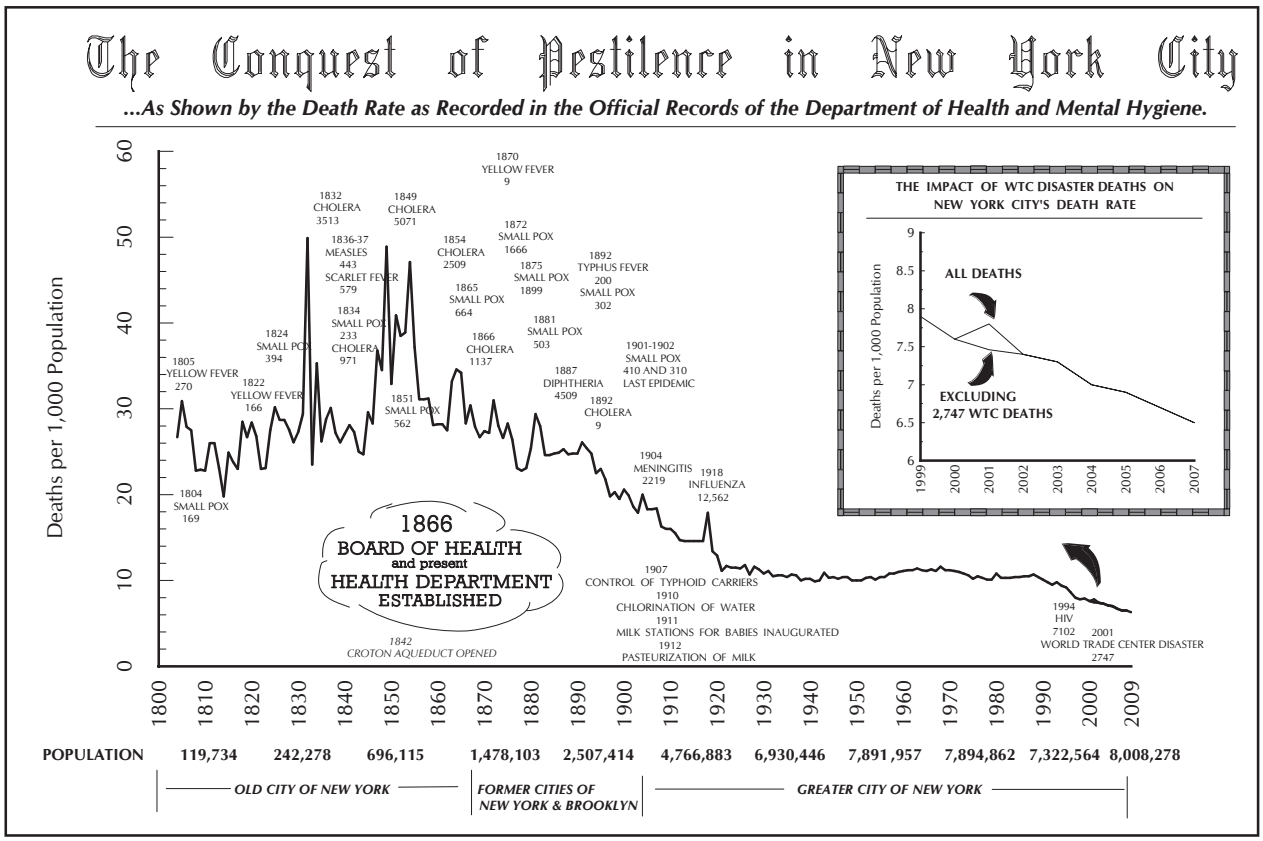
SUMMARY OF VITAL STATISTICS 2009
THE CITY OF NEW YORK



BUREAU OF VITAL STATISTICS, NEW YORK CITY DEPARTMENT OF HEALTH AND MENTAL HYGIENE
125 WORTH STREET, CN 7, NEW YORK, NEW YORK 10013

Michael R. Bloomberg, Mayor Thomas Farley, MD, MPH, Commissioner

SUMMARY OF VITAL STATISTICS 2009
THE CITY OF NEW YORK

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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, Darlene Kelley, Ying Sun, PhD, Gil Maduro, PhD. Ian Hartman-O'Connell wrote most of the text for the charts and the maps. The data are derived from vital event certificates filed with and processed by the staff of the Offices of Vital Records and Vital Statistics. The New York City Office of the City Clerk provided marriage license data for Table 1.1 and Table 1.3.

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NEW YORK CITY DEPARTMENT OF HEALTH AND MENTAL HYGIENE
Thomas Farley, MD, MPH
Commissioner

Dear Fellow New Yorker:

For nearly 150 years, the New York City Department of Health and Mental Hygiene has met a myriad of public health challenges: from epidemics of Yellow Fever and cholera in the 1800's, and AIDS and tuberculosis in the 1900s, to today's epidemic of chronic diseases, including smoking, obesity, diabetes and heart disease. In responding to these threats, we touch the lives of more than 8 million New Yorkers many times each day through such initiatives as calorie postings, trans fat-free foods, smoke-free workplaces and programs to promote physical activity and protect New Yorkers from environmental health hazards.

Each year, our *Summary of Vital Statistics* presents data on numerous, important health indicators, such as the infant mortality rate, leading causes of death as well as the standards set forth in our *Take Care New York 2012* action plan. We use this information to monitor the health of New Yorkers and track areas where we've made progress or that need additional attention.

Here are some highlights from our 2009 report:

- The overall death rate hit an all time-low of 6.3 per 1,000 population in 2009: almost 8,000 fewer people died than in 2000.
- The number of deaths from cardiovascular disease continues to decline, from 24,016 in 2008 to 22,950 in 2009.
- The number of deaths attributed to tobacco is at an all-time low: 7,201.

Vital Statistics data help us determine how we can continue to adapt to New York's constantly changing health challenges. But there is one thing that has not changed over the past one hundred fifty years. We have never altered our goal: to help all New Yorkers live longer and healthier lives.

Sincerely,

Thomas Farley, M.D., M.P.H.
Commissioner

Introduction

The *2009 Annual Summary of Vital Statistics* presents births and deaths across a variety of demographic indicators. The **Characteristics of the New York City Population** section describes the New York City population by traits such as age group, sex, and race/ethnicity. In addition, key statistics, including population counts, live births, fertility rates, marriages, deaths, and infant mortality, dating back to 1898 provide an historical context for understanding our city's health today. The **Mortality** section details leading causes of death, as well as selected causes of death by sex, age, race/ethnicity, and geography. **Infant and Maternal Mortality** are considered key indicators of a population's overall health and appear in a separate section, with special emphasis on infant mortality. Statistics on birth, spontaneous terminations, and induced terminations of pregnancy are presented in the **Pregnancy Outcomes** section, where special attention is given to teen pregnancy. To assist readers in interpreting the data, the Technical Notes and Historical Technical Notes sections provide information on methodology, definitions, and descriptions of the vital event certificate forms (both paper and electronic) that comprise the data collection instruments.

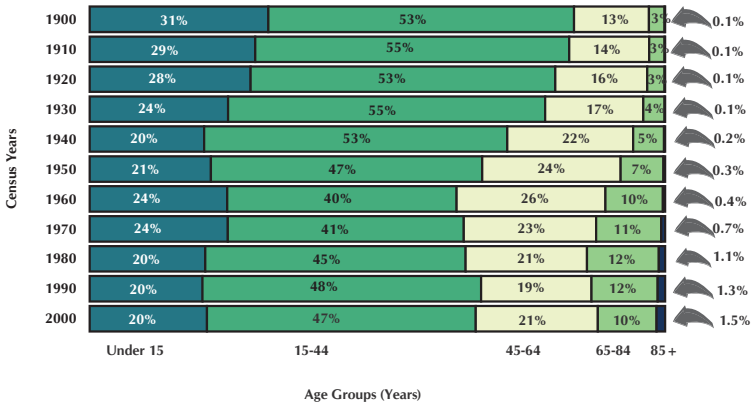
This year's *Annual Summary of Vital Statistics* is organized differently from previous volumes. Please refer to the Index to Tables from the *Annual Summary of Vital Statistics, 2008* on page 99 for the previously used table numbers.

Characteristics of the New York City Population - Overview

The New York City Bureau of Vital Statistics uses population counts in the US decennial census and the yearly population estimates from the New York City Department of City Planning. In this section, we report on the composition of the New York City population by sex, age distribution, and race/ethnicity. Most population measures are from annual estimates, but when a higher degree of detail is required, the actual decennial census counts are used.

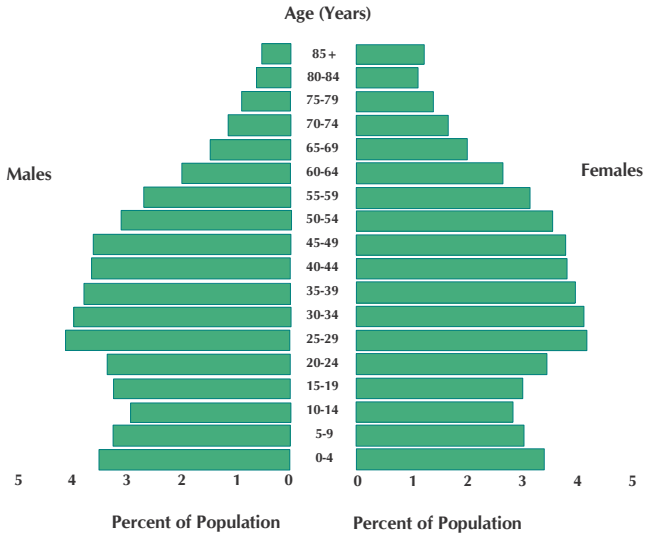
This section also includes a breakdown of birth, fertility, marriage, death, and infant mortality data from 1898 to the present (Table 1.1). Table 1.3 breaks down the number of marriages, births, deaths, and infant deaths by month and average per day. Tables 1.4 and 1.5 list the most popular baby names in New York City, listed historically back to 1898 and broken down by gender and ethnicity for current data. Please see Technical Notes sections "Population" and "Demographic Characteristics of Vital Events" for more detail on population and its usage.

Figure 1.1 Age Composition of the Population, New York City, 1900-2000



The changing age composition of New York 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 11%, while the proportion 85 and over increased 15%. Over this ten-year period, the median age of city residents increased from 33.7 to 34.2 years.

Figure 1.2 Age-Sex Composition of the Population, New York City, 2009 Estimate



This age-sex pyramid shows each age-sex group as a percentage of the total population. There are more females than males overall, 52% to 48%, and more females in every age group over 19. The greatest difference is among those aged 85 and over, where there are more than twice as many women as men. The smaller segments of both males and females in the 5-9 and 10-14 age groups reflect the lower number of births in late 1990s and early 2000s compared to births in the past 5 years.

Table 1.1 Population, Live Births, Fertility Rates, Marriages, Deaths, and Infant Mortality, New York City, 1898-2009

Year	Population April 1	Live Births		Fertility Rates	Marriages‡		Deaths		Infant Mortality	
		Total Reported*	Rate per 1,000 Population	Per 1,000 Women Aged 15-44	Total Reported*	Rate per 1,000 Population	Total Reported*	Rate per 1,000 Population	Deaths Under One Year*	Rate per 1,000 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
1956-1960	7,806,000	166,949	21.4		68,281	8.7	84,290	10.8	4,290	25.7
1961-1965	7,816,200	165,197	21.1		68,318	8.7	87,597	11.2	4,333	26.2
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	63.6	58,637	8.3	76,625	10.8	1,719	16.1
1981	7,097,000	108,547	15.3	63.9	61,775	8.7	73,329	10.3	1,678	15.5
1982	7,122,000	111,487	15.7	65.1	66,619	9.4	73,083	10.3	1,706	15.3
1983	7,147,000	112,353	15.7	65.1	68,164	9.5	73,544	10.3	1,603	14.3
1984	7,172,000	113,332	15.8	65.1	76,336	10.6	74,278	10.4	1,540	13.6
1985	7,197,000	118,542	16.5	67.6	77,897	10.8	74,852	10.4	1,591	13.4
1986	7,222,000	122,108	16.9	69.0	82,199	11.4	75,702	10.5	1,566	12.8
1987	7,247,000	127,386	17.6	71.5	76,194	10.5	76,448	10.5	1,673	13.1
1988	7,272,000	132,226	18.2	73.6	74,137	10.2	77,817	10.7	1,770	13.4
1989	7,297,000	137,673	18.9	76.0	69,758	9.6	75,957	10.4	1,827	13.3
1990	7,322,564	139,630	19.1	76.5	71,301	9.7	73,875	10.1	1,620	11.6
1991	7,388,000	138,148	18.7	75.3	69,314	9.4	72,421	9.8	1,575	11.4
1992	7,455,000	136,002	18.2	73.8	71,947	9.7	71,001	9.5	1,390	10.2
1993	7,522,000	133,583	17.8	72.1	72,490	9.6	73,408	9.8	1,366	10.2
1994	7,590,000	133,662	17.6	71.8	70,438	9.3	71,038	9.4	1,207	9.0
1995	7,658,000	131,009	17.1	70.1	71,507	9.3	70,769	9.2	1,155	8.8
1996	7,727,000	126,901	16.4	67.5	79,361	10.3	66,784	8.6	992	7.8
1997	7,796,000	123,313	15.8	65.3	80,027	10.3	62,506	8.0	881	7.1
1998	7,866,000	124,252	15.8	65.5	53,661	6.8	61,010	7.8	843	6.8
1999	7,937,000	123,739	15.6	64.9	55,075	6.9	62,470	7.9	848	6.9
2000	8,008,278	125,563	15.7	65.5	58,291	7.3	60,839	7.6	839	6.7
2001†	8,055,166	124,023	15.4 †	64.7 †	72,587	9.0 †	62,964	7.8 †	760	6.1
2001†	8,055,166	Excluding World Trade Center disaster deaths					60,218	7.5 †		
2002†	8,072,011	122,937	15.2 †	64.4 †	65,490	8.1 †	59,651	7.4 †	742	6.0
2003†	8,085,742	124,345	15.4 †	65.2 †	61,101	7.6 †	59,213	7.3 †	807	6.5
2004†	8,104,079	124,099	15.3 †	65.3 †	62,057	7.7 †	57,466	7.1 †	760	6.1
2005†	8,143,197	122,725	15.1 †	64.8 †	66,348	8.1 †	57,068	7.0 †	732	6.0
2006†	8,214,426	125,506	15.3 †	66.5 †	65,619	8.0 †	55,391	6.7 †	740	5.9
2007	8,274,527	128,961	15.6	68.5	66,483	8.0	54,073	6.5	697	5.4
2008	8,363,710	127,680	15.3	68.0	66,670	8.0	54,193	6.5	698	5.5
2009	8,391,881	126,774	15.1	66.7	65,542	7.8	52,881	6.3	668	5.3

* Figures prior to 1966 are averages across the years presented; single-year figures prior to 1966 appear in the annual summaries for 1965 and earlier. Figures for 1898-1913 births are estimated. See Technical Notes: Population, Citywide.

† Population data may vary by publication year. All estimates are at July 1 of each year. See Technical Notes: Population, Citywide.

‡ Number of marriages is provided by the New York City Office of City Clerk.

Table 1.2 **Population Estimates by Age, Mutually Exclusive Race and Hispanic Origin, and Sex, New York City, 2009**

	All			Hispanic			Non-Hispanic White			Non-Hispanic Black			Asian and Pacific Islander			Other or Multiple Race		
Age in Years	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
All Ages	8,391,881	4,011,243	4,380,638	2,315,041	1,127,880	1,187,161	2,985,702	1,445,266	1,540,436	1,954,038	881,116	1,072,922	1,011,374	496,451	514,923	125,726	60,530	65,196
Under 5	580,330	296,384	283,946	200,608	102,008	98,600	157,206	80,563	76,643	134,490	68,525	65,965	71,739	36,880	34,859	16,287	8,408	7,879
5-9	526,440	268,773	257,667	174,222	88,466	85,756	145,373	74,896	70,477	126,760	64,085	62,675	67,467	34,802	32,665	12,618	6,524	6,094
10-14	475,648	242,405	233,243	160,632	81,748	78,884	124,345	63,900	60,445	127,167	64,245	62,922	54,974	28,226	26,748	8,530	4,286	4,244
15-19	516,709	261,637	255,072	180,102	91,154	88,948	128,340	65,818	62,522	145,613	72,799	72,814	54,178	27,606	26,572	8,476	4,260	4,216
20-24	560,258	275,626	284,632	183,646	93,822	89,824	161,964	79,180	82,784	144,323	68,368	75,955	61,149	29,877	31,272	9,176	4,379	4,797
25-29	724,036	356,192	367,844	206,669	108,592	98,077	258,157	125,198	132,959	158,504	74,710	83,794	89,392	42,309	47,083	11,314	5,383	5,931
30-34	702,385	341,317	361,068	191,510	98,907	92,603	270,640	131,088	139,552	138,452	63,669	74,783	92,053	43,025	49,028	9,730	4,628	5,102
35-39	629,370	304,648	324,722	166,240	82,743	83,497	240,856	120,779	120,077	127,337	55,787	71,550	86,813	41,476	45,337	8,124	3,863	4,261
40-44	599,342	293,219	306,123	160,151	78,090	82,061	214,459	111,955	102,504	137,278	60,096	77,182	79,731	39,362	40,369	7,723	3,716	4,007
45-49	601,866	292,620	309,246	155,328	73,620	81,708	209,231	109,052	100,179	150,289	66,010	84,279	79,030	40,097	38,933	7,988	3,841	4,147
50-54	554,133	263,931	290,202	134,399	61,697	72,702	203,358	101,995	101,363	136,300	59,356	76,944	73,079	37,474	35,605	6,997	3,409	3,588
55-59	489,884	227,711	262,173	112,155	50,089	62,066	195,822	95,250	100,572	115,087	48,950	66,137	60,897	30,648	30,249	5,923	2,774	3,149
60-64	413,925	184,977	228,948	91,593	39,987	51,606	178,358	83,094	95,264	93,583	37,652	55,931	46,072	22,319	23,753	4,319	1,925	2,394
65-69	301,752	129,925	171,827	66,947	28,585	38,362	129,041	58,215	70,826	71,629	27,217	44,412	31,279	14,704	16,575	2,856	1,204	1,652
70-74	238,213	100,522	137,691	50,651	20,919	29,732	105,613	46,535	59,078	54,982	20,623	34,359	24,946	11,676	13,270	2,021	769	1,252
75-79	185,763	74,558	111,205	35,523	13,451	22,072	91,213	38,674	52,539	39,866	14,076	25,790	17,764	7,807	9,957	1,397	550	847
80-84	145,470	52,693	92,777	23,874	8,040	15,834	80,667	30,844	49,823	28,806	9,001	19,805	11,061	4,463	6,598	1,062	345	717
85 & Over	146,357	44,105	102,252	20,791	5,962	14,829	91,059	28,230	62,829	23,572	5,947	17,625	9,750	3,700	6,050	1,185	266	919

Data Source: U.S. Census Bureau, as of August, 2010.

Table 1.3 Marriages, Births, Deaths, and Infant Deaths by Month and Average per Day, New York City, 2009

Months	Number				Average Per Day			
	Marriages*	Births	Deaths	Infant Deaths	Marriages	Births	Deaths	Infant Deaths
January	4,069	10,658	4,967	59	131	344	160	1.9
February	4,553	9,808	4,338	58	163	350	155	2.1
March	5,147	10,675	4,557	63	166	344	147	2.0
April	5,698	10,332	4,274	49	190	344	142	1.6
May	5,656	10,424	4,422	59	182	336	143	1.9
June	6,208	10,664	4,180	55	207	355	139	1.8
July	6,438	11,112	4,359	57	208	358	141	1.8
August	6,649	10,647	4,353	53	214	343	140	1.7
September	6,106	10,866	4,073	62	204	362	136	2.1
October	5,452	10,829	4,470	56	176	349	144	1.8
November	4,527	10,056	4,262	55	151	335	142	1.8
December	5,039	10,703	4,626	42	163	345	149	1.4
Total	65,542	126,774	52,881	668	180	347	145	1.8

* See Technical Notes: Vital Event Reporting.

Table 1.4 Most Popular Baby Names by Sex, New York City, Selected Years

Rank	Girls										
	1898	1928	1948	1980	1990	2000	2005	2006	2007	2008	2009
1	Mary	Mary	Linda	Jennifer	Stephanie	Ashley	Emily	Ashley	Isabella*	Sophia	Isabella
2	Catherine	Marie	Mary	Jessica	Jessica	Samantha	Ashley	Emily	Sophia*	Isabella	Sophia
3	Margaret	Annie	Barbara	Melissa	Ashley	Kayla	Kayla	Isabella	Emily	Emily	Mia
4	Annie	Margaret	Patricia	Nicole	Jennifer	Emily	Sarah	Sarah	Ashley	Olivia	Emily
5	Rose	Catherine	Susan	Michelle	Amanda	Brianna	Isabella	Kayla	Sarah	Sarah	Olivia
6	Marie	Gloria	Kathleen	Elizabeth	Samantha	Sarah	Samantha	Sophia	Kayla	Madison	Madison
7	Esther	Helen	Carol	Lisa	Nicole	Jessica	Sophia	Mia	Mia	Ashley	Sarah
8	Sarah	Teresa	Nancy	Christina	Christina	Nicole	Nicole	Madison	Olivia	Mia	Ashley
9	Frances	Joan	Margaret	Tiffany	Melissa	Michelle	Olivia	Brianna*	Samantha	Samantha	Leah
10	Ida	Barbara	Diane	Maria	Michelle	Amanda	Rachel	Samantha*	Rachel	Emma	Emma

Rank	Boys										
	1898	1928	1948	1980	1990	2000	2005	2006	2007	2008	2009
1	John	John	Robert	Michael	Michael	Michael	Michael	Michael	Daniel	Jayden	Jayden
2	William	William	John	David	Christopher	Justin	Daniel	Daniel	Jayden	Daniel	Daniel
3	Charles	Joseph	James	Jason	Jonathan	Christopher	Joshua	Matthew	Michael	Michael	Ethan
4	George	James	Michael	Joseph	Anthony	Matthew	David	Joshua	Matthew	Matthew	Michael
5	Joseph	Richard	William	Christopher	David	Daniel	Justin	Justin	Justin	David	David
6	Edward	Edward	Richard	Anthony	Daniel	Anthony	Matthew	David	Joshua	Joshua	Justin
7	James	Robert	Joseph	John	Joseph	Joshua	Anthony	Christopher	David	Justin	Matthew
8	Louis	Thomas	Thomas	Daniel	Matthew	David	Christopher	Joseph	Anthony	Anthony	Joshua
9	Francis	George	Stephen	Robert	John	Joseph	Joseph	Anthony	Christopher	Christopher	Alexander
10	Samuel	Louis	David	James	Andrew	Kevin	Nicholas	Jayden	Joseph	Ethan* Ryan*	Christopher

* Tied ranks.

Table 1.5 Most Popular Baby Names by Sex and Mother's Ethnic Group, New York City, 2009

Rank	Girls				Boys			
	Hispanic	NH-Black	NH-White	Asian & P.I.	Hispanic	NH-Black	NH-White	Asian & P.I.
1	Isabella	Madison	Olivia	Sophia	Jayden	Jayden	Michael	Ryan
2	Mia	Kayla	Sarah	Emily	Justin	Joshua	David	Ethan
3	Ashley	Nevaeh	Rachel	Chloe	Angel	Elijah	Daniel	Eric
4	Emily	Jada	Leah	Olivia*	Christopher	Justin*	Joseph	Daniel
5	Sophia	Malia	Esther	Tiffany*	Matthew	Michael*	Jacob	Kevin
6	Brianna	Makayla	Emma*	Fiona	Alexander	Jeremiah	Moshe	Justin
7	Melanie	Aaliyah	Sophia*	Jessica	Anthony*	Ethan	Jack	Jayden
8	Samantha	London	Chana †	Vivian	Daniel*	Christian	Benjamin	Lucas
9	Genesis	Arianna*	Chaya †	Isabella	Ethan	Daniel	Samuel	Jason*
10	Kayla	Brianna*	Isabella †	Nicole	David	Josiah	James* Matthew*	Vincent*

* , † Tied ranks.

NH = non-Hispanic; P.I. = Pacific Islander. Mothers of other, multiple race, or unknown ethnic group not shown.

Mortality Contents

Mortality Contents (Continued)

Mortality - Overview

Mortality data are derived from death certificates, which contain demographic information such as the decedents' sex, race, and residence as well as information about the timing and cause of the death. In New York City, these certificates are completed by physicians and funeral directors, then more than 90% are submitted electronically through the Electronic Death Registration System (EDRS). The Office of Chief Medical Examiner investigates all deaths not due to natural causes, such as accidents and suicides.

This section gives a broad understanding of mortality by causes in New York City, and examines deaths due to specific causes and deaths in subpopulations of New Yorkers. Table 2.1 provides an overview of public health problems in the city by giving selected causes of death among New Yorkers overall, and by sex and borough. The mortality counts and rates are then presented by demographic characteristics (Tables 2.2–.6), followed by data on leading causes of death by age group and sex subpopulations (Table 2.7). Additional tables and figures on selected causes of death such as lung cancer, HIV/AIDS, and deaths due to smoking and alcohol use provide more detailed information on some leading public health concerns in New York City. The section includes 3 special measures of mortality: premature death, life expectancy, and years of potential life lost (see below for definitions).

Glossary of Terms

External Causes: Deaths resulting from accident, suicide, assault, legal intervention, events of undetermined intent, operations of war and their sequelae, and complications of medical and surgical care.

Natural Causes: Deaths resulting from diseases rather than external causes, such as violence or drug use.

Leading Causes: The most frequent causes of death ranked in descending order. Heart disease and cancer are usually the leading causes of death in New York City.

Life Expectancy: The expected number of years of life remaining for people of a certain age at a certain point in time.

Occupational Deaths: Fatal work-related injuries that occurred in New York City, regardless of the residence of the decedent or location of the deaths.

Premature Deaths: Any deaths that occur before the age of 65 years.

Selected Causes: The Selected Causes are based on the National Center for Health Statistics (NCHS) list of 113 Selected Causes of Death.

Years of Potential Life Lost (YPLL): Years of life lost due to premature deaths before a defined cutoff age. New York City Vital Statistics tables use a cutoff age of 75 years.

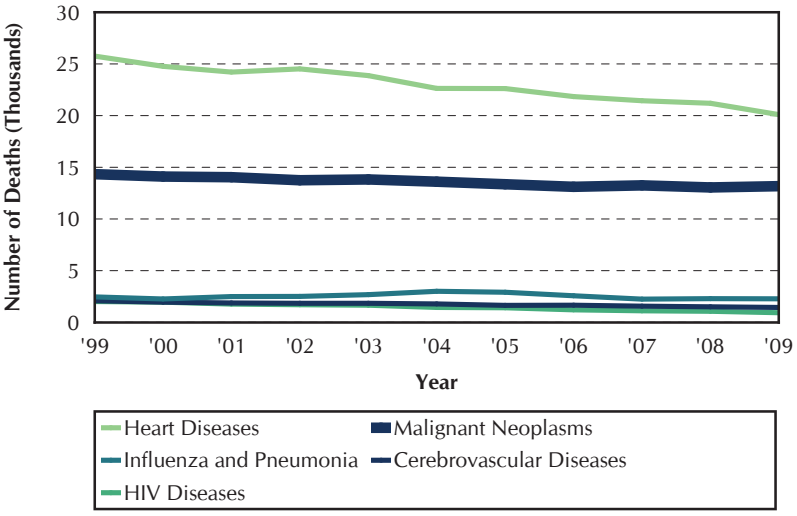


Figure 2.1 Deaths from Leading Causes, New York City, 1999-2009

The figure displays top 5 leading causes of death in New York City in 1999 and their trends over time through 2009. Heart disease, malignant neoplasms (cancer), and influenza and pneumonia remained the top 3 leading causes of death in 2009. HIV disease has not been among the top 5 leading causes since 2003; cerebrovascular disease has not been among the top 5 leading causes since 2007. Diabetes mellitus and chronic lower respiratory disease ranked 4 and 5 respectively in 2009 as top 5 leading causes. The number of New Yorkers who died from heart disease fell by 5.2% from 2008 to 2009, and has fallen by nearly 22% during the last decade. From 2008 to 2009, cancer deaths increased slightly (1%), the number of deaths due to cerebrovascular disease fell 4.2%, and the number deaths due to HIV decreased by more than 13%.

Figure 2.2 Deaths from Leading Causes of Malignant Neoplasms (Cancers), New York City, 1999-2009

The leading category of cancer deaths in 2009 was trachea, bronchus, and lung. While this category caused most cancer deaths, the overall number fell 3.6% since 2008 and 13.7% since 1999. Other leading causes of death among cancers included colorectal, breast (female), pancreas, and prostate. Since 2008 the number of deaths due to colorectal cancer fell slightly (0.8%), while the number of deaths among females due to breast cancer slightly increased (0.4%). However, over the last decade, the number of deaths due to breast cancer has decreased 15.0%.

