of Death (ICD-10 Codes)   |                       |       |              |              |                |              |              |                |
| # Diseases of the Circulatory System (I00-I99).....                                   | 0.66                  | 16    | 1            | -            | 8              | -            | -            | 7              |
| # Influenza and Pneumonia (J10-J18).....  | 0.73                  | 10    | -            | -            | 7              | -            | -            | 3              |
| # Newborn Affected by Maternal Complications of Pregnancy (P01).....                  | 1.05                  | 17    | 7            | -            | -              | 9            | 1            | -              |
| # Newborn Affected by Complications of Placenta, Cord and Membranes (P02).....        | 1.02                  | 13    | 6            | -            | -              | 6            | 1            | -              |
| # Short Gestation and Low Birth Weight (P07).....                                     | 1.11                  | 109   | 40           | 2            | 18             | 34           | 5            | 10             |
| # Intrauterine Hypoxia and Birth Asphyxia (P20-P21).....                              | 1.32                  | 14    | 3            | 3            | -              | 5            | 2            | 1              |
| # Respiratory Distress of Newborn (P22).....  | 0.87                  | 53    | 25           | 4            | 1              | 20           | 1            | 2              |
| # Pulmonary Hemorrhage Originating in the Perinatal Period (P26).....                 | 1.53                  | 17    | 11           | 2            | -              | 4            | -            | -              |
| # Atelectasis (P28.0-P28.1).....  | 2.22                  | 6     | 5            | -            | -              | 1            | -            | -              |
| ##Other Respiratory Conditions Originating in the Perinatal Period (P23-P28).....     |                       | 11    | 5            | 1            | 2              | -            | 2            | 1              |
| ##Cardiovascular Disorders Originating in the Perinatal Period (P29).....             |                       | 111   | 56           | 6            | 1              | 41           | 5            | 2              |
| ##Infections Specific to the Perinatal Period (P35-P39).....                          | 1.15                  | 18    | 4            | 6            | 1              | 1            | 5            | 1              |
| # Neonatal Hemorrhage (P50-P52, P54).....   | 1.31                  | 15    | 2            | 2            | 1              | 7            | 2            | 1              |
| # Necrotizing Enterocolitis of Newborn (P77).....                                     | 1.19                  | 15    | -            | 6            | 3              | 1            | 4            | 1              |
| Remainder of Conditions Originating in the Perinatal Period<br>(Rest of P00-P99)..... |                       | 29    | 10           | 5            | 2              | 9            | 2            | 1              |
| # Congenital Malformations, Deformations (Q00-Q99).....                               | 0.93                  | 131   | 30           | 12           | 35             | 25           | 8            | 21             |
| Congenital Malformations of Heart (Q20-Q24).....                                      | 1.01                  | 40    | 4            | 2            | 12             | 7            | 4            | 11             |
| # Sudden Infant Death Syndrome (R95).....   | 1.06                  | 10    | -            | -            | 5              | -            | -            | 5              |
| All Other Diseases (Rest of A00-R99).....   |                       | 71    | 2            | 7            | 38             | -            | 6            | 18             |
| ##External Causes (V01-Y89).....  | 1.00                  | 66    | 1            | 2            | 31             | 3            | 5            | 24             |

# Eligible to be ranked as leading causes nationally and in New York City.

## Contain causes eligible to be ranked as a leading cause nationally but infrequent in New York City; these created groups permit recognition of important causes of infant deaths.

\* Ethnic group is defined by mother's information on the infant's birth certificate. However, in the absence of a matching birth certificate for an infant death, the information on the death certificate is used to assign a maternal ethnic group.

\*\* The comparability ratio represents the net effects of changing from ICD-9 to ICD-10 for the selected cause or group of causes. See Technical Notes: Cause of Death, Comparability Ratio.

Table 45. Infant Mortality Rate (IMR)\* by Mother's Birthplace, New York City, 2001-2005

| Birthplace          | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|------|------|------|------|------|
| Mexico              | 3.3  | 5.2  | 3.8  | 4.7  | 4.4  |
| Dominican Republic  | 5.1  | 3.8  | 5.8  | 4.1  | 5.1  |
| China               | 1.5  | 1.4  | 3.6  | 2.6  | 1.8  |
| Jamaica             | 7.2  | 7.6  | 10.3 | 8.3  | 7.8  |
| Ecuador             | 4.8  | 3.2  | 3.4  | 2.6  | 3.5  |
| Guyana              | 8.0  | 8.5  | 7.8  | 7.4  | 9.2  |
| Trinidad and Tobago | 10.3 | 6.3  | 4.7  | 8.6  | 6.0  |
| Haiti               | 6.7  | 12.9 | 8.7  | 14.3 | 9.2  |
| India               | 5.8  | 1.8  | 3.1  | 4.9  | 5.6  |
| Bangladesh          | 2.8  | 2.7  | 4.0  | 4.5  | 2.6  |
| Israel              | 4.6  | 4.7  | 1.8  | 5.4  | 0.8  |
| Pakistan            | 3.6  | 7.5  | 6.3  | 8.6  | 6.2  |
| Colombia            | 2.9  | 0.8  | 7.8  | 3.4  | 0.9  |
| Korea               | 1.2  | 2.4  | 0.0  | 2.0  | 2.2  |
| Russia              | 1.1  | 1.1  | 2.0  | 4.1  | 4.7  |
| Poland              | 2.8  | 5.7  | 2.6  | 1.2  | 7.4  |
| El Salvador         | 3.7  | 4.0  | 4.0  | 0.0  | 6.2  |
| Honduras            | 4.5  | 9.2  | 4.8  | 2.4  | 5.0  |
| Philippines         | 3.8  | 2.6  | 4.7  | 3.6  | 2.6  |
| Ukraine             | 3.2  | 1.5  | 2.7  | 6.8  | 1.4  |
| Ghana               | 3.5  | 9.0  | 9.3  | 12.2 | 11.3 |
| Nigeria             | 21.5 | 4.2  | 2.6  | 5.6  | 8.9  |
| United Kingdom      | 14.4 | 4.7  | 9.4  | 3.2  | 6.9  |
| Peru                | 8.2  | 1.7  | 3.3  | 3.4  | 3.5  |
| Canada              | **   | **   | **   | 7.1  | 3.8  |
| Guatemala           | **   | **   | **   | **   | 3.9  |
| Egypt               | 3.7  | **   | **   | **   | **   |
| Puerto Rico         | 7.4  | 9.0  | 8.3  | 4.6  | 7.4  |
| United States       | 6.1  | 6.7  | 6.8  | 6.6  | 5.9  |
| New York City Total | 6.1  | 6.0  | 6.5  | 6.1  | 6.0  |

\* IMR per 1,000 Live births.

\*\* Live births are less than 500 in that year. Only countries with 500 or more live births in each year are listed.

Table 46.

**Live Births, Infant and Maternal Mortality by Mother's Ethnic Group  
New York City, 1989 - 2005**

| Mother's Ethnic Group (1)                               | 1989    | 1990    | 1991    | 1992    | 1993    | 1994    | 1995    | 1996    | 1997    | 1998    | 1999    | 2000    | 2001    | 2002**  | 2003    | 2004    | 2005    |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>Live Births, Total</b> . . . . .                     | 137,673 | 139,630 | 138,148 | 136,002 | 133,583 | 133,662 | 131,009 | 126,901 | 123,313 | 124,252 | 123,739 | 125,563 | 124,023 | 122,937 | 124,345 | 124,099 | 122,725 |
| Puerto Rican . . . . .                                  | 19,248  | 19,327  | 18,851  | 17,856  | 16,568  | 15,182  | 13,895  | 12,925  | 12,947  | 13,056  | 12,184  | 11,615  | 10,846  | 10,678  | 10,172  | 10,140  | 9,922   |
| Other Hispanic . . . . .                                | 23,013  | 24,912  | 25,564  | 25,556  | 26,571  | 28,298  | 29,717  | 28,114  | 26,108  | 26,793  | 27,887  | 28,695  | 29,310  | 29,229  | 29,587  | 29,658  | 29,619  |
| Asian and Pacific Islander . . . . .                    | 12,051  | 12,394  | 12,602  | 12,688  | 10,742  | 11,268  | 11,647  | 12,782  | 13,226  | 13,132  | 13,768  | 15,106  | 14,662  | 15,396  | 16,577  | 16,736  | 16,407  |
| Other White . . . . .                                   | 39,362  | 38,906  | 37,464  | 37,102  | 38,403  | 38,203  | 36,711  | 37,215  | 37,006  | 36,957  | 36,369  | 36,752  | 36,581  | 36,445  | 38,018  | 37,659  | 37,340  |
| Other Black . . . . .                                   | 43,069  | 42,844  | 41,486  | 40,662  | 39,768  | 39,195  | 37,217  | 34,798  | 33,500  | 33,675  | 32,960  | 32,879  | 32,123  | 30,690  | 29,646  | 29,449  | 28,935  |
| Other & Unknown . . . . .                               | 930     | 1,247   | 2,181   | 2,138   | 1,531   | 1,516   | 1,822   | 1,067   | 526     | 639     | 571     | 516     | 501     | 499     | 345     | 457     | 502     |
| <b>Infant Deaths (Under 1 Year) (2) Total</b> . . . . . | 1,827   | 1,620   | 1,575   | 1,390   | 1,366   | 1,207   | 1,155   | 992     | 881     | 843     | 848     | 839     | 760     | 742     | 807     | 760     | 732     |
| Puerto Rican . . . . .                                  | 257     | 238     | 211     | 194     | 178     | 120     | 146     | 112     | 96      | 85      | 95      | 98      | 74      | 83      | 81      | 76      | 66      |
| Other Hispanic . . . . .                                | 219     | 195     | 187     | 170     | 196     | 174     | 197     | 164     | 141     | 129     | 156     | 140     | 151     | 150     | 164     | 133     | 135     |
| Asian and Pacific Islander . . . . .                    | 93      | 67      | 76      | 73      | 61      | 57      | 57      | 56      | 51      | 49      | 55      | 59      | 46      | 39      | 58      | 69      | 61      |
| Other White . . . . .                                   | 321     | 300     | 278     | 227     | 244     | 223     | 204     | 197     | 189     | 201     | 167     | 165     | 154     | 148     | 146     | 131     | 178     |
| Other Black . . . . .                                   | 911     | 797     | 777     | 676     | 646     | 598     | 522     | 448     | 385     | 363     | 350     | 366     | 322     | 311     | 336     | 342     | 282     |
| Other & Unknown . . . . .                               | 26      | 23      | 46      | 50      | 41      | 35      | 29      | 15      | 19      | 16      | 25      | 11      | 13      | 11      | 22      | 9       | 10      |
| <b>Infant Mortality Rate (3) Total</b> . . . . .        | 13.3    | 11.6    | 11.4    | 10.2    | 10.2    | 9.0     | 8.8     | 7.8     | 7.1     | 6.8     | 6.9     | 6.7     | 6.1     | 6.0     | 6.5     | 6.1     | 6.0     |
| Puerto Rican . . . . .                                  | 13.4    | 12.3    | 11.2    | 10.9    | 10.7    | 7.9     | 10.5    | 8.7     | 7.4     | 6.5     | 7.8     | 8.4     | 6.8     | 7.8     | 8.0     | 7.5     | 6.7     |
| Other Hispanic . . . . .                                | 9.5     | 7.8     | 7.3     | 6.7     | 7.4     | 6.1     | 6.6     | 5.8     | 5.4     | 4.8     | 5.6     | 4.9     | 5.2     | 5.1     | 5.5     | 4.5     | 4.6     |
| Asian and Pacific Islander . . . . .                    | 7.7     | 5.4     | 6.0     | 5.8     | 5.7     | 5.1     | 4.9     | 4.4     | 3.9     | 3.7     | 4.0     | 3.9     | 3.1     | 2.5     | 3.5     | 4.1     | 3.7     |
| Other White . . . . .                                   | 8.2     | 7.7     | 7.4     | 6.1     | 6.4     | 5.8     | 5.6     | 5.3     | 5.1     | 5.4     | 4.6     | 4.5     | 4.2     | 4.1     | 3.8     | 3.5     | 4.8     |
| Other Black . . . . .                                   | 21.2    | 18.6    | 18.7    | 16.6    | 16.2    | 15.3    | 14.0    | 12.9    | 11.5    | 10.8    | 10.6    | 11.1    | 10.0    | 10.1    | 11.3    | 11.6    | 9.7     |
| <b>Neonatal Deaths (Under 28 Days) Total</b> . . . . .  | 1,253   | 1,091   | 1,089   | 941     | 917     | 804     | 811     | 656     | 605     | 593     | 606     | 583     | 524     | 497     | 542     | 516     | 481     |
| Puerto Rican . . . . .                                  | 172     | 155     | 138     | 138     | 108     | 67      | 113     | 72      | 60      | 60      | 74      | 59      | 54      | 59      | 51      | 47      | 42      |
| Other Hispanic . . . . .                                | 153     | 136     | 136     | 120     | 136     | 122     | 143     | 113     | 107     | 92      | 113     | 94      | 112     | 106     | 110     | 92      | 93      |
| Asian and Pacific Islander . . . . .                    | 60      | 44      | 45      | 50      | 38      | 42      | 44      | 35      | 37      | 34      | 39      | 45      | 29      | 26      | 43      | 45      | 42      |
| Other White . . . . .                                   | 238     | 222     | 201     | 157     | 177     | 158     | 146     | 139     | 130     | 139     | 120     | 119     | 102     | 100     | 99      | 89      | 129     |
| Other Black . . . . .                                   | 610     | 518     | 533     | 436     | 425     | 389     | 342     | 283     | 257     | 252     | 236     | 257     | 215     | 196     | 221     | 237     | 166     |
| <b>Neonatal Mortality Rate (3) Total</b> . . . . .      | 9.1     | 7.8     | 7.9     | 6.9     | 6.9     | 6.0     | 6.2     | 5.2     | 4.9     | 4.8     | 4.9     | 4.6     | 4.2     | 4.0     | 4.4     | 4.2     | 3.9     |
| Puerto Rican . . . . .                                  | 8.9     | 8.0     | 7.3     | 7.7     | 6.5     | 4.4     | 8.1     | 5.6     | 4.6     | 4.6     | 6.1     | 5.1     | 5.0     | 5.5     | 5.0     | 4.6     | 4.2     |
| Other Hispanic . . . . .                                | 6.6     | 5.5     | 5.3     | 4.7     | 5.1     | 4.3     | 4.8     | 4.0     | 4.1     | 3.4     | 4.1     | 3.3     | 3.8     | 3.6     | 3.7     | 3.1     | 3.1     |
| Asian and Pacific Islander . . . . .                    | 5.0     | 3.6     | 3.6     | 3.9     | 3.5     | 3.7     | 3.8     | 2.7     | 2.8     | 2.6     | 2.8     | 3.0     | 2.0     | 1.7     | 2.6     | 2.7     | 2.6     |
| Other White . . . . .                                   | 6.0     | 5.7     | 5.4     | 4.2     | 4.6     | 4.1     | 4.0     | 3.7     | 3.5     | 3.8     | 3.3     | 3.2     | 2.8     | 2.7     | 2.6     | 2.4     | 3.5     |
| Other Black . . . . .                                   | 14.2    | 12.1    | 12.8    | 10.7    | 10.7    | 9.9     | 9.2     | 8.1     | 7.7     | 7.5     | 7.2     | 7.8     | 6.7     | 6.4     | 7.5     | 8.0     | 5.7     |
| <b>Maternal Causes, Total *</b> . . . . .               | 29      | 35      | 24      | 30      | 20      | 29      | 26      | 22      | 17      | 16      | 24      | 30      | 41      | 31      | 22      | 28      | 21      |
| Puerto Rican . . . . .                                  | 4       | 1       | 4       | 2       | 2       | 4       | 3       | 1       | 1       | 1       | 1       | -       | 2       | -       | 1       | -       | -       |
| Other Hispanic . . . . .                                | 2       | 4       | 2       | 3       | 2       | 5       | 7       | 4       | 2       | 2       | 3       | 7       | 7       | 6       | 1       | 8       | 5       |
| Asian and Pacific Islander . . . . .                    | 1       | 1       | -       | 1       | -       | 2       | 1       | 1       | 1       | 1       | 1       | 1       | -       | -       | 1       | 4       | 1       |
| Other White . . . . .                                   | 2       | 2       | 2       | 6       | -       | 6       | -       | 4       | 2       | 2       | 6       | 2       | 4       | 7       | 3       | 1       | 2       |
| Other Black . . . . .                                   | 20      | 25      | 15      | 16      | 14      | 12      | 14      | 11      | 11      | 10      | 12      | 20      | 27      | 17      | 16      | 15      | 13      |
| <b>Maternal Mortality Ratio (4) Total</b> . . . . .     | 21.1    | 25.1    | 17.4    | 22.1    | 15.0    | 21.7    | 19.8    | 17.3    | 13.8    | 12.9    | 19.4    | 23.9    | 33.1    | 25.2    | 17.7    | 22.6    | 17.1    |
| Puerto Rican . . . . .                                  | 20.8    | 5.2     | 21.2    | 11.2    | 12.1    | 26.3    | 21.6    | 7.7     | 7.7     | 7.7     | 8.2     | -       | 18.4    | -       | 9.8     | -       | -       |
| Other Hispanic . . . . .                                | 8.7     | 16.1    | 7.8     | 11.7    | 7.5     | 17.7    | 23.6    | 14.2    | 7.7     | 7.5     | 10.8    | 24.4    | 23.9    | 20.5    | 3.4     | 27.0    | 16.9    |
| Asian and Pacific Islander . . . . .                    | 8.3     | 8.1     | -       | 7.9     | -       | 17.7    | 8.6     | 7.8     | 7.6     | 7.6     | 7.3     | 6.6     | -       | -       | 6.0     | 23.9    | 6.1     |
| Other White . . . . .                                   | 5.1     | 5.1     | 5.3     | 16.2    | -       | 15.7    | -       | 10.7    | 5.4     | 5.4     | 16.5    | 5.4     | 10.9    | 19.2    | 7.9     | 2.7     | 5.4     |
| Other Black . . . . .                                   | 46.4    | 58.4    | 36.2    | 39.3    | 35.2    | 30.6    | 37.6    | 31.6    | 32.8    | 29.7    | 36.4    | 60.8    | 84.1    | 55.4    | 54.0    | 50.9    | 44.9    |