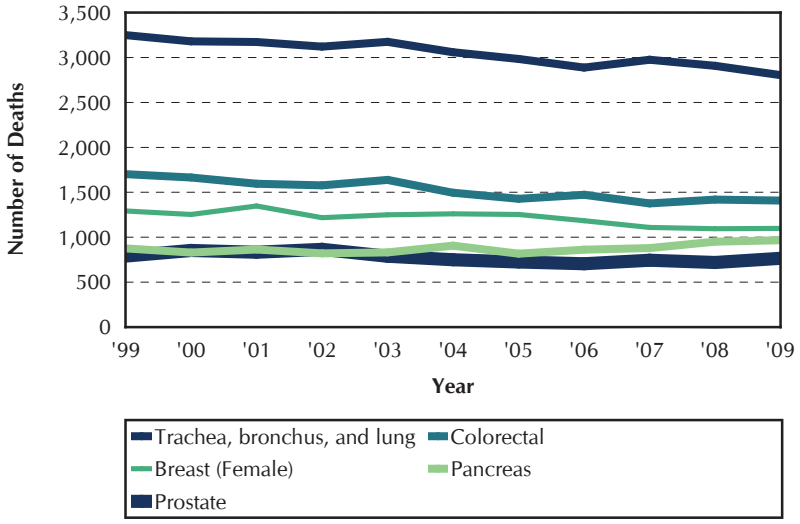


Table 2.1 **Deaths by Selected Underlying Cause, Borough of Residence, Sex, and ICD-10/ICD-9 Comparability Ratio, New York City, 2009**

Cause (Codes from International Classification of Diseases (ICD), Tenth Revision, 1999)	Total	BOROUGH OF RESIDENCE							SEX		ICD-10/ICD-9 Comparability Ratio
		Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-Residents	Residence Unknown	Male	Female	
Total Deaths	52,881	9,613	8,732	15,127	12,212	3,343	3,730	124	25,901	26,980	
Natural Causes	50,097	9,169	8,234	14,329	11,618	3,172	3,498	77	23,904	26,193	
1.* Tuberculosis (A16-A19)	25	4	3	9	5	1	3	–	16	9	0.88
Respiratory tuberculosis (A16)	18	2	3	5	5	1	2	–	11	7	0.94
2.* Septicemia (A40-A41)	251	39	57	80	48	9	17	1	104	147	1.19
3.* Viral hepatitis (B15-B19)	393	78	99	92	67	14	41	2	256	137	0.71
4.* Human Immunodeficiency virus (HIV) Disease (B20-B24)	933	214	317	252	88	22	33	7	603	330	1.08
5. All Other Infective and Parasitic Diseases (Rest of A01-B99)	298	65	58	90	55	11	19	–	147	151	
6.* Malignant Neoplasms (C00-C97)	13,180	2,573	2,008	3,481	2,843	792	1,474	9	6,541	6,639	1.01
Lip, oral cavity, and pharynx (C00-C14)	215	45	37	49	45	16	23	–	157	58	0.96
Esophagus (C15)	313	54	51	77	67	20	44	–	230	83	0.99
Stomach (C16)	470	80	57	128	139	25	41	–	273	197	1.01
Colon, rectum, and anus (C18-C21)	1,408	240	223	405	328	86	124	2	672	736	1.00
Liver and intrahepatic bile ducts (C22)	642	132	123	154	131	38	63	1	433	209	0.96
Pancreas (C25)	967	202	121	255	209	64	116	–	483	484	1.00
Larynx (C32)	119	27	22	37	22	4	7	–	89	30	1.01
Trachea, bronchus, and lung (C33-C34)	2,804	549	429	716	624	226	259	1	1,500	1,304	0.98
Melanoma of skin (C43)	124	23	8	29	27	7	30	–	79	45	0.95
Mesothelioma (C45)	31	4	2	8	7	4	6	–	26	5	
Breast (C50)	1,110	221	178	315	228	63	105	–	11	1,099	1.01
Cervix uteri (C53)	139	21	21	51	26	8	12	–	–	139	1.00
Corpus uteri and uterus, part unspecified (C54-C55)	282	50	50	87	54	9	31	1	–	282	1.02
Ovary (C56)	358	71	47	92	73	23	52	–	–	358	0.99
Prostate (C61)	765	189	122	208	151	24	70	1	765	–	1.01
Kidney and renal pelvis (C64-C65)	268	44	36	77	64	16	31	–	187	81	1.00
Bladder (C67)	296	59	39	78	69	17	33	1	196	100	1.00
Meninges, brain, and other parts of central nervous system (C70-C72)	280	63	38	67	57	13	42	–	154	126	0.98
Lymphoid, hematopoietic and related tissues (C81-C96)	1,296	248	192	323	241	67	224	1	696	600	1.00
Hodgkin's disease (C81)	39	4	7	10	7	2	9	–	24	15	1.00
Non-Hodgkin's lymphoma (C82-C85)	489	91	70	134	90	28	75	1	269	220	0.98
Multiple myeloma and immunoproliferative neoplasms (C88, C90)	249	48	48	63	47	9	34	–	143	106	1.04
Leukemia (C91-C95)	513	104	67	115	95	27	105	–	259	254	1.01
7.* In Situ or Benign Neoplasms and Neoplasms of Uncertain or Unknown Behavior (D00-D48)	246	58	24	64	49	9	42	–	132	114	1.63
8.* Anemias (D50-D64)	58	6	18	14	9	2	9	–	25	33	0.94
9.* Diabetes Mellitus (E10-E14)	1,690	271	347	533	359	112	67	1	802	888	1.02
10.† Mental and Behavioral Disorders Due to Use of Alcohol (F10)	216	51	39	57	48	8	7	6	164	52	
11. Mental and Behavioral Disorders Due to Use of Psychoactive Substance Excluding Alcohol and Tobacco (F11-F16, F18-F19) ‡	136	29	62	19	9	10	5	2	94	42	
12. Diseases of Nervous System (G00-G98)	1,064	334	153	229	242	36	68	2	458	606	
* Meningitis (G00,G03)	17	3	–	6	7	–	–	1	11	6	1.01
* Parkinson's disease (G20-G21)	181	58	26	38	37	12	10	–	118	63	1.01
* Alzheimer's disease (G30)	520	190	68	99	124	12	27	–	160	360	1.58
13. Major Cardiovascular Diseases (I00-I78)	22,950	3,631	3,366	7,179	5,938	1,655	1,147	34	10,522	12,428	1.00
* Diseases of heart (I00-I09, I11, I13, I20-I51)	20,086	3,000	2,890	6,381	5,309	1,502	974	30	9,305	10,781	0.99
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	48	6	12	12	12	1	5	–	16	32	0.88
Hypertensive heart disease (I11)	1,988	395	390	675	351	102	70	5	939	1,049	0.80
Hypertensive heart and renal disease (I13)	112	17	34	26	24	4	7	–	64	48	1.13
Chronic ischemic heart disease (I20, I25)	14,380	1,888	1,840	4,647	4,189	1,123	673	20	6,640	7,740	1.01
Acute myocardial infarction (I21-I22)	2,247	370	378	725	453	216	102	3	1,041	1,206	0.99
Cardiomyopathy (I42)	143	19	24	46	29	11	14	–	105	38	

Continued on the next page.

Table 2.1 Deaths by Selected Underlying Cause, Borough of Residence, Sex, and ICD-10/ICD-9 Comparability Ratio, New York City, 2009 (Continued)

Cause (Codes from International Classification of Diseases (ICD), Tenth Revision, 1999)	Total	BOROUGH OF RESIDENCE							SEX		ICD-10/ICD-9 Comparability Ratio
		Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-Residents	Residence Unknown	Male	Female	
Heart failure (I50)	321	101	77	49	65	14	15	–	132	189	1.04
* Essential hypertension and hypertensive renal disease (I10, I12, I15) §	938	201	174	288	189	37	47	2	389	549	1.12
* Cerebrovascular diseases (I60-I69)	1,448	344	228	381	315	92	86	2	590	858	1.05
* Atherosclerosis (I70)	238	41	40	72	67	5	13	–	103	135	0.97
* Aortic aneurysm and dissection (I71)	149	29	15	32	35	18	20	–	88	61	1.00
14.* Influenza and Pneumonia (J09-J18)	2,278	458	373	672	521	152	97	5	1,047	1,231	0.70
H1N1 flu (J09)	54	6	18	14	10	3	3	–	25	29	0.96
15.* Chronic Lower Respiratory Diseases (J40-J47)	1,529	319	298	343	362	132	75	–	687	842	1.04
Emphysema (J43)	150	33	27	41	31	12	6	–	80	70	0.96
Asthma (J45-J46)	152	24	59	41	15	9	4	–	68	84	0.89
16. Pneumoconiosis Due to Asbestos and Other Mineral Fibres (J61)	4	–	1	–	3	–	–	–	4	–	
17.* Pneumonitis Due to Solids and Liquids (J69)	31	4	15	7	3	–	2	–	19	12	1.10
18.* Peptic Ulcer (K25-K28)	101	23	22	23	23	7	3	–	62	39	0.97
19.* Chronic Liver Disease and Cirrhosis (K70, K73-K74)	494	88	98	132	110	25	39	2	353	141	1.03
Alcoholic liver disease (K70)	332	55	74	83	80	12	26	2	262	70	1.00
20.* Cholelithiasis and Other Disorders of Gallbladder (K80-K82)	59	11	8	19	12	5	4	–	31	28	0.96
21.* Nephritis, Nephrotic Syndrome and Nephrosis (N00-N07, N17-N19, N25-N27)	371	67	66	112	97	11	18	–	176	195	1.26
Renal failure (N17-N19)	315	60	48	99	85	10	13	–	143	172	1.33
22.* Pregnancy, Childbirth, and the Puerperium (O00-O99)	42	2	10	14	14	2	–	–	–	42	1.14
Maternal causes|| (A34, O00-O95, O98-O99)	31	1	8	11	10	1	–	–	–	31	
23.* Certain Conditions Originating in the Perinatal Period (P00-P96)	363	45	81	114	64	11	47	1	202	161	1.08
24.* Congenital Malformations, Deformations, and Chromosomal Abnormalities (Q00-Q99)	242	25	53	61	56	7	39	1	136	106	0.90
25. Symptoms, Signs and Abnormal Findings, Not Elsewhere Classified (R00-R94, R96-R99)	314	134	49	65	48	3	14	1	116	198	0.98
Pending final determination (R99)	0	–	–	–	–	–	–	–	–	–	
26. Sudden Infant Death Syndrome (R95)	1	–	1	–	–	–	–	–	1	–	1.06
27. All Other Natural Causes (Rest of A00-R99)	2,882	646	626	682	555	139	231	3	1,231	1,651	
External Causes	2,784	444	498	798	594	171	232	47	1,997	787	
Injury by Firearms (W32-W34, X72-X74, X93-X95, Y22-Y24, Y35.0)	389	42	92	160	53	18	22	2	360	29	1.00
28.† Accidents (V01-X59,Y85-Y86)	1,565	263	266	397	356	113	150	20	1,056	509	1.03
Accidental poisoning by psychoactive substances, excluding alcohol and tobacco (X40-X42, X44) ‡	562	96	109	152	93	51	54	7	396	166	1.04
† 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) ‡	698	125	171	171	102	61	59	9	490	208	
† Accidents except poisoning by psychoactive substance use	1,003	167	157	245	263	62	96	13	660	343	
Motor vehicle accidents ¶	291	40	45	74	79	21	29	3	200	91	0.95
Accidental falls (W00-W19)	388	74	61	90	109	23	29	2	222	166	0.77
29.* Intentional Self-harm (Suicide) (U03**, X60-X84, Y87.0)	475	82	82	121	120	27	36	7	360	115	1.00
30.* Assault (Homicide) (U01-U02**, X85-Y09, Y87.1)	496	56	110	203	77	18	29	3	416	80	1.00
31.* Legal Intervention (Y35, Y89.0)	10	1	3	4	1	1	–	–	9	1	0.94
32. Events of Undetermined Intent (Y10-Y34, Y87.2, Y89.9)	201	36	31	62	33	11	11	17	139	62	0.99
33.* Complications of Medical and Surgical Care (Y40-Y84, Y88)	37	6	6	11	7	1	6	–	17	20	0.63
34.* Operations of War and Their Sequelae (Y36,Y89.1)	0	–	–	–	–	–	–	–	–	–	

* 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.

† The following cause groups are not ranked as leading causes nationally, but are eligible to be ranked as leading causes in New York City because of the number of deaths and their public health importance: "Mental and behavioral disorders due to use of alcohol", "Mental and behavioral disorders due to use of psychoactive substances excluding alcohol and tobacco", and "Accidents", which in NYC excludes poisoning by psychoactive substances (excluding alcohol and tobacco).

‡ See Technical Notes: Deaths, Drug-Related Deaths.

§ Cause-of-death definition was changed in 2008 to reflect the addition of secondary hypertension (ICD-10 code I15).

|| See Technical Notes: Deaths, 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, and V89.2.

** U01-U03 were introduced by NCHS in 2001 for classifying and coding deaths due to acts of terrorism. Those codes are not part of the ICD-10.

Table 2.2 **Deaths and Death Rates per 1,000 Population* by Age, Ethnic Group, and Sex, New York City, 2009**

Age in Years	All						Hispanic						Non-Hispanic White						Non-Hispanic Black						Asian and Pacific Islander						Other/Multiple Race/Unknown		
	Total		Male		Female		Total		Male		Female		Total		Male		Female		Total		Male		Female		Total		Male		Female		Total	Male	Female
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	No.	No.
All Ages	52,881	6.3	25,901	6.5	26,980	6.2	9,178	4.0	4,868	4.3	4,310	3.6	26,210	8.8	12,504	8.7	13,706	8.9	13,775	7.0	6,513	7.4	7,262	6.8	3,035	3.0	1,654	3.3	1,381	2.7	683	362	321
Age-Adjusted		6.1		7.6		5.1		5.4		7.0		4.3		6.1		7.4		5.1		7.6		9.6		6.4		3.9		4.7		3.3			
Under 5	769	1.3	429	1.4	340	1.2	215	1.1	126	1.2	89	0.9	184	1.2	95	1.2	89	1.2	296	2.2	170	2.5	126	1.9	50	0.7	22	0.6	28	0.8	24	16	8
5-9	58	0.1	33	0.1	25	0.1	17	0.1	12	0.1	5	0.1	16	0.1	12	0.2	4	0.1	18	0.1	9	0.1	9	0.1	6	0.1	-	-	6	0.2	1	-	1
10-14	63	0.1	43	0.2	20	0.1	19	0.1	12	0.1	7	0.1	18	0.1	11	0.2	7	0.1	22	0.2	16	0.2	6	0.1	4	0.1	4	0.1	-	-	-	-	-
15-19	215	0.4	148	0.6	67	0.3	59	0.3	42	0.5	17	0.2	49	0.4	29	0.4	20	0.3	93	0.6	69	0.9	24	0.3	10	0.2	4	0.1	6	0.2	4	4	-
20-24	358	0.6	266	1.0	92	0.3	111	0.6	81	0.9	30	0.3	80	0.5	56	0.7	24	0.3	141	1.0	109	1.6	32	0.4	23	0.4	17	0.6	6	0.2	3	3	-
25-29	444	0.6	314	0.9	130	0.4	132	0.6	99	0.9	33	0.3	112	0.4	80	0.6	32	0.2	168	1.1	114	1.5	54	0.6	25	0.3	15	0.4	10	0.2	7	6	1
30-34	486	0.7	323	0.9	163	0.5	154	0.8	111	1.1	43	0.5	138	0.5	92	0.7	46	0.3	163	1.2	101	1.6	62	0.8	23	0.2	11	0.3	12	0.2	8	8	-
35-39	671	1.1	424	1.4	247	0.8	195	1.2	138	1.7	57	0.7	173	0.7	106	0.9	67	0.6	239	1.9	135	2.4	104	1.5	50	0.6	35	0.8	15	0.3	14	10	4
40-44	1,205	2.0	721	2.5	484	1.6	335	2.1	202	2.6	133	1.6	309	1.4	188	1.7	121	1.2	462	3.4	271	4.5	191	2.5	81	1.0	48	1.2	33	0.8	18	12	6
45-49	1,847	3.1	1,093	3.7	754	2.4	455	2.9	296	4.0	159	1.9	519	2.5	327	3.0	192	1.9	725	4.8	373	5.7	352	4.2	120	1.5	78	1.9	42	1.1	28	19	9
50-54	2,623	4.7	1,608	6.1	1,015	3.5	589	4.4	382	6.2	207	2.8	913	4.5	577	5.7	336	3.3	927	6.8	522	8.8	405	5.3	159	2.2	103	2.7	56	1.6	35	24	11
55-59	3,279	6.7	1,983	8.7	1,296	4.9	687	6.1	415	8.3	272	4.4	1,209	6.2	784	8.2	425	4.2	1,171	10.2	642	13.1	529	8.0	177	2.9	117	3.8	60	2.0	35	25	10
60-64	3,848	9.3	2,284	12.3	1,564	6.8	771	8.4	478	12.0	293	5.7	1,572	8.8	945	11.4	627	6.6	1,230	13.1	674	17.9	556	9.9	227	4.9	155	6.9	72	3.0	48	32	16
65-69	4,112	13.6	2,319	17.8	1,793	10.4	809	12.1	482	16.9	327	8.5	1,686	13.1	939	16.1	747	10.5	1,318	18.4	696	25.6	622	14.0	249	8.0	166	11.3	83	5.0	50	36	14
70-74	4,695	19.7	2,573	25.6	2,122	15.4	932	18.4	533	25.5	399	13.4	2,094	19.8	1,188	25.5	906	15.3	1,303	23.7	643	31.2	660	19.2	301	12.1	169	14.5	132	9.9	65	40	25
75-79	5,682	30.6	2,880	38.6	2,802	25.2	994	28.0	481	35.8	513	23.2	2,876	31.5	1,527	39.5	1,349	25.7	1,385	34.7	640	45.5	745	28.9	350	19.7	193	24.7	157	15.8	77	39	38
80-84	7,036	48.4	3,249	61.7	3,787	40.8	988	41.4	434	54.0	554	35.0	4,109	50.9	1,987	64.4	2,122	42.6	1,461	50.7	594	66.0	867	43.8	396	35.8	203	45.5	193	29.3	82	31	51
≥85	15,490	105.8	5,211	118.1	10,279	100.5	1,716	82.5	544	91.2	1,172	79.0	10,153	111.5	3,561	126.1	6,592	104.9	2,653	112.5	735	123.6	1,918	108.8	784	80.4	314	84.9	470	77.7	184	57	127
Mean age at death	71.9		68.0		75.6		66.2		62.0		70.8		76.8		73.4		80.0		66.6		62.4		70.4		70.6		68.2		73.4		69.4	63.5	76.1
Median age at death	76		71		80		70		65		75		81		77		84		69		65		74		75		71		79		75	68	81

* Population data are from U.S. Census Bureau's estimates as of September 2010.

Table 2.3 **Deaths by Ancestry* and Borough of Residence, New York City, 2009**

Ancestry	Total	Borough of Residence					Non-Residents	Residence Unknown
		Manhattan	Bronx	Brooklyn	Queens	Staten Island		
Total	52,881	9,613	8,732	15,127	12,212	3,343	3,730	124
Hispanic								
Puerto Rican	4,630	949	1,787	1,146	463	135	145	5
Dominican	1,518	601	452	192	219	8	43	3
Colombian	258	20	16	29	179	2	12	–
Ecuadorian	348	50	63	57	152	7	17	2
Mexican	266	27	42	99	71	12	14	1
Cuban	433	142	84	52	122	5	28	–
Other Hispanic	1,725	280	519	451	331	47	85	12
North, Central, and South American								
African American	10,834	2,171	2,483	3,602	1,925	213	412	28
American	10,946	2,918	1,163	2,117	2,523	806	1,413	6
Guyanese	641	12	61	222	319	7	20	–
Haitian	579	39	18	328	141	6	47	–
Jamaican	738	28	217	355	91	6	40	1
Trinidadian	335	16	16	223	62	–	18	–
All Other North, Central, and South American	908	88	146	463	148	16	45	2
European								
English	177	33	18	27	34	42	23	–
German	923	171	103	101	344	110	94	–
Irish	1,986	181	272	376	639	311	206	1
Italian	4,937	259	487	1,503	1,147	1,115	425	1
Polish	940	98	83	297	328	85	47	2
Russian	860	62	31	565	148	31	23	–
Other European	2,665	325	170	960	926	163	120	1
Asian								
Asian Indian	172	13	7	18	89	10	33	2
Bangladeshi	116	2	21	29	60	1	3	–
Chinese	1,697	516	24	486	591	31	48	1
Filipino	205	18	9	22	105	17	34	–
Korean	285	14	14	16	205	11	24	1
Pakistani	114	9	2	34	51	11	7	–
Other Asian	456	78	22	115	164	23	54	–
Other								
Jewish or Hebrew	1,641	157	102	955	271	24	131	1
Other or Not Stated	1,548	336	300	287	364	88	119	54

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

Table 2.4 **Deaths by Place of Death*, New York City, 2003-2009**

Place of Death	2003		2004		2005		2006		2007		2008		2009	
	Deaths	%	Deaths	%	Deaths	%	Deaths	%	Deaths	%	Deaths	%	Deaths	%
Total	59,213	100.0	57,466	100.0	57,068	100.0	55,391	100.0	54,073	100.0	54,193	100.0	52,881	100.0
Home	10,843	18.3	10,342	18.0	10,590	18.6	10,603	19.1	10,213	18.9	10,456	19.3	10,773	20.4
Hospital														
Voluntary	33,307	56.2	32,630	56.8	32,022	56.1	30,575	55.2	29,859	55.2	29,575	54.6	27,976	52.9
Proprietary	737	1.2	738	1.3	799	1.4	644	1.2	597	1.1	574	1.1	289	0.5
Municipal	5,277	8.9	4,931	8.6	4,715	8.3	4,635	8.4	4,737	8.8	4,621	8.5	4,671	8.8
Other Government	689	1.2	632	1.1	560	1.0	575	1.0	606	1.1	586	1.1	489	0.9
Nursing Home	6,790	11.5	6,659	11.6	6,748	11.8	6,644	12.0	6,370	11.8	6,479	12.0	6,421	12.1
Other Specified Place	1,570	2.7	1,534	2.7	1,634	2.9	1,715	3.1	1,691	3.1	1,902	3.5	2,262	4.3

* See Technical Notes: Geographical Units, Place of Death.

Table 2.5

Deaths by Birthplace and Borough of Residence
New York City, 2009

Birthplace	Total	Borough of Residence					Non-Residents	Residence Unknown
		Manhattan	Bronx	Brooklyn	Queens	Staten Island		
Total	52,881	9,613	8,732	15,127	12,212	3,343	3,730	124
Bangladesh	115	2	21	28	59	1	4	–
China	1,513	476	17	433	520	28	37	2
Colombia	258	20	16	31	177	3	11	–
Cuba	436	144	83	55	125	4	25	–
Dominican Republic	1,460	584	441	184	206	8	37	–
Ecuador	343	51	65	56	147	7	15	2
El Salvador	101	10	15	21	40	1	14	–
Germany	454	143	64	44	147	23	33	–
Guyana	706	16	70	249	341	8	22	–
Haiti	629	43	17	369	150	6	44	–
Honduras	130	16	45	38	18	5	8	–
India	235	19	8	19	123	16	48	2
Ireland	305	36	90	35	107	14	23	–
Israel	93	15	3	37	18	7	13	–
Italy	1,102	48	143	348	291	168	104	–
Jamaica	1,027	42	286	429	209	7	53	1
Korea	279	15	15	14	199	11	24	1
Mexico	226	24	39	86	56	9	11	1
Pakistan	109	9	2	32	48	12	6	–
Philippines	197	17	9	17	103	16	35	–
Poland	798	102	72	338	221	28	35	2
Puerto Rico	3,792	805	1,507	939	347	100	93	1
Russia	513	56	33	294	94	19	17	–
Trinidad and Tobago	464	26	34	289	88	3	24	–
Ukraine	1,021	45	36	781	127	25	7	–
United States & Territories	30,527	5,892	4,754	7,991	6,590	2,600	2,671	29
Other	4,813	699	473	1,728	1,430	181	298	4
Not Stated	1,235	258	374	242	231	33	18	79

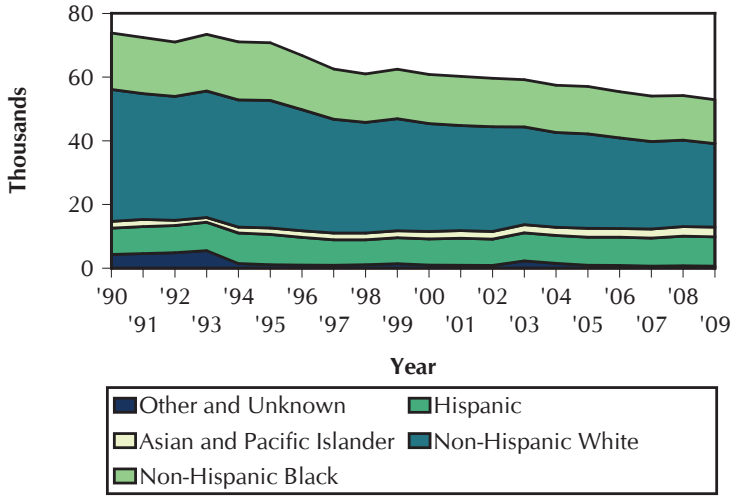
Table 2.6

Deaths by Birthplace and Age
New York City, 2009

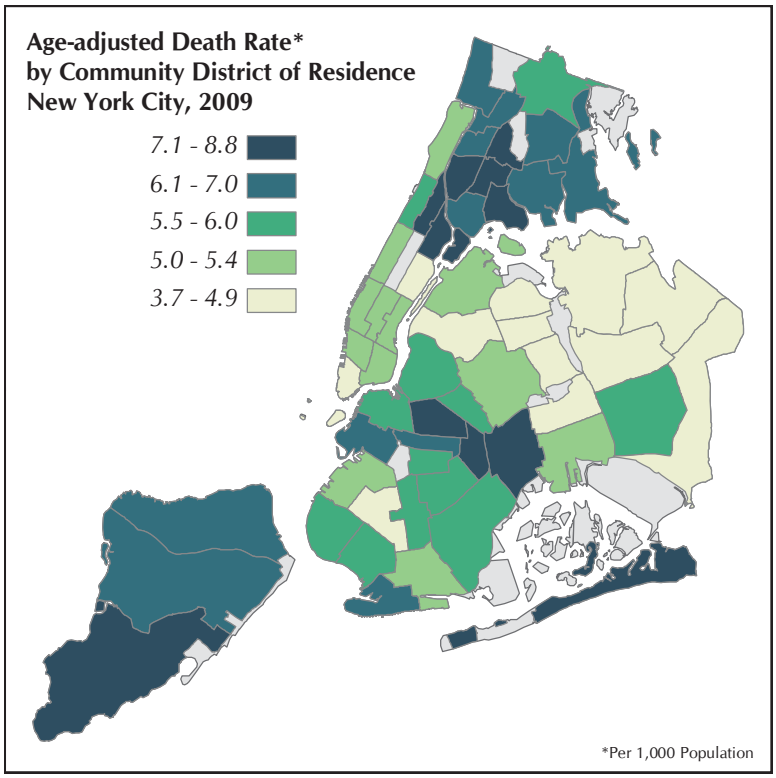
Birthplace	Total	Age in Years								
		<15	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
Total	52,881	890	573	930	1,876	4,470	7,127	8,807	12,718	15,490
Bangladesh	115	1	2	7	10	22	21	29	18	5
China	1,513	–	5	8	34	94	132	227	463	550
Colombia	258	–	3	7	8	32	37	56	62	53
Cuba	436	–	–	–	5	15	20	74	158	164
Dominican Republic	1,460	1	21	35	64	131	252	300	370	286
Ecuador	343	2	5	12	17	36	43	75	65	88
El Salvador	101	–	–	8	10	21	18	19	14	11
Germany	454	–	–	1	2	5	28	32	116	270
Guyana	706	1	1	9	41	80	133	139	181	121
Haiti	629	–	1	9	16	52	104	131	178	138
Honduras	130	–	2	3	10	17	21	25	28	24
India	235	1	2	4	18	25	42	49	53	41
Ireland	305	–	2	1	3	3	17	55	104	120
Israel	93	1	–	3	4	7	26	23	19	10
Italy	1,102	–	2	1	2	26	71	154	337	509
Jamaica	1,027	1	12	26	51	100	166	203	235	233
Korea	279	–	3	10	12	30	33	61	54	76
Mexico	226	–	22	41	50	41	25	22	14	11
Pakistan	109	–	3	1	9	23	33	20	12	8
Philippines	197	1	2	1	9	17	43	45	44	35
Poland	798	–	3	7	15	43	59	46	151	474
Puerto Rico	3,792	3	6	22	87	267	643	911	998	855
Russia	513	–	6	7	11	21	46	71	133	218
Trinidad and Tobago	464	–	3	6	29	52	105	112	91	66
Ukraine	1,021	–	1	3	9	44	77	125	335	427
United States & Territories	30,527	867	438	608	1,145	2,723	4,057	4,780	7,045	8,864
Other	4,813	10	25	65	134	373	606	758	1,185	1,657
Not Stated	1,235	1	3	25	71	170	269	265	255	176

Figure 2.3 Deaths by Ethnic Group*, New York City, 1990-2009

Between 1990 and 2009, the overall number of deaths decreased 28.4%, from 73,875 to 52,881. Non-Hispanic white deaths, which decreased 36.7%, accounted for most of the overall deaths. Deaths among non-Hispanic blacks decreased less, about 22.4%. In the same time period, deaths among Hispanics and Asians increased 11.2% and 40.3%, respectively. However, according to the Census, from 1990 to 2009 the population of Hispanics and Asians in the City increased 29.8% and 106.5%, respectively (Note: WTC disaster deaths are not included in this graph for the year 2001).



*Race categories changed in 2003. See the Technical Notes in the 2003 Annual Summary for a more detailed explanation.



Map 2.1 Age-adjusted Death Rate by Community District of Residence, New York City, 2009

The community district with the highest age-adjusted death rate was Central Harlem at 8.8. Other community districts in the highest quintile were Morrisania at 8.5, Brownsville and East Harlem at 8.3, the Rockaways at 8, Concourse/Highbridge at 7.4, Tottenville, East New York, Bedford Stuyvesant, and East Tremont at 7.1, and Mott Haven and Hunts Point at 7.0.

The community district with the lowest age-adjusted death rate was Bayside at 3.7. Other community districts with an age-adjusted death rate of below 5.0 include Jackson Heights and Elmhurst/Corona at 3.9, Rego Park/Forest Hills at 4.1, Sunnyside/Woodside at 4.2, Queens Village at 4.3, Flushing at 4.5, Borough Park at 4.7, Battery Park/Tribeca at 4.8, and Greenwich Village/SOHO, Upper East Side, Fresh Meadows/Briarwood and Woodhaven at 4.9.

Table 2.7 **Leading Causes of Death in Specified Age Groups, Overall and by Sex, New York City, 2009**

		All		Male		Female	
Rank	ALL AGES	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	20,086	38.0	9,305	35.9	10,781	40.0
2	Malignant Neoplasms	13,180	24.9	6,541	25.3	6,639	24.6
3	Influenza and Pneumonia	2,278	4.3	1,047	4.0	1,231	4.6
4	Diabetes Mellitus	1,690	3.2	802	3.1	888	3.3
5	Chronic Lower Respiratory Diseases	1,529	2.9	687	2.7	842	3.1
6	Cerebrovascular Diseases	1,448	2.7	590	2.3	858	3.2
7	Accidents Except Poisoning by Psychoactive Substance	1,003	1.9	660	2.5	343	1.3
8	Essential Hypertension and Hypertensive Renal Disease*	938	1.8	389	1.5	549	2.0
9	Human Immunodeficiency Virus (HIV) Disease	933	1.8	603	2.3	330	1.2
10	Use of or Poisoning by Psychoactive Substance	698	1.3	490	1.9	208	0.8
	All Other Causes	9,098	17.2	4,787	18.5	4,311	16.0
	Total	52,881	100.0	25,901	100.0	26,980	100.0
Rank	< 1 YEAR	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Congenital Malformations, Deformations	135	20.2	73	19.6	62	20.9
2	Short Gestation and Low Birth Weight	128	19.2	73	19.6	55	18.6
3	Cardiovascular Disorders Originating in the Perinatal Period	77	11.5	49	13.2	28	9.5
4	External Causes	60	9.0	35	9.4	25	8.4
5	Respiratory Distress of Newborn	34	5.1	17	4.6	17	5.7
6	Other Respiratory Conditions Originating in the Perinatal Period	18	2.7	11	3.0	7	2.4
7	Newborn Affected by Complications of Placenta	14	2.1	9	2.4	5	1.7
8	Necrotizing Enterocolitis of Newborn	13	1.9	5	1.3	8	2.7
9	Diseases of Heart	12	1.8	7	1.9	5	1.7
10	Newborn Affected by Complications of Pregnancy	11	1.6	8	2.2	3	1.0
10	Neonatal Hemorrhage	11	1.6	7	1.9	4	1.4
	All Other Causes	155	23.2	78	21.0	77	26.0
	Total	668	100.0	372	100.0	296	100.0
Rank	1 - 14 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	54	24.3	28	21.1	26	29.2
2	Congenital Malformations, Deformations	28	12.6	14	10.5	14	15.7
3	Accidents Except Poisoning by Psychoactive Substance	26	11.7	18	13.5	8	9.0
4	Diseases of Heart	13	5.9	6	4.5	7	7.9
5	Assault (Homicide)	9	4.1	9	6.8	–	–
6	Chronic Lower Respiratory Diseases	7	3.2	4	3.0	3	3.4
7	Influenza and Pneumonia	5	2.3	3	2.3	2	2.2
	All Other Causes	80	36.0	51	38.3	29	32.6
	Total	222	100.0	133	100.0	89	100.0
Rank	15 - 24 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Assault (Homicide)	170	29.7	154	37.2	16	10.1
2	Accidents Except Poisoning by Psychoactive Substance	81	14.1	64	15.5	17	10.7
3	Intentional Self-harm (Suicide)	60	10.5	42	10.1	18	11.3
4	Malignant Neoplasms	55	9.6	27	6.5	28	17.6
5	Diseases of Heart	32	5.6	22	5.3	10	6.3
6	Use of or Poisoning by Psychoactive Substance	27	4.7	18	4.3	9	5.7
7	Congenital Malformations, Deformations	18	3.1	12	2.9	6	3.8
8	Human Immunodeficiency Virus (HIV) Disease	14	2.4	5	1.2	9	5.7
9	Anemias	8	1.4	5	1.2	3	1.9
10	Chronic Lower Respiratory Diseases	7	1.2	5	1.2	2	1.3
10	Pregnancy, Childbirth and the Puerperium	7	1.2	–	–	7	4.4
	All Other Causes	94	16.4	60	14.5	34	21.4
	Total	573	100.0	414	100.0	159	100.0
Rank	25 - 34 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Assault (Homicide)	135	14.5	116	18.2	19	6.5
2	Malignant Neoplasms	119	12.8	55	8.6	64	21.8
3	Use of or Poisoning by Psychoactive Substance	100	10.8	80	12.6	20	6.8
4	Accidents Except Poisoning by Psychoactive Substance	99	10.6	75	11.8	24	8.2
5	Intentional Self-harm (Suicide)	79	8.5	64	10.0	15	5.1
6	Diseases of Heart	69	7.4	49	7.7	20	6.8
7	Human Immunodeficiency Virus (HIV) Disease	49	5.3	32	5.0	17	5.8
8	Influenza and Pneumonia	23	2.5	13	2.0	10	3.4
9	Cerebrovascular Disease	22	2.4	15	2.4	7	2.4
10	Pregnancy, Childbirth and the Puerperium	21	2.3	–	–	21	7.2
	All Other Causes	214	23.0	138	21.7	76	25.9
	Total	930	100.0	637	100.0	293	100.0

Continued on next page.

Note: For each age group, the 10 leading causes of death for both sexes combined are arranged in decreasing order of frequency; causes with fewer than 5 deaths are not shown.

* Cause-of-death definition was changed in 2008 to reflect the addition of secondary hypertension (ICD-10 code I15).

Table 2.7 Leading Causes of Death in Specified Age Groups, Overall and by Sex, New York City, 2009 (Continued)

		All		Male		Female	
Rank	35 - 44 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	398	21.2	172	15.0	226	30.9
2	Diseases of Heart	298	15.9	220	19.2	78	10.7
3	Human Immunodeficiency Virus (HIV) Disease	190	10.1	111	9.7	79	10.8
4	Use of or Poisoning by Psychoactive Substance	164	8.7	111	9.7	53	7.3
5	Accidents Except Poisoning by Psychoactive Substance	112	6.0	85	7.4	27	3.7
6	Intentional Self-harm (Suicide)	85	4.5	62	5.4	23	3.1
7	Assault (Homicide)	84	4.5	67	5.9	17	2.3
8	Diabetes Mellitus	64	3.4	50	4.4	14	1.9
9	Influenza and Pneumonia	46	2.5	23	2.0	23	3.1
10	Cerebrovascular Diseases	44	2.3	26	2.3	18	2.5
	All Other Causes	391	20.8	218	19.0	173	23.7
	Total	1,876	100.0	1,145	100.0	731	100.0
Rank	45 - 54 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	1,270	28.4	615	22.8	655	37.0
2	Diseases of Heart	952	21.3	648	24.0	304	17.2
3	Human Immunodeficiency Virus (HIV) Disease	352	7.9	225	8.3	127	7.2
4	Use of or Poisoning by Psychoactive Substance	253	5.7	166	6.1	87	4.9
5	Accidents Except Poisoning by Psychoactive Substance	145	3.2	112	4.1	33	1.9
6	Chronic Liver Disease and Cirrhosis	131	2.9	104	3.9	27	1.5
7	Cerebrovascular Diseases	129	2.9	63	2.3	66	3.7
8	Diabetes Mellitus	121	2.7	84	3.1	37	2.1
9	Influenza and Pneumonia	102	2.3	57	2.1	45	2.5
9	Viral Hepatitis	102	2.3	69	2.6	33	1.9
	All Other Causes	913	20.4	558	20.7	355	20.1
	Total	4,470	100.0	2,701	100.0	1,769	100.0
Rank	55 - 64 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	2,580	36.2	1,344	31.5	1,236	43.2
2	Diseases of Heart	1,966	27.6	1,314	30.8	652	22.8
3	Diabetes Mellitus	275	3.9	164	3.8	111	3.9
4	Human Immunodeficiency Virus (HIV) Disease	241	3.4	164	3.8	77	2.7
5	Cerebrovascular Diseases	178	2.5	94	2.2	84	2.9
6	Influenza and Pneumonia	177	2.5	97	2.3	80	2.8
7	Viral Hepatitis	174	2.4	121	2.8	53	1.9
8	Chronic Lower Respiratory Diseases	159	2.2	88	2.1	71	2.5
9	Chronic Liver Disease and Cirrhosis	142	2.0	103	2.4	39	1.4
10	Use of or Poisoning by Psychoactive Substance	135	1.9	103	2.4	32	1.1
	All Other Causes	1,100	15.4	675	15.8	425	14.9
	Total	7,127	100.0	4,267	100.0	2,860	100.0
Rank	65 - 74 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	3,167	36.0	1,693	34.6	1,474	37.7
2	Diseases of Heart	2,947	33.5	1,730	35.4	1,217	31.1
3	Diabetes Mellitus	373	4.2	168	3.4	205	5.2
4	Influenza and Pneumonia	324	3.7	180	3.7	144	3.7
5	Chronic Lower Respiratory Diseases	289	3.3	158	3.2	131	3.3
6	Cerebrovascular Diseases	227	2.6	122	2.5	105	2.7
7	Essential Hypertension and Hypertensive Renal Disease	150	1.7	75	1.5	75	1.9
8	Accidents Except Poisoning by Psychoactive Substance	121	1.4	75	1.5	46	1.2
9	Chronic Liver Disease and Cirrhosis	111	1.3	77	1.6	34	0.9
10	Nephritis, Nephrotic Syndrome and Nephrosis	76	0.9	42	0.9	34	0.9
	All Other Causes	1,022	11.6	572	11.7	450	11.5
	Total	8,807	100.0	4,892	100.0	3,915	100.0
Rank	75 - 84 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	5,355	42.1	2,556	41.7	2,799	42.5
2	Malignant Neoplasms	3,401	26.7	1,720	28.1	1,681	25.5
3	Influenza and Pneumonia	624	4.9	332	5.4	292	4.4
4	Chronic Lower Respiratory Diseases	475	3.7	214	3.5	261	4.0
5	Diabetes Mellitus	455	3.6	189	3.1	266	4.0
6	Cerebrovascular Diseases	372	2.9	142	2.3	230	3.5
7	Essential Hypertension and Hypertensive Renal Disease	248	1.9	114	1.9	134	2.0
8	Accidents Except Poisoning by Psychoactive Substance	148	1.2	79	1.3	69	1.0
9	Alzheimer's Disease	141	1.1	62	1.0	79	1.2
10	Nephritis, Nephrotic Syndrome and Nephrosis	99	0.8	40	0.7	59	0.9
	All Other Causes	1,400	11.0	681	11.1	719	10.9
	Total	12,718	100.0	6,129	100.0	6,589	100.0
Rank	≥85 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	8,442	54.5	2,753	52.8	5,689	55.3
2	Malignant Neoplasms	2,133	13.8	887	17.0	1,246	12.1
3	Influenza and Pneumonia	962	6.2	332	6.4	630	6.1
4	Cerebrovascular Diseases	470	3.0	124	2.4	346	3.4
5	Chronic Lower Respiratory Diseases	467	3.0	161	3.1	306	3.0
6	Diabetes Mellitus	380	2.5	130	2.5	250	2.4
7	Alzheimer's Disease	344	2.2	84	1.6	260	2.5
8	Essential Hypertension and Hypertensive Renal Disease	335	2.2	94	1.8	241	2.3
9	Accidents Except Poisoning by Psychoactive Substance	145	0.9	53	1.0	92	0.9
10	Atherosclerosis	119	0.8	47	0.9	72	0.7
	All Other Causes	1,693	10.9	546	10.5	1,147	11.2
	Total	15,490	100.0	5,211	100.0	10,279	100.0

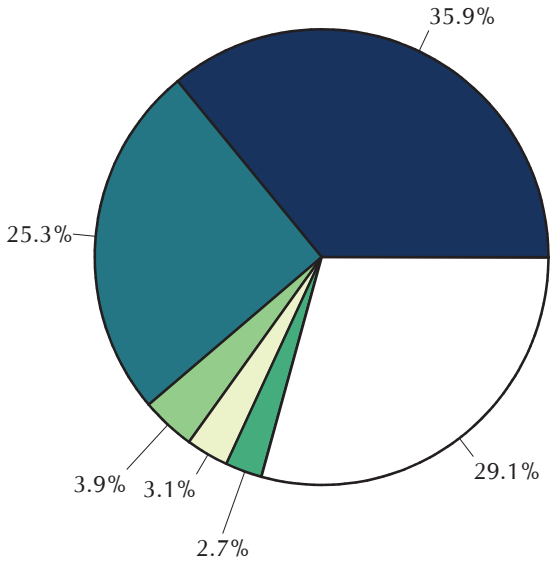


Figure 2.4 Leading Causes of Death for Males, New York City, 2009

Sixty-one percent of the 25,901 deaths among New York City males in 2009 were caused by either diseases of heart (35.9%) or malignant neoplasms (25.3%). This is similar to the proportion in 2008. Influenza and pneumonia caused 3.9% of deaths, and diabetes mellitus caused 3.1%. After more than 2 decades, HIV disease deaths were no longer among top 5 leading causes of deaths for males. Chronic lower respiratory disease took over 5th place in leading causes with 2.7% of total male deaths. The percent of deaths caused by the top 5 leading causes among males decreased 0.4% from 2008 to 2009. The remaining causes of deaths among males accounted for 29.1% of total deaths. See Table 2.7 for more details.

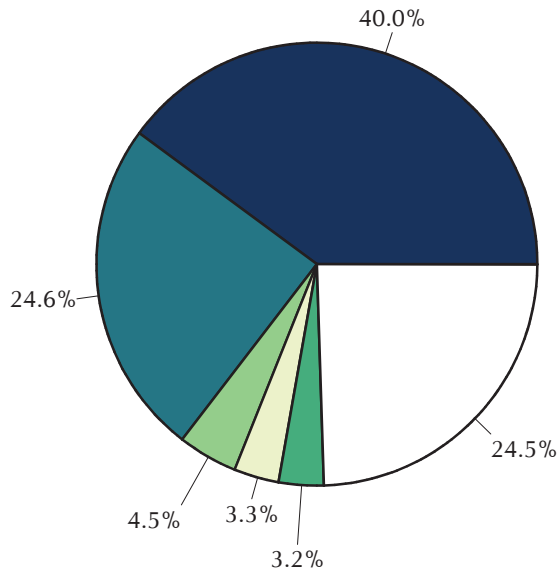


Figure 2.5 Leading Causes of Death for Females, New York City, 2009

Sixty-five percent of the 26,980 deaths among New York City females in 2009 were caused by either diseases of the heart (40.0%) or malignant neoplasms (24.6%). This is similar to the proportion in 2008. Influenza and pneumonia remained the third leading cause of death and caused 4.5% of female deaths. Diabetes mellitus moved up from fifth in 2008 to fourth leading cause in 2009 and caused 3.3% of female deaths. The fifth leading cause in females, cerebrovascular diseases, inched out chronic lower respiratory disease and accounted for 3.2% of female deaths in 2009. The remaining causes of deaths among females accounted for 24.5% of total deaths. See Table 2.7 for more details.

Table 2.8 **Leading Causes of Death in Specified Ethnic Groups* by Sex, New York City, 2009**

		All		Male		Female	
Rank	Puerto Rican	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	1,474	31.8	717	29.7	757	34.1
2	Malignant Neoplasms	1,064	23.0	560	23.2	504	22.7
3	Diabetes Mellitus	219	4.7	96	4.0	123	5.5
4	Influenza and Pneumonia	199	4.3	84	3.5	115	5.2
5	Human Immunodeficiency Virus (HIV) Disease	187	4.0	125	5.2	62	2.8
6	Chronic Lower Respiratory Diseases	157	3.4	69	2.9	88	4.0
7	Cerebrovascular Diseases	125	2.7	47	1.9	78	3.5
8	Use of or Poisoning by Psychoactive Substance	112	2.4	83	3.4	29	1.3
9	Viral Hepatitis	103	2.2	72	3.0	31	1.4
10	Chronic Liver Disease and Cirrhosis	96	2.1	72	3.0	24	1.1
	All Other Causes	894	19.3	488	20.2	406	18.3
	Total	4,630	100.0	2,413	100.0	2,217	100.0
Rank	Other Hispanic	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	1,257	27.6	665	27.1	592	28.3
2	Malignant Neoplasms	1,214	26.7	620	25.3	594	28.4
3	Influenza and Pneumonia	200	4.4	99	4.0	101	4.8
4	Cerebrovascular Diseases	172	3.8	96	3.9	76	3.6
5	Diabetes Mellitus	168	3.7	76	3.1	92	4.4
6	Accidents Except Poisoning by Psychoactive Substance	139	3.1	104	4.2	35	1.7
7	Chronic Lower Respiratory Diseases	109	2.4	42	1.7	67	3.2
8	Human Immunodeficiency Virus (HIV) Disease	105	2.3	71	2.9	34	1.6
9	Assault (Homicide)	90	2.0	75	3.1	15	0.7
9	Use of or Poisoning by Psychoactive Substance	90	2.0	62	2.5	28	1.3
	All Other Causes	1,004	22.1	545	22.2	459	21.9
	Total	4,548	100.0	2,455	100.0	2,093	100.0
Rank	Asian and Pacific Islander	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	1,004	33.1	555	33.6	449	32.5
2	Malignant Neoplasms	907	29.9	508	30.7	399	28.9
3	Influenza and Pneumonia	167	5.5	84	5.1	83	6.0
4	Cerebrovascular Diseases	119	3.9	58	3.5	61	4.4
5	Diabetes Mellitus	103	3.4	48	2.9	55	4.0
6	Accidents Except Poisoning by Psychoactive Substance	93	3.1	56	3.4	37	2.7
7	Chronic Lower Respiratory Diseases	81	2.7	51	3.1	30	2.2
8	Intentional Self-harm (Suicide)	53	1.7	35	2.1	18	1.3
9	Essential Hypertension and Hypertensive Renal Disease	44	1.4	26	1.6	18	1.3
10	Congenital Malformations, Deformations	28	0.9	14	0.8	14	1.0
	All Other Causes	436	14.4	219	13.2	217	15.7
	Total	3,035	100.0	1,654	100.0	1,381	100.0
Rank	Non-Hispanic White	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	11,465	43.7	5,168	41.3	6,297	45.9
2	Malignant Neoplasms	6,583	25.1	3,237	25.9	3,346	24.4
3	Influenza and Pneumonia	1,184	4.5	555	4.4	629	4.6
4	Chronic Lower Respiratory Diseases	829	3.2	371	3.0	458	3.3
5	Cerebrovascular Diseases	617	2.4	227	1.8	390	2.8
6	Diabetes Mellitus	519	2.0	290	2.3	229	1.7
7	Accidents Except Poisoning by Psychoactive Substance	459	1.8	281	2.2	178	1.3
8	Essential Hypertension and Hypertensive Renal Disease	363	1.4	148	1.2	215	1.6
9	Alzheimer's Disease	301	1.1	96	0.8	205	1.5
10	Use of or Poisoning by Psychoactive Substance	297	1.1	221	1.8	76	0.6
	All Other Causes	3,593	13.7	1,910	15.3	1,683	12.3
	Total	26,210	100.0	12,504	100.0	13,706	100.0
Rank	Non-Hispanic Black	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart	4,603	33.4	2,068	31.8	2,535	34.9
2	Malignant Neoplasms	3,293	23.9	1,557	23.9	1,736	23.9
3	Diabetes Mellitus	669	4.9	285	4.4	384	5.3
4	Human Immunodeficiency Virus (HIV) Disease	537	3.9	329	5.1	208	2.9
5	Influenza and Pneumonia	488	3.5	207	3.2	281	3.9
6	Cerebrovascular Diseases	399	2.9	154	2.4	245	3.4
7	Essential Hypertension and Hypertensive Renal Disease	358	2.6	131	2.0	227	3.1
8	Chronic Lower Respiratory Diseases	335	2.4	147	2.3	188	2.6
9	Assault (Homicide)	284	2.1	255	3.9	29	0.4
10	Accidents Except Poisoning by Psychoactive Substance	205	1.5	134	2.1	71	1.0
	All Other Causes	2,604	18.9	1,246	19.1	1,358	18.7
	Total	13,775	100.0	6,513	100.0	7,262	100.0

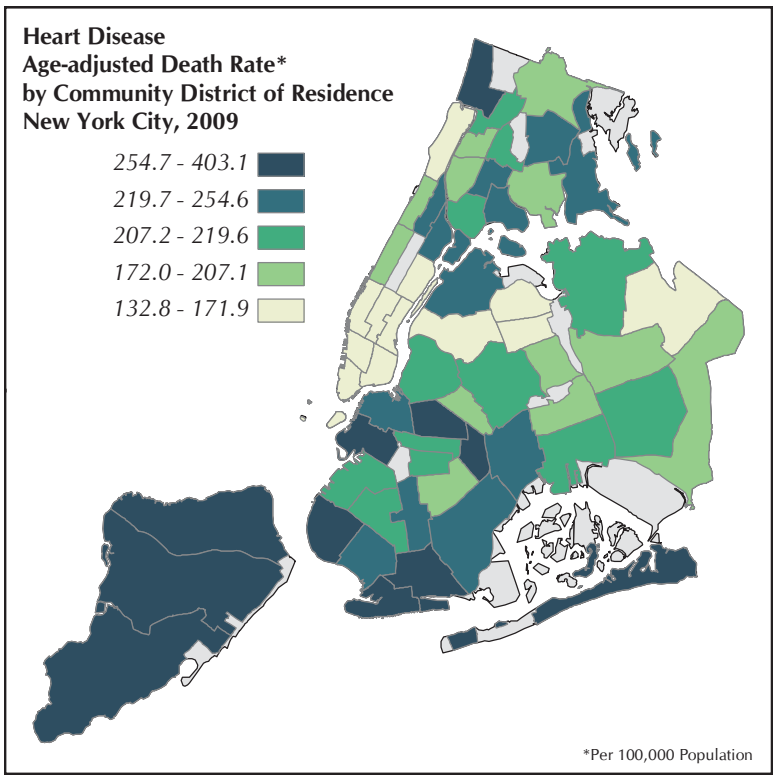
Note: For each ethnic group, the 10 leading causes of death for both sexes combined are arranged in decreasing order of frequency.

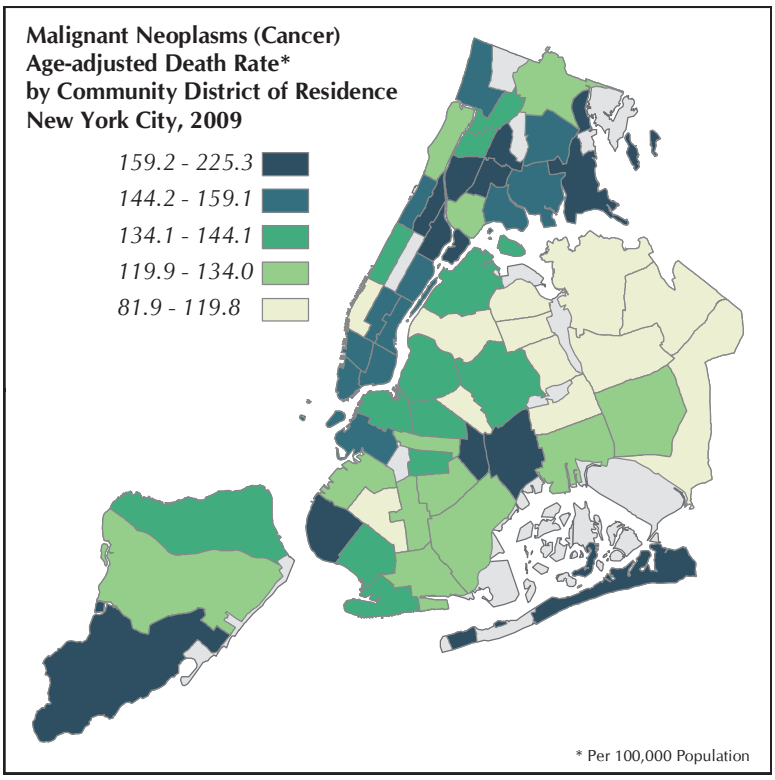
* Decedents of other or multiple races, or with unknown ethnicities, are not shown.

Map 2.2 Heart Disease Age-adjusted Death Rate by Community District of Residence, New York City, 2009

The community district with the highest age-adjusted death rate for heart disease was the Rockaways at 403.1. Other community districts in the highest quintile were Coney Island at 343.6, Tottenville at 324.4, Willowbrook/South Beach at 295.1, Brownsville at 286.3, Park Slope at 271.5, Port Richmond at 269.1, Bedford Stuyvesant at 269.0, Concourse/Highbridge at 264.4, Bay Ridge at 259.2, and Sheepshead Bay at 257.6.

The community district with the lowest age-adjusted death rate for heart disease was Battery Park/Tribeca at 132.8. Other community districts with an age-adjusted death rate of below 170 include Jackson Heights at 135, Lower East Side and Washington Heights at 148, Greenwich Village/SOHO at 155.3, Murray Hill at 155.6, Elmhurst/Corona at 156.5, Bayside at 164.2, Midtown Business District at 164.4, and Sunnyside/Woodside at 167.9.





Map 2.3 Malignant Neoplasms (Cancer) Age-adjusted Death Rate by Community District of Residence, New York City, 2009

The community district with the highest age-adjusted death rate for malignant neoplasms (cancer) was Central Harlem at 225.3. Other community districts in the highest quintile were Brownsville at 211.7, Morrisania at 199.2, East Harlem at 198.6, Throgs Neck at 195.2, Tottenville at 190, Concourse/Highbridge at 171.9, East Tremont at 165.1, Bay Ridge at 164.4, East New York at 163.7, and The Rockaways at 160.7.

The community district with the lowest age-adjusted death rate for malignant neoplasms (cancer) was Bayside at 81.9. Other community districts with an age-adjusted death rate of below 117 include Elmurst/Corona at 90.5, Rego Park/Forest Hills at 94.7, Queens Village at 95.7, Jackson Heights at 99.3, Sunnyside/Woodside at 105.7, Flushing at 110.7, Borough Park at 111.3, Woodhaven at 113.1, Chelsea/Clinton at 115.4, and Concourse/Highbridge at 116.7.

Table 2.9 **Leading Causes of Premature Death (Age < 65), Overall and by Sex, New York City, 2009**

Rank	Cause of Death	All		Male		Female	
		Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	4,479	28.2	2,241	23.2	2,238	36.1
	Trachea, bronchus, and lung	842	5.3	473	4.9	369	6.0
	Breast	506	3.2	3	0.0	503	8.1
	Colon, rectum, and anus	398	2.5	215	2.2	183	3.0
	Liver and intrahepatic bile ducts	290	1.8	227	2.3	63	1.0
	Pancreas	284	1.8	172	1.8	112	1.8
2	Diseases of Heart	3,342	21.1	2,266	23.4	1,076	17.4
3	Human Immunodeficiency Virus (HIV) Disease	847	5.3	538	5.6	309	5.0
4	Use of or Poisoning by Psychoactive Substance	680	4.3	478	4.9	202	3.3
5	Accidents Except Poisoning by Psychoactive Substance	589	3.7	453	4.7	136	2.2
6	Diabetes Mellitus	482	3.0	315	3.3	167	2.7
7	Assault (Homicide)	477	3.0	401	4.1	76	1.2
8	Intentional Self-harm (Suicide)	406	2.6	313	3.2	93	1.5
9	Cerebrovascular Diseases	379	2.4	202	2.1	177	2.9
10	Influenza and Pneumonia	368	2.3	203	2.1	165	2.7
	All Other Causes	3,817	24.1	2,259	23.4	1,558	25.1
	Total	15,866	100.0	9,669	100.0	6,197	100.0

Note: Ten leading causes of death are arranged in the order of frequency for both sexes combined.

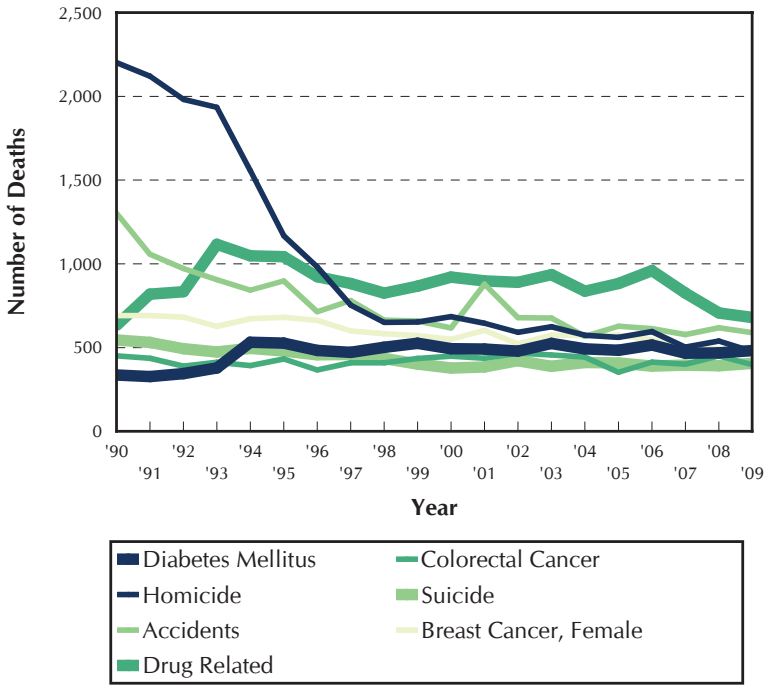


Figure 2.6 Selected Causes of Premature Death (Age < 65) New York City, 1990-2009

The number of homicide deaths among those younger than 65 years of age declined steadily between 1990 and 1998. Between 1998 and 2009 this count has remained below 600 deaths per year. The number of homicide deaths was 477 in 2009. (Note: reported WTC deaths are homicides and not included for the year 2001). Suicide deaths peaked in 1990 at 545 and has since declined to 406 in 2009. The number of colorectal cancer deaths occurring among those under 65 years of age has shown a slight declining trend in the past two decades, from 451 in 1990 to 398 in 2009. Accidental deaths have fluctuated since their surge in 2001, which was due to the Flight 587 air crash. Diabetes mellitus increased from 327 deaths in 1991 to 532 deaths in 1994. Since 1994 the yearly number of diabetes mellitus deaths has hovered near 500 with the lowest number reported (466) in 2007 and 482 in 2009. Breast cancer deaths in women have decreased slowly over the past two decades from approximately 691 deaths in 1990 to 503 in 2009. Drug-related deaths (mental disorders due to substance use or accidental poisoning) in those under 65 years of age experienced a sharp increase, from 633 in 1990 to 1,117 in 1993, then a decrease to 825 in 1998. Drug-related deaths have since decreased to 680 in 2009.

Table 2.10 **Leading Causes of Premature Death (Age < 65) in Specified Ethnic Groups* by Sex**
New York City, 2009

		All		Male		Female	
Rank	Puerto Rican	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	405	23.3	216	19.7	189	29.6
2	Diseases of Heart	337	19.4	226	20.6	111	17.4
3	Human Immunodeficiency Virus (HIV) Disease	168	9.7	113	10.3	55	8.6
4	Use of or Poisoning by Psychoactive Substance	108	6.2	80	7.3	28	4.4
5	Viral Hepatitis	84	4.8	59	5.4	25	3.9
6	Chronic Liver Disease and Cirrhosis	64	3.7	52	4.7	12	1.9
7	Diabetes Mellitus	63	3.6	39	3.5	24	3.8
8	Accidents Except Poisoning by Psychoactive Substance	57	3.3	50	4.5	7	1.1
9	Influenza and Pneumonia	43	2.5	21	1.9	22	3.4
10	Assault (Homicide)	42	2.4	31	2.8	11	1.7
10	Chronic Lower Respiratory Diseases	42	2.4	21	1.9	21	3.3
	All Other Causes	324	18.7	191	17.4	133	20.8
	Total	1,737	100.0	1,099	100.0	638	100.0
Rank	Other Hispanic	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	532	26.6	277	21.4	255	36.1
2	Diseases of Heart	329	16.4	240	18.5	89	12.6
3	Accidents Except Poisoning by Psychoactive Substance	109	5.4	88	6.8	21	3.0
4	Human Immunodeficiency Virus (HIV) Disease	98	4.9	65	5.0	33	4.7
5	Use of or Poisoning by Psychoactive Substance	90	4.5	62	4.8	28	4.0
6	Assault (Homicide)	88	4.4	74	5.7	14	2.0
7	Cerebrovascular Diseases	75	3.7	51	3.9	24	3.4
8	Diabetes Mellitus	59	2.9	38	2.9	21	3.0
9	Influenza and Pneumonia	55	2.7	34	2.6	21	3.0
10	Intentional Self-harm (Suicide)	53	2.6	44	3.4	9	1.3
	All Other Causes	514	25.7	322	24.9	192	27.2
	Total	2,002	100.0	1,295	100.0	707	100.0
Rank	Asian and Pacific Islander	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	358	37.5	207	34.0	151	43.6
2	Diseases of Heart	212	22.2	162	26.6	50	14.5
3	Accidents Except Poisoning by Psychoactive Substance	54	5.7	38	6.2	16	4.6
4	Intentional Self-harm (Suicide)	45	4.7	30	4.9	15	4.3
5	Congenital Malformations, Deformations	28	2.9	14	2.3	14	4.0
6	Cerebrovascular Diseases	25	2.6	16	2.6	9	2.6
7	Influenza and Pneumonia	22	2.3	13	2.1	9	2.6
8	Diabetes Mellitus	19	2.0	11	1.8	8	2.3
9	Viral Hepatitis	15	1.6	8	1.3	7	2.0
10	Chronic Liver Disease and Cirrhosis	14	1.5	13	2.1	1	0.3
	All Other Causes	163	17.1	97	15.9	66	19.1
	Total	955	100.0	609	100.0	346	100.0
Rank	Non-Hispanic White	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	1,786	33.7	900	27.3	886	44.5
2	Diseases of Heart	1,193	22.5	850	25.7	343	17.2
3	Use of or Poisoning by Psychoactive Substance	294	5.6	219	6.6	75	3.8
4	Intentional Self-harm (Suicide)	205	3.9	161	4.9	44	2.2
5	Accidents Except Poisoning by Psychoactive Substance	203	3.8	156	4.7	47	2.4
6	Diabetes Mellitus	117	2.2	86	2.6	31	1.6
7	Influenza and Pneumonia	116	2.2	70	2.1	46	2.3
8	Chronic Liver Disease and Cirrhosis	114	2.2	88	2.7	26	1.3
9	Chronic Lower Respiratory Diseases	107	2.0	59	1.8	48	2.4
10	Viral Hepatitis	93	1.8	72	2.2	21	1.1
	All Other Causes	1,064	20.1	641	19.4	423	21.3
	Total	5,292	100.0	3,302	100.0	1,990	100.0
Rank	Non-Hispanic Black	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms	1,351	23.9	617	19.3	734	30.0
2	Diseases of Heart	1,226	21.7	753	23.5	473	19.3
3	Human Immunodeficiency Virus (HIV) Disease	488	8.6	292	9.1	196	8.0
4	Assault (Homicide)	278	4.9	250	7.8	28	1.1
5	Diabetes Mellitus	221	3.9	138	4.3	83	3.4
6	Use of or Poisoning by Psychoactive Substance	176	3.1	106	3.3	70	2.9
7	Cerebrovascular Diseases	155	2.7	74	2.3	81	3.3
8	Accidents Except Poisoning by Psychoactive Substance	152	2.7	108	3.4	44	1.8
9	Influenza and Pneumonia	125	2.2	60	1.9	65	2.7
10	Essential Hypertension and Renal Diseases	122	2.2	55	1.7	67	2.7
	All Other Causes	1,361	24.1	752	23.5	609	24.9
	Total	5,655	100.0	3,205	100.0	2,450	100.0

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

* Decedents of other or multiple races, or with unknown ethnicities, are not shown.