\* Includes deaths while pregnant or within 42 days of termination. See Technical Notes: Maternal Death and Maternal Mortality.

\*\* A cause of death coding error was found for 2002. As a result, death of maternal cause was reduced by one, meanwhile HIV disease death increased by one.

(1) Puerto Rican and other Hispanic ethnicities were based on ancestry, regardless of race. Prior to 1993, Asian ethnicity was based on ancestry; beginning in 1993, Asian ethnicity has been based on race.

Those of other ancestries are classified as Other White, Other Black, Other and Unknown based on race. See Technical Notes: Race, Ancestry, Ethnicity, and Birthplace.

(2) In the absence of a matching birth certificate for an infant death, the information on the death certificate is used to assign a maternal ethnic group. The assignment for the years 1992-1996 was corrected in 1997, resulting in infant mortality rates for other whites and other blacks slightly higher than those published previously, and in fewer infant deaths with mother's ethnic group unknown.

(3) Rate per 1,000 live births.

(4) Ratio per 100,000 live births.

Table 47.

## Cases of Selected Reportable Diseases, New York City, 1940-2005

| Year      | Tuberculosis | Measles | Rubella | West Nile Virus* | Pertussis | Meningococcal Meningitis | Scarlet Fever | Encephalitis | Hepatitis A** | Hepatitis B** | Syphilis |                     | Gonorrhea |
|-----------|--------------|---------|---------|------------------|-----------|--------------------------|---------------|--------------|---------------|---------------|----------|---------------------|-----------|
|           |              |         |         |                  |           |                          |               |              |               |               | Total    | Primary & Secondary |           |
| 1940      | 9,005        | 10,496  | 988     |                  | 5,775     | 48                       | 13,569        | 28           |               |               | 30,178   | 3,113               | 14,639    |
| 1941-1945 | 8,608        | 24,890  | 7,360   |                  | 5,706     | 705                      | 8,111         | 42           |               |               | 25,773   | 4,124               | 13,955    |
| 1946-1950 | 7,862        | 17,348  | 2,442   |                  | 2,574     | 145                      | 3,579         | 55           |               |               | 24,144   | 2,686               | 21,522    |
| 1951-1955 | 7,002        | 20,025  | 3,956   |                  | 1,726     | 135                      | 2,253         | 256          |               |               | 22,046   | 685                 | 12,468    |
| 1956-1960 | 5,472        | 18,170  | 3,893   |                  | 966       | 73                       | 2,125         | 197          |               |               | 15,124   | 1,242               | 13,270    |
| 1961-1965 | 4,427        | 12,279  | 5,744   |                  | 253       | 58                       | 1,442         | 172          |               |               | 19,052   | 3,259               | 23,005    |
| 1966-1970 | 3,194        | 3,508   | 1,402   |                  | 164       | 78                       | 733           | 72           |               |               | 12,529   | 2,587               | 32,640    |
| 1971      | 2,572        | 3,819   | 626     |                  | 55        | 60                       | 614           | 19           |               |               | 11,642   | 3,854               | 38,472    |
| 1972      | 2,275        | 447     | 271     |                  | 79        | 44                       | 445           | 11           |               |               | 10,390   | 4,106               | 48,414    |
| 1973      | 2,101        | 965     | 502     |                  | 77        | 37                       | 708           | 26           |               |               | 7,334    | 3,256               | 45,467    |
| 1974      | 2,022        | 651     | 173     |                  | 75        | 26                       | 402           | 17           |               |               | 7,593    | 3,184               | 42,071    |
| 1975      | 2,151        | 170     | 193     |                  | 40        | 32                       | 463           | 14           |               |               | 7,236    | 2,864               | 39,981    |
| 1976      | 2,151        | 497     | 163     |                  | 43        | 51                       | 609           | 20           |               |               | 6,832    | 2,494               | 40,589    |
| 1977      | 1,605        | 804     | 336     |                  | 47        | 64                       | 583           | 20           | 566           | 670           | 4,749    | 1,881               | 39,302    |
| 1978      | 1,307        | 405     | 152     |                  | 54        | 88                       | 271           | 30           | 499           | 493           | 5,567    | 2,060               | 40,208    |
| 1979      | 1,530        | 859     | 290     |                  | 44        | 91                       | 312           | 17           | 386           | 488           | 6,680    | 2,552               | 40,034    |
| 1980      | 1,514        | 1,210   | 105     |                  | 30        | 110                      | 319           | 15           | 364           | 562           | 5,906    | 2,387               | 43,699    |
| 1981      | 1,582        | 108     | 55      |                  | 25        | 91                       | 464           | 20           | 606           | 879           | 6,878    | 2,568               | 45,859    |
| 1982      | 1,594        | 49      | 36      |                  | 53        | 104                      | 583           | 21           | 689           | 1,117         | 7,296    | 2,602               | 46,960    |
| 1983      | 1,651        | 72      | 87      |                  | 61        | 89                       | 454           | 14           | 507           | 1,327         | 6,822    | 2,473               | 46,117    |
| 1984      | 1,629        | 113     | 111     |                  | 20        | 75                       | 427           | 9            | 560           | 1,528         | 6,796    | 2,285               | 48,032    |
| 1985      | 1,843        | 181     | 184     |                  | 26        | 70                       | 409           | 18           | N.A.          | N.A.          | 6,947    | 2,157               | 58,532    |
| 1986      | 2,223        | 944     | 2       |                  | 10        | 81                       | N.A.          | 21           | N.A.          | N.A.          | 6,465    | 2,111               | 69,998    |
| 1987      | 2,197        | 449     | 3       |                  | 15        | 57                       | 206           | 8            | 172           | 1,213         | 10,472   | 4,452               | 84,022    |
| 1988      | 2,317        | 57      | 7       |                  | 11        | 66                       | 81            | 6            | 368           | 1,307         | 11,966   | 5,042               | 52,404    |
| 1989      | 2,545        | 135     | 16      |                  | 19        | 50                       | 108           | 9            | 502           | 1,418         | 13,748   | 4,362               | 40,533    |
| 1990      | 3,520        | 1,108   | 4       |                  | 21        | 79                       | 175           | 12           | 791           | 674           | 16,195   | 4,265               | 35,236    |
| 1991      | 3,673        | 1,909   | 2       |                  | 22        | 30                       | 325           | 5            | 1,283         | 440           | 14,895   | 3,133               | 28,945    |
| 1992      | 3,811        | 68      | 0       |                  | 24        | 28                       | 258           | 9            | 883           | 439           | 13,439   | 2,246               | 21,709    |
| 1993      | 3,235        | 19      | 22      |                  | 116       | 40                       | 267           | 5            | 1,028         | 472           | 10,476   | 1,129               | 18,477    |
| 1994      | 2,995        | 15      | 1       |                  | 223       | 40                       | 335           | 11           | 942           | 544           | 7,640    | 626                 | 19,246    |
| 1995      | 2,445        | 5       | 6       |                  | 36        | 54                       | 211           | 8            | 1,008         | 494           | 7,577    | 362                 | 16,361    |
| 1996      | 2,053        | 12      | 5       |                  | 62        | 56                       | 164           | 4            | 619           | 495           | 5,670    | 138                 | 12,998    |
| 1997      | 1,730        | 13      | 25      |                  | 42        | 57                       | 218           | 14           | 920           | 460           | 4,889    | 97                  | 14,556    |
| 1998      | 1,558        | 0       | 17      |                  | 12        | 35                       | 527           | 14           | 575           | 415           | 4,503    | 82                  | 12,100    |
| 1999      | 1,460        | 3       | 6       | 46               | 7         | 59                       | 310           | 143          | 412           | 305           | 3,682    | 130                 | 12,207    |
| 2000      | 1,332        | 13      | 8       | 14               | 11        | 46                       | 350           | 178          | 550           | 571           | 2,661    | 117                 | 11,669    |
| 2001      | 1,261        | 7       | 6       | 9                | 6         | 42                       | 481           | 172          | 454           | 666           | 3,267    | 282                 | 12,614    |
| 2002      | 1,084        | 6       | 2       | 29               | 5         | 31                       | 881           | 211          | 469           | 721           | 3,444    | 434                 | 12,811    |
| 2003      | 1,140        | 5       | 2       | 30               | 28        | 45                       | 994           | 169          | 448           | 211           | 3,767    | 531                 | 13,468    |
| 2004      | 1,039        | 5       | 2       | 2                | 61        | 31                       | 597           | 183          | 354           | 163           | 3,674    | 621                 | 10,860    |
| 2005      | 984          | 6       | 1       | 11               | 40        | 27                       | 812           | 214          | 277           | 134           | 3,182    | 616                 | 10,596    |

Note: Figures for single years from 1941 to 1955 appear in the annual summaries for 1995 and earlier.

Polio cases are no longer in this table due to their low occurrences.

\* In the 1999 West Nile viral disease data, both hospitalized cases (n=44) and milder illness cases (n=2) are included. Beginning in 2000, only hospitalized cases of West Nile encephalitis or aseptic meningitis are included. There were two WNV deaths in 2005. See Table 4.

\*\* Accurate diagnosis of Hepatitis A&B based on laboratory testing became available in 1977. Clinically defined cases of Hepatitis reported earlier appear in the annual summaries of 1998 and earlier. The way of counting Hepatitis B beginning 2003 was changed so that the cases counted are newly acquired cases of Hepatitis B. The numbers are probable or definite new cases. Source of data: Bureaus of Communicable Disease, Immunization, and Tuberculosis Control, New York City Department of Health and Mental Hygiene.

Table 48. Incidence of AIDS By Sex, Major Risk Group, and Year of Diagnosis, New York City, 1980-2005

| Sex/Risk Group                   | 1980-1992 | 1993  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  | 2005  |
|----------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Male</b>                      |           |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Sex with Men                     | 22,166    | 3,587 | 3,607 | 2,793 | 2,031 | 1,496 | 1,151 | 1,139 | 1,269 | 1,157 | 995   | 1,280 | 1,150 | 1,134 |
| Injection Drug Use History (IDU) | 20,687    | 4,891 | 4,397 | 3,546 | 2,665 | 1,930 | 1,357 | 1,255 | 1,215 | 838   | 591   | 655   | 555   | 449   |
| Heterosexual Transmission        | 321       | 236   | 349   | 422   | 414   | 377   | 339   | 310   | 391   | 386   | 347   | 311   | 273   | 256   |
| Perinatal                        | 653       | 101   | 84    | 61    | 75    | 29    | 23    | 22    | 20    | 22    | 21    | 16    | 22    | 13    |
| Other                            | 295       | 38    | 59    | 51    | 44    | 31    | 33    | 11    | 24    | 16    | *     | 7     | 6     | *     |
| Unknown/Under Investigation      | 2,230     | 664   | 1,004 | 1,431 | 1,470 | 1,246 | 961   | 987   | 1,444 | 1,321 | 1,180 | 1,282 | 926   | 943   |
| Total                            | 46,352    | 9,517 | 9,500 | 8,304 | 6,699 | 5,109 | 3,864 | 3,724 | 4,363 | 3,740 | 3,134 | 3,551 | 2,932 | 2,795 |
| <b>Female</b>                    |           |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Injection Drug Use History (IDU) | 6,389     | 1,742 | 1,595 | 1,367 | 1,052 | 819   | 580   | 504   | 550   | 361   | 242   | 251   | 236   | 183   |
| Heterosexual Transmission        | 2,823     | 1,081 | 1,167 | 1,167 | 1,071 | 953   | 753   | 680   | 744   | 637   | 530   | 617   | 502   | 531   |
| Perinatal                        | 624       | 100   | 97    | 79    | 51    | 51    | 22    | 18    | 19    | 35    | 19    | 16    | 16    | 24    |
| Other                            | 179       | 24    | 30    | 37    | 38    | 31    | 28    | 15    | 20    | 11    | *     | 9     | 8     | 7     |
| Unknown/Under Investigation      | 770       | 222   | 271   | 403   | 445   | 430   | 387   | 421   | 728   | 753   | 703   | 811   | 615   | 549   |
| Total                            | 10,785    | 3,169 | 3,160 | 3,053 | 2,657 | 2,284 | 1,770 | 1,638 | 2,061 | 1,797 | 1,494 | 1,704 | 1,377 | 1,294 |

Note: The risk groups were changed beginning 2003 to separate "Perinatal" and "Unknown/Under Investigation" from "Other" category. Beginning 2005, "Probable Heterosexuals" were taken out from "Male Heterosexual Transmission" and put in "Unknown/Under Investigation" category.