Table 2.11 **Deaths and Death Rates per 100,000 Population from Selected Underlying Causes, Overall and by Ethnic Group* and Sex, New York City, 2009**

Cause of Death	Total			Ethnic Group*													Sex					
				Hispanic			Non-Hispanic White			Non-Hispanic Black			Asian and Pacific Islander			Other or Unknown		Male			Female		
	No.	Crude Rate	Age-Adj. Rate	No.	Crude Rate	Age-Adj. Rate	No.	Crude Rate	Age-Adj. Rate	No.	Crude Rate	Age-Adj. Rate	No.	Crude Rate	Age-Adj. Rate	No.	No.	Crude Rate	Age-Adj. Rate	No.	Crude Rate	Age-Adj. Rate
All Causes†	52,881	6.3	6.1	9,178	4.0	5.2	26,210	8.8	6.2	13,775	7.0	7.5	3,035	3.0	3.8	683	25,901	6.5	7.5	26,980	6.2	5.1
Natural Causes	50,097	597.0	581.8	8,520	368.0	494.3	25,098	840.6	592.2	12,995	665.0	711.5	2,851	281.9	358.8	633	23,904	595.9	700.0	26,193	597.9	497.4
Human Immunodeficiency Virus (HIV) Disease	933	11.1	10.4	292	12.6	13.3	90	3.0	2.6	537	27.5	25.8	3	0.3	0.3	11	603	15.0	14.4	330	7.5	7.0
Malignant Neoplasms	13,180	157.1	155.0	2,278	98.4	128.3	6,583	220.5	168.3	3,293	168.5	175.6	907	89.7	106.0	119	6,541	163.1	188.5	6,639	151.6	133.4
Malignant neoplasm of stomach	470	5.6	5.5	91	3.9	5.1	182	6.1	4.6	114	5.8	6.2	78	7.7	9.2	5	273	6.8	7.9	197	4.5	3.9
Malignant neoplasms of colon, rectum and anus	1,408	16.8	16.5	225	9.7	12.9	696	23.3	17.2	380	19.4	20.8	100	9.9	12.4	7	672	16.8	19.5	736	16.8	14.3
Malignant neoplasm of pancreas	967	11.5	11.4	147	6.4	8.5	567	19.0	14.5	201	10.3	10.9	45	4.4	5.5	7	483	12.0	13.8	484	11.0	9.6
Malignant neoplasms of trachea, bronchus and lung (male)	1,500	37.4	43.3	207	18.4	28.8	778	53.8	47.3	354	40.2	49.7	145	29.2	37.9	16	1,500	37.4	43.3	–	–	–
Malignant neoplasms of trachea, bronchus and lung (female)	1,304	29.8	26.3	160	13.5	15.5	753	48.9	33.8	302	28.1	25.7	81	15.7	18.0	8	–	–	–	1,304	29.8	26.3
Malignant neoplasm of breast (female)	1,099	25.1	22.2	192	16.2	18.1	510	33.1	23.6	338	31.5	28.7	43	8.4	8.6	16	–	–	–	1,099	25.1	22.2
Malignant neoplasm of cervix uteri	139	3.2	2.9	34	2.9	3.1	29	1.9	1.4	69	6.4	5.8	6	1.2	1.2	1	–	–	–	139	3.2	2.9
Malignant neoplasm of ovary	358	8.2	7.2	52	4.4	4.9	192	12.5	8.9	83	7.7	7.1	31	6.0	6.3	–	–	–	–	358	8.2	7.2
Malignant neoplasm of prostate	765	19.1	24.0	128	11.3	22.9	330	22.8	19.8	275	31.2	48.5	26	5.2	8.0	6	765	19.1	24.0	–	–	–
Leukemia	513	6.1	6.1	99	4.3	5.4	300	10.0	8.0	83	4.2	4.4	28	2.8	3.1	3	259	6.5	7.3	254	5.8	5.2
Diabetes Mellitus	1,690	20.1	19.8	387	16.7	22.8	519	17.4	12.6	669	34.2	36.8	103	10.2	13.2	12	802	20.0	22.9	888	20.3	17.4
Parkinson's Disease	181	2.2	2.1	27	1.2	1.8	114	3.8	2.6	27	1.4	1.6	12	1.2	1.6	1	118	2.9	3.8	63	1.4	1.1
Alzheimer's Disease	520	6.2	5.9	81	3.5	5.6	301	10.1	6.0	109	5.6	6.8	23	2.3	3.4	6	160	4.0	5.3	360	8.2	6.1
Diseases of Heart	20,086	239.4	231.5	2,731	118.0	168.4	11,465	384.0	254.0	4,603	235.6	259.8	1,004	99.3	132.0	283	9,305	232.0	281.7	10,781	246.1	195.2
Hypertensive heart disease	1,988	23.7	22.9	341	14.7	19.7	783	26.2	18.2	749	38.3	40.7	89	8.8	11.3	26	939	23.4	26.6	1,049	23.9	19.7
Chronic ischemic heart diseases	14,380	171.4	165.7	1,806	78.0	113.2	8,757	293.3	192.5	2,896	148.2	165.7	708	70.0	94.2	213	6,640	165.5	203.8	7,740	176.7	139.0
Acute myocardial infarction	2,247	26.8	25.9	351	15.2	21.9	1,169	39.2	25.9	561	28.7	31.8	134	13.2	17.1	32	1,041	26.0	31.3	1,206	27.5	21.9
Essential (Primary) Hypertension and Hypertensive Renal Disease	938	11.2	10.8	161	7.0	10.1	363	12.2	8.0	358	18.3	19.7	44	4.4	5.9	12	389	9.7	11.6	549	12.5	10.2
Cerebrovascular Diseases	1,448	17.3	16.7	297	12.8	17.5	617	20.7	14.1	399	20.4	21.9	119	11.8	15.1	16	590	14.7	17.2	858	19.6	16.1
Influenza and Pneumonia	2,278	27.1	26.3	399	17.2	24.6	1184	39.7	26.4	488	25.0	27.9	167	16.5	22.9	40	1,047	26.1	32.2	1,231	28.1	22.4
Chronic Lower Respiratory Diseases	1,529	18.2	17.9	266	11.5	16.1	829	27.8	19.9	335	17.1	18.6	81	8.0	11.3	18	687	17.1	20.8	842	19.2	16.1
Asthma	152	1.8	1.8	57	2.5	2.9	28	0.9	0.8	64	3.3	3.2	2	0.2	0.2	1	68	1.7	1.7	84	1.9	1.8
Chronic Liver Disease and Cirrhosis	494	5.9	5.7	159	6.9	8.1	198	6.6	5.5	102	5.2	5.0	22	2.2	2.3	13	353	8.8	9.0	141	3.2	2.9
External Causes	2,784	33.2	32.3	658	28.4	29.6	1,112	37.2	32.5	780	39.9	39.7	184	18.2	19.4	50	1,997	49.8	49.7	787	18.0	16.6
Motor Vehicle Accidents	291	3.5	3.4	88	3.8	4.0	98	3.3	3.0	68	3.5	3.5	31	3.1	3.1	6	200	5.0	5.1	91	2.1	2.0
Falls	388	4.6	4.5	71	3.1	3.8	220	7.4	5.3	57	2.9	3.1	34	3.4	4.2	6	222	5.5	6.3	166	3.8	3.1
Intentional Self-Harm (Suicide)	475	5.7	5.5	93	4.0	4.2	249	8.3	7.6	75	3.8	3.8	53	5.2	5.2	5	360	9.0	8.8	115	2.6	2.5
Assault (Homicide)	496	5.9	5.9	132	5.7	5.4	58	1.9	1.8	284	14.5	14.7	14	1.4	1.3	8	416	10.4	10.2	80	1.8	1.8
Events of Undetermined Intent	201	2.4	2.4	37	1.6	1.6	73	2.4	2.2	62	3.2	3.1	19	1.9	1.8	10	139	3.5	3.4	62	1.4	1.4
Mental and Behavioral Disorders Due to Use of or Accidental Poisoning by Psychoactive Substances, Excluding Alcohol	698	8.3	7.7	202	8.7	8.8	297	9.9	9.1	186	9.5	8.8	4	0.4	0.4	9	490	12.2	11.4	208	4.7	4.4
Accidents Except Drug Poisoning	1,003	12.0	11.7	226	9.8	10.9	459	15.4	12.5	205	10.5	10.7	93	9.2	10.5	20	660	16.5	17.3	343	7.8	6.9

* See Technical Notes: Demographic Characteristics of Vital Events: Race, Ancestry, and Ethnic Group.

† For All Causes, rates are per 1,000 population and all other selected causes rates are per 100,000 population. Population data are from 2009 unchallenged US Census Bureau estimates.

Table 2.12 Deaths and Death Rates* per 100,000 Population from Selected Underlying Causes by Community District of Residence, New York City, 2009

Community District of Residence	Population 2009 Census Estimates	All Causes (Rate per 1,000)			Heart Diseases		Malignant Neoplasms		HIV Disease		Influenza and Pneumonia		Cerebro-vascular Diseases		Chronic Lower Respiratory Diseases		Chronic Liver Disease & Cirrhosis		Diabetes Mellitus		Mental Disorders due to Substance Use & Accidental Poisoning		Accidents Except Drug Poisoning		Intentional Self-harm (Suicide)		Assault † (Homicide)		Events of Undetermined Intent	
		No.	Crude Rate	Age-Adjusted Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate
ALL DEATH EVENTS	8,391,881	52,881	6.3	6.1	20,086	239.4	13,180	157.1	933	11.1	2,278	27.1	1,448	17.3	1,529	18.2	494	5.9	1,690	20.1	698	8.3	1,003	12.0	475	5.7	496	5.9	201	2.4
MANHATTAN‡	1,629,054	9,598	5.9	5.5	2,993	183.7	2,569	157.7	213	13.1	458	28.1	344	21.1	319	19.6	88	5.4	271	16.6	125	7.7	166	10.2	82	5.0	56	3.4	36	2.2
Battery Park, Tribeca (01)	42,263	147	3.5	4.8	40	94.6	48	113.6	2	4.7	8	18.9	7	16.6	4	9.5	1	2.4	1	2.4	4	9.5	4	9.5	1	2.4	–	–	–	–
Greenwich Village, SOHO (02)	104,724	481	4.6	4.9	150	143.2	143	136.5	6	5.7	20	19.1	18	17.2	20	19.1	3	2.9	9	8.6	5	4.8	11	10.5	3	2.9	–	–	2	1.9
Lower East Side (03)	177,322	1,083	6.1	5.3	313	176.5	295	166.4	24	13.5	49	27.6	47	26.5	43	24.2	8	4.5	35	19.7	9	5.1	19	10.7	10	5.6	9	5.1	6	3.4
Chelsea, Clinton (04)	104,034	529	5.1	5.1	180	173.0	120	115.3	15	14.4	35	33.6	19	18.3	17	16.3	5	4.8	15	14.4	9	8.7	17	16.3	8	7.7	3	2.9	2	1.9
Midtown Business District (05)	50,204	230	4.6	5.1	73	145.4	72	143.4	3	6.0	15	29.9	5	10.0	7	13.9	3	6.0	2	4.0	4	8.0	3	6.0	6	12.0	1	2.0	–	–
Murray Hill (06)	151,785	836	5.5	5.0	262	172.6	273	179.9	5	3.3	35	23.1	24	15.8	30	19.8	5	3.3	19	12.5	7	4.6	13	8.6	4	2.6	1	0.7	3	2.0
Upper West Side (07)	231,154	1,332	5.8	5.2	448	193.8	359	155.3	14	6.1	64	27.7	45	19.5	45	19.5	13	5.6	26	11.2	11	4.8	26	11.2	14	6.1	7	3.0	4	1.7
Upper East Side (08)	249,333	1,340	5.4	4.9	481	192.9	393	157.6	9	3.6	72	28.9	54	21.7	40	16.0	8	3.2	15	6.0	6	2.4	16	6.4	20	8.0	1	0.4	6	2.4
Manhattanville (09)	105,689	604	5.7	6.0	178	168.4	142	134.4	31	29.3	25	23.7	24	22.7	16	15.1	4	3.8	27	25.5	8	7.6	14	13.2	5	4.7	4	3.8	1	0.9
Central Harlem (10)	96,974	896	9.2	8.8	243	250.6	224	231.0	33	34.0	40	41.2	33	34.0	21	21.7	6	6.2	33	34.0	18	18.6	11	11.3	1	1.0	14	14.4	3	3.1
East Harlem (11)	113,530	1,016	8.9	8.3	292	257.2	241	212.3	54	47.6	31	27.3	24	21.1	36	31.7	18	15.9	46	40.5	26	22.9	17	15.0	1	0.9	10	8.8	5	4.4
Washington Heights (12)	195,049	1,003	5.1	4.9	303	155.3	244	125.1	12	6.2	59	30.2	40	20.5	37	19.0	11	5.6	35	17.9	14	7.2	12	6.2	8	4.1	5	2.6	4	2.1
BRONX‡	1,397,287	8,747	6.3	6.8	2,897	207.3	2,012	144.0	318	22.8	373	26.7	228	16.3	298	21.3	98	7.0	347	24.8	171	12.2	158	11.3	82	5.9	110	7.9	31	2.2
Mott Haven (01)	91,413	509	5.6	7.0	145	158.6	100	109.4	33	36.1	20	21.9	13	14.2	21	23.0	9	9.8	23	25.2	12	13.1	11	12.0	2	2.2	8	8.8	1	1.1
Hunts Point (02)	52,854	292	5.5	7.0	96	181.6	61	115.4	9	17.0	15	28.4	6	11.4	5	9.5	5	9.5	13	24.6	8	15.1	6	11.4	1	1.9	7	13.2	4	7.6
Morrisania (03)	77,572	482	6.2	8.5	116	149.5	113	145.7	49	63.2	17	21.9	11	14.2	16	20.6	5	6.4	27	34.8	12	15.5	8	10.3	5	6.4	13	16.8	2	2.6
Concourse, Highbridge (04)	149,406	810	5.4	7.4	207	138.5	190	127.2	70	46.9	33	22.1	25	16.7	26	17.4	16	10.7	40	26.8	13	8.7	15	10.0	7	4.7	7	4.7	3	2.0
University/Morris Heights (05)	135,371	552	4.1	6.3	130	96.0	120	88.6	42	31.0	24	17.7	13	9.6	21	15.5	9	6.6	22	16.3	27	19.9	11	8.1	5	3.7	14	10.3	3	2.2
East Tremont (06)	83,735	452	5.4	7.1	131	156.4	106	126.6	15	17.9	19	22.7	10	11.9	16	19.1	7	8.4	26	31.1	10	11.9	12	14.3	9	10.7	8	9.6	3	3.6
Fordham (07)	146,227	710	4.9	6.1	246	168.2	154	105.3	24	16.4	22	15.0	19	13.0	23	15.7	8	5.5	32	21.9	17	11.6	14	9.6	8	5.5	9	6.2	2	1.4
Riverdale (08)	97,993	1,041	10.6	6.9	448	457.2	203	207.2	8	8.2	49	50.0	33	33.7	25	25.5	6	6.1	24	24.5	6	6.1	16	16.3	4	4.1	1	1.0	1	1.0
Unionport, Soundview (09)	180,361	973	5.4	6.0	312	173.0	252	139.7	23	12.8	39	21.6	21	11.6	35	19.4	15	8.3	41	22.7	25	13.9	17	9.4	10	5.5	10	5.5	2	1.1
Throgs Neck (10)	114,004	1,046	9.2	6.7	400	350.9	294	257.9	9	7.9	44	38.6	24	21.1	45	39.5	7	6.1	33	28.9	11	9.6	14	12.3	10	8.8	3	2.6	3	2.6
Pelham Parkway (11)	109,546	934	8.5	6.9	356	325.0	201	183.5	12	11.0	54	49.3	20	18.3	36	32.9	5	4.6	26	23.7	13	11.9	11	10.0	9	8.2	5	4.6	2	1.8
Williamsbridge (12)	153,234	866	5.7	5.6	285	186.0	206	134.4	19	12.4	32	20.9	29	18.9	24	15.7	5	3.3	38	24.8	14	9.1	22	14.4	10	6.5	24	15.7	5	3.3
BROOKLYN	2,567,098	15,127	5.9	5.9	6,381	248.6	3,481	135.6	252	9.8	672	26.2	381	14.8	343	13.4	132	5.1	533	20.8	171	6.7	245	9.5	121	4.7	203	7.9	62	2.4
Williamsburg, Greenpoint (01)	180,666	852	4.7	5.8	309	171.0	208	115.1	12	6.6	50	27.7	22	12.2	24	13.3	16	8.9	35	19.4	11	6.1	12	6.6	14	7.7	7	3.9	1	0.6
Fort Greene, Brooklyn Heights (02)	108,209	594	5.5	5.8	233	215.3	144	133.1	5	4.6	34	31.4	13	12.0	19	17.6	3	2.8	20	18.5	9	8.3	10	9.2	9	8.3	6	5.5	1	0.9
Bedford Stuyvesant (03)	144,542	999	6.9	7.1	371	256.7	194	134.2	42	29.1	43	29.7	29	20.1	19	13.1	11	7.6	63	43.6	18	12.5	14	9.7	5	3.5	26	18.0	5	3.5
Bushwick (04)	109,841	458	4.2	5.7	147	133.8	96	87.4	13	11.8	19	17.3	7	6.4	12	10.9	9	8.2	22	20.0	12	10.9	11	10.0	8	7.3	7	6.4	2	1.8
East New York (05)	176,052	1,058	6.0	7.1	350	198.8	243	138.0	42	23.9	25	14.2	44	25.0	25	14.2	13	7.4	39	22.2	21	11.9	25	14.2	9	5.1	34	19.3	6	3.4
Park Slope (06)	112,633	530	4.7	6.1	234	207.8	135	119.9	4	3.6	25	22.2	8	7.1	13	11.5	2	1.8	7	6.2	6	5.3	7	6.2	3	2.7	6	5.3	2	1.8
Sunset Park (07)	128,286	544	4.2	5.1	223	173.8	136	106.0	6	4.7	30	23.4	14	10.9	11	8.6	7	5.5	18	14.0	7	5.5	12	9.4	5	3.9	5	3.9	3	2.3
Crown Heights North (08)	95,882	580	6.0	6.2	202	210.7	120	125.2	17	17.7	24	25.0	24	25.0	21	21.9	7	7.3	36	37.5	10	10.4	9	9.4	3	3.1	11	11.5	2	2.1
Crown Heights South (09)	101,566	557	5.5	6.0	191	188.1	135	132.9	9	8.9	21	20.7	8	7.9	3	3.0	4	3.9	47	46.3	1	1.0	7	6.9	3	3.0	14	13.8	2	2.0
Bay Ridge (10)	131,935	938	7.1	5.9	434	328.9	246	186.5	2	1.5	69	52.3	20	15.2	22	16.7	5	3.8	12	9.1	8	6.1	17	12.9	5	3.8	3	2.3	3	2.3
Bensonhurst (11)	189,181	1,278	6.8	5.5	622	328.8	307	162.3	–	–	64	33.8	26	13.7	28	14.8	7	3.7	22	11.6	13	6.9	18	9.5	16	8.5	10	5.3	2	1.1
Borough Park (12)	197,398	940	4.8	4.7	439	222.4	205	103.9	3	1.5	49	24.8	19	9.6	25	12.7	3	1.5	21	10.6	6	3.0	15	7.6	9	4.6	7	3.5	4	2.0
Coney Island (13)	111,293	1,155	10.4	6.7	643	577.8	223	200.4	7	6.3	47	42.2	17	15.3	18	16.2	6	5.4	16	14.4	8	7.2	12	10.8	8	7.2	9	8.1	6	5.4
Flatbush, Midwood (14)	169,256	879	5.2	5.4	397	234.6	196	115.8	15	8.9	40	23.6	27	16.0	16	9.5	8	4.7	28	16.5	5	3.0	14	8.3	3	1.8	7	4.1	1	0.6
Sheepshead Bay (15)	171,498	1,244	7.3	5.3	645	376.1	271	158.0	4	2.3	61	35.6	24	14.0	33	19.2	9	5.2	22	12.8	13	7.6	19	11.1	7	4.1	6	3.5	3	1.7
Brownsville (16)	85,235	592	6.9	8.3	191	224.1	154	180.7	33	38.7	10	11.7	11	12.9	12	14.1	11	12.9	29	34.0	8	9.4	7	8.2	2	2.3	19	22.3	4	4.7
East Flatbush (17)	159,515	811	5.1	5.4	266	166.8	215	134.8	21	13.2	29	18.2	35	21.9	12	7.5	4	2.5	52	32.6	4	2.5	18	11.3	7	4.4	17	10.7	4	2.5
Canarsie (18)	194,110	1,057	5.4	5.6	459	236.5	243	125.2	13	6.7	31	16.0	32	16.5	28	14.4	6	3.1	43	22.2	8	4.1	18	9.3	4	2.1	9	4.6	11	5.7

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Table 2.12 Deaths and Death Rates* per 100,000 Population from Selected Underlying Causes by Community District of Residence, New York City, 2009 (Continued)

Community District of Residence	Population 2009 Census Estimates	All Causes (Rate per 1,000)			Heart Diseases		Malignant Neoplasms		HIV Disease		Influenza and Pneumonia		Cerebro-vascular Diseases		Chronic Lower Respiratory Diseases		Chronic Liver Disease & Cirrhosis		Diabetes Mellitus		Mental Disorders due to Substance Use & Accidental Poisoning		Accidents Except Drug Poisoning		Intentional Self-harm (Suicide)		Assault † (Homicide)		Events of Undetermined Intent	
		No.	Crude Rate	Age-Adjusted Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate	No.	Crude Rate
QUEENS	2,306,712	12,212	5.3	4.8	5,309	230.2	2,843	123.2	88	3.8	521	22.6	315	13.7	362	15.7	110	4.8	359	15.6	102	4.4	263	11.4	120	5.2	77	3.3	33	1.4
Astoria, Long Island City (01)	213,525	1,062	5.0	5.2	486	227.6	269	126.0	6	2.8	37	17.3	26	12.2	25	11.7	8	3.7	22	10.3	8	3.7	19	8.9	10	4.7	2	0.9	2	0.9
Sunnyside, Woodside (02)	119,397	492	4.1	4.2	201	168.3	120	100.5	–	–	21	17.6	17	14.2	11	9.2	8	6.7	13	10.9	2	1.7	16	13.4	10	8.4	4	3.4	2	1.7
Jackson Heights (03)	183,222	677	3.7	3.9	233	127.2	172	93.9	6	3.3	39	21.3	20	10.9	19	10.4	6	3.3	15	8.2	9	4.9	23	12.6	11	6.0	10	5.5	1	0.5
Elmhurst, Corona (04)	186,392	608	3.3	3.9	238	127.7	146	78.3	5	2.7	47	25.2	20	10.7	13	7.0	6	3.2	13	7.0	2	1.1	9	4.8	8	4.3	–	–	1	0.5
Ridgewood, Glendale (05)	161,957	962	5.9	5.4	404	249.4	240	148.2	1	0.6	47	29.0	20	12.3	32	19.8	7	4.3	30	18.5	11	6.8	18	11.1	9	5.6	6	3.7	2	1.2
Rego Park, Forest Hills (06)	116,053	758	6.5	4.1	358	308.5	157	135.3	1	0.9	53	45.7	14	12.1	25	21.5	4	3.4	15	12.9	4	3.4	9	7.8	14	12.1	2	1.7	1	0.9
Flushing (07)	266,437	1,616	6.1	4.5	805	302.1	372	139.6	2	0.8	72	27.0	42	15.8	44	16.5	9	3.4	35	13.1	10	3.8	30	11.3	20	7.5	3	1.1	3	1.1
Fresh Meadows, Briarwood (08)	151,831	904	6.0	4.9	379	249.6	217	142.9	2	1.3	43	28.3	19	12.5	28	18.4	6	4.0	39	25.7	4	2.6	18	11.9	9	5.9	3	2.0	3	2.0
Woodhaven (09)	147,017	626	4.3	4.9	242	164.6	143	97.3	10	6.8	29	19.7	18	12.2	16	10.9	12	8.2	20	13.6	8	5.4	19	12.9	8	5.4	5	3.4	3	2.0
Howard Beach (10)	128,532	649	5.0	5.3	266	207.0	162	126.0	4	3.1	27	21.0	17	13.2	20	15.6	9	7.0	31	24.1	4	3.1	20	15.6	5	3.9	3	2.3	2	1.6
Bayside (11)	118,375	599	5.1	3.7	274	231.5	130	109.8	–	–	15	12.7	20	16.9	25	21.1	4	3.4	17	14.4	4	3.4	10	8.4	6	5.1	–	–	3	2.5
Jamaica, St. Albans (12)	224,621	1,297	5.8	5.5	491	218.6	307	136.7	30	13.4	39	17.4	44	19.6	30	13.4	13	5.8	49	21.8	16	7.1	32	14.2	4	1.8	18	8.0	3	1.3
Queens Village (13)	192,788	850	4.4	4.3	357	185.2	195	101.1	7	3.6	17	8.8	28	14.5	26	13.5	4	2.1	33	17.1	6	3.1	19	9.9	3	1.6	12	6.2	2	1.0
The Rockaways (14)	109,129	1,037	9.5	8.0	546	500.3	197	180.5	13	11.9	31	28.4	8	7.3	47	43.1	12	11.0	25	22.9	12	11.0	19	17.4	3	2.7	7	6.4	4	3.7
STATEN ISLAND	491,730	3,343	6.8	6.5	1,502	305.5	792	161.1	22	4.5	152	30.9	92	18.7	132	26.8	25	5.1	112	22.8	61	12.4	62	12.6	27	5.5	18	3.7	11	2.2
Port Richmond (01)	187,370	1,209	6.5	6.5	507	270.6	261	139.3	21	11.2	66	35.2	35	18.7	58	31.0	11	5.9	51	27.2	27	14.4	18	9.6	7	3.7	14	7.5	3	1.6
Willowbrook, South Beach (02)	141,077	1,060	7.5	6.1	532	377.1	218	154.5	–	–	42	29.8	28	19.8	34	24.1	7	5.0	35	24.8	17	12.1	23	16.3	7	5.0	2	1.4	3	2.1
Tottenville (03)	163,283	1,064	6.5	7.1	461	282.3	308	188.6	1	0.6	43	26.3	29	17.8	40	24.5	7	4.3	26	15.9	17	10.4	21	12.9	12	7.3	2	1.2	5	3.1
NON-RESIDENTS	–	3,730	–	–	974	–	1,474	–	33	–	97	–	86	–	75	–	39	–	67	–	59	–	96	–	36	–	29	–	11	–
RESIDENCE UNKNOWN	–	124	–	–	30	–	9	–	7	–	5	–	2	–	1	–	2	–	1	–	9	–	13	–	7	–	3	–	17	–

Note: 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.

* Rates are calculated based on 2009 unchallenged US Census Bureau's population estimates. See Technical Notes: Population, Community District.

† See technical Notes: Deaths, Homicide.

‡ The northernmost Manhattan neighborhood of Marble Hill is in the Bronx under the community district system. As a result, the numbers of deaths in Manhattan and Bronx are slightly different from Table 2.1.

Table 2.13 **Deaths and Crude Death Rates* per 100,000 Population from**

Cause (ICD-10 Codes) ‡‡	1901-1905	1906-1910	1911-1915	1916-1920	1921-1925	1926-1930	1931-1935	1936-1940	1941-1945	1946-1948	1949-1951	1952-1955
											ANNUAL	
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 and Over	§§	§§	§§	§§	§§	§§	§§	2,589	2,709	2,902	2,441	2,310
Ratio per I ,000 live births								25.3	21.4	18.1	15.4	14.1
Perinatal mortality ratio †	§§	§§	§§	§§	§§	§§	§§	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	97
Rate										2.9	2.2	1.2
HIV Disease (B20-B24) ‡	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§
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	1,021
Rate										21.9	22.2	27.0
Trachea, bronchus, and lung, female (C33-C34)	§§	§§	§§	§§	§§	§§	§§	§§	§§	220	179	228
Rate										5.5	4.4	5.6
Colon, rectum, and anus (C18-C21)	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§
Rate												
Breast, female (C50)	§§	§§	§§	§§	§§	§§	§§	§§	§§	1,429	1,476	1,517
Rate										35.9	36.4	37.3
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 and Pneumonia (J09-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 Diseases(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 and 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 Accident ¶	§§	§§	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												

* Populations for calculating rates vary by year. See Technical Notes: Population, Citywide.
† Perinatal mortality ratio: see section titled "Rates and Ratios Defined" for definition.
‡ AIDS was first reported as a cause of death in 1982. See the Technical Notes and Historical Technical Notes: Deaths, HIV and AIDS Mortality.
§ Data for 1982-1985.
|| Rate less than 0.05.
¶ Motor vehicle accident codes are listed in Table 2.1.
** World Trade Center (WTC) disaster deaths are not included in 2001. See Special Section on WTC deaths in the 2002 Summary of Vital Statistics for detailed statistics.
†† Beginning January 2007, causes of death coding was changed. See Technical Notes: Deaths, Cause of Death Coding.
‡‡ Codes following causes in parenthesis are the International Classification of Diseases, Tenth Revision.
§§ Data are not available or not applicable.
|||| See Technical Notes: Maternal Death and Maternal Mortality.