To be classified as having AIDS, an HIV-infected person must meet CDC case-surveillance criteria. These include the presence of opportunistic illness or CD4+ lymphocyte count below 200. For further information telephone the HIV Epidemiology Program, (212) 442-3388. Figures include reports through September 30, 2006. Data for recent years are incomplete due to reporting lag. Cells representing 1-5 person(s) are marked with an asterisk (\*).

Source of data: HIV Epidemiology Program, Bureau of HIV/AIDS, New York City Department of Health and Mental Hygiene.

**Table 49. Marriages, Births, Deaths, and Infant Deaths by Month and Average per Day  
New York City, 2005**

| MONTHS    | NUMBER    |         |        |               | AVERAGE PER DAY |        |        |               |
|-----------|-----------|---------|--------|---------------|-----------------|--------|--------|---------------|
|           | MARRIAGES | BIRTHS  | DEATHS | INFANT DEATHS | MARRIAGES       | BIRTHS | DEATHS | INFANT DEATHS |
| January   | 4,229     | 10,125  | 5,936  | 65            | 136             | 327    | 191    | 2.1           |
| February  | 4,755     | 9,315   | 4,720  | 46            | 170             | 333    | 169    | 1.6           |
| March     | 5,473     | 10,361  | 5,109  | 61            | 177             | 334    | 165    | 2.0           |
| April     | 5,541     | 10,110  | 4,714  | 59            | 185             | 337    | 157    | 2.0           |
| May       | 6,056     | 10,116  | 4,724  | 56            | 195             | 326    | 152    | 1.8           |
| June      | 6,454     | 10,320  | 4,508  | 72            | 215             | 344    | 150    | 2.4           |
| July      | 6,011     | 10,561  | 4,401  | 66            | 194             | 341    | 142    | 2.1           |
| August    | 7,077     | 10,872  | 4,393  | 63            | 228             | 351    | 142    | 2.0           |
| September | 6,141     | 10,439  | 4,169  | 59            | 205             | 348    | 139    | 2.0           |
| October   | 5,244     | 10,474  | 4,683  | 80            | 169             | 338    | 151    | 2.6           |
| November  | 4,726     | 9,955   | 4,755  | 53            | 158             | 332    | 159    | 1.8           |
| December  | 4,641     | 10,077  | 4,956  | 52            | 150             | 325    | 160    | 1.7           |
| Total     | 66,348    | 122,725 | 57,068 | 732           | 182             | 336    | 156    | 2.0           |

Source of data: Number of marriages is provided by New York City Office of City Clerk.

**Table 50. Most Popular Baby Names by Sex  
New York City, Selected Years**

| Rank | GIRLS     |           |          |           |           |           |           |          |          |          |          |          |
|------|-----------|-----------|----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|
|      | 1898      | 1928      | 1948     | 1980      | 1985      | 1990      | 1995      | 2000     | 2002     | 2003     | 2004     | 2005     |
| 1    | Mary      | Mary      | Linda    | Jennifer  | Jennifer  | Stephanie | Ashley    | Ashley   | Ashley   | Emily    | Emily    | Emily    |
| 2    | Catherine | Marie     | Mary     | Jessica   | Jessica   | Jessica   | Jessica   | Samantha | Emily    | Ashley   | Ashley   | Ashley   |
| 3    | Margaret  | Annie     | Barbara  | Melissa   | Christina | Ashley    | Amanda    | Kayla    | Kayla    | Kayla    | Kayla    | Kayla    |
| 4    | Annie     | Margaret  | Patricia | Nicole    | Stephanie | Jennifer  | Samantha  | Emily    | Brianna  | Sarah    | Sarah    | Sarah    |
| 5    | Rose      | Catherine | Susan    | Michelle  | Melissa   | Amanda    | Stephanie | Brianna  | Samantha | Samantha | Samantha | Isabella |
| 6    | Marie     | Gloria    | Kathleen | Elizabeth | Nicole    | Samantha  | Jennifer  | Sarah    | Sarah    | Brianna  | Isabella | Samantha |
| 7    | Esther    | Helen     | Carol    | Lisa      | Elizabeth | Nicole    | Nicole    | Jessica  | Nicole   | Isabella | Brianna  | Sophia   |
| 8    | Sarah     | Teresa    | Nancy    | Christina | Amanda    | Christina | Sarah     | Nicole   | Jessica  | Nicole   | Sophia   | Nicole   |
| 9    | Frances   | Joan      | Margaret | Tiffany   | Danielle  | Melissa   | Michelle  | Michelle | Michelle | Rachel   | Nicole   | Olivia   |
| 10   | Ida       | Barbara   | Diane    | Maria     | Lauren    | Michelle  | Emily     | Amanda   | Isabella | Jessica  | Olivia   | Rachel   |

| Rank | BOYS    |         |         |             |             |             |             |             |             |             |              |             |
|------|---------|---------|---------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|
|      | 1898    | 1928    | 1948    | 1980        | 1985        | 1990        | 1995        | 2000        | 2002        | 2003        | 2004         | 2005        |
| 1    | John    | John    | Robert  | Michael     | Michael     | Michael     | Michael     | Michael     | Michael     | Michael     | Michael      | Michael     |
| 2    | William | William | John    | David       | Christopher | Christopher | Christopher | Justin      | Justin      | Justin      | Daniel       | Daniel      |
| 3    | Charles | Joseph  | James   | Jason       | Daniel      | Jonathan    | Kevin       | Christopher | Daniel      | Daniel      | Matthew      | Joshua      |
| 4    | George  | James   | Michael | Joseph      | David       | Anthony     | Daniel      | Matthew     | Matthew     | Matthew     | Justin       | David       |
| 5    | Joseph  | Richard | William | Christopher | Anthony     | David       | Jonathan    | Daniel      | Christopher | Christopher | Joshua       | Justin      |
| 6    | Edward  | Edward  | Richard | Anthony     | Joseph      | Daniel      | Joseph      | Anthony     | Joseph      | Anthony     | David        | Matthew     |
| 7    | James   | Robert  | Joseph  | John        | Jonathan    | Joseph      | Anthony     | Joshua      | Anthony     | David       | Anthony      | Anthony     |
| 8    | Louis   | Thomas  | Thomas  | Daniel      | Jason       | Matthew     | Matthew     | David       | Joshua      | Joshua      | Christopher* | Christopher |
| 9    | Francis | George  | Stephen | Robert      | John        | John        | David       | Joseph      | Nicholas    | Joseph      | Joseph*      | Joseph      |
| 10   | Samuel  | Louis   | David   | James       | Robert      | Andrew      | Justin      | Kevin       | David       | Kevin       | Ryan         | Nicholas    |

**Table 51. Most Popular Baby Names by Sex and Mother's Ethnic Group  
New York City, 2005**

| Rank | GIRLS      |           |          |              | BOYS        |             |           |              |
|------|------------|-----------|----------|--------------|-------------|-------------|-----------|--------------|
|      | HISPANIC   | BLACK     | WHITE    | ASIAN & P.I. | HISPANIC    | BLACK       | WHITE     | ASIAN & P.I. |
| 1    | Ashley     | Kayla     | Sarah    | Emily        | Angel       | Joshua      | Michael   | Ryan         |
| 2    | Emily      | Jada      | Julia    | Sophia       | Anthony     | Elijah      | Joseph    | Jason*       |
| 3    | Isabella   | Madison   | Esther   | Nicole       | Christopher | Justin      | Daniel    | Kevin*       |
| 4    | Jennifer   | Destiny   | Sophia   | Michelle     | Justin      | Jayden      | Nicholas  | Daniel       |
| 5    | Mia        | Brianna   | Ava      | Rachel       | Joshua      | Isaiah      | Matthew   | Justin       |
| 6    | Brianna    | Ashley    | Chaya*   | Tiffany      | David       | Michael     | Jacob     | Eric         |
| 7    | Kayla*     | Aaliyah   | Emma*    | Chloe        | Daniel      | Jaden       | David     | Ethan        |
| 8    | Samantha*  | Gabrielle | Olivia*  | Jessica      | Kevin       | Christopher | Alexander | Andrew       |
| 9    | Kimberly** | Chelsea   | Isabella | Ashley       | Michael     | Christian   | Jack      | Brian        |
| 10   | Nicole**   | Alyssa*   | Emily    | Sarah        | Jonathan    | Tyler       | John      | David**      |
|      |            | Taylor*   |          |              |             |             |           | Vincent**    |

\*, \*\* Tied ranks.

Note: Persons of Hispanic ethnicity may be of any race.

Mothers of other and unknown ethnicities not shown. See Technical Notes: Race, Ancestry, Ethnicity, and Birthplace.

**Table 52. Live Births by Borough and Institution, New York City, 2005**

| Borough and Institution  | Births         |
|--|----------------|
| <b>Manhattan</b>   |                |
| Allen Pavilion . . . . .   | 2,396          |
| Bellevue Hospital Center . . . . .   | 2,014          |
| Beth Israel Medical Center . . . . .   | 3,756          |
| Columbia Presbyterian Medical Center . . . . .                                 | 3,840          |
| Harlem Hospital Center . . . . .   | 1,024          |
| Lenox Hill Hospital . . . . .  | 4,135          |
| Metropolitan Hospital Center . . . . .   | 1,900          |
| Mount Sinai Hospital . . . . .   | 5,276          |
| New York Downtown Hospital . . . . .   | 2,388          |
| New York Weill Cornell Medical Center . . . . .                                | 5,051          |
| North General Hospital . . . . .   | 1              |
| NYU Hospital Center - Tisch Hospital . . . . .                                 | 4,046          |
| St. Luke's - Roosevelt Hospital Center / Roosevelt Hospital Division. . . . .  | 4,298          |
| St. Luke's - Roosevelt Hospital Center / St. Luke's Hospital Division. . . . . | 980            |
| St. Vincent's Hospital Manhattan . . . . .                                     | 1,553          |
| *Home . . . . .  | 53             |
| <b>Bronx</b>   |                |
| Bronx Lebanon Hospital Center . . . . .  | 2,891          |
| Jack D. Weiler Hospital of the Albert Einstein College of Medicine . . . . .   | 4,572          |
| Jacobi Medical Center . . . . .  | 2,238          |
| Lincoln Medical and Mental Health Center . . . . .                             | 2,421          |
| North Central Bronx Hospital . . . . .   | 1,743          |
| Our Lady of Mercy Medical Center . . . . .                                     | 1,668          |
| St. Barnabas Hospital . . . . .  | 1,294          |
| Women's Health & Birthing Center . . . . .                                     | 120            |
| *Home . . . . .  | 8              |
| **Foundling . . . . .  | 1              |
| <b>Brooklyn</b>  |                |
| Brookdale University Hospital and Medical Center . . . . .                     | 1,828          |
| Brooklyn Birthing Center . . . . .   | 59             |
| Brooklyn Hospital Center . . . . .   | 2,517          |
| Coney Island Hospital . . . . .  | 992            |
| Interfaith Medical Center . . . . .  | 2              |
| Kings County Hospital Center . . . . .   | 2,144          |
| Kingsbrook Jewish Medical Center . . . . .                                     | 1              |
| Long Island College Hospital . . . . .   | 2,761          |
| Lutheran Medical Center . . . . .  | 3,905          |
| Maimonides Medical Center . . . . .  | 6,709          |
| New York Methodist Hospital . . . . .  | 5,032          |
| St. Mary's Hospital . . . . .  | 1              |
| University Hospital of Brooklyn . . . . .                                      | 1,689          |
| Victory Memorial Hospital . . . . .  | 1,126          |
| Woodhull Medical and Mental Health Center . . . . .                            | 1,566          |
| Wyckoff Heights Medical Center . . . . .                                       | 1,794          |
| *Home . . . . .  | 110            |
| **Foundling . . . . .  | 1              |
| <b>Queens</b>  |                |
| Elmhurst Hospital Center . . . . .   | 4,000          |
| Flushing Hospital Medical Center . . . . .                                     | 2,089          |
| Forest Hills Hospital . . . . .  | 1,886          |
| Jamaica Hospital Medical Center . . . . .                                      | 2,937          |
| Long Island Jewish Medical Center . . . . .                                    | 5,424          |
| Mary Immaculate Hospital . . . . .   | 1              |
| New York Hospital Medical Center of Queens . . . . .                           | 3,784          |
| Queens Hospital Center . . . . .   | 1,809          |
| St. John's Episcopal Hospital . . . . .  | 1,028          |
| St. John's Queens Hospital . . . . .   | 1,674          |
| *Home . . . . .  | 27             |
| <b>Staten Island</b>   |                |
| St. Vincent's Staten Island Hospital . . . . .                                 | 3,144          |
| Staten Island University Hospital . . . . .                                    | 3,016          |
| *Home . . . . .  | 2              |
| <b>New York City Total . . . . .</b>   | <b>122,725</b> |

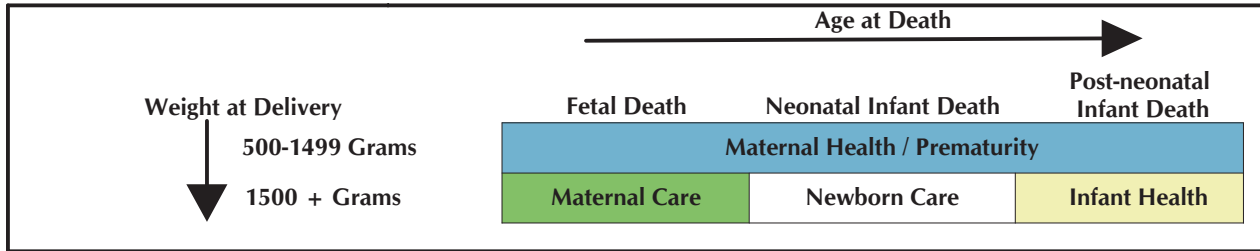
\* Births occurred at home that certificates were not filed by the hospitals where infants were taken to.

\*\* Abandoned infants whose record of birth was filed by the Administration for Children's Services.