Selected Causes, New York City, 1901-2009

AVERAGE																		
1956-1960	1961-1965	1966-1970	1971-1975	1976-1980	1981-1985	1986-1990	1991-1995	1996-2000	2001**	2002	2003	2004	2005	2006	2007††	2008	2009	Comparability Ratio
4,290	4,333	3,477	2,312	1,875	1,624	1,691	1,339	881	760	742	807	760	732	740	697	698	668	
25.7	26.2	23.6	19.9	17.4	14.4	12.8	10.0	7.1	6.1	6.0	6.5	6.1	6.0	5.9	5.4	5.5	5.3	
3,220	3,226	2,602	1,714	1,333	1,097	1,159	912	609	524	497	542	516	481	484	430	466	444	
19.3	19.5	17.7	14.8	12.3	9.7	8.8	6.8	4.9	4.2	4.0	4.4	4.2	3.9	3.9	3.3	3.6	3.5	
2,909	2,922	2,351	1,480	1,131	927	972	753	478	409	379	432	377	374	362	311	345	343	
17.4	17.7	16.0	12.8	10.5	8.2	7.4	5.6	3.8	3.3	3.1	3.5	3.0	3.0	2.9	2.4	2.7	2.7	
2,362	2,276	1,885	1,288	835	719	698	686	518	444	460	410	419	422	379	387	395	407	
14.1	13.8	12.8	11.1	7.7	6.4	5.3	5.1	4.2	3.6	3.7	3.3	3.4	3.4	3.0	3.0	3.1	3.2	
31.1	31.0	28.4	23.6	18.1	14.5	12.6	10.6	8.0	6.9	6.8	6.7	6.4	6.5	5.9	5.4	5.8	5.9	
§§	§§	§§	§§	§§	§§	§§	§§	30	43	32	29	29	26	34	39	42	42	
								24.1	34.7	26.0	23.3	23.4	21.2	27.1	30.2	32.9	33.1	
107	109	73	36	28	33	29	26	22	41	31	22	28	21	29	32	39	31	
64.1	66.0	49.6	31.1	25.9	29.2	22.3	19.2	17.5	33.1	25.2	17.7	22.6	17.1	23.1	24.8	30.5	24.5	
824	624	432	235	141	125	174	135	39	30	26	26	26	17	15	14	13	18	0.94
10.6	8.0	5.5	3.1	2.0	1.7	2.4	1.8	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	
52	43	39	32	22	35	55	34	14	3	4	8	5	4	3	2	5	7	0.70
0.7	0.6	0.5	0.4	0.3	0.5	0.8	0.5	0.2	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.1	
§§	§§	§§	§§	§§	768§	3,703	6,257	2,716	1,774	1,713	1,656	1,451	1,419	1,209	1,115	1,073	933	1.08
					10.7	50.9	83.2	36.4	22.0	21.1	20.3	17.7	17.3	14.7	13.5	12.8	11.1	
16,869	17,398	17,814	17,315	16,549	15,889	15,612	15,191	14,335	14,041	13,742	13,826	13,611	13,366	13,116	13,251	13,047	13,180	1.01
216.1	222.1	226.3	226.3	228.7	222.3	214.7	201.9	192.2	173.9	169.5	169.8	166.4	162.7	159.7	160.1	156.0	157.1	
1,157	1,294	1,890	2,434	2,387	2,217	2,201	2,083	1,849	1,746	1,708	1,738	1,727	1,648	1,580	1,597	1,593	1,500	0.98
30.9	34.8	51.0	68.1	71.0	66.7	64.4	60.6	52.7	45.6	44.4	44.9	44.4	42.1	40.4	40.4	39.9	37.4	
261	303	474	777	970	1,169	1,315	1,426	1,416	1,426	1,413	1,436	1,331	1,335	1,308	1,378	1,315	1,304	0.99
6.4	7.4	11.4	19.1	25.0	30.6	33.9	36.7	35.9	33.6	33.2	33.6	31.0	31.0	30.4	31.9	30.1	29.8	
§§	§§	§§	§§	§§	§§	§§	1,805	1,685	1,595	1,577	1,638	1,495	1,427	1,473	1,376	1,419	1,408	1.00
							24.0	22.6	19.7	19.5	20.1	18.3	17.4	17.9	16.6	17.0	16.8	
1,573	1,694	1,787	1,723	1,622	1,533	1,537	1,510	1,354	1,348	1,218	1,249	1,261	1,254	1,184	1,109	1,095	1,099	1.01
38.7	41.3	42.9	42.3	41.9	40.1	39.6	38.9	34.3	31.8	28.6	29.2	29.4	29.1	27.5	25.6	25.1	25.1	
1,581	1,789	1,867	2,064	1,547	1,436	1,198	1,348	1,659	1,710	1,704	1,891	1,734	1,813	1,708	1,560	1,643	1,690	1.02
20.3	22.9	23.7	27.0	21.4	20.1	16.5	17.9	22.2	21.2	21.0	23.2	21.2	22.1	20.8	18.9	19.6	20.1	
38,988	39,943	41,981	40,639	37,978	37,818	33,527	32,074	29,330	27,407	27,638	26,992	25,687	25,592	24,760	24,300	24,016	22,950	1.00
499.5	510.2	532.4	531.1	524.8	529.1	461.0	426.4	393.2	339.3	340.9	331.4	314.1	311.6	301.4	293.7	287.1	273.5	
6,013	6,174	6,277	5,433	4,174	3,194	2,927	2,256	2,058	1,887	1,854	1,855	1,794	1,647	1,669	1,563	1,512	1,448	1.05
77.0	78.9	79.7	71.0	57.7	44.7	40.2	30.0	27.6	23.4	22.9	22.8	21.9	20.1	20.3	18.9	18.1	17.3	
3,459	3,394	3,562	3,164	3,000	2,740	3,354	2,810	2,548	2,505	2,508	2,692	3,003	2,921	2,578	2,247	2,300	2,278	0.70
44.3	43.4	45.2	41.4	41.5	38.3	46.1	37.4	34.2	31.0	30.9	33.1	36.7	35.6	31.4	27.2	27.5	27.1	
651	960	1,425	1,627	1,583	1,941	2,507	1,943	2,025	2,118	2,092	2,013	2,052	1,912	1,722	1,778	1,943	1,945	
8.3	12.3	18.1	21.3	21.9	27.2	34.5	25.8	27.1	26.2	25.8	24.7	25.1	23.3	21.0	21.5	23.2	23.2	
1,858	2,386	2,936	2,440	2,185	1,789	1,289	946	697	578	540	520	500	469	454	453	542	494	1.03
23.8	30.5	37.3	31.9	30.2	25.0	17.7	12.6	9.3	7.2	6.7	6.4	6.1	5.7	5.5	5.5	6.5	5.9	
573	509	447	372	381	383	816	311	564	800	711	635	592	531	468	435	385	371	1.26
7.3	6.5	5.7	4.9	5.3	5.4	11.2	4.1	7.6	9.9	8.8	7.8	7.2	6.5	5.7	5.3	4.6	4.4	
96	263	551	677	414	573	787	947	875	887	869	909	822	843	903	149††	129	136	
1.2	3.4	7.0	8.8	5.7	8.0	10.8	12.6	11.7	11.0	10.7	11.2	10.1	10.3	11.0	1.8	1.5	1.6	
§§	§§	§§	§§	§§	1	143	49	26	22	36	51	33	63	76	700††	607	562	
					||	2.0	0.7	0.3	0.3	0.4	0.6	0.4	0.8	0.9	8.5	7.3	6.7
655	714	887	834	606	477	624	554	419	402	414	384	349	380	385	300	320	291	0.95
8.4	9.1	11.3	10.9	8.4	6.7	8.6	7.4	5.6	5.0	5.1	4.7	4.3	4.6	4.7	3.6	3.8	3.5	
1,095	951	871	755	525	486	589	508	§§	§§	§§	§§	§§	§§	§§	§§	§§	§§	
14.0	12.1	11.1	9.9	7.3	6.8	8.1	6.8											
2,091	1,947	1,730	1,239	926	812	880	394	493	956	766	763	696	779	734	735	724	712	
26.8	24.9	22.0	16.2	12.8	11.4	12.1	5.2	6.6	11.8	9.4	9.4	8.5	9.5	8.9	8.9	8.7	8.5	
711	908	680	641	711	603	600	599	514	462	495	484	493	481	459	477	473	475	1.00
9.1	11.6	8.6	8.4	9.8	8.4	8.3	8.0	6.9	5.7	6.1	5.9	6.0	5.9	5.6	5.8	5.7	5.7	
366	592	992	1,663	1,700	1,763	1,902	1,815	778	670	616	657	598	579	624	517	558	496	1.00
4.7	7.6	12.6	21.7	23.5	24.7	26.2	24.1	10.4	8.3	7.6	8.1	7.3	7.0	7.6	6.2	6.7	5.9	
§§	§§	946	1,062	699	696	504	161	151	206	261	189	234	269	263	185	192	201	
		10.9	13.9	9.7	9.7	6.9	2.0	2.0	2.6	3.2	2.3	2.9	3.3	3.2	2.2	2.3	2.4	
§§	§§	§§	§§	§§	§§	§§	84	115	172	230	249	242	269	246	283	374	520	1.58
							1.2	1.5	2.1	2.8	3.1	3.0	3.3	3.0	3.4	4.5	6.2	
§§	§§	§§	§§	§§	§§	§§	269	243	215	205	205	180	177	149	135	149	152	0.89
							3.7	3.3	2.7	2.5	2.5	2.2	2.2	1.8	1.6	1.8	1.8	

Table 2.14 Alcohol-attributable Deaths, Age ≥20 Years, New York City, 2004-2009

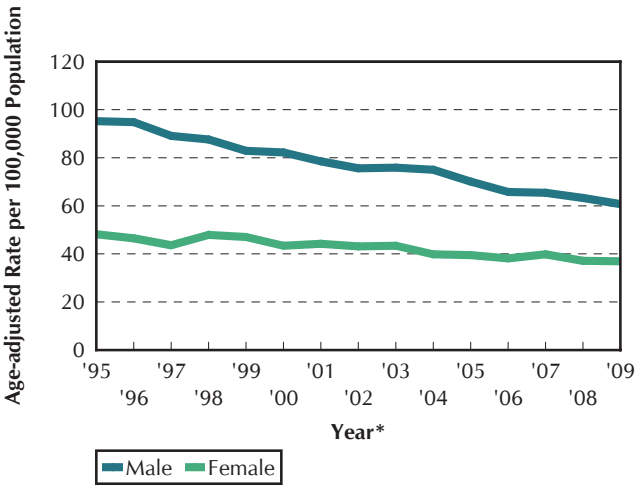
	2004*			2005*			2006*†			2007*			2008			2009		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Total for All Causes	1,314	449	1,763	1,344	452	1,796	1,353	437	1,789	1,267	414	1,681	1,254	449	1,703	1,220	455	1,675
Chronic Causes																		
Acute pancreatitis	6	7	13	6	6	11	8	6	14	6	6	12	9	7	16	8	4	12
Alcohol abuse	47	9	56	56	10	66	58	15	73	44	13	57	59	13	72	46	11	57
Alcohol cardiomyopathy	6	1	7	4	2	6	8	0	8	5	0	5	5	0	5	8	0	8
Alcohol dependence syndrome	174	39	213	194	17	211	162	36	198	146	29	175	109	23	132	110	39	149
Alcohol polyneuropathy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Alcohol-induced chronic pancreatitis	20	2	22	13	8	21	3	0	3	1	0	1	2	1	3	4	0	4
Alcoholic gastritis	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alcoholic liver disease	248	86	334	232	76	308	249	66	315	258	65	323	280	97	377	262	70	332
Alcoholic myopathy	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
Alcoholic psychosis	4	1	5	5	1	6	7	0	7	3	1	4	6	0	6	8	2	10
Breast cancer (females only)	0	10	10	0	10	10	0	10	10	0	8	8	0	9	9	0	10	10
Cholelithiases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chronic hepatitis	< 1	0	< 1	< 1	0	< 1	< 1	< 1	< 1	0	0	0	0	0	0	< 1	0	< 1
Chronic pancreatitis	0	0	0	3	2	4	3	2	5	5	1	6	3	1	3	3	2	5
Degeneration of nervous system due to alcohol	1	0	1	1	0	1	0	0	0	0	0	0	1	0	1	0	0	0
Epilepsy	2	3	5	2	2	5	2	2	3	2	2	4	2	1	3	2	3	5
Esophageal cancer	6	2	7	7	2	8	5	2	7	9	1	10	5	1	6	6	2	7
Esophageal varices	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fetal alcohol syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fetus and newborn affected by maternal use of alcohol	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gastroesophageal hemorrhage	0	0	0	< 1	0	< 1	< 1	< 1	1	< 1	0	< 1	1	0	1	< 1	1	1
Hypertension	24	25	48	26	25	51	27	25	52	39	21	60	24	27	52	29	35	64
Ischemic heart disease	14	12	26	14	12	27	14	11	26	20	10	30	11	11	22	12	12	23
Laryngeal cancer	5	1	6	5	1	6	5	1	5	6	1	7	4	1	4	4	1	5
Liver cancer	16	7	23	18	7	25	18	7	25	26	6	32	15	6	21	17	8	24
Liver cirrhosis unspecified	52	35	88	48	34	83	47	31	78	30	31	61	40	39	79	44	32	76
Low birthweight prematurity, IUGR ‡ death	2	1	3	2	1	3	2	1	3	2	1	3	1	2	3	2	1	3
Oropharyngeal cancer	6	2	8	5	1	7	5	1	5	8	1	9	4	1	5	6	1	7
Portal hypertension	0	< 1	< 1	< 1	0	< 1	< 1	0	< 1	0	< 1	< 1	< 1	0	< 1	1	0	1
Prostate cancer (males only)	4	0	4	4	0	4	4	0	4	5	0	5	3	0	3	4	0	4
Psoriasis	0	0	0	0	0	0	0	< 1	< 1	< 1	< 1	< 1	< 1	0	< 1	< 1	0	< 1
Spontaneous abortion (females only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stroke, hemorrhagic	22	5	27	18	5	23	23	5	28	22	4	26	15	3	18	16	6	22
Stroke, ischemic	3	1	4	3	1	4	2	1	3	4	1	5	3	1	4	5	2	7
Superventricular cardiac dysrthymia	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	< 1	1	1
Subtotal	663	250	914	667	224	891	653	222	875	644	202	846	602	246	849	598	243	841
Acute Causes																		
Air-space transport	0	0	0	< 1	< 1	1	< 1	0	< 1	0	0	0	0	0	0	2	< 1	2
Alcohol poisoning	7	0	7	13	3	16	9	1	10	6	1	7	50	8	58	64	11	75
Aspiration	1	1	1	2	1	3	1	1	2	3	2	5	2	2	4	1	2	3
Child maltreatment	2	1	3	3	1	4	2	4	5	2	2	4	2	2	4	2	< 1	2
Drowning	5	1	6	4	1	5	3	2	5	2	2	4	1	1	2	5	1	6
Excessive blood alcohol level	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fall injuries	72	47	119	71	58	129	75	52	127	78	53	132	74	49	123	70	52	122
Fire injuries	13	14	26	18	13	32	11	11	22	16	14	29	16	11	27	10	13	23
Firearm injuries	1	0	1	< 1	0	< 1	1	0	1	1	0	1	0	0	0	< 1	0	< 1
Homicide	223	40	264	215	45	259	238	38	276	198	33	231	217	33	251	190	37	227
Hypothermia	2	2	4	5	2	6	3	1	3	8	3	11	4	1	5	3	2	5
Motor-vehicle non-traffic crashes	2	0	2	1	0	1	< 1	< 1	1	1	0	1	< 1	< 1	< 1	< 1	1	1
Motor-vehicle traffic crashes	84	15	99	88	21	109	90	21	110	72	17	90	69	20	89	69	19	89
Occupational and machine injuries	1	0	1	1	0	1	1	0	1	1	0	1	2	< 1	2	1	0	1
Other road vehicle crashes	4	1	5	4	1	5	3	1	3	4	1	5	4	1	5	5	< 1	5
Poisoning (not alcohol)	149	51	200	171	54	225	183	58	241	153	53	206	131	46	177	116	48	164
Suicide	85	27	112	81	29	110	79	26	104	79	30	110	80	28	108	82	26	108
Suicide by and exposure to alcohol	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	1	0	1
Water transport	0	0	0	< 1	0	< 1	1	0	1	1	0	1	0	0	0	< 1	0	< 1
Subtotal	650	199	849	677	228	905	700	215	915	623	212	835	651	202	854	622	212	834

Note: Alcohol prevalence data are provided by the Bureau of Epidemiology Services. See Technical Notes: Deaths, Smoking- and Alcohol-attributable Mortality.

* Due to an increase of attributable poisoning (not alcohol) deaths caused by shifting from manual to automated coding, 2004-2007 data have been recalculated using NCHS data that used automated coding.

† 2006 alcohol consumption data were not collected in New York City Community Health Survey and therefore 2006 alcohol-attributable deaths were calculated based on 2005 alcohol prevalence data.

‡ IUGR = Intrauterine growth restriction.



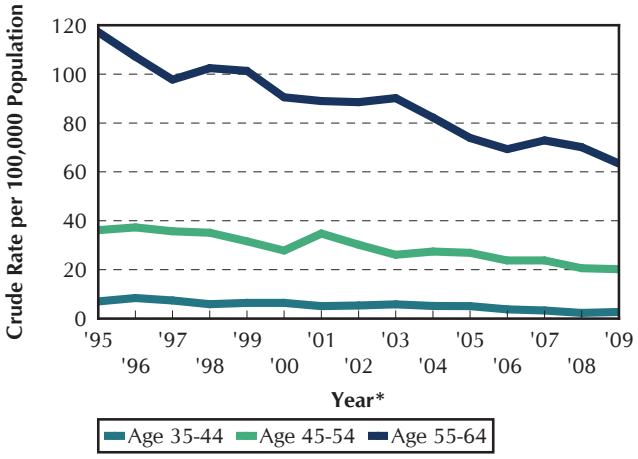
*See Technical Notes: Population, Citywide for information about population estimates.

Figure 2.7 Age-adjusted Death Rates for Trachea, Bronchus, and Lung Malignant Neoplasms, by Sex, Age ≥20, New York City, 1995-2009

Trachea, bronchus, and lung cancers are the leading causes of death among all cancers. The age-adjusted death rate for men decreased dramatically in the past 15 years, from 95.2 per 100,000 population in 1995 to 60.7 in 2009. In contrast, over the same period of time, the age-adjusted death rate was relatively stable for women decreasing from 48.2 per 100,000 population in 1995 to 36.9 in 2009. See Comparability Ratio in Technical Notes for information about the effect of ICD-9/ICD-10 coding changes. Comparability ratios for trachea, bronchus, and lung cancers from ICD-9 to ICD-10 are 0.98 for males and 0.99 for females.

Figure 2.8 Age-specific Death Rates for Trachea, Bronchus, and Lung Malignant Neoplasms, by Selected Age Group, New York City, 1995-2009

Decreases are seen in all age groups over the 15 years: decreasing from 117.2 per 100,000 population to 63.4 in the 55-64 age group, from 36.2 to 20.2 in the 45-54 age group, and 7 to 2.7 in the 35-44 age group. The greatest improvements were among adults aged 35-44.



*See Technical Notes: Population, Citywide for information about population estimates.

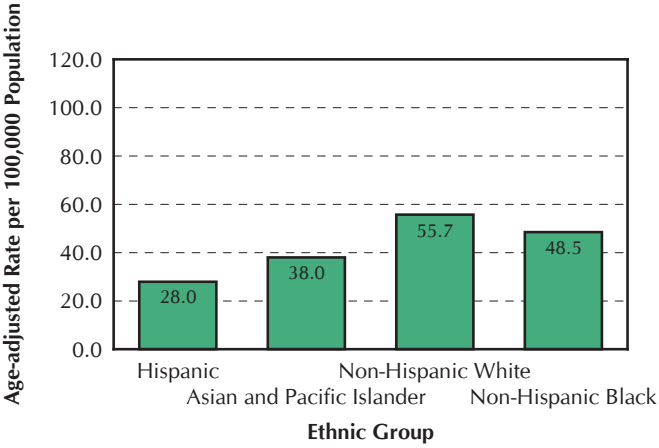


Figure 2.9 Age-adjusted Death Rates for Trachea, Bronchus, and Lung Malignant Neoplasms, by Ethnic Group, Age ≥20, New York City, 2009

The age-adjusted rates are the lowest for Hispanics, at 28 per 100,000 population, and highest for non-Hispanic whites, at 55.7 per 100,000 population. The rates for Asian and Pacific Islanders and non-Hispanic blacks are 38 and 48.5 per 100,000 population, respectively in 2009.

Table 2.15 Smoking-attributable Deaths, and Age-adjusted Death Rates* and

	2004						2005						2006					
	Deaths			Age-adjusted Rates (Per 100,000)			Deaths			Age-adjusted Rates (Per 100,000)			Deaths			Age-adjusted Rates (Per 100,000)		
Disease Category	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Total	4,751	3,385	8,136	292.2	130.6	195.2	4,772	3,324	8,096	285.8	125.7	189.9	4,433	3,311	7,744	262.4	124.9	180.6
Malignant Neoplasms																		
Lip, Oral Cavity, Pharynx	111	35	146	6.3	1.4	3.5	100	34	134	5.6	1.4	3.2	91	20	111	5.0	0.8	2.6
Esophagus	141	51	192	8.3	2.1	4.7	161	52	213	9.3	2.0	5.1	126	63	189	7.2	2.5	4.5
Stomach	66	28	94	4.1	1.1	2.3	75	24	99	4.5	0.9	2.3	67	24	91	4.0	1.0	2.2
Pancreas	81	103	184	4.8	4.1	4.4	83	91	174	4.8	3.6	4.1	78	105	183	4.4	4.1	4.3
Larynx	95	12	107	5.5	0.5	2.6	81	16	97	4.7	0.6	2.3	78	12	90	4.6	0.5	2.1
Trachea, Lung, Bronchus	1,483	904	2,387	90.6	37.2	58.6	1,426	904	2,330	85.3	37.1	56.5	1,359	912	2,271	80.0	36.8	54.3
Cervix Uteri	0	14	14	0.0	0.6	0.3	0	15	15	0.0	0.6	0.4	0	13	13	0.0	0.5	0.3
Kidney and Renal Pelvis	51	4	55	3.1	0.2	1.3	46	1	47	2.7	0.0	1.1	48	4	52	2.8	0.2	1.2
Urinary Bladder	85	27	112	5.5	1.0	2.7	84	29	113	5.4	1.1	2.7	93	29	122	5.8	1.1	2.9
Acute Myeloid Leukemia	24	11	35	1.5	0.5	0.9	27	9	36	1.6	0.4	0.9	17	12	29	1.0	0.5	0.7
Subtotal	2,137	1,189	3,326	129.7	48.7	81.3	2,083	1,175	3,258	123.9	47.7	78.6	1,957	1,194	3,151	114.8	48.0	75.1
Cardiovascular Diseases																		
Ischemic Heart Disease	1,485	1,184	2,669	90.6	43.5	62.7	1,576	1,189	2,765	93.2	42.5	63.1	1,483	1,228	2,711	86.7	44.0	61.7
Other Heart Disease	106	70	176	6.7	2.6	4.2	103	63	166	6.2	2.3	3.8	97	64	161	5.9	2.3	3.7
Cerebrovascular Disease	127	101	228	7.1	4.1	5.4	107	102	209	5.9	4.1	4.8	114	99	213	6.1	3.9	4.8
Atherosclerosis	13	6	19	0.9	0.2	0.4	22	5	27	1.4	0.2	0.6	13	7	20	0.8	0.2	0.5
Aortic Aneurysm	88	40	128	5.3	1.6	3.1	105	48	153	6.1	1.8	3.6	78	42	120	4.5	1.6	2.8
Other Arterial Disease	8	12	20	0.5	0.5	0.5	7	9	16	0.4	0.3	0.4	9	7	16	0.5	0.3	0.4
Subtotal	1,827	1,413	3,240	111.1	52.5	76.3	1,920	1,416	3,336	113.2	51.2	76.3	1,794	1,447	3,241	104.5	52.3	73.9
Respiratory Diseases																		
Pneumonia, Influenza	258	192	450	16.9	7.0	10.6	269	175	444	17.1	6.2	10.1	225	184	409	14.3	6.5	9.4
Bronchitis, Emphysema	68	55	123	4.3	2.1	3.0	64	52	116	3.9	1.9	2.7	55	50	105	3.3	1.9	2.5
Chronic Airway Obstruction	461	536	997	30.2	20.3	24.0	436	506	942	27.7	18.7	22.2	402	436	838	25.5	16.2	19.7
Subtotal	787	783	1,570	51.4	29.4	37.6	769	733	1,502	48.7	26.8	35.0	682	670	1,352	43.1	24.6	31.6

Notes:

Smoking prevalence rates are from the New York City Community Health Survey and calculated by the Bureau of Epidemiology Services, New York City Department of Health and Mental Hygiene. Number does not include burn or second hand smoke deaths.

See Technical Notes: Deaths, Smoking- and Alcohol-attributable Mortality for methodology.

Their Changes, Age ≥ 35 Years, New York City, 2004-2009

2007						2008						2009						Change from 2004 to 2009			
Deaths			Age-adjusted Rates (Per 100,000)			Deaths			Age-adjusted Rates (Per 100,000)			Deaths			Age-adjusted Rates (Per 100,000)			Deaths		Age-adjusted Rates (Per 100,000)	
Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Number Change	% Change	Rate Change	% Change of Rate
4,418	3,020	7,438	254.7	112.4	169.8	4,251	3,318	7,569	239.0	119.6	168.6	4,239	2,962	7,201	245.3	109.8	163.6	-935	-11.5%	-31.6	-16.2%
97	23	120	5.2	0.9	2.7	90	24	114	4.8	0.9	2.6	108	26	134	5.7	1.0	3.0	-12	-8.2%	-0.5	-14.3%
153	40	193	8.7	1.6	4.5	137	50	187	7.5	2.0	4.2	156	45	201	8.7	1.7	4.6	9	4.7%	-0.1	-2.1%
58	23	81	3.3	0.9	1.9	66	22	88	3.7	0.8	2.0	66	21	87	3.8	0.8	2.0	-7	-7.4%	-0.3	-13.0%
78	94	172	4.3	3.6	3.9	77	117	194	4.2	4.4	4.4	87	102	189	4.8	3.9	4.3	5	2.7%	-0.1	-2.3%
75	14	89	4.1	0.5	2.1	72	16	88	4.0	0.6	2.0	71	20	91	3.9	0.8	2.1	-16	-15.0%	-0.5	-19.2%
1,371	912	2,283	79.5	36.2	53.6	1,353	906	2,259	76.1	35.1	51.8	1,284	875	2,159	73.5	34.2	49.9	-228	-9.6%	-8.7	-14.8%
0	14	14	0.0	0.6	0.3	0	13	13	0.0	0.5	0.3	0	15	15	0.0	0.6	0.3	1	7.1%	0.0	0.0%
52	1	53	2.9	0.0	1.2	43	2	45	2.4	0.1	1.0	63	1	64	3.6	0.0	1.5	9	16.4%	0.2	15.4%
93	27	120	5.6	1.0	2.8	85	29	114	5.1	1.1	2.6	85	27	112	5.3	1.0	2.6	0	0.0%	-0.1	-3.7%
25	8	33	1.4	0.3	0.8	23	10	33	1.3	0.4	0.8	24	12	36	1.4	0.5	0.8	1	2.9%	-0.1	-11.1%
2,002	1,156	3,158	115.0	45.6	73.8	1,946	1,189	3,135	109.1	45.9	71.7	1,944	1,144	3,088	110.7	44.5	71.1	-238	-7.2%	-10.2	-12.5%
1,444	1,031	2,475	82.2	36.1	54.9	1,366	1,177	2,543	75.3	39.9	54.8	1,348	961	2,309	77.1	33.9	51.3	-360	-13.5%	-11.4	-18.2%
95	58	153	5.5	2.1	3.4	80	58	138	4.5	2.0	3.0	90	53	143	5.3	1.9	3.2	-33	-18.8%	-1.0	-23.8%
104	85	189	5.4	3.3	4.2	90	88	178	4.6	3.3	3.9	82	88	170	4.3	3.4	3.7	-58	-25.4%	-1.7	-31.5%
21	4	25	1.2	0.1	0.6	18	7	25	1.0	0.2	0.5	25	6	31	1.6	0.2	0.7	12	63.2%	0.3	75.0%
83	41	124	4.7	1.6	2.9	51	27	78	2.9	1.0	1.8	51	29	80	3.0	1.1	1.9	-48	-37.5%	-1.2	-38.7%
7	7	14	0.4	0.3	0.3	6	6	12	0.3	0.2	0.3	4	6	10	0.2	0.2	0.2	-10	-50.0%	-0.3	-60.0%
1,754	1,226	2,980	99.4	43.5	66.3	1,611	1,363	2,974	88.6	46.6	64.3	1,600	1,143	2,743	91.5	40.7	61.0	-497	-15.3%	-15.3	-20.1%
204	126	330	12.5	4.4	7.4	194	155	349	11.5	5.2	7.6	202	128	330	12.7	4.5	7.5	-120	-26.7%	-3.1	-29.2%
49	68	117	2.8	2.6	2.7	67	68	135	3.9	2.6	3.1	71	59	130	4.0	2.2	3.0	7	5.7%	0.0	0.0%
409	444	853	25.0	16.3	19.6	433	543	976	25.9	19.3	21.9	422	488	910	26.4	17.9	21.0	-87	-8.7%	-3.0	-12.5%
662	638	1,300	40.3	23.3	29.7	694	766	1,460	41.3	27.1	32.6	695	675	1,370	43.1	24.6	31.5	-200	-12.7%	-6.1	-16.2%

Table 2.16 Deaths from HIV Disease, Overall and by Sex, Age, and Ethnic Group*,

AGE GROUP/ETHNIC GROUP		ALL													
		1983-1999	2000	2001	2002†	2003	2004	2005	2006	2007	2008	2009	1983-1999	2000	2001
ALL AGES	Total	64,459	1,961	1,774	1,713	1,656	1,451	1,419	1,209	1,115	1,073	933	50,259	1,333	1,166
	Puerto Rican	11,865	413	369	359	323	300	289	220	224	217	187	8,833	285	240
	Other Hispanic	5,784	166	121	144	167	113	129	111	103	118	105	4,795	123	95
	Asian & Pacific Islander	421	13	8	14	8	6	7	10	5	10	3	375	11	7
	Non-Hispanic White	17,174	303	298	274	245	192	196	178	143	129	90	15,130	236	219
	Non-Hispanic Black	25,734	1,008	911	872	846	793	769	660	625	583	537	18,322	629	552
	Other or Unknown	3,481	58	67	50	67	47	29	30	15	16	11	2,804	49	53
UNDER 1	Total	308	3	1	1	1	–	–	–	–	–	–	156	1	1
	Puerto Rican	42	–	–	–	–	–	–	–	–	–	–	24	–	–
	Other Hispanic	28	–	1	1	–	–	–	–	–	–	–	15	–	1
	Asian & Pacific Islander	1	–	–	–	–	–	–	–	–	–	–	1	–	–
	Non-Hispanic White	48	–	–	–	–	–	–	–	–	–	–	31	–	–
	Non-Hispanic Black	170	3	–	–	1	–	–	–	–	–	–	77	1	–
	Other or Unknown	19	–	–	–	–	–	–	–	–	–	–	8	–	–
1-14	Total	924	7	6	5	9	6	4	1	2	–	1	473	3	2
	Puerto Rican	166	1	–	–	–	1	2	–	–	–	–	88	–	–
	Other Hispanic	97	–	–	2	1	1	1	1	1	–	–	52	–	–
	Asian & Pacific Islander	6	–	–	–	–	–	–	–	–	–	–	3	–	–
	Non-Hispanic White	150	2	1	–	1	–	–	–	1	–	–	79	2	1
	Non-Hispanic Black	460	3	5	3	7	4	1	–	–	–	1	232	1	1
	Other or Unknown	45	1	–	–	–	–	–	–	–	–	–	19	–	–
15-24	Total	977	22	24	20	18	15	22	22	19	17	14	598	8	9
	Puerto Rican	221	2	3	6	1	2	4	1	7	3	2	129	1	–
	Other Hispanic	113	2	2	3	4	–	2	5	4	–	3	82	–	1
	Asian & Pacific Islander	6	–	–	–	–	–	–	–	–	–	–	4	–	–
	Non-Hispanic White	151	1	1	2	–	1	1	1	–	1	3	102	–	–
	Non-Hispanic Black	422	17	18	9	12	11	15	13	8	13	6	244	7	8
	Other or Unknown	64	–	–	–	–	1	–	2	–	–	–	37	–	–
25-34	Total	16,174	233	194	140	123	90	92	63	52	77	49	11,798	133	102
	Puerto Rican	3,377	55	31	24	20	12	12	4	8	8	7	2,386	30	15
	Other Hispanic	1,703	29	20	15	15	8	12	6	4	11	3	1,358	23	17
	Asian & Pacific Islander	88	1	1	1	–	1	–	–	1	–	1	75	–	1
	Non-Hispanic White	3,974	21	17	13	10	12	7	9	3	6	5	3,326	13	8
	Non-Hispanic Black	6,161	120	117	83	75	56	59	44	35	52	33	3,993	62	58
	Other or Unknown	871	7	8	4	3	1	2	–	1	–	–	660	5	3
35-44	Total	27,889	695	638	624	568	467	407	343	311	246	190	21,954	456	387
	Puerto Rican	4,993	152	142	131	114	101	71	65	64	57	45	3,800	103	84
	Other Hispanic	2,320	60	40	62	60	33	48	41	27	37	28	1,956	40	27
	Asian & Pacific Islander	169	6	4	4	3	2	3	4	2	3	1	158	6	4
	Non-Hispanic White	7,721	121	118	101	85	71	45	45	46	34	18	6,828	95	80
	Non-Hispanic Black	11,206	339	309	312	281	250	224	182	168	113	98	8,018	198	171
	Other or Unknown	1,480	17	25	14	25	10	16	6	4	2	–	1,194	14	21
45-54	Total	13,066	706	629	641	640	594	586	502	448	425	352	10,936	499	443
	Puerto Rican	2,319	140	133	125	127	127	140	99	84	89	65	1,820	102	98
	Other Hispanic	1,041	55	32	41	58	45	49	40	43	46	46	914	44	27
	Asian & Pacific Islander	100	3	1	6	4	2	3	3	–	5	–	93	3	–
	Non-Hispanic White	3,653	117	109	116	103	73	93	76	61	45	35	3,394	94	86
	Non-Hispanic Black	5,226	367	329	327	322	322	294	272	256	231	200	4,073	234	211
	Other or Unknown	727	24	25	26	26	25	7	12	4	9	6	642	22	21
≥55	Total	5,121	295	282	282	296	279	308	278	283	308	327	4,344	233	222
	Puerto Rican	747	63	60	73	61	57	60	51	61	60	68	586	49	43
	Other Hispanic	482	20	26	20	29	26	17	18	24	24	25	418	16	22
	Asian & Pacific Islander	51	3	2	3	–	1	1	3	2	2	1	41	2	2
	Non-Hispanic White	1,477	41	52	42	46	35	50	47	32	43	29	1,370	32	44
	Non-Hispanic Black	2,089	159	133	138	148	150	176	149	158	174	199	1,685	126	103
	Other or Unknown	275	9	9	6	12	10	4	10	6	5	5	244	8	8

Note: See Technical Notes: Deaths, HIV and AIDS Mortality.

* Beginning in 2003, multiple races are included in "Other or Unknown" category in this table. See Technical Notes: Demographic Characteristics of Vital Events: Race, Ancestry, and Ethnic Group.

† 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, 1983-2009

MALE								FEMALE										
2002	2003	2004	2005	2006	2007	2008	2009	1983-1999	2000	2001	2002†	2003	2004	2005	2006	2007	2008	2009
1,138	1,100	943	949	818	711	702	603	14,200	628	608	575	556	508	470	391	404	371	330
239	213	204	206	163	142	138	125	3,032	128	129	120	110	96	83	57	82	79	62
104	113	79	100	78	76	84	71	989	43	26	40	54	34	29	33	27	34	34
11	8	5	6	8	3	7	2	46	2	1	3	–	1	1	2	2	3	1
207	181	146	143	139	103	104	68	2,044	67	79	67	64	46	53	39	40	25	22
538	536	481	475	407	377	356	329	7,412	379	359	334	310	312	294	253	248	227	208
39	49	28	19	23	10	13	8	677	9	14	11	18	19	10	7	5	3	3
–	–	–	–	–	–	–	–	152	2	–	1	1	–	–	–	–	–	–
–	–	–	–	–	–	–	–	18	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	13	–	–	1	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	0	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	17	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	93	2	–	–	1	–	–	–	–	–	–
–	–	–	–	–	–	–	–	11	–	–	–	–	–	–	–	–	–	–
3	3	4	2	–	1	–	1	451	4	4	2	6	2	2	1	1	–	–
–	–	–	1	–	–	–	–	78	1	–	–	–	1	1	–	–	–	–
2	–	–	–	–	–	–	–	45	–	–	–	1	1	1	1	1	–	–
–	–	–	–	–	–	–	–	3	–	–	–	–	–	–	–	–	–	–
–	1	–	–	–	1	–	–	71	–	–	–	–	–	–	–	–	–	–
1	2	4	1	–	–	–	1	228	2	4	2	5	–	–	–	–	–	–
–	–	–	–	–	–	–	–	26	1	–	–	–	–	–	–	–	–	–
11	7	8	14	12	9	7	5	379	14	15	9	11	7	8	10	10	10	9
3	1	1	4	1	3	–	–	92	1	3	3	–	1	–	–	4	3	2
2	2	–	2	3	4	–	–	31	2	1	1	2	–	–	2	–	–	3
–	1	–	–	–	–	–	–	2	–	–	–	–	–	–	–	–	–	–
2	–	1	1	–	–	1	2	49	1	1	–	–	–	–	1	–	–	1
4	3	5	7	7	2	6	3	178	10	10	5	9	6	8	6	6	7	3
–	–	1	–	1	–	–	–	27	–	–	–	–	–	–	1	–	–	–
72	76	45	59	41	32	48	32	4,376	100	92	68	47	45	33	22	20	29	17
10	12	5	6	2	3	5	6	991	25	16	14	8	7	6	2	5	3	1
10	12	6	9	4	4	10	2	345	6	3	5	3	2	3	2	–	1	1
1	–	1	–	–	–	–	–	13	1	–	–	–	–	–	–	1	–	1
8	8	9	5	6	2	4	5	648	8	9	5	2	3	2	3	1	2	–
41	43	23	38	29	22	29	19	2,168	58	59	42	32	33	21	15	13	23	14
2	1	1	1	–	1	–	–	211	2	5	2	2	–	1	–	–	–	–
383	330	280	241	211	177	144	111	5,935	239	251	241	238	187	166	132	134	102	79
83	65	65	46	47	41	30	26	1,193	49	58	48	49	36	25	18	23	27	19
41	32	23	32	28	17	23	16	364	20	13	21	28	10	16	13	10	14	12
3	3	1	3	3	1	3	1	11	–	–	1	–	1	–	1	1	–	–
67	55	53	31	28	32	22	12	893	26	38	34	30	18	14	17	14	12	6
179	156	134	120	100	83	65	56	3,188	141	138	133	125	116	104	82	85	48	42
10	19	4	9	5	3	1	–	286	3	4	4	6	6	7	1	1	1	–
455	451	395	400	342	289	275	225	2,130	207	186	186	189	199	186	160	159	150	127
86	91	91	101	74	58	56	51	499	38	35	39	36	36	39	25	26	33	14
32	45	31	43	29	32	33	35	127	11	5	9	13	14	6	11	11	13	11
6	4	2	2	2	–	3	–	7	–	1	–	–	–	1	1	–	2	–
93	77	53	69	65	40	37	25	259	23	23	23	26	20	24	11	21	8	10
215	216	203	180	164	156	139	111	1,153	133	118	112	106	119	114	108	100	92	89
23	18	15	5	8	3	7	3	85	2	4	3	8	10	2	4	1	2	3
214	232	211	233	212	203	228	229	777	62	60	68	64	68	75	66	80	80	98
57	44	42	48	39	37	47	42	161	14	17	16	17	15	12	12	24	13	26
17	22	19	14	14	19	18	18	64	4	4	3	7	7	3	4	5	6	7
1	–	1	1	3	2	1	1	10	1	–	2	–	–	–	–	–	1	–
37	40	30	37	40	28	40	24	107	9	8	5	6	5	13	7	4	3	5
98	116	112	129	107	114	117	139	404	33	30	40	32	38	47	42	44	57	60
4	10	7	4	9	3	5	5	31	1	1	2	2	3	–	1	3	–	–

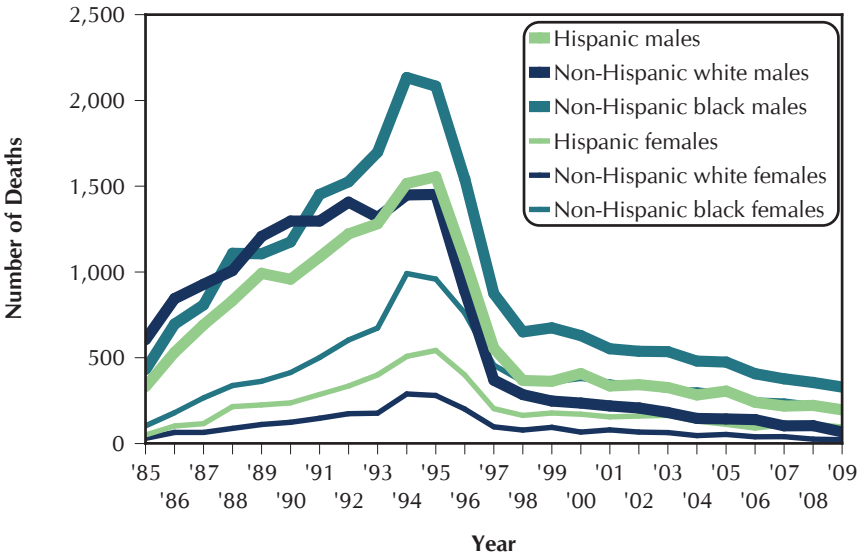


Figure 2.10 Deaths Due to HIV Disease by Sex and Selected Ethnic Group, New York City, 1985-2009

The number of deaths due to HIV disease decreased 13%, from 1,073 in 2008 to 933 in 2009. This is lower than the 1985 level for AIDS alone (1,663). AIDS deaths peaked at 7,102 in 1994. The number of HIV disease deaths declined for both males and females from 2008 to 2009. In addition, HIV disease deaths decreased for all ethnic groups from 2008 to 2009. The biggest decline was among non-Hispanic white males, from 104 to 68, a decrease of 34.6%. The number of non-Hispanic white females who died from HIV disease dropped by 13%. The decline also was seen among non-Hispanic black females, from 227 to 208, an 8.3% decrease. Non-Hispanic black males experienced a 7.6% decrease, from 356 to 329. Hispanic females also saw a decline of 15%, from 113 to 96.

See Technical Notes: Deaths, Comparability Ratio for more information about the effect of ICD9/ICD10 coding changes.

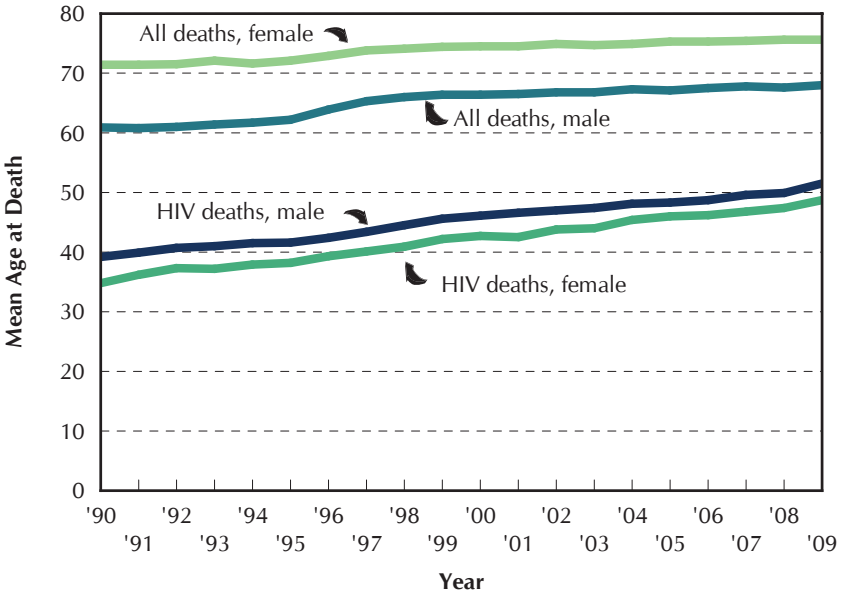


Figure 2.11 Mean Age at Death, All Deaths, and HIV Disease Deaths by Sex, New York City, 1990-2009

The mean age at death for men who died of HIV disease was 51.5 in 2009, an increase of 12.3 years from 1990. The mean age at death for women increased almost 14 years from 1990 to 2009. 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 in the mean age at death over the past 20 years was steeper for women who died of HIV disease, they lived 2.8 fewer years than their male counterparts in 2009. Among those who died of HIV disease, men lived an average of 16.5 fewer years and women lived an average of 26.9 fewer years compared with overall deaths in New York City in 2009.

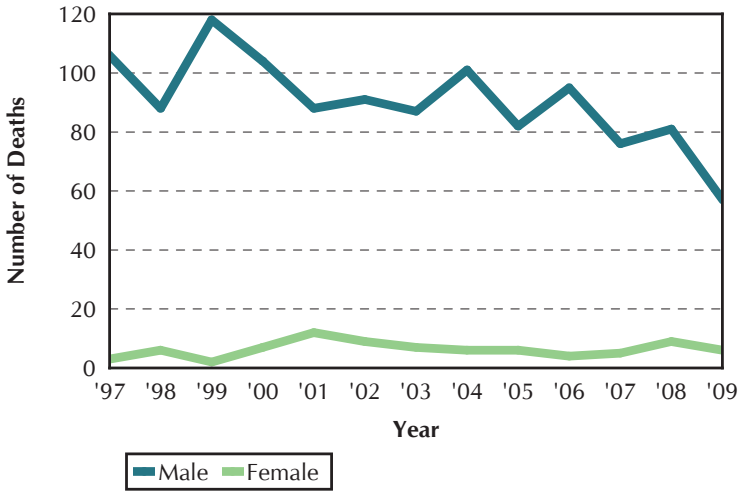


Figure 2.12 Fatal Occupational Injuries by Sex, New York City, 1997-2009

Fatal occupational injuries continue to fluctuate but have remained below 100 deaths per year since 2007. There were 63 fatal occupational injuries in 2009, a decrease from 90 in 2008. Males have a much higher rate of fatal injuries than females, accounting for about 90% of all occupational injury deaths during the past 5 years. This past year saw the fewest number of fatal occupational injuries since 1997.

Please note that World Trade Center deaths are homicides and are not included in this figure for the year 2001.

Table 2.17 **Selected Characteristics of Deaths Due to Fatal Occupational Injuries, New York City, 2009**

Characteristic	All Deaths	Sex		Age Group (Years)				
		Male	Female	<25	25-34	35-44	45-54	≥55
Total	63	57	6	4	12	13	20	14
Selected Events								
Transportation incident	11	10	1	2	2	3	3	1
Contact with objects and equipment	9	9	–	–	1	1	5	2
Assaults and violent acts	28	24	4	1	7	7	8	5
Homicide	16	15	1	1	2	6	5	2
Shooting	12	12	–	1	1	6	2	2
Falls	8	8	–	–	1	1	1	5
Selected Industries*								
Construction	13	13	–	1	3	1	5	3
Transportation and warehousing	10	10	–	1	1	3	3	2
Taxicabs	6	6	–	1	–	3	2	–
Retail trade	6	6	–	1	1	–	2	2
Grocery stores	3	3	–	1	–	–	–	2
Accommodation and food services	5	5	–	–	2	2	1	–
Eating and drinking places	5	5	–	–	2	2	1	–
Public administration	1	1	–	–	–	–	1	–
Police and fire protection	0	–	–	–	–	–	–	–
Financial activities	5	5	–	–	2	3	–	–
Ethnic Group								
Non-Hispanic White	29	26	3	2	7	3	11	6
Non-Hispanic Black	9	8	1	–	1	3	2	3
Hispanic	20	18	2	1	4	5	6	4
Asian and Pacific Islander	5	5	–	1	–	2	1	1

* See Technical Notes: Deaths, Fatal Occupational Injuries.

Figure 2.13 **Number of Deaths from Selected External Causes, New York City, 1990-2009**

The number of homicide (assault) deaths has declined more than 78% since 1990, when it peaked at 2,272. The rate of decline has slowed since 1998 as the number of homicide deaths dropped from 675 to 496 deaths in 2009. This is the first time in two decades that the number of homicides fell below 500. Suicide deaths have decreased approximately 26% over the past two decades from a peak of 649 deaths in 1991 to 475 in 2009. Motor vehicle accidents deaths decreased 59%, from 704 in 1990 to 291 in 2009. 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.

The large surge in non-motor-vehicle accident deaths from 2006 to 2007 was a result of a correction in the coding process for deaths due to psychoactive substances. For additional information, please read the special section entitled "New York City Changes from Manual to Automated Cause-of-Death Coding" in the 2007 Summary of Vital Statistics.

All reported WTC disaster deaths are homicides and not included in this graph for the year 2001. See special sections in the 2002 and 2005 Summaries of Vital Statistics and Technical Notes for detailed information on WTC disaster deaths.

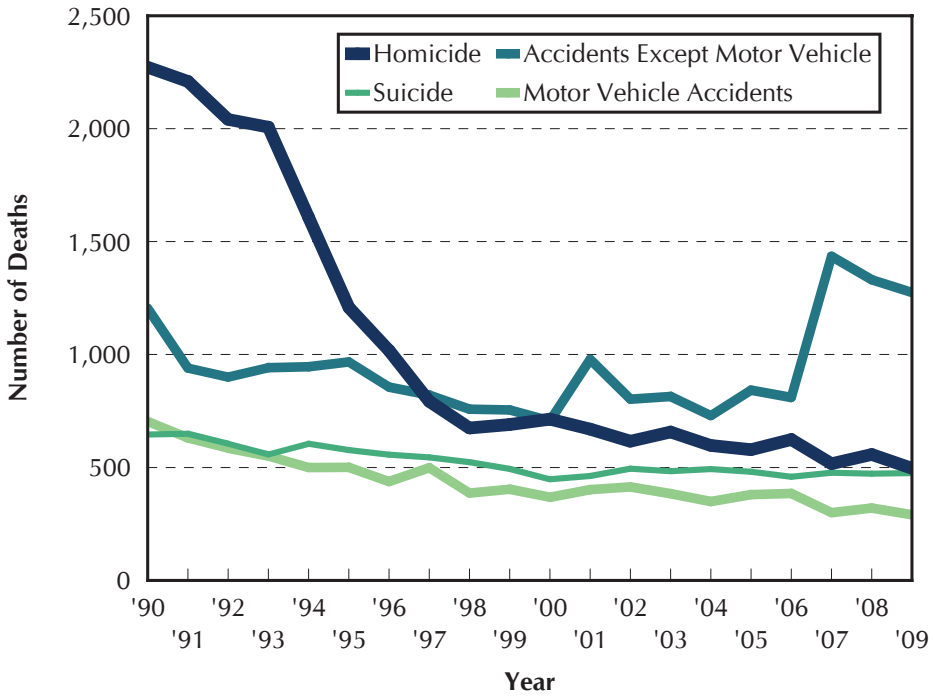


Table 2.18 **Deaths Due to Accidents, Overall and by Age and Sex, New York City, 2009**

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	1,565	20	8	4	1	5	3	20	13	62	13	152	41	178	71	242	98	158	49	81	49	134	163
Motor Vehicle Except Injury to Pedestrian, Pedal Cyclist, and Motorcyclist	80	-	-	-	1	-	2	5	2	11	2	12	6	8	1	10	4	2	-	4	3	5	2
Injury to Pedestrians	184	1	1	4	-	4	-	1	2	8	3	13	12	15	9	18	7	25	6	17	13	13	12
Collision with motor vehicle	162	1	1	4	-	4	-	-	2	7	3	9	12	9	9	14	7	23	5	15	13	13	11
Collision with railway transportation	19	-	-	-	-	-	-	1	-	1	-	4	-	6	-	2	-	2	1	2	-	-	-
Other collision	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1
Injury to Pedal Cyclist	19	-	-	-	-	-	-	-	-	1	-	2	1	6	-	3	-	1	-	3	-	2	-
Collision with motor vehicle	10	-	-	-	-	-	-	-	-	-	-	1	1	3	-	1	-	-	-	3	-	1	-
Other collision	9	-	-	-	-	-	-	-	-	1	-	1	-	3	-	2	-	1	-	-	-	1	-
Injury to Motorcyclist	30	-	-	-	-	-	-	-	-	5	1	12	-	7	1	2	-	2	-	-	-	-	-
Water Transport Accidents	2	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
Air and Space Transport Accidents	10	-	-	-	-	-	-	3	-	-	-	2	-	-	1	3	-	1	-	-	-	-	-
Other Transport Accidents	10	-	-	-	-	-	-	2	-	-	-	2	-	2	1	-	-	-	1	1	-	-	1
Sequelae (Late Effects) of Transport Accidents	10	-	-	-	-	-	-	-	1	2	-	1	-	1	-	-	1	1	-	1	-	1	1
Fall	388	3	3	-	-	-	-	2	-	8	-	13	-	17	6	29	10	26	10	31	18	93	119
Firearm Discharge	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Drowning and Submersion	19	2	-	-	-	-	-	2	-	2	1	1	-	4	-	1	1	3	-	1	-	1	-
Smoke, Fire, and Flames	58	3	-	-	-	-	-	-	2	4	-	3	3	3	3	3	2	2	4	4	6	5	11
Poisoning by Noxious Substances	642	-	-	-	-	-	1	3	3	17	6	86	17	108	48	155	71	83	26	9	3	4	2
Poisoning by psychoactive substances*	562	-	-	-	-	-	1	2	3	16	6	77	17	93	44	130	65	70	25	6	3	2	2
Poisoning by other noxious substances	80	-	-	-	-	-	-	1	-	1	-	9	-	15	4	25	6	13	1	3	-	2	-
Exposure to Excessive Natural Heat	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
Exposure to Excessive Natural Cold	12	-	-	-	-	-	-	-	-	-	-	1	-	-	1	4	-	3	-	-	1	-	2
Suffocation	43	10	4	-	-	-	-	1	3	1	-	1	-	1	-	3	-	4	2	4	3	1	5
Contact with Machinery	5	-	-	-	-	-	-	-	-	-	-	1	-	-	-	3	-	1	-	-	-	-	-
Other Non-transport Accidents	37	1	-	-	-	-	-	1	-	1	-	2	2	2	-	4	1	2	-	4	2	8	7
Sequelae (Late Effects) of Non-transport Accidents	13	-	-	-	-	1	-	-	-	1	-	-	-	1	-	4	1	2	-	2	-	1	-

*See Technical Notes: Deaths, Drug-Related Deaths.

Table 2.19 Deaths Due to Intentional Self-harm (Suicide), Overall and by Age and Sex, New York City, 2009

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	475	-	-	1	-	2	1	12	6	30	12	64	15	62	23	83	17	59	19	20	10	27	12
Poisoning by Drug and Medicinal Substances	82	-	-	-	-	-	-	-	1	2	1	1	3	11	9	18	6	11	8	3	3	2	3
Poisoning by Other Substances	7	-	-	-	-	-	-	-	-	-	-	1	-	1	2	2	-	-	-	-	1	-	-
Hanging, Strangulation, and Suffocation	162	-	-	1	-	1	1	6	1	10	5	32	8	19	6	22	3	26	2	5	2	8	4
Drowning and Submersion	13	-	-	-	-	-	-	-	-	1	1	2	1	3	1	2	-	-	-	-	1	1	-
Firearm Discharge	68	-	-	-	-	-	-	-	1	7	-	6	-	11	-	17	-	9	-	6	-	10	1
Sharp Object	22	-	-	-	-	-	-	-	-	-	-	3	-	3	-	4	1	6	2	2	-	1	-
Blunt Object	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jumping from High Place	88	-	-	-	-	1	-	5	3	9	5	10	2	11	3	12	6	4	5	2	3	4	3
Jumping or Lying Before Moving Object	25	-	-	-	-	-	-	1	-	1	-	6	1	2	2	4	1	3	2	2	-	-	-
Other and Unspecified Means	6	-	-	-	-	-	-	-	-	-	-	1	-	1	-	2	-	-	-	-	-	1	1
Sequelae (Late Effects)	2	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-

Table 2.20 Deaths Due to Assault (Homicide) and Legal Intervention, Overall and by Age and Sex, New York City, 2009

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	506	7	2	-	-	5	-	63	6	94	10	119	19	69	17	32	15	21	8	9	-	6	4
Poisoning by Noxious Substances	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hanging, Strangulation, and Suffocation	23	1	1	-	-	-	-	-	1	-	1	2	3	1	4	3	2	1	1	-	-	2	-
Drowning and Submersion	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Firearm Discharge	308	-	-	-	-	2	-	50	3	69	5	93	8	44	4	12	3	10	-	2	-	-	3
Smoke, Fire, and Flames	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Sharp Object	93	-	-	-	-	2	-	10	1	13	2	18	5	13	2	9	6	6	2	2	-	2	-
Blunt Object	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Pushing from High Place	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-
Bodily Force	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Neglect, Abandonment, and Other Maltreatment	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other and Unspecified Means	55	3	1	-	-	1	-	2	1	10	2	2	2	6	7	4	1	4	4	2	-	2	1
Sequelae (Late Effects)	10	-	-	-	-	-	-	-	-	-	-	1	1	2	-	1	1	-	1	3	-	-	-
Legal Intervention, All*	10	-	-	-	-	-	-	1	-	2	-	3	-	2	-	1	1	-	-	-	-	-	-

* All legal intervention deaths are from firearm discharge. See Technical Notes: Deaths, Homicide.

Table 2.21 Deaths Due to Events of Undetermined Intent, Overall and by Age and Sex, New York City, 2009

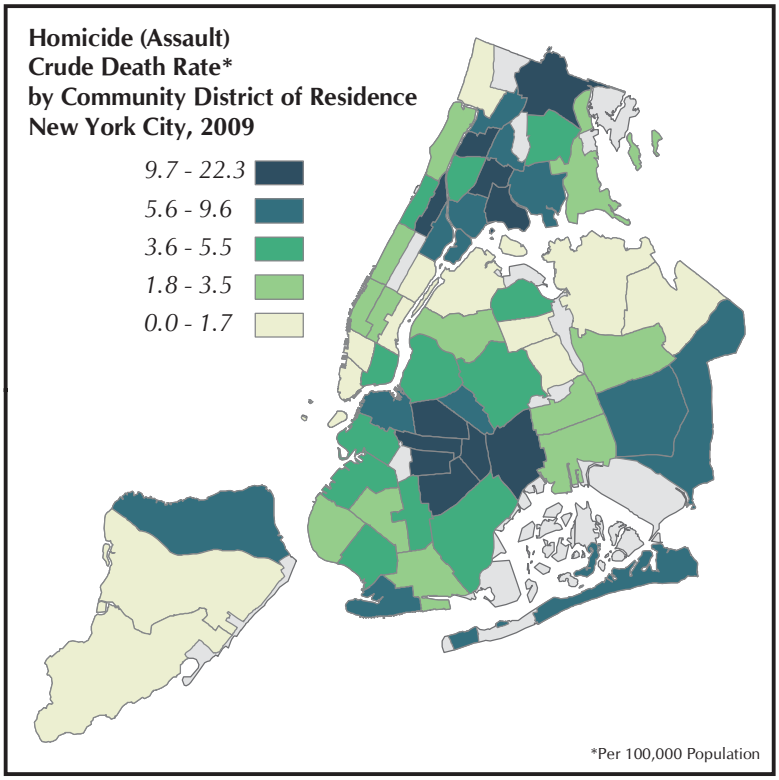
Method	All Ages	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		≥75	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Total	201	21	21	1	-	1	-	-	1	5	-	20	5	24	7	30	10	22	7	9	3	6	8
Poisoning by Noxious Substances	23	-	1	-	-	-	-	-	-	-	-	3	2	4	2	1	2	1	3	2	2	-	-
Hanging, Strangulation, and Suffocation	4	1	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
Drowning and Submersion	15	-	-	-	-	-	-	-	-	1	-	6	-	3	1	3	-	-	1	-	-	-	-
Firearm Discharge	2	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-
Smoke, Fire, and Flames	5	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	1	-	-	1	-	-	-
Falling from High Place	5	-	-	1	-	-	-	-	-	-	-	-	-	2	-	-	1	1	-	-	-	-	-
Other and Unspecified Means	145	20	20	-	-	-	-	-	1	4	-	10	1	11	4	24	6	20	3	6	1	6	8
Sequelae (Late Effects)	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-

Table 2.22 Deaths Due to Complications of Medical and Surgical Care, Overall and by Age and Sex, New York City, 2009

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	37	2	-	-	-	-	-	1	-	-	-	-	1	1	2	3	4	5	6	3	3	2	4
Adverse Effects from Drugs, Medicaments, and Biological Substances for Therapeutic Use	8	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	1	1	1	-	1	-	1
Medical Misadventures to Patients During Surgical and Medical Care	16	2	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	2	2	1	1	2	3
Other and Unspecified Means	13	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	2	2	3	2	1	-	-

Table 2.23 Deaths Due to Firearms (All Causes), Overall and by Age and Sex, New York City, 2009

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)	389	-	-	-	-	2	-	51	4	79	5	103	8	58	4	30	4	19	-	8	-	10	4



Map 2.4 Homicide (Assault) Crude Death Rate by Community District of Residence, New York City, 2009

The community district with the highest crude death rate due to homicide (assault) was Brownsville at 22.3. Other community districts in the highest quintile were East New York at 19.3, Bedford Stuyvesant at 18.0, Morrisania at 16.8, Williamsbridge at 15.7, Central Harlem at 14.4, Crown Heights South at 13.8, Hunts Point at 13.2, Crown Heights North at 11.5, East Flatbush at 10.7, and University/Morris Heights at 10.3.

Four community districts had no homicides (assault) in 2009: Battery Park/Tribeca, Greenwich Village/SOHO, Elmhurst/Corona, and Bayside. Other community districts with a crude death rate of 2.0 or below include Upper East Side at 0.4, Murray Hill at 0.7, Astoria/Long Island City at 0.9, Riverdale at 1.0, Flushing at 1.1, Tottenville at 1.2, Willowbrook/South Beach at 1.4, Rego Park/Forest Hills at 1.7, and Midtown Business District and Fresh Meadows/Briarwood at 2.0.

Table 2.24 Life Expectancy at Specified Ages, Overall and by Sex and Ethnic Group, New York City, 1989-1991 and 1999-2001*

Exact Age in Years	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 in Years	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 in Years	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 average death data are used to estimate above decennial life expectancy to smooth the outcome. See Technical Notes: Life Expectancy.

* US Census population data for 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 excluded. See Special Section in 2002 Summary of Vital Statistics, Table WTC10 for the impact of WTC deaths on life expectancy in New York City.