## Perinatal Periods of Risk (PPOR) Approach to Understand Fetal-Infant Mortality

Perinatal Periods of Risk (PPOR) provides a broader measure than the infant mortality rate because it includes the high risk period when late fetal deaths occur. Through identification of the most vulnerable “periods of risk” by weight of infant and timing of death, the PPOR enables us to better comprehend fetal-infant mortality rates, the various factors that contribute to those rates, and in turn, to help design appropriately targeted interventions and prevention strategies<sup>1</sup>.

**Figure 27. Components of Perinatal Periods of Risk**



The PPOR methodology identifies “periods of risk” for the mother, fetus and infant (see Figure 27 above). Deaths in each “period” are likely to share common risk factors, which could be prevented by similar interventions. The PPOR defines these periods through the examination of fetal-infant mortality. Fetal and infant deaths are classified by both age-at-death displayed as “Fetal Death”, “Neonatal Infant Death” and “Post-neonatal Infant Death” and birthweight displayed as “500-1499 Grams” and “1500 + Grams” in Figure 27 above. The definition of fetal deaths for the computation and interpretation of PPOR are those spontaneous terminations that occurred after 24 weeks of gestational age; induced terminations are not included in PPOR analysis. Neonatal deaths are those that occurred between birth and 28 days; and post-neonatal deaths are those that occurred between 28 days and under one year of age. Fetal deaths are included in the PPOR model because fetal deaths and some infant deaths have similar causes. The determination of “fetal” versus “infant” death can be difficult to ascertain and is often inconsistent. Factors causing death during the fetal period of risk may go undetected when relying only on the neonatal mortality or infant mortality rate<sup>2</sup>. From an intervention standpoint, risks that affect late fetal deaths and early infant death may be the same and therefore may be dealt with using the same intervention. Inclusion of fetal deaths, therefore, provides a more complete description of perinatal health.

The four “Periods of Risk” are: Maternal Health/Prematurity, Maternal Care, Newborn Care, and Infant Health.

- 1) The Maternal Health/Prematurity period includes fetal and infant deaths with a weight of 500-1499 grams who died due to maternal conditions that occurred prior to conception or during early pregnancy (e.g., smoking, hypertension).
- 2) The Maternal Care period includes fetal deaths with a weight of 1500 grams or greater and a gestational age of 24 weeks or greater, who died due to issues related to prenatal and obstetric care (e.g., medical management of diabetes, early/adequate prenatal care).
- 3) The Newborn Care period includes infant deaths with a weight of 1500 grams or greater who died in the neonatal period due to factors such as congenital anomalies and lack of advanced neonatal care and treatment.
- 4) The Infant Health period includes infants who died in the post-neonatal period with a weight of 1500 grams or greater. Most deaths in this period are due to Sudden Infant Death Syndrome (SIDS), infection, or injury.

The PPOR technique calculates fetal-infant mortality rates<sup>3</sup> overall and for each period of risk. Additionally, the PPOR approach is used to better understand the racial/ethnic disparities in fetal-infant mortality rates as well as variation by other maternal and infant characteristics (e.g., maternal age, place of residence). The PPOR model can help researchers and program developers target interventions to those most vulnerable.

1. PPOR was originally used by the World Health Organization (WHO) in developing and developed countries before it was tested in U.S. urban settings. In 1996, CityMatch (University of Nebraska), the Centers for Disease Control and Prevention, March of Dimes, and the Health Resources and Services Administration made this approach available as a tool to understand fetal-infant mortality.

2. The total fetal-infant mortality rate used in PPOR is different than the infant mortality rate (IMR) because the IMR does not include fetal deaths but does include all infant deaths, including those under 500 grams.

3. See page 69 for rate calculation.



**Table 53. Fetal-infant Mortality Rate (per 1,000 births) and Perinatal Periods of Risk Components by Year and Ethnicity, 2001-2005**

| Year                          | Maternal Health/<br>Prematurity |      | Maternal Care |      | Newborn Care |      | Infant Health |      | Total fetal-infant<br>Mortality |      |
|-------------------------------|---------------------------------|------|---------------|------|--------------|------|---------------|------|---------------------------------|------|
|                               | Number                          | Rate | Number        | Rate | Number       | Rate | Number        | Rate | Number                          | Rate |
| 2001                          | 489                             | 3.9  | 234           | 1.9  | 126          | 1.0  | 141           | 1.1  | 990                             | 8.0  |
| 2002                          | 459                             | 3.7  | 235           | 1.9  | 131          | 1.1  | 153           | 1.2  | 978                             | 7.9  |
| 2003                          | 470                             | 3.8  | 218           | 1.7  | 136          | 1.1  | 148           | 1.2  | 972                             | 7.8  |
| 2004                          | 479                             | 3.8  | 225           | 1.8  | 136          | 1.1  | 137           | 1.1  | 977                             | 7.8  |
| 2005                          | 451                             | 3.7  | 222           | 1.8  | 122          | 1.0  | 140           | 1.1  | 935                             | 7.6  |
| Mother's Ethnicity, 2001-2005 |                                 |      |               |      |              |      |               |      |                                 |      |
| Puerto Rican                  | 204                             | 3.9  | 80            | 1.5  | 69           | 1.3  | 86            | 1.7  | 439                             | 8.5  |
| Other Hispanic                | 463                             | 3.1  | 278           | 1.9  | 147          | 1.0  | 136           | 0.9  | 1,024                           | 6.9  |
| Asian and Pacific Islander    | 172                             | 2.2  | 93            | 1.2  | 66           | 0.8  | 49            | 0.6  | 380                             | 4.8  |
| Non-Hispanic White            | 404                             | 2.2  | 234           | 1.3  | 160          | 0.9  | 119           | 0.6  | 917                             | 4.9  |
| Non-Hispanic Black            | 1,066                           | 7.0  | 428           | 2.8  | 204          | 1.3  | 327           | 2.2  | 2,025                           | 13.4 |
| Other or Unknown              | 39                              | -    | 21            | -    | 5            | -    | 2             | -    | 67                              | -    |
| NEW YORK CITY . . . . .       | 2,348                           | 3.8  | 1,134         | 1.8  | 651          | 1.0  | 719           | 1.2  | 4,852                           | 7.8  |

When applying the PPOR approach in New York City (Table 53), a decline in the overall fetal-infant mortality rate is observed from 2001 to 2005. The highest rates for these years occurred in the Maternal Health/Prematurity period. The bottom half of Table 53 provides fetal-infant mortality by ethnic group. Non-Hispanic Black had the highest total fetal-infant mortality rate at 13.4, followed by Puerto Rican at 8.5, Other Hispanic at 6.9, Non-Hispanic White at 4.9, and Asian and Pacific Islander at 4.8. For all ethnic groups, the Maternal Health/Prematurity period contributes the most to the overall fetal-infant mortality rate. Using the principles of the PPOR model, interventions to further reduce fetal and infant mortality in New York City may need to focus on improving women’s health before pregnancy, including access to primary and preconception care, particularly among minority women.

Table 53a on the next page provides fetal-infant mortality by NYC borough and community health district and indicates that The Bronx had the highest total fetal-infant mortality rate at 9.2, followed by Brooklyn at 8.7, Queens and Staten Island at 6.4, and Manhattan at 6.1. Community districts that have a fetal-infant mortality rate greater than 10 include Crown Heights North and Bedford Stuyvesant at 13.4, East Flatbush at 12.8, Brownsville at 12.1, Morrisania at 11.9, Unionport, Soundview at 11.1, The Rockaways and Crown Heights South at 11.0, and Williamsbridge and East New York at 10.6.

For further information on PPOR, see [www.citymatch.org](http://www.citymatch.org)

**Table 53a. Fetal-infant Mortality Rate (per 1,000 births) and Perinatal Periods of Risk Components by Community District of Residence, 2001-2005**

| Community District                | Maternal Health/<br>Prematurity |            | Maternal Care |            | Newborn Care |            | Infant Health |            | Total fetal-infant<br>Mortality |            |
|-----------------------------------|---------------------------------|------------|---------------|------------|--------------|------------|---------------|------------|---------------------------------|------------|
|                                   | Number                          | Rate       | Number        | Rate       | Number       | Rate       | Number        | Rate       | Number                          | Rate       |
| <b>MANHATTAN</b>                  | <b>281</b>                      | <b>2.8</b> | <b>139</b>    | <b>1.4</b> | <b>101</b>   | <b>1.0</b> | <b>91</b>     | <b>0.9</b> | <b>612</b>                      | <b>6.1</b> |
| Battery Park, Tribeca (01)        | 4                               | 1.5        | 0             | 0.0        | 1            | 0.4        | 0             | 0.0        | 5                               | 1.8        |
| Greenwich Village, SOHO (02)      | 5                               | 1.2        | 3             | 0.7        | 0            | 0.0        | 1             | 0.2        | 9                               | 2.2        |
| Lower East Side (03)              | 29                              | 2.6        | 15            | 1.3        | 19           | 1.7        | 8             | 0.7        | 71                              | 6.3        |
| Chelsea, Clinton (04)             | 12                              | 2.9        | 3             | 0.7        | 2            | 0.5        | 3             | 0.7        | 20                              | 4.8        |
| Midtown Business District (05)    | 4                               | 1.7        | 4             | 1.7        | 2            | 0.9        | 6             | 2.6        | 16                              | 7.0        |
| Murray Hill (06)                  | 10                              | 1.6        | 11            | 1.7        | 4            | 0.6        | 4             | 0.6        | 29                              | 4.6        |
| Upper West Side (07)              | 28                              | 2.0        | 18            | 1.3        | 14           | 1.0        | 6             | 0.4        | 66                              | 4.7        |
| Upper East Side (08)              | 24                              | 1.7        | 13            | 0.9        | 10           | 0.7        | 4             | 0.3        | 51                              | 3.6        |
| Manhattanville (09)               | 30                              | 3.8        | 16            | 2.0        | 11           | 1.4        | 14            | 1.8        | 71                              | 9.1        |
| Central Harlem (10)               | 46                              | 5.3        | 14            | 1.6        | 9            | 1.0        | 11            | 1.3        | 80                              | 9.3        |
| East Harlem (11)                  | 35                              | 3.8        | 19            | 2.1        | 12           | 1.3        | 18            | 2.0        | 84                              | 9.2        |
| Washington Heights (12)           | 54                              | 3.5        | 23            | 1.5        | 17           | 1.1        | 16            | 1.0        | 110                             | 7.1        |
| <b>BRONX</b>                      | <b>483</b>                      | <b>4.5</b> | <b>210</b>    | <b>2.0</b> | <b>129</b>   | <b>1.2</b> | <b>155</b>    | <b>1.5</b> | <b>977</b>                      | <b>9.2</b> |
| Mott Haven (01)                   | 32                              | 4.0        | 11            | 1.4        | 8            | 1.0        | 12            | 1.5        | 63                              | 7.9        |
| Hunts Point (02)                  | 15                              | 3.3        | 9             | 2.0        | 3            | 0.7        | 7             | 1.6        | 34                              | 7.5        |
| Morrisania (03)                   | 31                              | 4.7        | 17            | 2.6        | 14           | 2.1        | 16            | 2.4        | 78                              | 11.9       |
| Concourse, Highbridge (04)        | 69                              | 4.7        | 31            | 2.1        | 19           | 1.3        | 21            | 1.4        | 140                             | 9.6        |
| University/Morris Heights (05)    | 52                              | 4.0        | 31            | 2.4        | 13           | 1.0        | 32            | 2.5        | 128                             | 9.9        |
| East Tremont (06)                 | 36                              | 5.1        | 10            | 1.4        | 11           | 1.5        | 6             | 0.8        | 63                              | 8.9        |
| Fordham (07)                      | 39                              | 3.1        | 22            | 1.7        | 11           | 0.9        | 17            | 1.3        | 89                              | 7.1        |
| Riverdale (08)                    | 24                              | 4.2        | 4             | 0.7        | 4            | 0.7        | 3             | 0.5        | 35                              | 6.2        |
| Unionport, Soundview (09)         | 82                              | 6.2        | 30            | 2.3        | 15           | 1.1        | 21            | 1.6        | 148                             | 11.1       |
| Throgs Neck (10)                  | 22                              | 4.6        | 9             | 1.9        | 3            | 0.6        | 6             | 1.3        | 40                              | 8.4        |
| Pelham Parkway (11)               | 28                              | 4.1        | 18            | 2.6        | 7            | 1.0        | 4             | 0.6        | 57                              | 8.3        |
| Williamsbridge (12)               | 53                              | 5.5        | 18            | 1.9        | 21           | 2.2        | 10            | 1.0        | 102                             | 10.6       |
| <b>BROOKLYN</b>                   | <b>825</b>                      | <b>4.2</b> | <b>399</b>    | <b>2.0</b> | <b>210</b>   | <b>1.1</b> | <b>272</b>    | <b>1.4</b> | <b>1706</b>                     | <b>8.7</b> |
| Williamsburg, Greenpoint (01)     | 38                              | 2.5        | 21            | 1.4        | 12           | 0.8        | 7             | 0.5        | 78                              | 5.0        |
| Fort Green, Brooklyn Heights (02) | 28                              | 5.1        | 10            | 1.8        | 8            | 1.4        | 5             | 0.9        | 51                              | 9.2        |
| Bedford Stuyvesant (03)           | 72                              | 6.4        | 39            | 3.5        | 18           | 1.6        | 22            | 2.0        | 151                             | 13.4       |
| Bushwick (04)                     | 46                              | 4.3        | 24            | 2.3        | 15           | 1.4        | 19            | 1.8        | 104                             | 9.8        |
| East New York (05)                | 80                              | 5.6        | 32            | 2.2        | 17           | 1.2        | 23            | 1.6        | 152                             | 10.6       |
| Park Slope (06)                   | 26                              | 3.6        | 9             | 1.2        | 7            | 1.0        | 10            | 1.4        | 52                              | 7.2        |
| Sunset Park (07)                  | 42                              | 3.5        | 24            | 2.0        | 13           | 1.1        | 13            | 1.1        | 92                              | 7.6        |
| Crown Heights North (08)          | 48                              | 6.4        | 21            | 2.8        | 11           | 1.5        | 21            | 2.8        | 101                             | 13.4       |
| Crown Heights South (09)          | 46                              | 5.2        | 27            | 3.1        | 9            | 1.0        | 15            | 1.7        | 97                              | 11.0       |
| Bay Ridge (10)                    | 19                              | 2.3        | 9             | 1.1        | 5            | 0.6        | 6             | 0.7        | 39                              | 4.8        |
| Bensonhurst (11)                  | 22                              | 2.0        | 16            | 1.5        | 15           | 1.4        | 10            | 0.9        | 63                              | 5.8        |
| Borough Park (12)                 | 45                              | 2.0        | 34            | 1.5        | 18           | 0.8        | 21            | 0.9        | 118                             | 5.3        |
| Coney Island (13)                 | 29                              | 4.9        | 6             | 1.0        | 8            | 1.3        | 13            | 2.2        | 56                              | 9.4        |
| Flatbush, Midwood (14)            | 58                              | 4.0        | 37            | 2.6        | 16           | 1.1        | 19            | 1.3        | 130                             | 9.0        |
| Sheepshead Bay (15)               | 30                              | 3.1        | 16            | 1.6        | 4            | 0.4        | 5             | 0.5        | 55                              | 5.6        |
| Brownsville (16)                  | 40                              | 5.5        | 17            | 2.3        | 11           | 1.5        | 20            | 2.7        | 88                              | 12.1       |
| East Flatbush (17)                | 86                              | 7.0        | 32            | 2.6        | 15           | 1.2        | 25            | 2.0        | 158                             | 12.8       |
| Canarsie (18)                     | 70                              | 5.4        | 25            | 1.9        | 8            | 0.6        | 18            | 1.4        | 121                             | 9.4        |
| <b>QUEENS</b>                     | <b>407</b>                      | <b>3.0</b> | <b>221</b>    | <b>1.6</b> | <b>110</b>   | <b>0.8</b> | <b>138</b>    | <b>1.0</b> | <b>876</b>                      | <b>6.4</b> |
| Astoria, Long Island City (01)    | 45                              | 3.9        | 21            | 1.8        | 5            | 0.4        | 12            | 1.0        | 83                              | 7.2        |
| Sunnyside, Woodside (02)          | 11                              | 1.5        | 9             | 1.2        | 4            | 0.5        | 5             | 0.7        | 29                              | 3.8        |
| Jackson Heights (03)              | 28                              | 2.0        | 25            | 1.8        | 9            | 0.7        | 8             | 0.6        | 70                              | 5.1        |
| Elmhurst, Corona (04)             | 41                              | 2.8        | 15            | 1.0        | 15           | 1.0        | 13            | 0.9        | 84                              | 5.6        |
| Ridgewood, Glendale (05)          | 26                              | 2.5        | 15            | 1.5        | 10           | 1.0        | 7             | 0.7        | 58                              | 5.6        |
| Rego Park, Forest Hills (06)      | 11                              | 1.8        | 6             | 1.0        | 4            | 0.7        | 4             | 0.7        | 25                              | 4.1        |
| Flushing (07)                     | 16                              | 1.3        | 12            | 1.0        | 6            | 0.5        | 11            | 0.9        | 45                              | 3.7        |
| Fresh Meadows, Briarwood (08)     | 19                              | 2.1        | 12            | 1.4        | 7            | 0.8        | 13            | 1.5        | 51                              | 5.7        |
| Woodhaven (09)                    | 29                              | 2.8        | 25            | 2.4        | 15           | 1.5        | 13            | 1.3        | 82                              | 8.0        |
| Howard Beach (10)                 | 22                              | 2.9        | 10            | 1.3        | 2            | 0.3        | 4             | 0.5        | 38                              | 5.0        |
| Bayside (11)                      | 4                               | 1.1        | 5             | 1.4        | 1            | 0.3        | 3             | 0.9        | 13                              | 3.7        |
| Jamaica, St. Albans (12)          | 68                              | 4.5        | 35            | 2.3        | 18           | 1.2        | 24            | 1.6        | 145                             | 9.7        |
| Queens Village (13)               | 49                              | 5.5        | 18            | 2.0        | 8            | 0.9        | 8             | 0.9        | 83                              | 9.3        |
| The Rockaways (14)                | 38                              | 6.0        | 13            | 2.0        | 6            | 0.9        | 13            | 2.0        | 70                              | 11.0       |
| <b>STATEN ISLAND</b>              | <b>103</b>                      | <b>3.6</b> | <b>34</b>     | <b>1.2</b> | <b>24</b>    | <b>0.8</b> | <b>23</b>     | <b>0.8</b> | <b>184</b>                      | <b>6.4</b> |
| Port Richmond (01)                | 55                              | 4.4        | 16            | 1.3        | 9            | 0.7        | 14            | 1.1        | 94                              | 7.5        |
| Willowbrook, South Beach (02)     | 24                              | 3.3        | 10            | 1.4        | 8            | 1.1        | 5             | 0.7        | 47                              | 6.5        |
| Tottenville (03)                  | 24                              | 2.7        | 8             | 0.9        | 7            | 0.8        | 4             | 0.4        | 43                              | 4.8        |