Table 2.25 **Life Expectancy at Specified Ages, Overall and by Sex, New York City, 1999-2008***

	Total									
Exact age in years	1999	2000	2001†	2002	2003	2004	2005	2006	2007	2008
0	77.2	77.7	77.8	78.0	78.2	78.6	78.7	79.0	79.4	79.4
1	76.7	77.2	77.2	77.4	77.6	78.1	78.1	78.5	78.8	78.8
5	72.8	73.2	73.3	73.5	73.7	74.1	74.2	74.5	74.9	74.8
10	67.9	68.3	68.4	68.6	68.7	69.2	69.2	69.6	69.9	69.9
15	62.9	63.3	63.4	63.6	63.8	64.2	64.3	64.6	64.9	64.9
20	58.1	58.5	58.6	58.7	58.9	59.4	59.4	59.7	60.1	60.0
25	53.3	53.7	53.8	53.9	54.1	54.6	54.6	54.9	55.2	55.2
30	48.5	48.9	49.0	49.1	49.3	49.7	49.8	50.1	50.4	50.4
35	43.8	44.2	44.2	44.3	44.5	44.9	45.0	45.3	45.6	45.6
40	39.2	39.5	39.6	39.7	39.9	40.2	40.2	40.6	40.8	40.8
45	34.7	35.1	35.2	35.2	35.4	35.7	35.7	36.0	36.2	36.2
50	30.4	30.8	30.9	30.9	31.1	31.3	31.3	31.6	31.8	31.8
55	26.3	26.6	26.8	26.8	26.9	27.2	27.2	27.4	27.6	27.5
60	22.3	22.6	22.8	22.8	23.0	23.3	23.3	23.6	23.7	23.6
65	18.5	18.8	19.0	19.1	19.2	19.4	19.5	19.8	20.0	19.9
70	15.1	15.4	15.5	15.5	15.6	15.8	15.9	16.1	16.3	16.3
75	11.9	12.1	12.2	12.2	12.3	12.3	12.4	12.6	12.8	12.8
80	9.1	9.3	9.2	9.2	9.3	9.3	9.3	9.4	9.5	9.5
85	6.7	6.8	6.7	6.7	6.8	6.9	6.8	6.8	6.9	6.8

	Male									
Exact age in years	1999	2000	2001†	2002	2003	2004	2005	2006	2007	2008
0	74.1	74.5	74.8	74.9	75.1	75.7	75.7	75.9	76.3	76.3
1	73.7	74.0	74.2	74.4	74.6	75.2	75.1	75.4	75.7	75.7
5	69.8	70.1	70.3	70.5	70.7	71.2	71.2	71.5	71.8	71.8
10	64.8	65.1	65.4	65.5	65.7	66.3	66.3	66.5	66.8	66.8
15	59.9	60.2	60.4	60.6	60.8	61.4	61.3	61.5	61.9	61.9
20	55.1	55.4	55.6	55.7	56.0	56.5	56.5	56.7	57.0	57.0
25	50.4	50.7	50.9	51.0	51.2	51.8	51.8	52.0	52.3	52.3
30	45.7	46.0	46.2	46.3	46.5	47.0	47.0	47.3	47.5	47.5
35	41.0	41.3	41.5	41.6	41.8	42.3	42.3	42.5	42.7	42.8
40	36.5	36.8	37.0	37.0	37.2	37.6	37.6	37.8	38.0	38.1
45	32.2	32.4	32.6	32.6	32.8	33.1	33.1	33.3	33.5	33.5
50	28.1	28.3	28.5	28.5	28.6	28.9	28.9	29.1	29.2	29.2
55	24.1	24.4	24.6	24.5	24.7	25.0	25.0	25.1	25.2	25.1
60	20.3	20.6	20.8	20.8	20.9	21.3	21.3	21.5	21.5	21.5
65	16.7	17.0	17.2	17.2	17.4	17.7	17.7	17.9	18.0	18.0
70	13.5	13.8	13.9	13.9	14.0	14.3	14.3	14.5	14.6	14.7
75	10.7	10.8	10.9	11.0	10.9	11.0	11.1	11.2	11.2	11.4
80	8.1	8.3	8.3	8.3	8.3	8.3	8.2	8.3	8.2	8.3
85	6.0	6.1	6.1	6.2	6.2	6.2	6.1	5.9	6.0	6.0

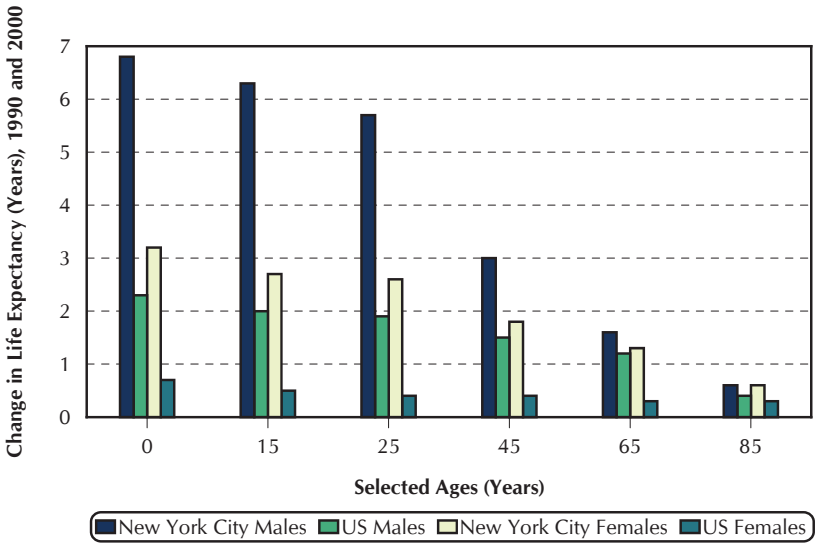
	Female									
Exact age in years	1999	2000	2001†	2002	2003	2004	2005	2006	2007	2008
0	79.9	80.4	80.4	80.6	80.7	81.1	81.3	81.7	82.0	82.0
1	79.4	79.9	79.8	80.1	80.2	80.5	80.6	81.1	81.4	81.3
5	75.5	76.0	75.9	76.1	76.3	76.5	76.7	77.1	77.4	77.4
10	70.5	71.0	70.9	71.2	71.3	71.6	71.7	72.2	72.5	72.4
15	65.6	66.0	66.0	66.2	66.4	66.6	66.8	67.2	67.5	67.5
20	60.7	61.1	61.1	61.3	61.5	61.7	61.9	62.3	62.6	62.5
25	55.8	56.2	56.2	56.4	56.5	56.8	57.0	57.4	57.7	57.6
30	50.9	51.4	51.3	51.5	51.6	51.9	52.1	52.5	52.8	52.7
35	46.1	46.6	46.5	46.7	46.8	47.1	47.2	47.6	47.9	47.9
40	41.4	41.9	41.8	42.0	42.1	42.3	42.4	42.8	43.1	43.0
45	36.8	37.3	37.2	37.4	37.5	37.7	37.8	38.2	38.4	38.3
50	32.3	32.8	32.8	32.9	33.0	33.2	33.3	33.7	33.8	33.8
55	28.0	28.4	28.4	28.6	28.6	28.8	28.9	29.3	29.4	29.4
60	23.8	24.1	24.3	24.4	24.4	24.7	24.8	25.1	25.3	25.2
65	19.8	20.1	20.3	20.4	20.5	20.7	20.7	21.1	21.3	21.3
70	16.1	16.4	16.5	16.6	16.7	16.8	16.9	17.2	17.4	17.4
75	12.7	12.9	12.9	13.0	13.1	13.2	13.2	13.5	13.7	13.6
80	9.7	9.8	9.8	9.7	9.8	9.9	9.8	10.0	10.2	10.1
85	7.0	7.1	7.0	7.0	7.1	7.2	7.2	7.3	7.4	7.2

Note: Three-year (1999-2001) death data are used to estimate 2000 life expectancy in Table 2.24, while single-year death data are used in this Table. Life expectancy for year 2009 is not presented since national data are required and are not yet available.

* Census 2000 population data are used for all years. See Technical Notes: Population.

† Calculations exclude World Trade Center disaster deaths.

Figure 2.14 Changes in Life Expectancy at Selected Ages by Sex, New York City and United States, 1990 and 2000



Life Expectancy (LE) is the expected number of years of life remaining at a given age. The adjacent figure presents the change in LE from 1990 to 2000 among New York City males and females and United States males and females at selected ages: 0 (at birth), 15, 25, 45, 65 and 85 years. Gains in New York City LE relative to United States LE have been substantial in both men and women, though larger among women. New York City male LE at birth (age 0), age 15 years, and age 25 years increased substantially between 1990 and 2000. The increases were 6.8, 6.3, and 5.7 years, respectively. Contributing factors included 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, between 1.9 and 2.3 years. Life expectancy for New York City females increased more than for females nationwide. In all age groups, New York City males showed greater increases in life expectancy than males nationwide, although these differences were smaller at younger ages. Nationwide, females had a small increase in life expectancy at all ages.

Note: Calculations exclude World Trade Center disaster deaths.

Table 2.26 Years of Potential Life Lost (YPLL) Before Age 75 Overall and by Sex and Selected Causes of Death, New York City, 2009

	All		Male		Female	
Cause of Death	YPLL	%	YPLL	%	YPLL	%
Total	470,759	100.0	286,893	100.0	183,866	100.0
Malignant Neoplasms	113,738	24.2	56,549	19.7	57,189	31.1
Trachea, bronchus, and lung	19,672	4.2	11,032	3.8	8,640	4.7
Breast	12,678	2.7	76	0.0	12,602	6.9
Colon, rectum, and anus	9,808	2.1	5,286	1.8	4,522	2.5
Pancreas	6,884	1.5	4,113	1.4	2,771	1.5
Liver and intrahepatic bile ducts	6,821	1.4	5,260	1.8	1,561	0.8
Diseases of Heart	84,962	18.0	56,733	19.8	28,229	15.4
HIV Disease	22,921	4.9	14,243	5.0	8,678	4.7
Accidents Except Poisoning by Psychoactive Substance	21,835	4.6	16,619	5.8	5,216	2.8
Motor vehicle	8,676	1.8	6,132	2.1	2,544	1.4
Assault (Homicide)	21,237	4.5	18,272	6.4	2,965	1.6
Use of or Poisoning by Psychoactive Substance	20,595	4.4	14,466	5.0	6,129	3.3
Intentional Self-harm (Suicide)	14,014	3.0	10,694	3.7	3,320	1.8
Diabetes Mellitus	12,182	2.6	7,872	2.7	4,310	2.3
Influenza and Pneumonia	10,810	2.3	6,042	2.1	4,768	2.6
Cerebrovascular Diseases	10,071	2.1	5,521	1.9	4,550	2.5
Chronic Lower Respiratory Diseases	8,363	1.8	4,271	1.5	4,092	2.2
Chronic Liver Disease and Cirrhosis	7,688	1.6	5,865	2.0	1,823	1.0
Viral Hepatitis	6,153	1.3	4,222	1.5	1,931	1.1
Mental and Behavioral Disorders Due to Use of Alcohol	4,401	0.9	3,297	1.1	1,104	0.6
All Other Causes	111,789	23.7	62,227	21.7	49,562	27.0

See Technical Notes: Years of Potential Life Lost for detailed calculation.

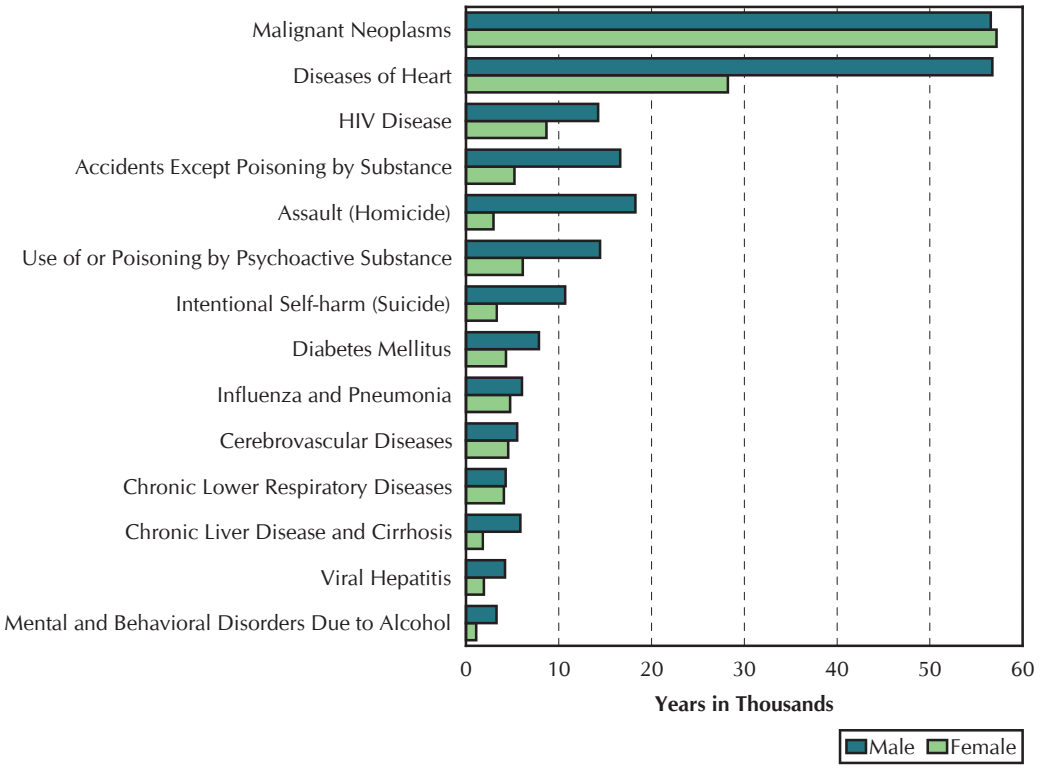
Years of Potential Life Lost, New York City, 2009

Years of potential life lost (YPLL) estimates the average years a person would have lived if he or she had not died prematurely. As opposed to a mortality rate, YPLL gives more weight to deaths that occur among younger people. In 2009, the overall New York City YPLL before age 75 decreased from 488,239 in 2008 to 470,459. In Figure 2.15 we display YPLLs by cause. Malignant neoplasms (cancers) and diseases of the heart, the 2 leading causes of death, were responsible for more than 42% of YPLL in New York City. Since many more cancer deaths than diseases of the heart deaths occur in young people, cancer, the second leading cause of death, was responsible for the greatest number of YPLL (113,738 in 2009, slightly decreased from 115,625 in 2008). Diseases of the heart, the first leading cause of death, accounted for 84,962 YPLL, a decrease from 2008 (86,585).

Cancer was responsible for similar numbers of YPLL in men and women. However, compared to women, men lost more years from cancer of the trachea, bronchus, and lung, colon, rectum, and anus, pancreas, and liver and intrahepatic bile ducts. The top 5 causes of cancers account for 49% of cancer YPLL.

For many of the most frequent causes of death, men accounted for twice the number of YPLL compared to women. More than 66% of the 84,962 YPLL due to diseases of the heart were to men (56,733 YPLL) versus 33.2% to women (28,229 YPLL). Sixty-two percent of YPLL due to HIV disease were to men versus 38% to women; nearly 75% of YPLL due to accidents except poisoning by psychoactive substance (includes motor vehicle accidents) were to men versus 25% to women; 86% of YPLL due to assault (homicide) were to men versus 14% to women; 70% of YPLL due to use of or poisoning by psychoactive substance were to men versus 25% to women; 76% of YPLL due to intentional self-harm (suicide) were to men versus 24% to women; 65% of YPLL due to diabetes mellitus were to men versus 35% to women; 56% of YPLL due to influenza and pneumonia were to men versus 44% to women; and 55% of YPLL due to cerebrovascular diseases were to men versus 45% to women.

Figure 2.15 **Years of Potential Life Lost (YPLL) Before Age 75 by Sex and Selected Causes of Death, New York City, 2009**



Infant and Maternal Mortality Contents

Infant and Maternal Mortality Overview

Researchers and policy makers consider infant mortality to be a key indicator of a population's overall health. For each infant younger than 1 year of age who dies in New York City, the Bureau of Vital Statistics links the mother's demographic data from the child's birth certificate to data from the death certificate and confidential medical report of death. Tables 3.1 to 3.4 and 3.6 to 3.8 show infant mortality rates by characteristics of the mother and infant. Neighborhood variation in infant mortality rates is given in Tables 3.8 and 3.10 and Map 3.1. Three-year averages are used due to the relatively small number of infant deaths occurring at the neighborhood level in a single year. Table 3.11 and Figures 3.1, 3.2, and 3.5 show infant mortality trends over time. Finally, causes of infant death are presented in Table 3.9. Deaths of women during pregnancy or soon after birth are also an area of concern to New York City. Maternal mortality statistics are compiled each year and trends are presented in Table 3.11.

Table 3.1 **Live Births and Infant Mortality Rate by Characteristics of Mother and Infant, New York City, 2009**

Characteristics	Live Births		Infant Mortality Rate (IMR) per 1,000 Live Births					
			All		Neonatal		Post-neonatal	
	Number	Percent	Deaths	Rate	Deaths	Rate	Deaths	Rate
Total	126,774	100.0	668	5.3	444	3.5	224	1.8
Sex of Child								
Male	65,083	51.3	372	5.7	251	3.9	121	1.9
Female	61,691	48.7	296	4.8	193	3.1	103	1.7
Ethnicity*								
Puerto Rican	9,958	7.9	63	6.3	44	4.4	19	1.9
Other Hispanic	30,328	23.9	147	4.8	97	3.2	50	1.6
Asian and Pacific Islander	17,729	14.0	50	2.8	36	2.0	14	0.8
Non-Hispanic white	38,438	30.3	131	3.4	97	2.5	34	0.9
Non-Hispanic black	27,405	21.6	259	9.5	158	5.8	101	3.7
Other and unknown	2,916	2.3	18	–	12	–	6	–
Age of Mother								
Age <18	2,420	1.9	23	9.5	12	5.0	11	4.5
Age 18-29	63,167	49.8	339	5.4	209	3.3	130	2.1
Age 30-34	34,262	27.0	138	4.0	99	2.9	39	1.1
Age 35-39	20,662	16.3	102	4.9	80	3.9	22	1.1
Age ≥40	6,262	4.9	31	5.0	24	3.8	7	1.1
Age unknown	1	–	–	–	–	–	–	–
Mother's Education								
11th grade or less/12th grade, no diploma	30,503	24.1	199	6.5	122	4.0	77	2.5
High school graduate or GED	29,403	23.2	149	5.1	96	3.3	53	1.8
Some college/associate degree	27,473	21.7	151	5.5	96	3.5	55	2.0
Bachelor's degree	21,943	17.3	69	3.1	50	2.3	19	0.9
Master's degree or higher	16,855	13.3	46	2.7	41	2.4	5	0.3
Mother's education unknown	597	0.5	19	–	19	–	–	–
Marital Status of Mother†								
Not married	55,767	44.0	371	6.7	230	4.1	141	2.5
Married	71,006	56.0	262	3.7	194	2.7	68	1.0
Marital status unknown	1	–	–	–	–	–	–	–
Mother's Birthplace								
US-born, including territories	62,283	49.1	403	6.5	272	4.4	131	2.1
Foreign-born	64,378	50.8	228	3.5	150	2.3	78	1.2
Birthplace unknown	113	0.1	2	–	2	–	–	–
Primary Payer for This Birth‡								
Medicaid/Family Plus/Child Health Plus B/Other govt.	75,051	59.2	406	5.4	249	3.3	157	2.1
Other	50,954	40.2	217	4.3	168	3.3	49	1.0
Coverage unknown	769	0.6	10	–	7	–	3	–
Plurality								
Singletons	121,874	96.1	529	4.3	347	2.8	182	1.5
Multiples	4,898	3.9	104	21.2	77	15.7	27	5.5
Plurality unknown	2	–	–	–	–	–	–	–
Parity								
First birth	58,087	45.8	321	5.5	217	3.7	104	1.8
Second birth or higher	68,510	54.0	308	4.5	203	3.0	105	1.5
Parity unknown	177	0.1	39	–	24	–	15	–
Birthweight at Delivery (Grams)								
Very low birthweight (<1,500)	2,013	1.6	381	189.3	302	150.0	79	39.2
Low birthweight (1,500 -<2,500)	9,107	7.2	90	9.9	53	5.8	37	4.1
Normal birthweight (≥2,500)	115,649	91.2	160	1.4	67	0.6	93	0.8
Birthweight unknown	5	–	2	–	2	–	–	–
Gestational Age (Weeks)								
Very premature (<32)	2,113	1.7	383	181.3	302	142.9	81	38.3
Premature (32-36)	10,053	7.9	78	7.8	47	4.7	31	3.1
Full-term	114,592	90.4	169	1.5	72	0.6	97	0.8
Gestational age unknown	16	–	3	–	3	–	–	–
Pre-pregnancy Body Mass Index (BMI)								
Underweight (10≤BMI<18.5)	6,966	5.5	23	3.3	10	1.4	13	1.9
Normal weight (18.5≤BMI<25)	67,738	53.4	260	3.8	175	2.6	85	1.3
Overweight (25≤BMI<30)	29,119	23.0	142	4.9	98	3.4	44	1.5
Obese (BMI≥30)	20,541	16.2	163	7.9	104	5.1	59	2.9
Pre-pregnancy BMI unknown	2,410	1.9	80	–	57	–	23	–

* See Technical Notes: Demographic Characteristics of Vital Events: Race, Ancestry, and Ethnic Group.
† See Technical Notes: Births, Mother's Marital Status.
‡ See Technical Notes: Births, Birth Reporting.

Figure 3.1 Infant Mortality Rate, New York City, 1898-2009

The Infant Mortality Rate (IMR) was first estimated for New York City in 1898 when its boundaries were extended to include all 5 boroughs. That year the IMR was estimated to be 140.9 deaths in infants under 1 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 advances in access to medical care in recent years, have contributed to a decline to 5.3 infant deaths (younger than one year of age) per 1,000 live births in 2009. This new historical low replaces the previous mark of 5.4 deaths per 1,000 live births set in 2007.

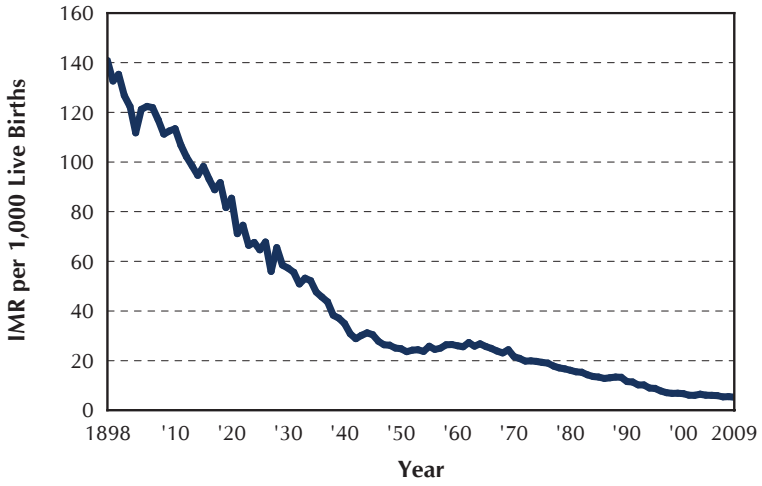
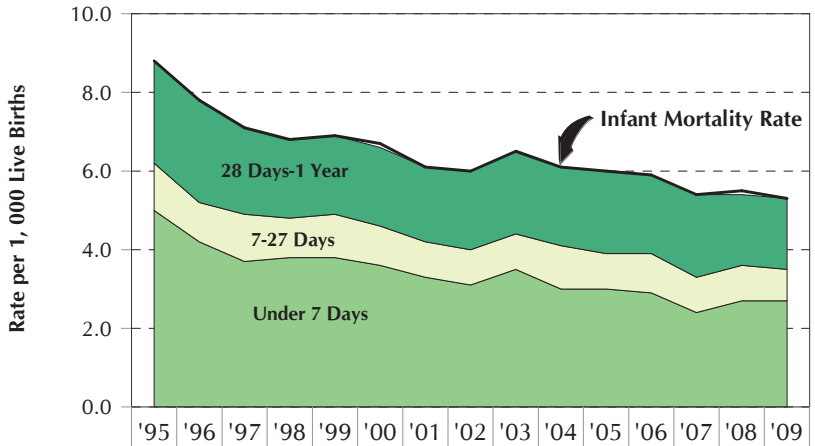


Figure 3.2 Infant, Neonatal, and Post-neonatal Mortality Rates, New York City, 1995-2009

The 2009 Infant Mortality Rate (IMR) of 5.3 infant (younger than one year of age) deaths per 1,000 live births is a new historic low. It also represents a 3.6% decrease from 5.5 in 2008. During 2008 and 2009, early neonatal (<7 days) mortality rates remained the same at 2.7 per 1,000 live births. Meanwhile, late neonatal (7-27 days) mortality rates decreased from 0.9 in 2008 to 0.8 deaths per 1,000 live births and post-neonatal (28 days to 1 year) mortality rates remained stable at 1.8 per 1,000 live births.

From 1995 to 2009, the rate of early neonatal deaths declined by more than half, the rate of post-neonatal deaths declined by 49%, and the rate of late neonatal deaths declined by about 36%.



	'95	'96	'97	'98	'99	'00	'01	'02	'03	'04	'05	'06	'07	'08	'09
Infant Mortality (Under 1 Year)	8.8	7.8	7.1	6.8	6.9	6.7	6.1	6.0	6.5	6.1	6.0	5.9	5.4	5.5	5.3
Post-neonatal (28 Days-1 Year)	2.6	2.6	2.2	2.0	2.0	2.0	1.9	2.0	2.1	2.0	2.1	2.0	2.1	1.8	1.8
Late Neonatal (7-27 Days)	1.2	1.0	1.2	1.0	1.1	1.0	0.9	0.9	0.9	1.1	0.9	1.0	0.9	0.9	0.8
Early Neonatal (Under 7 Days)	5.0	4.2	3.7	3.8	3.8	3.6	3.3	3.1	3.5	3.0	3.0	2.9	2.4	2.7	2.7

Table 3.2 Live Births and Infant Deaths by Birth Weight, Ethnic Group*, and Age, New York City, 2009

Birth Weight (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.	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Other/ Unk.
Less than 500	112	37	20	47	5	3	100	33	19	41	4	3	95	32	19	38	3	3	93	30	19	38	3	3
500-999	820	248	134	363	59	16	231	76	35	102	13	5	174	63	29	69	9	4	131	51	23	47	7	3
1,000-1,499	1,081	302	250	422	88	19	50	16	10	18	4	2	33	9	8	12	3	1	26	7	4	11	3	1
1,500-1,999	2,191	640	561	709	230	51	40	11	8	16	4	1	22	6	3	9	4	–	19	5	3	7	4	–
2,000-2,499	6,916	2,003	1,809	1,998	912	194	50	17	11	14	5	3	31	9	10	8	3	1	21	5	6	8	1	1
Less than 2,500	11,120	3,230	2,774	3,539	1,294	283	471	153	83	191	30	14	355	119	69	136	22	9	290	98	55	111	18	8
2,500-2,999	25,668	7,699	6,579	6,428	4,265	697	54	18	8	20	6	2	23	8	6	3	5	1	12	4	3	1	3	1
3,000-3,499	50,777	16,246	15,247	10,477	7,692	1,115	74	24	17	26	7	–	33	9	12	8	4	–	19	5	8	4	2	–
3,500-3,999	30,966	10,261	10,744	5,498	3,787	676	22	6	5	10	1	–	5	1	–	3	1	–	4	1	–	3	–	–
4,000-4,499	7,158	2,462	2,708	1,252	611	125	6	1	3	1	1	–	4	–	2	1	1	–	2	–	2	–	–	–
4,500-4,999	971	342	355	191	69	14	1	–	–	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–
5,000 & Over	109	46	31	20	10	2	3	1	–	1	1	–	2	–	–	1	1	–	2	–	–	1	1	–
2,500 & Over	115,649	37,056	35,664	23,866	16,434	2,629	160	50	33	59	16	2	67	18	20	16	12	1	39	10	13	9	6	1
Not stated	5	–	–	–	1	4	2	–	–	–	1	1	2	–	–	–	1	1	2	–	–	–	1	1
Unmatched†	–	–	–	–	–	–	35	7	15	9	3	1	20	4	8	6	1	1	12	3	4	4	1	0
Total	126,774	40,286	38,438	27,405	17,729	2,916	668	210	131	259	50	18	444	141	97	158	36	12	343	111	72	124	26	10

* See Technical Notes: Deaths, Infant Mortality.

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

Non-H = non-Hispanic; P.I. = Pacific Islander; Unk = Unknown.

Table 3.3 Infant Mortality Rates* by Birthweight, Ethnic Group†, and Age, New York City, 2009

Birth Weight (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	892.9	‡	‡	‡	‡	848.2	‡	‡	‡	‡	830.4	‡	‡	‡	‡
500-999	281.7	306.5	261.2	281.0	‡	212.2	254.0	216.4	190.1	‡	159.8	205.6	171.6	129.5	‡
1,000-1,499	46.3	53.0	40.0	42.7	‡	30.5	29.8	32.0	28.4	‡	24.1	23.2	16.0	26.1	‡
1,500-1,999	18.3	17.2	14.3	22.6	17.4	10.0	9.4	5.3	12.7	17.4	8.7	7.8	5.3	9.9	17.4
2,000-2,499	7.2	8.5	6.1	7.0	5.5	4.5	4.5	5.5	4.0	3.3	3.0	2.5	3.3	4.0	1.1
Less than 2,500	42.4	47.4	29.9	54.0	23.2	31.9	36.8	24.9	38.4	17.0	26.1	30.3	19.8	31.4	13.9
2,500-2,999	2.1	2.3	1.2	3.1	1.4	0.9	1.0	0.9	0.5	1.2	0.5	0.5	0.5	0.2	0.7
3,000-3,499	1.5	1.5	1.1	2.5	0.9	0.6	0.6	0.8	0.8	0.5	0.4	0.3	0.5	0.4	0.3
3,500-3,999	0.7	0.6	0.5	1.8	0.3	0.2	0.1	–	0.5	0.3	0.1	0.1	–	0.5	–
4,000-4,499	0.8	0.4	1.1	0.8	1.6	0.6	–	0.7	0.8	1.6	0.3	–	0.7	–	–
4,500-4,999	1.0	–	–	5.2	‡	–	–	–	–	‡	–	–	–	–	‡
5,000 & Over	27.5	‡	‡	‡	‡	18.3	‡	‡	‡	‡	18.3	‡	‡	‡	‡
2,500 & Over	1.4	1.3	0.9	2.5	1.0	0.6	0.5	0.6	0.7	0.7	0.3	0.3	0.4	0.4	0.4
Total	5.3	5.2	3.4	9.5	2.8	3.5	3.5	2.5	5.8	2.0	2.7	2.8	1.9	4.5	1.5

* Rate per 1,000 live births. Births and deaths included here were registered in 2009 and do not represent a true birth cohort.

† See Technical Notes: Deaths, Infant Mortality.

‡ Rate not computed where number of births is less than 100.

Non-H = non-Hispanic; P.I. = Pacific Islander.

Table 3.4 Live Births and Infant Deaths by Gestational Age, Ethnic Group*, and Age, New York City, 2009

	Live Births						Infant Deaths																	
							Total						Age Under 28 Days						Age Under 7 Days					
Gestational Age (Weeks)	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.	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Other/ Unk.
Extreme preterm (<28)	871	264	131	402	52	22	320	107	47	140	16	10	260	91	42	108	11	8	216	77	37	86	9	7
28-31	1,242	372	243	496	104	27	63	19	12	27	3	2	42	14	9	16	2	1	36	12	6	15	2	1
Very preterm (<32)	2,113	636	374	898	156	49	383	126	59	167	19	12	302	105	51	124	13	9	252	89	43	101	11	8
32-33	1,530	486	406	455	145	38	20	5	6	5	3	1	12	1	5	2	3	1	9	–	4	1	3	1
34-36	8,523	2,720	2,213	2,363	1,028	199	58	15	15	21	6	1	35	9	9	13	4	–	21	5	3	10	3	–
32-36	10,053	3,206	2,619	2,818	1,173	237	78	20	21	26	9	2	47	10	14	15	7	1	30	5	7	11	6	1
Preterm (<37)	12,166	3,842	2,993	3,716	1,329	286	461	146	80	193	28	14	349	115	65	139	20	10	282	94	50	112	17	9
≥37	114,592	36,439	35,444	23,686	16,397	2,626	169	56	36	57	17	3	72	21	24	13	13	1	46	13	18	8	6	1
Not stated	16	5	1	3	3	4	3	1	–	–	2	–	3	1	–	–	2	–	3	1	–	–	2	–
Unmatched†	–	–	–	–	–	–	35	7	15	9	3	1	20	4	8	6	1	1	12	3	4	4	1	–
Total	126,774	40,286	38,438	27,405	17,729	2,916	668	210	131	259	50	18	444	141	97	158	36	12	343	111	72	124	26	10

* See Technical Notes: Deaths, Infant Mortality.

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

Non-H = non-Hispanic; P.I. = Pacific Islander; Unk = Unknown.

Table 3.5 Infant Mortality Rates* by Gestational Age, Ethnic Group†, and Age, New York City, 2009

	Total					Age Under 28 Days					Age Under 7 Days				
Gestational Age (Weeks)	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.
Extreme preterm (<28)	367.4	405.3	358.8	348.3	‡	298.5	344.7	320.6	268.7	‡	248.0	291.7	282.4	213.9	‡
28-31	50.7	51.1	49.4	54.4	28.8	33.8	37.6	37.0	32.3	19.2	29.0	32.3	24.7	30.2	19.2
Very preterm (<32)	181.3	198.1	157.8	186.0	121.8	142.9	165.1	136.4	138.1	83.3	119.3	139.9	115.0	112.5	70.5
32-33	13.1	10.3	14.8	11.0	20.7	7.8	2.1	12.3	4.4	20.7	5.9	–	9.9	2.2	20.7
34-36	6.8	5.5	6.8	8.9	5.8	4.1	3.3	4.1	5.5	3.9	2.5	1.8	1.4	4.2	2.9
32-36	7.8	6.2	8.0	9.2	7.7	4.7	3.1	5.3	5.3	6.0	3.0	1.6	2.7	3.9	5.1
Preterm (<37)	37.9	38.0	26.7	51.9	21.1	28.7	29.9	21.7	37.4	15.0	23.2	24.5	16.7	30.1	12.8
≥37	1.5	1.5	1.0	2.4	1.0	0.6	0.6	0.7	0.5	0.8	0.4	0.4	0.5	0.3	0.4
Total	5.3	5.2	3.4	9.5	2.8	3.5	3.5	2.5	5.8	2.0	2.7	2.8	1.9	4.5	1.5

* Rate per 1,000 live births. Births and deaths included here were registered in 2009 and do not represent a true birth cohort.