Borough totals may be higher than the sum of the community districts, as they may include some live births whose community district could not be determined.

The printed version of this table in the 2004 Annual Summary has been updated. See 2004 Annual Summary at <http://www.nyc.gov/html/doh/html/vs.shtml>.

**Special Section A: World Trade Center Operational Statistics**  
 (Source: New York City Office of Chief Medical Examiner, as of November 27, 2006)

**Table 1. Death Certification**

|   |       |
|---|-------|
| Total reported missing                      | 2,749 |
| New York City death certificates issued     | 2,746 |
| Non-New York City death certificates issued | 3     |
| DX (judicial decree) certificate only       | 1,150 |
| DM (physical remains) certificates          | 1,596 |
| DM certificate only                         | 399   |
| DM after DX*                                | 1,197 |

Note: For detailed information about World Trade Center Disaster deaths, see Special Section in Summary of Vital Statistics, 2002, pages 49-54. The number of deaths reported by October 31, 2003 was actually final.

\* The family first obtained a DX certificate; later Office of Chief Medical Examiner identified remains and issued a physical remains certificate.

**Table 2. Methods Used to Identify WTC Victims**

| Identification Method | By a Single Modality |         | By Multiple Modalities |         |
|-----------------------|----------------------|---------|------------------------|---------|
|                       | Number               | Percent | Number                 | Percent |
| D N A                 | 856                  | 87.4    | 559                    | 90.3    |
| Dental x-ray          | 55                   | 5.6     | 472                    | 76.3    |
| Fingerprints          | 36                   | 3.7     | 269                    | 43.5    |
| Photo                 | 9                    | 0.9     | 16                     | 2.6     |
| Remains viewed        | 12                   | 1.2     | 2                      | 0.3     |
| Body x-ray            | -                    | 0.0     | 3                      | 0.5     |
| Personal effects      | 8                    | 0.8     | 70                     | 11.3    |
| Tattoos               | -                    | 0.0     | 6                      | 1.0     |
| Other                 | 3                    | 0.3     | 45                     | 7.3     |
| All                   | 979                  | 100.0   | 619                    | 233.0*  |

\* The total exceeds 100% because modalities overlap; there were over 40 combinations of modalities used.

**Table 3. Status of Identification of WTC Victims**

| Victim Identification Status | Number | Percent | Remain Identification Status | Number | Percent |
|------------------------------|--------|---------|------------------------------|--------|---------|
| Victims identified           | 1,598  | 58.1    | Remains identified           | 10,957 | 52.3    |
| Victims not identified       | 1,148  | 41.8    | Remains not identified       | 9,984  | 47.7    |
| Victims died outside NYC*    | 3      | 0.1     | All remains recovered        | 20,941 | 100.0   |
| All reported missing         | 2,749  | 100.0   |                              |        |         |

\* Victims were transported to facilities outside of New York City, where they later died of their injuries.

**Special Section B: Smoking Attributable Deaths and Age Adjusted Death Rates\*, New York City, 1999-2005**

| Disease Category               | 1999-2001                          |              |              |                                     |              |              | 2002         |              |              |                                     |              |              | 2003         |              |              |                                     |              |              | 2004         |              |              |                                     |              |              | 2005         |              |              |                                     |              |              |      |        |
|--------------------------------|------------------------------------|--------------|--------------|-------------------------------------|--------------|--------------|--------------|--------------|--------------|-------------------------------------|--------------|--------------|--------------|--------------|--------------|-------------------------------------|--------------|--------------|--------------|--------------|--------------|-------------------------------------|--------------|--------------|--------------|--------------|--------------|-------------------------------------|--------------|--------------|------|--------|
|                                | Annual Average<br>Number of Deaths |              |              | Age Adjusted Rates<br>(Per 100,000) |              |              | Deaths       |              |              | Age Adjusted Rates<br>(Per 100,000) |              |              | Deaths       |              |              | Age Adjusted Rates<br>(Per 100,000) |              |              | Deaths       |              |              | Age Adjusted Rates<br>(Per 100,000) |              |              | Deaths       |              |              | Age Adjusted Rates<br>(Per 100,000) |              |              |      |        |
|                                | Male                               | Female       | Total        | Male                                | Female       | Total        | Male         | Female       | Total        | Male                                | Female       | Total        | Male         | Female       | Total        | Male                                | Female       | Total        | Male         | Female       | Total        | Male                                | Female       | Total        | Male         | Female       | Total        | Male                                | Female       | Total        | Male | Female |
| <b>Malignant Neoplasms</b>     |                                    |              |              |                                     |              |              |              |              |              |                                     |              |              |              |              |              |                                     |              |              |              |              |              |                                     |              |              |              |              |              |                                     |              |              |      |        |
| Lip, Oral Cavity, Pharynx      | 106                                | 34           | 140          | 6.5                                 | 1.5          | 3.6          | 90           | 28           | 118          | 5.2                                 | 1.2          | 2.9          | 96           | 28           | 124          | 5.6                                 | 1.2          | 3.0          | 111          | 35           | 146          | 6.3                                 | 1.4          | 3.5          | 100          | 34           | 134          | 5.6                                 | 1.4          | 3.2          |      |        |
| Esophagus                      | 158                                | 53           | 211          | 10.1                                | 2.3          | 5.5          | 144          | 55           | 199          | 9.0                                 | 2.3          | 5.0          | 143          | 55           | 198          | 8.5                                 | 2.3          | 4.9          | 141          | 51           | 192          | 8.3                                 | 2.1          | 4.7          | 161          | 52           | 213          | 9.3                                 | 2.0          | 5.1          |      |        |
| Stomach                        | 72                                 | 29           | 101          | 4.8                                 | 1.2          | 2.6          | 70           | 25           | 95           | 4.4                                 | 1.0          | 2.4          | 71           | 29           | 100          | 4.4                                 | 1.2          | 2.5          | 66           | 28           | 94           | 4.1                                 | 1.1          | 2.3          | 75           | 24           | 99           | 4.5                                 | 0.9          | 2.3          |      |        |
| Pancreas                       | 77                                 | 113          | 190          | 5.0                                 | 4.8          | 4.9          | 75           | 107          | 182          | 4.5                                 | 4.4          | 4.5          | 81           | 97           | 178          | 4.9                                 | 3.9          | 4.4          | 81           | 103          | 184          | 4.8                                 | 4.1          | 4.4          | 83           | 91           | 174          | 4.8                                 | 3.6          | 4.1          |      |        |
| Larynx                         | 85                                 | 23           | 108          | 5.4                                 | 1.0          | 2.8          | 82           | 21           | 103          | 4.9                                 | 0.9          | 2.6          | 84           | 18           | 102          | 5.0                                 | 0.7          | 2.5          | 95           | 12           | 107          | 5.5                                 | 0.5          | 2.6          | 81           | 16           | 97           | 4.7                                 | 0.6          | 2.3          |      |        |
| Trachea, Lung, Bronchus        | 1,524                              | 1,023        | 2,547        | 99.1                                | 44.7         | 66.3         | 1,472        | 999          | 2,471        | 91.3                                | 42.0         | 61.9         | 1,500        | 998          | 2,498        | 92.3                                | 41.6         | 62.0         | 1,483        | 904          | 2,387        | 90.6                                | 37.2         | 58.6         | 1,426        | 904          | 2,330        | 85.3                                | 37.1         | 56.5         |      |        |
| Cervix Uteri                   | 0                                  | 20           | 20           | 0.0                                 | 0.9          | 0.5          | 0            | 18           | 18           | 0.0                                 | 0.8          | 0.4          | 0            | 18           | 18           | 0.0                                 | 0.8          | 0.4          | 0            | 14           | 14           | 0.0                                 | 0.6          | 0.3          | 0            | 15           | 15           | 0.0                                 | 0.6          | 0.4          |      |        |
| Kidney and Renal Pelvis        | 48                                 | 4            | 52           | 3.1                                 | 0.2          | 1.3          | 56           | 4            | 60           | 3.4                                 | 0.2          | 1.5          | 52           | 2            | 54           | 3.2                                 | 0.1          | 1.3          | 51           | 4            | 55           | 3.1                                 | 0.2          | 1.3          | 46           | 1            | 47           | 2.7                                 | 0.0          | 1.1          |      |        |
| Urinary Bladder                | 87                                 | 28           | 115          | 6.2                                 | 1.2          | 3.0          | 79           | 31           | 110          | 5.3                                 | 1.2          | 2.7          | 80           | 27           | 107          | 5.3                                 | 1.1          | 2.6          | 85           | 27           | 112          | 5.5                                 | 1.0          | 2.7          | 84           | 29           | 113          | 5.4                                 | 1.1          | 2.7          |      |        |
| Acute Myeloid Leukemia         | 17                                 | 9            | 26           | 1.1                                 | 0.4          | 0.7          | 23           | 8            | 31           | 1.4                                 | 0.3          | 0.8          | 26           | 8            | 34           | 1.6                                 | 0.3          | 0.8          | 24           | 11           | 35           | 1.5                                 | 0.5          | 0.9          | 27           | 9            | 36           | 1.6                                 | 0.4          | 0.9          |      |        |
| Sub-total                      | 2,174                              | 1,336        | 3,510        | 141.3                               | 58.2         | 91.2         | 2,091        | 1,296        | 3,387        | 129.4                               | 54.3         | 84.7         | 2,133        | 1,280        | 3,413        | 130.8                               | 53.2         | 84.4         | 2,137        | 1,189        | 3,326        | 129.7                               | 48.7         | 81.3         | 2,083        | 1,175        | 3,258        | 123.9                               | 47.7         | 78.6         |      |        |
| <b>Cardiovascular Diseases</b> |                                    |              |              |                                     |              |              |              |              |              |                                     |              |              |              |              |              |                                     |              |              |              |              |              |                                     |              |              |              |              |              |                                     |              |              |      |        |
| Ischemic Heart Disease         | 1,681                              | 1,532        | 3,213        | 113.3                               | 61.5         | 82.7         | 1,672        | 1,464        | 3,136        | 106                                 | 55.7         | 76.4         | 1,618        | 1,343        | 2,961        | 101.3                               | 50.1         | 70.7         | 1,485        | 1,184        | 2,669        | 90.6                                | 43.5         | 62.7         | 1,576        | 1,189        | 2,765        | 93.2                                | 42.5         | 63.1         |      |        |
| Other Heart Disease            | 131                                | 101          | 232          | 9.0                                 | 4.1          | 6.0          | 125          | 89           | 214          | 8.1                                 | 3.4          | 5.3          | 108          | 80           | 188          | 6.9                                 | 3.0          | 4.5          | 106          | 70           | 176          | 6.7                                 | 2.6          | 4.2          | 103          | 63           | 166          | 6.2                                 | 2.3          | 3.8          |      |        |
| Cerebrovascular Disease        | 131                                | 149          | 280          | 8.0                                 | 6.6          | 7.2          | 126          | 132          | 258          | 7.3                                 | 5.6          | 6.3          | 135          | 113          | 248          | 7.6                                 | 4.7          | 5.9          | 127          | 101          | 228          | 7.1                                 | 4.1          | 5.4          | 107          | 102          | 209          | 5.9                                 | 4.1          | 4.8          |      |        |
| Atherosclerosis                | 20                                 | 10           | 30           | 1.5                                 | 0.4          | 0.8          | 20           | 7            | 27           | 1.4                                 | 0.3          | 0.7          | 23           | 6            | 29           | 1.5                                 | 0.2          | 0.7          | 13           | 6            | 19           | 0.9                                 | 0.2          | 0.4          | 22           | 5            | 27           | 1.4                                 | 0.2          | 0.6          |      |        |
| Aortic Aneurysm                | 92                                 | 58           | 150          | 6.2                                 | 2.4          | 3.9          | 85           | 45           | 130          | 5.4                                 | 1.8          | 3.3          | 80           | 43           | 123          | 4.9                                 | 1.7          | 3.0          | 88           | 40           | 128          | 5.3                                 | 1.6          | 3.1          | 105          | 48           | 153          | 6.1                                 | 1.8          | 3.6          |      |        |
| Other Arterial Disease         | 5                                  | 13           | 18           | 0.4                                 | 0.5          | 0.5          | 5            | 12           | 17           | 0.3                                 | 0.5          | 0.4          | 7            | 9            | 16           | 0.4                                 | 0.3          | 0.4          | 8            | 12           | 20           | 0.5                                 | 0.5          | 0.5          | 7            | 9            | 16           | 0.4                                 | 0.3          | 0.4          |      |        |
| Sub-total                      | 2,060                              | 1,863        | 3,923        | 138.4                               | 75.5         | 101.1        | 2,033        | 1,749        | 3,782        | 128.5                               | 67.3         | 92.4         | 1,971        | 1,594        | 3,565        | 122.6                               | 60.0         | 85.2         | 1,827        | 1,413        | 3,240        | 111.1                               | 52.5         | 76.3         | 1,920        | 1,416        | 3,336        | 113.2                               | 51.2         | 76.3         |      |        |
| <b>Respiratory Diseases</b>    |                                    |              |              |                                     |              |              |              |              |              |                                     |              |              |              |              |              |                                     |              |              |              |              |              |                                     |              |              |              |              |              |                                     |              |              |      |        |
| Pneumonia, Influenza           | 201                                | 201          | 402          | 15.0                                | 7.9          | 10.4         | 211          | 193          | 404          | 14.7                                | 7.2          | 9.9          | 240          | 174          | 414          | 16.1                                | 6.4          | 9.9          | 258          | 192          | 450          | 16.9                                | 7.0          | 10.6         | 269          | 175          | 444          | 17.1                                | 6.2          | 10.1         |      |        |
| Bronchitis, Emphysema          | 75                                 | 56           | 131          | 5.1                                 | 2.4          | 3.4          | 76           | 68           | 144          | 5.1                                 | 2.7          | 3.6          | 76           | 59           | 135          | 4.8                                 | 2.4          | 3.3          | 68           | 55           | 123          | 4.3                                 | 2.1          | 3.0          | 64           | 52           | 116          | 3.9                                 | 1.9          | 2.7          |      |        |
| Chronic Airway Obstruction     | 484                                | 510          | 994          | 34.8                                | 20.9         | 25.9         | 465          | 540          | 1,005        | 31.6                                | 21.0         | 25.1         | 495          | 498          | 993          | 33.0                                | 19.0         | 24.3         | 461          | 536          | 997          | 30.2                                | 20.3         | 24.0         | 436          | 506          | 942          | 27.7                                | 18.7         | 22.2         |      |        |
| Sub-total                      | 760                                | 767          | 1,527        | 54.9                                | 31.2         | 39.7         | 752          | 801          | 1,553        | 51.4                                | 30.9         | 38.6         | 811          | 731          | 1,542        | 53.9                                | 27.8         | 37.5         | 787          | 783          | 1,570        | 51.4                                | 29.4         | 37.6         | 769          | 733          | 1,502        | 48.7                                | 26.8         | 35.0         |      |        |
| <b>Total</b>                   | <b>4,994</b>                       | <b>3,966</b> | <b>8,960</b> | <b>334.6</b>                        | <b>164.9</b> | <b>232.0</b> | <b>4,876</b> | <b>3,846</b> | <b>8,722</b> | <b>309.3</b>                        | <b>152.5</b> | <b>215.7</b> | <b>4,915</b> | <b>3,605</b> | <b>8,520</b> | <b>307.3</b>                        | <b>141.0</b> | <b>207.1</b> | <b>4,751</b> | <b>3,385</b> | <b>8,136</b> | <b>292.2</b>                        | <b>130.6</b> | <b>195.2</b> | <b>4,772</b> | <b>3,324</b> | <b>8,096</b> | <b>285.8</b>                        | <b>125.7</b> | <b>189.9</b> |      |        |

**Notes:**

Three year (1999-2001) smoking prevalence data are used to estimate smoking attributable deaths and age adjusted rates due to small sample size of data from NYS Behavioral Risk Factor Surveillance Survey (BRFSS). Smoking prevalence data for 2002-2005 are from NYC Community Health Survey. Smoking prevalence rates are calculated by the Bureau of Epidemiology Services, New York City Department of Health and Mental Hygiene. Deaths and rates are among adults aged 35 years and older. Number does not include burn or second hand smoke deaths. See Technical Notes: Smoking-Attributable Mortality for methodology.

\* Population data are from 2000 census for 1999-2001 and U.S. Census Bureau's annual estimates for 2002-2005. See Technical Notes: Population.

## Rates and Ratios Defined

The numerators of the rates in these tables are events occurring in New York City and reported during the year, unless otherwise specified. The denominator is the resident population figure, including all ages and both sexes, unless otherwise specified.

**Live Birth Rate** - The number of live births per 1,000 population.

$$\frac{\text{Live Births}}{\text{Population}} \times 1,000$$

**Marriage Rate** - The number of marriages per 1,000 population.

$$\frac{\text{Marriages}}{\text{Population}} \times 1,000$$

**Infant Mortality Rate** - The number of infant (under one year of age) deaths per 1,000 live births.

**Neonatal Mortality Rate** - The number of neonatal (under 28 days) deaths per 1,000 live births.

**Post Neonatal Mortality Rate** - The number of post-neonatal (28 days to under one year of age) deaths per 1,000 live births.

$$\frac{\text{Infant Deaths}}{\text{Live Births}} \times 1,000$$

**Fetal Death Ratio** - The number of fetal deaths of 28 weeks gestation and over per 1,000 live births.

$$\frac{\text{Fetal Deaths 28 Weeks and Over}}{\text{Live Births}} \times 1,000$$

**Fetal-infant Mortality Rate** - The number of fetal deaths of 24 weeks gestation and over plus infant deaths per 1,000 live births and fetal deaths, excluding weight at delivery less than 500 grams.

$$\frac{(\text{Fetal Deaths 24 Weeks and Over} + \text{Infant Deaths})}{(\text{Fetal Deaths 24 Weeks and Over} + \text{Live Births})} \times 1,000$$

**Perinatal Mortality Ratio** - The number of fetal deaths of 28 weeks gestation and over plus the number of early neonatal (under seven days) deaths per 1,000 fetal deaths of 28 weeks gestation and over plus live births.

$$\frac{(\text{Fetal Deaths 28 Weeks and Over} + \text{Infant Deaths Under 7 Days})}{\text{Fetal Deaths 28 Weeks and Over} + \text{Live Births}} \times 1,000$$

**Death Rate, all causes** - The number of deaths per 1,000 population.

$$\frac{\text{Deaths All Causes}}{\text{Population}} \times 1,000$$

**Death Rate, specified causes** - The number of deaths due to a specified cause per 100,000 population.

**Death Rate, age and sex specific** - The number of deaths of persons of specified age and sex per 1,000 population of the specified age and sex.

**Death Rate, age, sex and race adjusted** - The number of deaths per 100,000 standard population. Age, sex and race specific death rates are applied to a standard population eliminating the effect of differences in population composition, and allowing comparisons over time or between geographic areas.

**Maternal Mortality Ratio** - The number of deaths due to complications of pregnancy, childbirth and the puerperium occurring within 42 days of delivery per 100,000 live births.

## TECHNICAL NOTES, 2005

**VITAL EVENTS** - Vital event data reported here are based on occurrences in New York City to both residents and non-residents. Tables that include a geographic breakdown for residents show non-resident and residence-unknown data separately. Where there is no geographic breakdown, all New York City occurrences are included. Counts of births, deaths, and induced and spontaneous terminations of pregnancy are based on certificates filed with the Office of Vital Records, New York City Department of Health and Mental Hygiene (DOHMH). Birth certificates are created, printed and filed using the Electronic Birth Certificate (EBC) system. The number of induced and spontaneous terminations of pregnancy reported each year depends to some extent on the level of active surveillance by the Office of Vital Statistics. Some events filed too late for inclusion in the respective year's annual statistics report are included in the subsequent annual statistical report.

- The number of marriages shown in Table 1 and in Table 49 is the number of marriage licenses issued by the City Clerk.

- Tables 22, 23, 25a, 25b, and Figure 15 include deaths to NYC residents regardless of place of occurrence. Data on NYC resident deaths occurring outside of NYC is provided by the National Center for Health Statistics (NCHS). See third bullet under Life Expectancy below.

- For public health purposes, the demographic and medical information on the certificates is coded in general agreement with standards developed by NCHS. In some instances, such as ancestry of decedent or mother, New York City data are more detailed.

- Because New York City law prohibits recording mother's marital status on the birth certificate, it is calculated using other items. (See Mother's Marital Status below.)

**POPULATION** - Population data in the 2000 and subsequent issues of the Vital Statistics Summary are, for the most part, based on data provided by the New York City Department of City Planning (DCP) from the U. S. Census enumeration as of April 1, 2000. Population counts for the city, its boroughs, Health Center Districts, and Community Districts are updated to 2000. In 2003, the Census Bureau produced a modified race file (Census 2000 Modified Race Data [MR (31)-CO.txt]). In the 2002 report Table 2 was changed by using modified race population data. The major effect was a reduction of 65% in the total for "Other and Multiple Race" and increases of 3%, 3%, and 6% for "Non-Hispanic White", "Non-Hispanic Black", and "Asian and Pacific Islander", respectively. There was no change for Hispanic population.

- In Table 1, the population figures for census

years 1960, 1970, 1980, 1990, and 2000 are census counts; for intercensal counts through 1989, straight-line interpolations are used, while the interpolation from 1990 to 2000 uses an exponential formula which assumes that the growth rate was the same through the decade:  $\text{pop}(t)/\text{pop}(t_0) = e^{rt}$  (where  $r$  is a constant growth rate and  $t$  is the interval).

For the first time this Annual Summary uses the most recently available population estimates (2001-2005) in calculating rates for some tables to reflect population growth in New York City. However, these estimates are only available for broad measures such as county (borough), 5-year age groups, and sex, but not by smaller geographic areas, such as health center districts and community districts. Therefore, some tables use different figures for New York City's population: the U.S. Census Bureau's decennial enumeration (8,008,278 residents in 2000) and the Census Bureau's estimates for years 2001-2005 (8,143,197 in 2005). Citywide rates are affected, and may differ across tables. For example, the citywide birthrate is 15.1 per 1,000 population using the 2005 population estimate, and 15.3 using the 2000 census population as the denominator. Tables with breakdowns by neighborhood use 2000 census data only, as do those with life expectancy calculations that require population totals by single-year age group.

2000 census data are used in Tables 3, 7, 8, 22, 23, 28a, 34, 36 and 40, and Figure 20. 2001-2005 estimates are used in Tables 1 and 25, Figures 6a, 6b, 7 and Special Section B.

### LIFE EXPECTANCY, AGE SPECIFIC AND ADJUSTED

**DEATH RATES** - Life expectancy tables summarize the effect of mortality rates prevailing at a specific time on persons being born or living at that time. Tables may be computed for population subgroups, most often males, females, and race groups. The components required are counts and mortality figures for the desired subgroups. Life expectancy tables for New York City are generally presented for census years, when accurate population data are available (Table 22). The mortality experience for the census year, the year before, and the year after is used to smooth statistical variation and reduce the large effect an unusual event in a single year can have, such as a flu epidemic or the World Trade Center disaster.

- Beginning in 2004, a new table, Table 23 (Table 22a in 2004), provides annual life expectancy by age and sex so the viewer can see trend data between census years. Life expectancy here is estimated using single year death data. This results in slightly different life expectancy estimates for 2000 in Tables 22 and 23. Table 23 does not include Life

Expectancy for 2005 because national data are required and not yet available.

- Average yearly age-sex and age-sex-race adjusted death rates for 1990 in Tables 25a and 25b respectively used 1990 census MARs (modified for age, race and sex) population and 1989 and 1991 mortality data. Average yearly age adjusted death rates for 2000 in Tables 25a and 25b used 2000 population data and 1999-2001 mortality data. Adjustment allows comparisons between rates to be made over time or between geographic areas by eliminating the effects of differences in the composition of the populations. For 1999-2001, cause-specific rates are adjusted for only age to avoid losing too much information from crude death rates. A new 2000 US standard population is used to calculate cause-specific age-adjusted death rates while for earlier years the 1940 standard US population was used. Since the Census Bureau has not produced MR (modified for race) 2000 data by single year of age, there is no change for life expectancy calculation and age-adjusted death rates.

- A change in the data used for the 1980 and 1990 calculations is noted in Tables 25a and 25b by a line separating these rates from those for earlier years. The calculations for 1980 and 1990 used information on all deaths occurring to New York City residents regardless of place of occurrence, which was obtained from the New York State Department of Health (NYSDOH), whereas previous computations used all deaths occurring in New York City regardless of residence of the decedent. Mortality data for 2000 includes all New York City residents regardless of place of occurrence; however mortality data were obtained from NCHS as opposed to NYSDOH. As a result, 2000 mortality data may include more non-New York City occurrences than previous years. Another line is drawn in Table 25b to show that differences in data source and standard population were used between the 1999-2001 period and earlier years.

- Beginning in 2000, life expectancy was estimated by ethnic groups instead of race to ascertain differences among Hispanics, non-Hispanic whites and non-Hispanic blacks. To enable comparison, life expectancy was recalculated by ethnic groups for 1990.

- Historical data on Hispanic ancestry and estimates of life expectancy should be used with caution. Before 1993, ancestry of decedents, which may indicate decedents' Hispanic ethnicity, was obtained from the medical certifier. Under-reporting of all ancestries, including Hispanic, was therefore possible. To overcome this problem, death certificates were revised in June 1993 to require funeral directors to provide the ancestry information, presumably from

decedents' family members. Hispanic life expectancy may be overestimated because of the age distribution of Hispanics and because of immigration patterns. The age distribution of Hispanics is different from non-Hispanic whites and non-Hispanic blacks, with fewer Hispanics in the older age groups than other ethnic groups. This would cause an underestimate of Hispanic death rates and hence overestimate Hispanic life expectancy. An overestimate of Hispanic life expectancy would also occur if Hispanics moved out of the United States to die at a greater rate than other ethnic groups.

**YEARS OF POTENTIAL LIFE LOST** - Years of potential life lost (YPLL) measures years lost due to premature death. In contrast to mortality measures, YPLL emphasizes the processes underlying premature mortality in a population. YPLL is often calculated using a cutoff age, 65 or 75, as follows:  

$$YPLL = \sum [(cutoff\ age - i) \times d_i]$$

where *i* is the midpoint of the grouped year of age at death and *d<sub>i</sub>* is the number of deaths at age *i*. YPLL can be calculated for specified causes of death. In this summary's presentation of YPLL (Table 24), age 75 is used as the cut off age.

**RACE, ANCESTRY, ETHNIC GROUP, AND BIRTHPLACE**

Race in the 2000 Census - The 2000 Census permitted respondents to describe themselves and household members as being of more than one race, selecting from six race categories: white, black, American Indian and Alaska native, Asian, Native Hawaiian and Other Pacific Islander, and some other race. These categories yield 63 possible combinations. Respondents were also asked if they were of Hispanic origin. The resulting responses could be organized into 64 groups, referred to by the DCP as "mutually exclusive race/Hispanic categories." DCP combined categories into a set of seven: Hispanic origin, non-Hispanic white, non-Hispanic black, non-Hispanic Asian or Pacific Islander, non-Hispanic American Indian and Alaska Native, non-Hispanic of some other race, and non-Hispanic of two or more races. These categories are equivalent to the vital statistics variable ethnicity (see below), except for the group of two or more races. (Vital statistics data currently collect multiple-race only on the death certificate). In Table 2, population data are presented using DCP terminology, "mutually exclusive race and Hispanic origin" with the last three categories combined; the death data presented in Table 3 use the term ethnicity.

Race and Ethnicity - Race and ancestry are separate items on the certificates, reported usually by a parent on the birth certificate, and by a relative of the decedent through the funeral director on the death certificate. Responses are coded in general conformance to rules of NCHS.

- In 1992, five additional codes for Asian and Pacific Islander races were added, following their introduction by NCHS: Asian Indian, Guamanian, Korean, Samoan and Vietnamese. Codes already in use included Chinese, Filipino, Hawaiian, Japanese and other.
- The ordered selection rules used to define ethnicity first assigns Puerto Rican or other Hispanic ethnicities based on ancestry, regardless of race. Then, those of other ancestries are classified by race as Asian, non-Hispanic white, non-Hispanic black, other or unknown.
- In certain instances, the item birthplace is used to remove ambiguity in the race item.
- Persons whose race is black and whose ancestry is American are classified as being of African-American ancestry.
- Ancestry is defined by NCHS as the nationality, lineage, or country where the subject's ancestors were born before their arrival in the United States; if a religious group is reported, NCHS instructions are to ask for the country of origin or nationality. In New York City, enough certificates with ancestry reported as Jewish or Hebrew are received to warrant inclusion in these tables, notwithstanding the religious meaning of the terms. An increase in 1999 of about 2,000 in the number of mothers reporting Hebrew or Jewish ancestry resulted from quality assurance discussions with several hospitals that included clarification of the meaning of ancestry. These hospitals replaced the general term American with individual information provided by the patients.

Multiple Race - Beginning January 1, 2003, the NYC death certificate was expanded to include the number of decedent race categories allowing multiple races to be selected. This change was implemented based on the changes to the US 2000 Census and to comply with NCHS recommended changes in the U.S. Standard Certificate of Death. The change resulted in an increase in Hispanic and Asian and Pacific Islander ethnicities, while Non-Hispanic white and Non-Hispanic black ethnicities declined. The number of unknown ethnicities also increased. Care should be taken when comparing 2003 or later race and ethnicity death data with that from previous years. See Summary of Vital Statistics 2003 for Special Note on Multiple-Race.

CAUSE OF DEATH - Cause of death information presented is the underlying cause of death on each certificate, selected using rules issued by NCHS and codes of ICD-10, implemented January 1, 1999. Earlier ICD revisions and the year their codes were implemented are the Fifth, 1939; Sixth, 1949; Seventh, 1959; Eighth, 1969; and Ninth, 1979. Long term trends in causes of death should be interpreted with caution because of possible changes in causes and groupings with each revision.

Comparability Ratio - Comparability ratios are used to measure the discontinuities in trend data for the cause of death when a new version of the International Classification of Diseases (ICD) is implemented. In the case of ICD-10 (tenth revision), the comparability ratio for cause "i" is defined as:

Deaths from cause "i" under ICD-10  
 Deaths from cause "i" under ICD-9

Therefore, comparability ratios measure the net effect of ICD-10 by cause of death. Using more than 2.3 million 1996 U.S. mortality records, comparability ratios were calculated and presented for selected causes of death by NCHS. Due to complications of coding and calculation, the whole procedure was split into two phases: preliminary and final. The preliminary comparability ratios were based on about 1.8 million death records and used in 1999-2002 Summary of Vital Statistics. Finalized comparability ratios are updated in Tables 4, 25, and 44 of the Summary of Vital Statistics 2002 through present. A detailed description of comparability ratio (ICD-9 to ICD-10) can be found on the NCHS website at the following link:  
[http://www.cdc.gov/nchs/data/nvsr/nvsr49/nvsr49\\_02.pdf](http://www.cdc.gov/nchs/data/nvsr/nvsr49/nvsr49_02.pdf).

HIV and AIDS Mortality - In ICD-10, deaths due to HIV disease are not divided into AIDS deaths and deaths due to other HIV infections, but are characterized by the resulting disease or condition. HIV deaths (ICD-10 codes B20-B24) are shown in Tables 4, 5, 6, 7, 8, 20, and 21 and Figures 13 and 14.

- From 1983 through 1986, only AIDS was a recognized cause of death coded as 279.1. In 1987, NCHS introduced code 042 for AIDS and 043-044 for other HIV deaths, and they were reported this way in Table 3 through 1998. Beginning in 1999, Table 25 includes Human Immunodeficiency virus disease, B20-B24.
- A fuller discussion of the history of HIV coding can be found in the 1997 and 1998 Vital Statistics Summaries.
- The incidence data in Table 48 are provided by the New York City HIV Epidemiology

Program. Their active surveillance system identifies persons diagnosed with AIDS, a reportable disease in New York State.

Deaths Due to Drug Abuse - In both ICD-9 and ICD-10, there are two groups of codes that can be used for drug deaths depending on the information on the death certificate: natural cause codes and external cause codes. With the implementation of ICD-10 in 1999, the natural cause group includes mental and behavioral disorders due to psychoactive substance use excluding alcohol and tobacco (F11-F16, F18-F19) and psychoses due to drug use and non-dependent drug use, two causes not included in the Vital Statistics Summary reports using ICD-9. Deaths due to alcohol and tobacco are typically natural. Those due to alcohol are reported separately; deaths due to tobacco are not reported separately. The poisoning codes for psychoactive substances excluding alcohol and tobacco in ICD-10 (X40-X42, X44) are substantially the same as in ICD-9.

- A category of deaths due to accidents without the drug poisoning deaths is used for ranking leading causes and appears in Tables 5 and 6. A fuller discussion of the history of drug death coding appears in the Vital Statistics Summaries of 1989 through 1998.

Maternal Death and Maternal Mortality- In ICD-10, the chapter Pregnancy, childbirth and the puerperium (codes O00-O99) includes codes for deaths occurring more than 42 days after the termination of the pregnancy, which did not exist in ICD-9. However, the definition of "maternal mortality" by the World Health Organization does not include these later deaths: included are deaths of a woman while pregnant or within 42 days of termination of pregnancy ... from any cause related to or aggravated by the pregnancy or its management ...". This includes ICD-10 codes O00-O95, O98-O99 and A34, obstetrical tetanus. Note also that the denominator of the maternal mortality rate is live births. Since the 2000 Vital Statistics Summary, new lines have been inserted in Table 4 and Table 25 to clarify the all cause of death due to pregnancy, childbirth and puerperium compared to the smaller group of "maternal" deaths. In Table 4, Deaths by Cause, all deaths due to pregnancy, childbirth and the puerperium are shown (and are rankable) followed by "maternal" deaths. In Table 25, Deaths and Crude Death Rates historical data from 1901 through 2002 are correctly relabeled "maternal causes" and a new category based on the ICD-10 - pregnancy, childbirth and the puerperium - is shown beginning in 1999. Table 46, Live Births, ... 1989-2005, only includes the "maternal" definition. An error in Table 46,

in 1999 data was corrected in the 2000 Vital Statistics Summary.

External Causes of Death - External causes of death include accidents, intentional self-harm (suicide), assault (homicide), legal intervention, events of undetermined intent, operations of war and their sequelae, and complications of medical and surgical care. Beginning in 1999, these causes are shown separately in Table 4.

- Some homicides are considered justifiable and are reported as such by the New York City Police Department under the Uniform Crime Reporting System of the Federal Bureau of Investigation, however this specification is not included in the Vital Statistics Summary report.

- Legal intervention as a cause of death is defined in ICD-9 and ICD-10 as including injuries inflicted by police or other law-enforcing agents ... in the course of arresting or attempting to arrest ... and other legal action. Since 2003, the number of deaths from legal intervention have been listed separately in Tables 4 and 16. They are no longer included in the homicide counts of Tables 7 and 8. They are included in the homicide counts in Table 21 through 2002.

- Complications of medical and surgical care was included with accidents in ICD-9, but is not in ICD-10 and is therefore shown separately since 1999.

- All death certificates for external causes are reported by the Office of Chief Medical Examiner. Deaths for which a cause has not been determined by the time the statistical file is closed are shown separately as 'pending final determination' in Table 4; some of these pending deaths will be determined to be due to natural causes.

- The number of deaths classified as events of undetermined intent should be considered in analysis of deaths due to external causes.

- The site of accidents, home and public place, has been dropped since 1999 because the reporting was not reliable.

- Motor vehicle accident deaths or other traffic fatalities reported by Vital Statistics sometimes do not agree with the numbers released by the Department of Transportation/New York City Police Department (DOT/NYPD). There are two major differences in the methodology to calculate the number of traffic fatalities. First, DOT/NYPD do not include deaths resulting from illness while operating a motor vehicle in their traffic fatality count; this Summary does. Second, in cases where serious injury suffered during a motor vehicle accident result in subsequent death (e.g. one month later), the fatality will be counted by DOT/NYPD for the month in which the accident occurred. However, Vital Statistics always reports deaths by date of death.

World Trade Center Deaths - All reported World Trade Center (WTC) deaths are homicides and are not included in Summary tables and figures for 2001 data. See 2002 Annual Summary's Special Section on WTC deaths.

Fatal Occupational Injuries - The data presented in Table 11, Figures 9 and 10, include all fatal injuries occurring in New York City regardless of the residence of decedents or location of the deaths, i.e. deaths occurring inside or outside of New York City. Autopsy and other reports for deaths due to external causes are reviewed if the injury occurred at work. Definitions and terminology are those of Bureau of Labor Statistics, U.S. Department of Labor, which may differ from those generally used in vital statistics. Beginning in 2003, coding for industries was changed from Standard Industrial Classification (SIC) to the North American Industry Classification System (NAICS). Because of the substantial differences between SIC and NAICS, the comparisons by industry with previous years are not encouraged.

Infant Mortality - The infant mortality rate consists of the number of infant deaths in New York City in a specified year divided by the number of live births in the city in the same year; some infants in the numerator were born in the preceding year, and some in the denominator will die in the following year. The same definition applies to geographic subdivisions included in some tables.

- In this Summary, all characteristics of infant deaths are drawn from the death certificate except in Table 46, which uses the ethnic group of the mother from the child's birth certificate. In Tables 42 and 43, birth weight is based on the birth certificate.

Smoking-Attributable Mortality - The smoking attributable mortality (SAM) is derived by the Adult SAMMEC program using an attributable-fraction formula. The smoking-attributable fractions (SAFs) of deaths for 19 smoking-related diseases are calculated using sex-specific smoking prevalence and relative risk (RR) of death data for current and former smokers aged 35 and older. SAFs for each disease and sex are derived from the following formula:

$$SAF = [(p_0 + p_1(RR_1) + p_2(RR_2)) - 1] / [p_0 + p_1(RR_1) + p_2(RR_2)],$$

where p<sub>0</sub> is percentage of adult never smokers in study group; p<sub>1</sub> is percentage of adult current smokers in study group; p<sub>2</sub> is percentage of adult former smokers in study group; RR<sub>1</sub> is the relative risk of death for adult current smokers relative to adult never



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smokers; RR2 is the relative risk of death for adult former smokers relative to adult never smokers.

Smoking prevalence data are from Community Health Survey and calculated by the Bureau of Epidemiology Services.

To estimate SAM, Adult SAMMEC multiplies the age- and sex-specific SAFs by the number of deaths for each smoking-related disease. Specifically, the number of deaths by sex and 5-year age categories are multiplied by the SAF:

$$SAM = \text{Number of deaths} \times \text{SAF}$$

Summing across age categories provides the sex-specific estimate of SAM for each disease. Total SAM is the sum of the sex-specific SAM estimates.

Detailed description of methodology is available at <http://apps.nccd.cdc.gov/sammec>.

**BOROUGH OF RESIDENCE** - Borough of residence and other geographic classifications are based on the usual residence reported in the certificate. Since 1985, assignment to geographic areas below borough, such as health center district and community district, is made through the Geosupport Program, developed and maintained by the DCP.

**AGE OF DECEDENT** - For ages greater than one year, decedent's age is based on age at last birthday. For infants, actual age is used in minutes, hours, days or months. In previous editions of the Summary, if age were unknown it was coded to 65. Beginning with the 2001 Summary, unknown ages are not recoded.

**PLACE OF DEATH** - In reporting Place of Death in Table 9, the term hospital includes residential units, hospices and other special facilities within the hospital. Nursing home includes only sites licensed as Extended Care Facilities by the State of New York. Home refers to the decedent's residence, and includes private houses and apartments, group quarters for special populations, homes for adults, and other long-term residential sites.

**PLACE OF BIRTH** - Reporting of home births in Tables 32 and 33 has been corrected since 1996 to include events where the certificate was filed through a hospital.

**MOTHER'S MARITAL STATUS** - New York City is prohibited by local law from recording mother's marital status on the record or report of birth. For purposes of statistical analysis

and reporting, it was computed from other information on the birth certificate by coders using an algorithm developed by NCHS, and more recently an algorithm adapted to EBC. In 1996, a review of the results led to the conclusion that the number of non-marital births was being overestimated. A new method was implemented by an EBC change in 1997.

- The new method uses only the presence or absence of a father's name on the birth certificate and the filing of an acknowledgment of paternity to estimate marital status; a comparison of the surname of the parents was dropped. The new procedure is consistent with that used by New York State.

- More than 91,000 records of 1997 birth certificates were coded using both methods. The overall change in the proportion of unmarried mothers was a decline of 19.2 percent, from 53.2 percent to 43.0 percent. The decline was greater among older women, and varied by ethnic group and type of hospital of delivery as well. These differences contributed to a range of changes across health center districts.

- A complete discussion may be found in the Special Note on Mother's Marital Status in the 1997 Vital Statistics Summary. This characteristic of live births should be analyzed cautiously.

**INDUCED AND SPONTANEOUS TERMINATIONS OF PREGNANCY** - The number of induced and spontaneous terminations reported depends to some extent on active surveillance, notwithstanding that all terminations, not just those of a certain gestational age or weight, are required to be reported. Active surveillance has caused an increase in the number of spontaneous terminations reported beginning in 1992. An additional result is that some events from earlier years are included in subsequent year's Vital Statistics Summary. In 1997, one facility was found to have failed to submit reports for over 11,000 1996 procedures. These reports, and about 500 from several other facilities, were reported in revised tables for 1996 pregnancy outcomes in the 1997 Vital Statistics Summary. A discussion of the revised tables and the corrected data for all pregnancy outcomes can be found in the Technical Notes, 1997.

**COMMUNITY DISTRICTS (CD)** - Community districts were established by City Charter in 1969 for the delivery of city services. Population figures for these districts are compiled by the DCP from census data.

- There are 59 community districts, referred to by their borough and sequence number,

compared to 30 health center districts (HCD), which have neighborhood names. Beginning in the 2003 Vital Statistics Summary, community district names are provided. The number of districts in each system by borough is shown below.

| Borough       | HCD | CD |
|---------------|-----|----|
| Manhattan     | 7   | 12 |
| Bronx         | 6   | 12 |
| Brooklyn      | 10  | 18 |
| Queens        | 6   | 14 |
| Staten Island | 1   | 3  |

There is no relationship between HCD and CD and therefore no translation from one system to the other.

- In establishing population figures for community districts, census totals for counties are kept as borough totals, while the district figures are compiled from census tract and census block data. Borough boundaries are not always followed, so the sum of the community district populations in each borough does not equal the borough population or the city-wide population.

- The numbers of births and deaths to Manhattan and Bronx residents differ between health center district tables and community district tables because the northernmost Manhattan neighborhood of Marble Hill is in Manhattan under the health center district organization and in the Bronx under the community district system. The population-based rates may change as well. For example, in 2005 38 deaths were reassigned from Manhattan to the Bronx, as seen in Table 7 and Table 8: the Manhattan crude death rate for all causes changed from 6.8 to 6.7 per 1,000 population, while the rate for the Bronx changed from 6.8 to 6.9 with the addition of the 38 deaths. Rates for the selected causes may change as well. For 2005 births, 95 events were reassigned, as shown in Table 34 and Table 36: the Manhattan birth rate did not change, while the Bronx rate increased from 15.6 to 15.7 per 1,000 population.

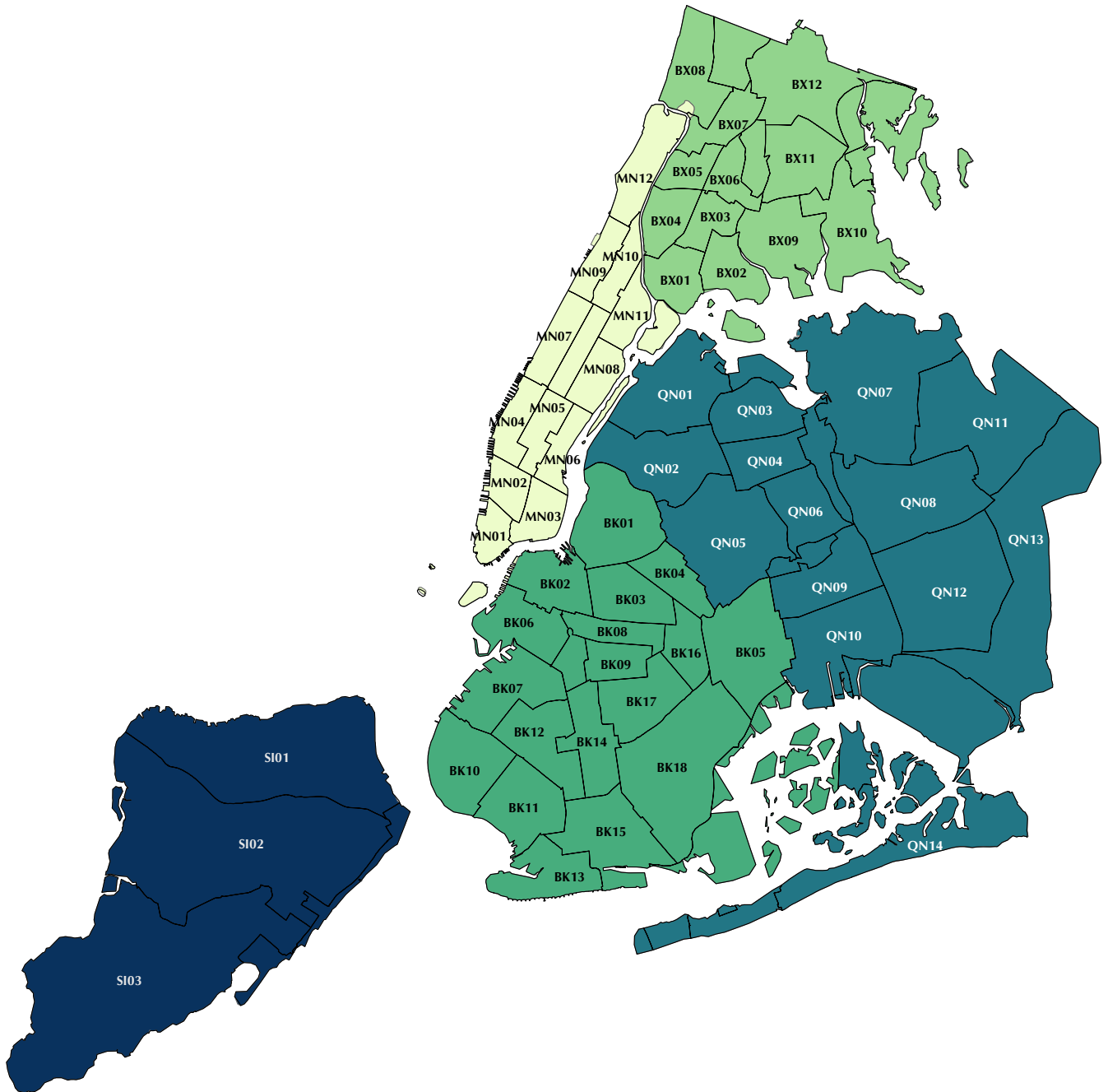
- The population of Riker's Island, site of New York City Department of Correction facilities, is in the Bronx for health center district purposes and in Queens in the community district system. The small number of vital events to residents has been assigned to Queens in both systems.

- A description of the construction of community district geography can be found in the Department of City Planning, Demographic Profiles, DCP # 92-32-Revised, pp. 293-297.

Map 7. Health Center Districts and Boroughs, New York City



# Map 8. Community Districts and Boroughs, New York City



## HIGHLIGHTS, 2005 (Continued)

16, respectively, in 2005. The comparable number of deaths in 2004 was 1 and 9, respectively. Fatal occupational injuries decreased to 88 in 2005, a lower number than has been seen since we started to report such statistics in 1996. We reported 107 fatal occupational injury deaths in 2004.

**Life Expectancy** – Life expectancy continued to rise for New Yorkers, reaching 75.7 for males and 81.1 for females in 2004 (see Table 23, pg 33). In comparison, life expectancy was 75.1 for males and 80.7 for females in 2003. These translate to increases of about 7 and 5 months for males and females, respectively. Data from 2005 are not included since deaths occurring to NYC residents outside of NYC are not yet available.

**Years of Potential Life Lost** – Beginning in the 2003 Summary of Vital Statistics, we reported Years of Potential Life Lost (YPLL). YPLL represents years of potential life lost due to death. For these data, we include NYC deaths that occur prior to age 75. In 2005, causes of death that rank highest for YPLL are malignant neoplasms, accounting for 119,980 years of potential life lost, followed by diseases of the heart with 89,261, and HIV with 38,986 years of potential life lost, all decreased from 2004. For all causes of death, the number of YPLL decreased by 0.9% from 529,580 in 2004 to 524,788 in 2005.

**Induced Terminations of Pregnancy** - Reported induced terminations of pregnancy in 2005 were 88,891; this is 2,782 fewer than in 2004. However, the number of induced terminations reported to the Department of Health and Mental Hygiene depends to some extent on active surveillance. Any interpretations should be made with caution. The number of induced terminations of pregnancy by non-surgical procedures decreased to 6,971 in 2005 from 7,220 in 2004, after a few years of increase, accounting for 7.8% of all procedure types reported.

**Special Sections: Smoking Attributable Deaths and World Trade Center Operational Statistics** – For the first time, the Annual Summary presents smoking attributable deaths and age adjusted death rates in a special section (Special Section B, page 68). As expected, the highest numbers of smoking-attributable deaths are ischemic heart disease, trachea, lung, and bronchus cancer, and chronic airway obstruction. There is a downward trend of

smoking attributable deaths in the past four years reported. The number of smoking attributable deaths decreased from an average of 8,960 in 1999-2001 to 8,096 in 2005, and its age adjusted rate decreased from 232.0 to 189.9 per 100,000 population in the same time period.

The World Trade Center (WTC) operational statistics are updated from the 2002 Summary of Vital Statistics to show the progress in identifying remains. By November 27, 2006, New York City Office of Chief Medical Examiner reported that 1,598 people had been identified among all 2,749 victims in the WTC disaster. Among the 20,941 remains recovered by the time of reporting, 10,957 had been identified. Note that the number of WTC disaster deaths (2,749) reported in the 2002 Summary of Vital Statistics as preliminary has not changed.

**New and Expanded Tables and Figures** - The following new tables and figures were added or expanded in the 2005 Summary of Vital Statistics:

- Figure 6a. Age Adjusted Death Rates for Malignant Neoplasms (Trachea, Bronchus, and Lung) by Sex, Age 20 and Over, NYC, 1991-2005
- Figure 6b. Crude Death Rates for Malignant Neoplasms (Trachea, Bronchus, and Lung), Selected Age Groups, NYC, 1991-2005
- Figure 7. Age Adjusted Death Rates for Malignant Neoplasms (Trachea, Bronchus, and Lung) by Ethnicity, Age 20 and Over, NYC, 2005
- Table 9. Expanded to include percentage of each place of death
- Table 22. Expanded to include life expectancy for all (male and female combined)
- Table 23. Expanded to include life expectancy for all (male and female combined)
- Table 28a. Teen Births and Pregnancy Rates by Ethnicity, Borough of Residence, NYC, 2005
- Table 41. Changed to combine 3 years' data (2003-2005) because of the relatively small number of infant deaths per year for teenage mothers
- Map 4. Percent Late or No Prenatal Care by Community District of Residence, NYC, 2005
- Special Section B. Smoking Attributable Deaths and Age Adjusted Death Rates, NYC, 2005.

## HIGHLIGHTS, 2005

**Births** - The number of live births registered in 2005 decreased 1.1% to 122,725 from 124,099 in 2004. The number of births to teenagers continued to decline to 8,579, and its percentage of all live births stayed the same as 2004, 7.0% (Table 39). While the decline is in its tenth consecutive year and mirrors national trends, local geographic disparities persist. The Bronx continued to have the highest percent of teen births at 11.8%, more than two times higher than the percent of live births to teenagers in Manhattan at 5.8%, and Staten Island at 5.7%. Queens and Brooklyn follow the Bronx with 6.3% and 7.1% of live births to teenagers, respectively.

**Infant Deaths** - The infant mortality rate (IMR) reached 6.0 infant deaths (under one year of age) per 1,000 live births in 2005, the same as in 2002, an historical low. From 1989 to 2005, IMR declined 55% from 13.3 to 6.0. IMR for the Bronx remains higher than the City average, although it showed a decrease from 7.1 in 2004 to 6.3 in 2005.

In 2005, there were 10 deaths (5 males and 5 females) due to Sudden Infant Death Syndrome (SIDS). This is the second consecutive year that SIDS is not ranked as one of the 10 leading causes of death for infants under one year of age.

We have continued to use the “perinatal periods of risk (PPOR)” method to identify “periods of risk” for mother, fetus, and infant (page 64-66). The highest mortality rates for years 2001-2005 occurred in the Maternal Health/Prematurity period and there are striking disparities among mother’s ethnicity. Non-Hispanic black women had the highest rate at 7.0 per 1,000 live births; Puerto Rican women followed at 3.9; other Hispanic women at 3.1; Non-Hispanic white and Asian & Pacific Islander women at 2.2 each.

**Deaths** - The number of deaths in New York City decreased slightly from 57,466 in 2004 to 57,068 in 2005, resulting in a reduction in the death rate from 7.2 in 2004 to 7.1 per 1,000 population in 2005, another

historic low. Mean age at death increased 0.2 year, from 71.2 to 71.4.

Heart disease, cancer, and influenza/pneumonia, in that order, remained the top three leading causes of death in 2005. Among the top 10 causes of death, there were increases in four causes: diabetes mellitus, the fourth leading cause of death, with a 4.6% increase; accidents except poisoning by psychoactive substance, the eighth leading cause of death, with a 10.9% increase; use of or poisoning by psychoactive substance, the ninth leading cause of death, with a 6% increase; and essential hypertension and renal diseases, the tenth leading cause of death, with a 5.3% increase. All remaining causes of death — diseases of the heart, malignant neoplasms, cerebrovascular diseases, influenza/pneumonia, chronic lower respiratory disease, and HIV diseases — decreased in number. The number of HIV disease deaths decreased 2.2% from 1,451 in 2004 to 1,419 in 2005, comparable to the 1985 level for AIDS alone at 1,663. Diabetes mellitus deaths increased from 1,734 in 2004 to 1,813 in 2005, after an 8.3% decrease from 2003 to 2004. Deaths due to cerebrovascular diseases decreased by 8.2% and deaths due to chronic lower respiratory disease decreased by 5.4% from 2004 to 2005. Alzheimer’s disease deaths continued to rise, and is now the 9th leading cause of death in the 85-and-over age group, up from 10th in 2004.

There was a 0.7% decrease (from 17,359 deaths in 2004 to 17,232 in 2005) in the number of deaths under age 65. This decline was seen among all leading causes except accidents and use of or poisoning by psychoactive substance. The top three leading causes of death among those age 65 and under remain the same in 2005; they are cancer, heart disease, and HIV disease. Deaths due to colorectal cancer dropped about 20% among people under 65 from 2004 to 2005.

**Notable Changes in Causes of Death** – Deaths due to exposure to excessive natural heat and cold were 6 and

(Highlights continued on inside back cover)



DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Bureau of Vital Statistics

Michael R. Bloomberg, Mayor  
Thomas R. Frieden, M.D., M.P.H., Commissioner

<http://www.nyc.gov/health>

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