† See Technical Notes: Deaths, Infant Mortality.

‡ Rate not computed where number of births is less than 100.

Non-H = non-Hispanic; P.I. = Pacific Islander.

Table 3.6 Infant Deaths by Ethnic Group*, Sex, and Age, New York City, 2009

		Age Under 7 Days						Age 7 to 27 Days						Age 28 Days and Over					
Sex	Total	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Other/ Unknown	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Other/ Unknown	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Other/ Unknown
Male	372	195	62	43	72	10	8	56	18	13	19	4	2	121	40	16	57	7	1
Female	296	148	49	29	52	16	2	45	12	12	15	6	–	103	29	18	44	7	5
Total	668	343	111	72	124	26	10	101	30	25	34	10	2	224	69	34	101	14	6

* See Technical Notes: Deaths, Infant Mortality.

Non-H = non-Hispanic; P.I. = Pacific Islander; Unk = Unknown.

Table 3.7 Infant Mortality Rate* by Mother's Birthplace, New York City, 2003-2009

Birthplace	2003	2004	2005	2006	2007	2008	2009
Nigeria	2.6	5.6	8.9	7.9	3.5	5.2	11.6
Honduras	4.8	2.4	5.0	3.6	1.1	4.6	7.0
Bangladesh	4.0	4.5	2.6	2.4	4.2	1.8	5.7
Dominican Republic	5.8	4.1	5.1	4.1	3.4	3.8	5.4
Jamaica	10.3	8.3	7.8	9.4	5.1	7.2	5.1
Pakistan	6.3	8.6	6.2	8.6	6.8	7.1	4.7
Guyana	7.8	7.4	9.2	8.2	7.5	10.7	4.2
Ghana	9.3	12.2	11.3	5.9	10.0	4.4	4.1
Russia	2.0	4.1	4.7	4.3	0.0	1.1	4.1
Haiti	8.7	14.3	9.2	8.9	5.3	8.0	3.9
Peru	3.3	3.4	3.5	7.2	5.5	†	3.8
Colombia	7.8	3.4	0.9	3.8	0.0	1.0	3.5
Canada	†	7.1	3.8	3.3	0.0	3.5	3.2
Guatemala	†	†	3.9	1.8	5.4	5.1	3.2
Mexico	3.8	4.7	4.4	3.7	3.5	5.0	2.9
El Salvador	4.0	0.0	6.2	8.2	3.8	2.5	2.5
China	3.6	2.6	1.8	2.1	1.6	2.2	2.1
Japan	†	†	†	†	†	†	2.0
India	3.1	4.9	5.6	4.4	3.1	2.3	1.9
Ecuador	3.4	2.6	3.5	3.5	5.2	3.0	1.7
Israel	1.8	5.4	0.8	2.6	2.4	0.0	1.7
Trinidad and Tobago	4.7	8.6	6.0	9.5	4.8	7.7	1.3
Ukraine	2.7	6.8	1.4	0.0	3.8	3.8	1.3
Philippines	4.7	3.6	2.6	3.7	2.4	1.3	1.2
Poland	2.6	1.2	7.4	0.0	2.0	4.1	1.0
Korea	0.0	2.0	2.2	2.1	2.6	1.0	0.0
United Kingdom	9.4	3.2	6.9	6.3	1.6	3.4	0.0
Uzbekistan	†	†	†	†	†	†	0.0
Yemen Arab Republic	†	†	†	†	†	2.0	†
Puerto Rico	8.3	4.6	7.4	12.0	6.6	6.9	7.3
United States ‡	6.8	6.6	5.9	6.3	6.2	6.1	6.5
New York City Total	6.5	6.1	6.0	5.9	5.4	5.5	5.3

Note: The foreign countries are listed according to the descending order of infant mortality rates in most current year.

* Infant mortality rate per 1,000 live births.

† Live births were less than 500 in that year. The infant mortality rate is listed for only countries with 500 or more live births each year.

‡ As of 2006, US Virgin Islands and Guam are included in the United States.

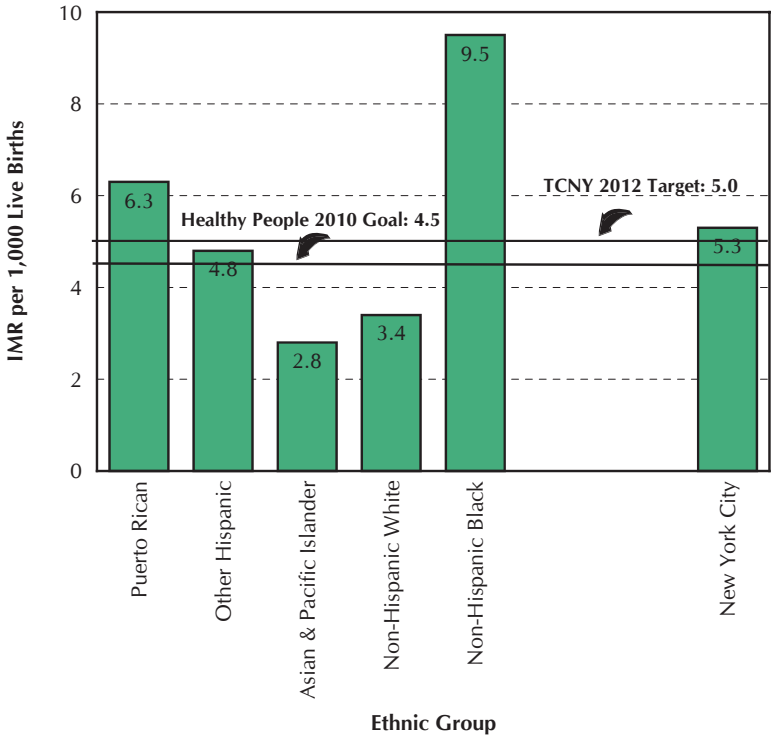


Figure 3.3 Infant Mortality Rate by Ethnic Group, New York City, 2009

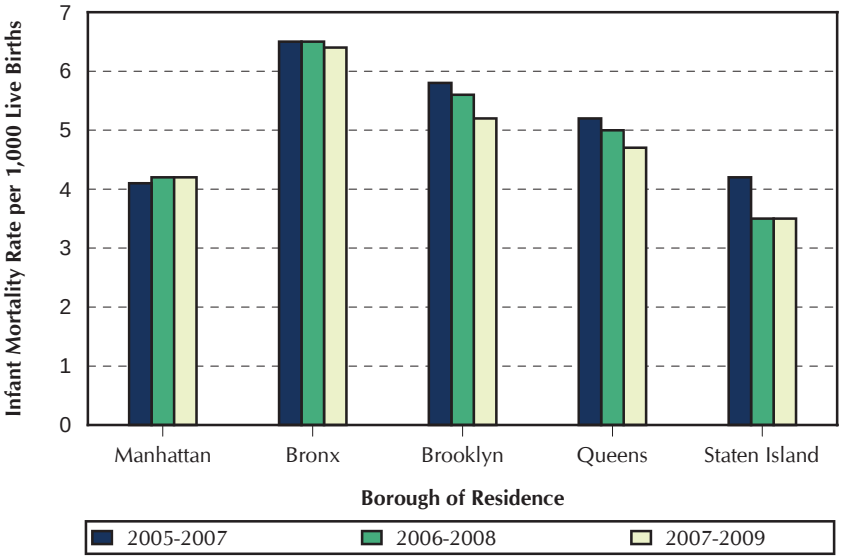
The "Take Care New York" (TCNY) 2012 target and the Healthy People 2010 goal for the Infant Mortality Rate (IMR) are 5.0 and 4.5 infant deaths per 1,000 live births, respectively. This graph shows that the IMR varies greatly by ethnic group. Non-Hispanic whites, Asian and Pacific Islanders and Other Hispanics continued to meet the TCNY goal in 2009 with IMRs of 3.4, 2.8, and 4.8 deaths per 1,000 live births, respectively. However, IMRs remain high among Puerto Ricans at 6.3 deaths per 1,000 live births (down from 6.6 in 2008) and non-Hispanic blacks at 9.5 deaths per 1,000 live births (down from 10.2 in 2008). The citywide IMR in 2009 was 5.3 infant deaths per 1,000 live births, a decrease of 3.6% from 2008.

Table 3.8 **Infant and Neonatal Mortality Rates by Community District of Residence, New York City, 2005-2009**

Community District	2005-2007 Infant Mortality Rate	2005-2007 Neonatal Mortality Rate	2006-2008 Infant Mortality Rate	2006-2008 Neonatal Mortality Rate	2007-2009 Infant Mortality Rate	2007-2009 Neonatal Mortality Rate
NEW YORK CITY	5.8	3.7	5.6	3.6	5.4	3.5
MANHATTAN	4.1	2.8	4.2	2.8	4.2	2.8
Battery Park, Tribeca (01)	3.1	2.7	2.8	2.4	2.2	1.9
Greenwich Village, SOHO (02)	2.2	1.9	4.4	3.7	4.1	3.3
Lower East Side (03)	2.4	1.6	3.7	2.7	3.7	2.1
Chelsea, Clinton (04)	0.8	0.4	1.1	0.8	2.9	2.2
Midtown Business District (05)	6.1	3.4	4.5	2.6	4.9	3.0
Murray Hill (06)	3.7	2.1	3.1	2.1	2.8	2.5
Upper West Side (07)	3.9	2.7	3.2	2.0	2.5	1.6
Upper East Side (08)	2.6	2.1	2.3	1.7	2.5	1.8
Manhattanville (09)	6.1	3.6	7.2	4.7	7.0	4.7
Central Harlem (10)	9.0	5.5	8.6	4.6	7.9	4.6
East Harlem (11)	5.7	4.0	6.4	4.3	7.6	4.6
Washington Heights (12)	3.9	2.9	3.4	2.5	3.5	2.7
BRONX	6.5	4.2	6.5	4.3	6.4	4.2
Mott Haven (01)	8.7	6.0	10.1	7.4	7.6	5.0
Hunts Point (02)	5.9	5.6	5.4	4.7	5.5	3.8
Morrisania (03)	8.7	4.7	8.2	4.1	7.0	4.0
Concourse, Highbridge (04)	5.6	3.8	6.3	3.9	6.2	4.0
University/Morris Heights (05)	5.9	3.4	5.4	3.4	6.4	3.9
East Tremont (06)	5.9	3.1	6.5	4.2	6.5	3.8
Fordham (07)	7.3	5.8	6.9	5.8	6.7	5.3
Riverdale (08)	3.2	1.4	4.2	2.0	5.3	3.3
Unionport, Soundview (09)	7.0	4.8	5.6	3.8	5.0	3.7
Throgs Neck (10)	6.4	4.7	4.6	2.6	5.7	4.1
Pelham Parkway (11)	3.1	2.2	4.2	3.8	7.1	6.2
Williamsbridge (12)	8.2	4.0	8.9	4.4	7.2	3.6
BROOKLYN	5.8	3.6	5.6	3.5	5.2	3.3
Williamsburg, Greenpoint (01)	4.2	2.8	3.9	2.4	3.0	2.0
Fort Greene, Brooklyn Heights (02)	4.5	3.1	5.0	2.6	3.5	1.7
Bedford Stuyvesant (03)	9.7	4.8	8.9	4.9	8.7	5.2
Bushwick (04)	6.2	4.1	5.8	4.2	5.8	4.1
East New York (05)	9.6	4.9	9.5	5.3	9.5	5.3
Park Slope (06)	4.9	3.4	5.9	4.1	4.7	3.6
Sunset Park (07)	2.2	1.7	2.4	1.8	2.6	1.7
Crown Heights North (08)	7.9	5.4	7.0	5.2	4.9	3.8
Crown Heights South (09)	6.9	4.5	5.1	3.5	5.5	3.9
Bay Ridge (10)	4.0	3.0	3.9	2.9	3.8	2.3
Bensonhurst (11)	3.3	2.5	3.5	2.8	3.2	2.6
Borough Park (12)	3.5	2.3	2.7	1.7	3.6	2.1
Coney Island (13)	8.0	5.7	5.6	4.2	5.0	3.6
Flatbush, Midwood (14)	6.1	4.0	6.2	3.8	4.9	2.6
Sheepshead Bay (15)	3.9	2.7	5.0	3.7	4.3	3.3
Brownsville (16)	8.9	4.7	10.3	5.9	11.3	6.3
East Flatbush (17)	7.4	3.4	7.2	4.0	6.2	4.0
Canarsie (18)	7.3	5.3	7.2	4.5	6.3	4.1
QUEENS	5.2	3.5	5.0	3.4	4.7	3.1
Astoria, Long Island City (01)	4.8	3.5	4.5	3.9	4.5	3.7
Sunnyside, Woodside (02)	3.8	2.7	3.3	2.4	3.3	2.6
Jackson Heights (03)	4.5	2.6	4.9	3.0	3.6	2.4
Elmhurst, Corona (04)	3.6	2.9	3.7	2.9	3.2	2.2
Ridgewood, Glendale (05)	3.1	2.7	3.2	2.6	3.2	2.3
Rego Park, Forest Hills (06)	3.1	2.3	2.9	1.6	2.1	1.1
Flushing (07)	3.9	2.3	3.4	2.3	2.9	1.7
Fresh Meadows, Briarwood (08)	5.8	4.3	7.3	5.2	7.4	5.2
Woodhaven (09)	6.4	4.4	5.3	3.1	4.3	2.0
Howard Beach (10)	5.5	3.9	5.3	3.3	5.2	3.2
Bayside (11)	3.8	2.4	3.8	2.4	3.8	2.4
Jamaica, St. Albans (12)	8.5	6.1	8.0	5.7	8.4	5.6
Queens Village (13)	6.9	4.0	6.9	4.1	6.7	3.7
The Rockaways (14)	7.1	3.7	6.7	3.8	6.2	3.7
STATEN ISLAND	4.2	2.4	3.5	1.7	3.5	2.0
Port Richmond (01)	5.0	2.5	4.8	2.3	5.0	3.0
Willowbrook, South Beach (02)	4.2	2.6	2.5	1.1	1.8	0.7
Tottenville (03)	3.1	2.3	2.3	1.3	2.6	1.6

Figure 3.4 Infant Mortality Rate by Borough of Residence, New York City, 2005-2009

Over the past four years, the Infant Mortality Rate (IMR) fell or held steady for every borough in New York City. From 2007 to 2009, Staten Island had the lowest rate with 3.5 infant deaths per 1,000 live births. Manhattan had an IMR of 4.2, followed by Queens with 4.7 infant deaths per 1,000 live births, while Brooklyn saw 5.2 infant deaths per 1,000 live births. The Bronx had the highest IMR of 6.4. Since the three-year period of 2005-2007, the IMR in Staten Island has fallen by 16.7% from 4.2 infant deaths per 1,000 live births. The only increase was in Manhattan, which saw the infant mortality rate increase by 2.4%. The Bronx, Queens, and Brooklyn saw decreases of 1.5%, 9.6%, and 10.3%, respectively.



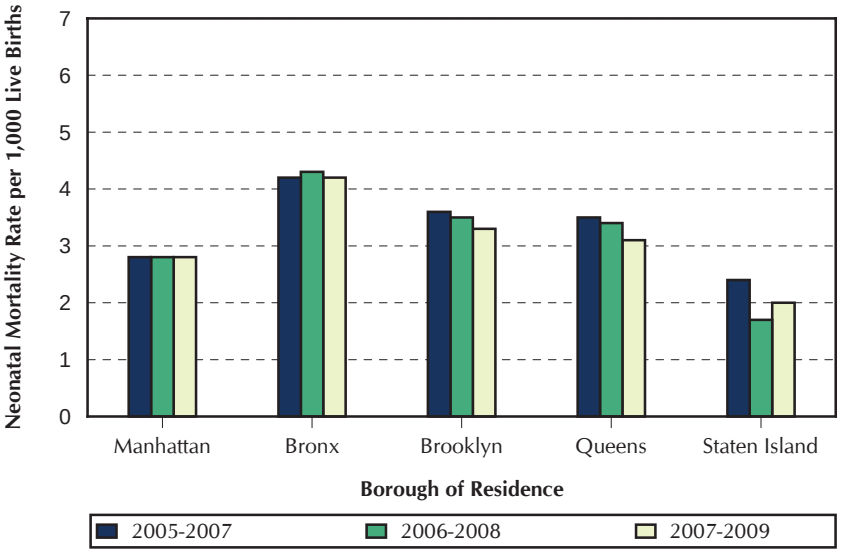
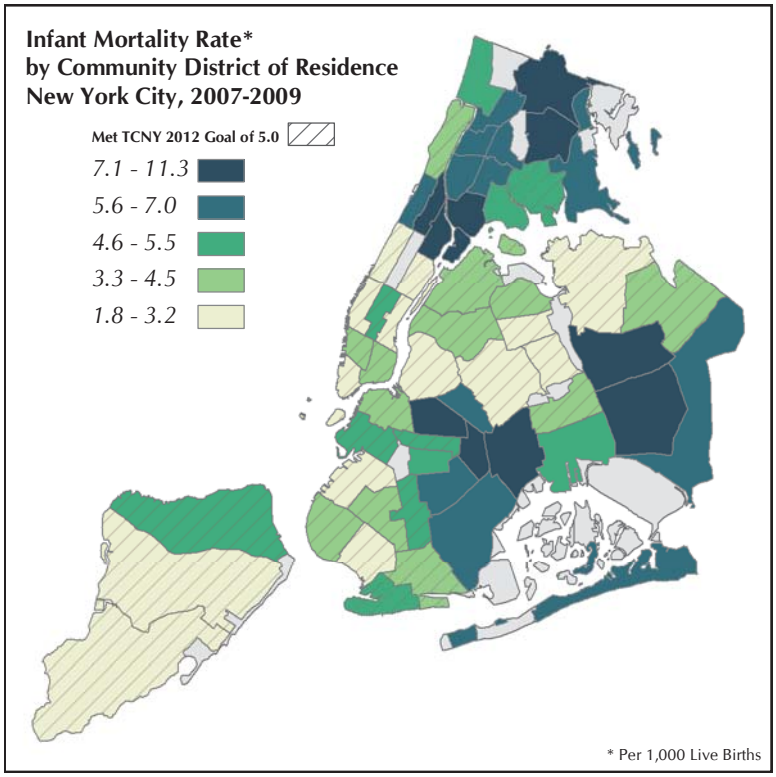


Figure 3.5 Neonatal Mortality Rate by Borough of Residence, New York City, 2005-2009

The Neonatal Mortality Rate (NMR) held steady or slightly declined for all five boroughs. Between 2007 and 2009, Manhattan and Staten Island had the lowest rates with 2.8 and 2.0 infant deaths per 1,000 live births. Brooklyn and Queens had NMRs in 2007-2009 of 3.3 and 3.1, respectively. The Bronx had the highest neonatal mortality rate in 2007-2009 (4.2). The NMR in Staten Island fell by 16.7% between the time periods of 2005-2007 and 2007-2009. Both the Bronx and Manhattan saw no change in neonatal mortality rate. Brooklyn and Queens saw decreases of 8.3% and 11.4%, respectively.



Map 3.1 Infant Mortality Rate by Community District of Residence, New York City, 2007-2009

The community district with the highest Infant Mortality Rate in 2009 was Brownsville at 11.3 infant deaths per 1,000 live births. Other community districts in the highest quintile are East New York at 9.5, Bedford Stuyvesant at 8.7, Jamaica, St. Albans at 8.4, Central Harlem at 7.9, East Harlem and Mott Haven at 7.6, Fresh Meadows, Briarwood at 7.4, Williamsbridge at 7.2, Pelham Parkway at 7.1, and Morrisania at 7.0.

See Table 3.8 on page 63 for additional rates.

Table 3.9 Infant Deaths by Cause, Sex, and Age, New York City, 2009

Cause of Death (ICD-10 Codes)	ICD10/ICD9 Comparability Ratio*	Total	Male			Female		
			<7 Days	7 - 27 Days	≥28 Days	<7 Days	7 - 27 Days	≥28 Days
Total		668	195	56	121	148	45	103
† Diseases of the Circulatory System (I00-I99)	0.66	14	1	–	8	–	–	5
† Influenza and Pneumonia (J10-J18)	0.73	8	–	–	6	–	–	2
† Newborn Affected by Maternal Complications of Pregnancy (P01)	1.05	11	8	–	–	2	1	–
† Newborn Affected by Complications of Placenta, Cord, and Membranes (P02)	1.02	14	9	–	–	4	1	–
† Short Gestation and Low Birth Weight (P07)	1.11	128	59	8	6	44	3	8
† Intrauterine Hypoxia and Birth Asphyxia (P20-P21)	1.32	2	–	–	–	2	–	–
† Respiratory Distress of Newborn (P22)	0.87	34	15	2	–	12	5	–
† Pulmonary Hemorrhage Originating in the Perinatal Period (P26)	1.53	10	5	–	–	4	1	–
† Atelectasis (P28.0-P28.1)	2.22	4	2	–	–	2	–	–
‡ Other Respiratory Conditions Originating in the Perinatal Period (P23-P28)		18	1	4	6	1	2	4
‡ Cardiovascular Disorders Originating in the Perinatal Period (P29)		77	37	10	2	25	3	–
‡ Infections Specific to the Perinatal Period (P35-P39)	1.15	9	–	4	–	2	3	–
Bacterial sepsis of newborn (P36)	0.99	4	–	2	–	2	–	–
† Neonatal Hemorrhage (P50-P52, P54)	1.99	11	5	2	–	3	1	–
† Necrotizing Enterocolitis of Newborn (P77)	1.19	13	–	4	1	1	6	1
Remainder of Conditions Originating in the Perinatal Period (Rest of P00-P99)		31	10	1	–	13	5	2
† Congenital Malformations, Deformations (Q00-Q99)	0.93	135	40	13	20	29	8	25
Congenital malformations of heart (Q20-Q24)	1.01	45	8	7	10	6	2	12
† Sudden Infant Death Syndrome (R95)	1.06	1	–	–	1	–	–	–
All Other Diseases (Rest of A00-R99)		88	1	6	40	4	5	32
‡ External Causes (V01-Y89)	1.00	60	2	2	31	–	1	24

* See Technical Notes: Death, Comparability Ratio.

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

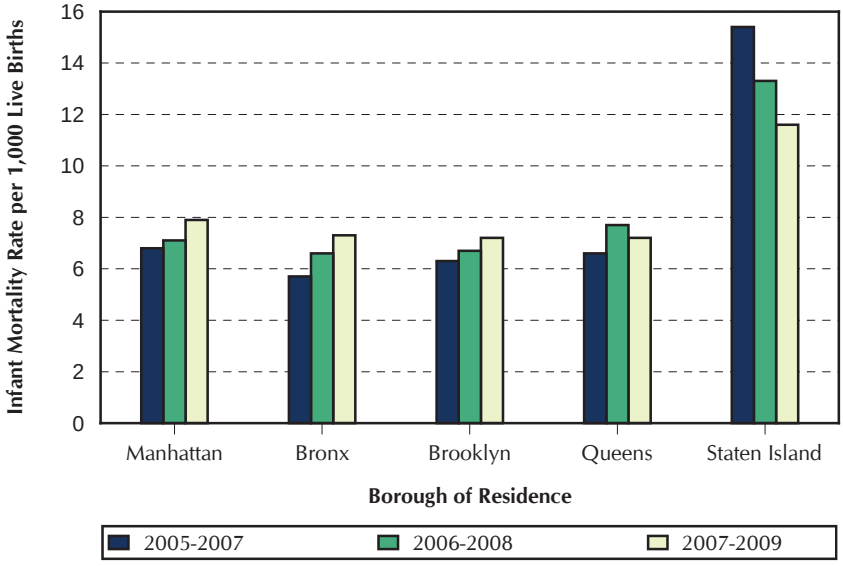
‡ Contain causes eligible to be ranked as a leading cause nationally but infrequent in New York City; these created groups permit recognition of important causes of infant deaths.

Table 3.10 **Infant and Neonatal Mortality Rates for Teenage Mothers (Age < 20 Years) by Borough of Residence, New York City, 2005-2009**

Borough of Residence	2005-2007		2006-2008		2007-2009	
	Infant Mortality Rate	Neonatal Mortality Rate	Infant Mortality Rate	Neonatal Mortality Rate	Infant Mortality Rate	Neonatal Mortality Rate
New York City	6.7	4.2	7.2	4.4	7.6	4.8
Manhattan	6.8	3.5	7.1	4.0	7.9	5.6
Bronx	5.7	3.8	6.6	4.0	7.3	4.1
Brooklyn	6.3	4.3	6.7	4.2	7.2	4.7
Queens	6.6	3.8	7.7	5.1	7.2	4.9
Staten Island	15.4	8.2	13.3	6.1	11.6	4.2
New York City Residents	6.6	4.1	7.2	4.3	7.5	4.5
Nonresidents	–	–	–	–	–	–

Figure 3.6 Infant Mortality Rate for Teenage Mothers (Age < 20 Years) by Borough of Residence, New York City, 2005-2009

The Infant Mortality Rate (IMR) for teenage mothers climbed for all of the boroughs excluding Staten Island. Between 2007 and 2009, both Brooklyn and Queens had the lowest rate with 7.2 infant deaths per 1,000 live births. The Bronx had an IMR of 7.3, followed by Manhattan with 7.9 infant deaths per 1,000 live births. Teenage mothers in Staten Island saw the highest IMR of 11.6. However, since the three-year period of 2005-2007, the IMR in Staten Island has fallen by 24.7% from 15.4 infant deaths per 1,000 live births. The largest increase was in the Bronx, which saw the infant mortality rate for teenage mothers jump by 28.1%. Manhattan, Brooklyn, and Queens saw increases of 16.2%, 14.3%, and 9.1%, respectively.



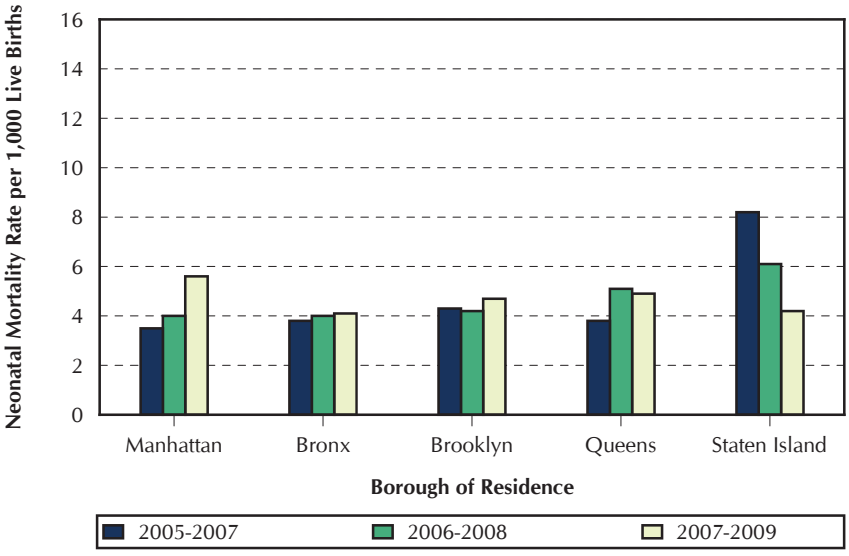


Figure 3.7 Neonatal Mortality Rate for Teenage Mothers (Age < 20 Years) by Borough of Residence, New York City, 2005-2009

The Neonatal Mortality Rate (NMR) for teenage mothers climbed for all of the boroughs excluding Staten Island. Between 2007 and 2009, the Bronx and Staten Island had the lowest rate with 4.1 and 4.2 infant deaths per 1,000 live births. Brooklyn and Queens had a NMR in 2007-2009 of 4.7 and 4.9, respectively. While Manhattan had the lowest NMR in 2005-2007 (3.5), the borough had the highest neonatal mortality rate for teenage mothers in 2007-2009 (5.6). The NMR in Staten Island fell by 48.8% between the time periods of 2005-2007 and 2007-2009. The largest increase was in Manhattan, which saw the neonatal mortality rate for teenage mothers jump by 60%. The Bronx, Brooklyn, and Queens saw increases of 7.8%, 9.3%, and 28.9%, respectively.

Table 3.11 **Live Births, Infant Mortality, and Maternal Mortality, Overall and by Mother's Ethnic Group, New York City, 1993-2009**

Mother's Ethnic Group*	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002†	2003	2004	2005	2006	2007	2008	2009
Live Births, Total	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	125,506	128,961	127,680	126,774
Puerto Rican	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	10,111	10,229	10,351	9,958
Other Hispanic	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	30,300	30,483	30,029	30,328
Asian and Pacific Islander	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	17,356	19,291	18,204	17,729
Non-Hispanic White	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	38,231	39,351	38,383	38,438
Non-Hispanic Black	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	29,077	29,268	27,917	27,405
Other or Unknown	1,531	1,516	1,822	1,067	526	639	571	516	501	499	345	457	502	431	339	2,796	2,916
Infant Deaths (< 1 year)‡, Total	1,366	1,207	1,155	992	881	843	848	839	760	742	807	760	732	740	697	698	668
Puerto Rican	178	120	146	112	96	85	95	98	74	83	81	76	66	94	64	68	63
Other Hispanic	196	174	197	164	141	129	156	140	151	150	164	133	135	129	130	143	147
Asian and Pacific Islander	61	57	57	56	51	49	55	59	46	39	58	69	61	62	59	59	50
Non-Hispanic White	244	223	204	197	189	201	167	165	154	148	146	131	178	145	155	125	131
Non-Hispanic Black	646	598	522	448	385	363	350	366	322	311	336	342	282	304	287	284	259
Other or Unknown	41	35	29	15	19	16	25	11	13	11	22	9	10	6	2	19	18
Infant Mortality Rate §, Total	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	5.9	5.4	5.5	5.3
Puerto Rican	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	9.3	6.3	6.6	6.3
Other Hispanic	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	4.3	4.3	4.8	4.8
Asian and Pacific Islander	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	3.6	3.1	3.2	2.8
Non-Hispanic White	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	3.8	3.9	3.3	3.4
Non-Hispanic Black	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	10.5	9.8	10.2	9.5
Neonatal Deaths (< 28 days), Total	917	804	811	656	605	593	606	583	524	497	542	516	481	484	430	466	444
Puerto Rican	108	67	113	72	60	60	74	59	54	59	51	47	42	54	37	43	44
Other Hispanic	136	122	143	113	107	92	113	94	112	106	110	92	93	91	82	99	97
Asian and Pacific Islander	38	42	44	35	37	34	39	45	29	26	43	45	42	41	39	44	36
Non-Hispanic White	177	158	146	139	130	139	120	119	102	100	99	89	129	105	93	82	97
Non-Hispanic Black	425	389	342	283	257	252	236	257	215	196	221	237	166	190	177	182	158
Neonatal Mortality Rate §, Total.	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	3.9	3.3	3.6	3.5
Puerto Rican	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	5.3	3.6	4.2	4.4
Other Hispanic	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	3.0	2.7	3.3	3.2
Asian and Pacific Islander	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	2.4	2.0	2.4	2.0
Non-Hispanic White	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	2.7	2.4	2.1	2.5
Non-Hispanic Black	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	6.5	6.0	6.5	5.8
Maternal Deaths ||, Total	20	29	26	22	17	16	24	30	41	31	22	28	21	29	32	39	31
Puerto Rican	2	4	3	1	1	1	1	–	2	–	1	–	–	3	2	4	–
Other Hispanic	2	5	7	4	2	2	3	7	7	6	1	8	5	3	5	5	6
Asian and Pacific Islander	–	2	1	1	1	1	1	1	–	–	1	4	1	5	3	3	2
Non-Hispanic White	–	6	–	4	2	2	6	2	4	7	3	1	2	–	2	4	4
Non-Hispanic Black	14	12	14	11	11	10	12	20	27	17	16	15	13	18	20	22	19
Maternal Mortality Ratio ¶, Total	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	23.1	24.8	30.5	24.5
Puerto Rican	12.1	26.3	21.6	7.7	7.7	7.7	8.2	–	18.4	–	9.8	–	–	29.7	19.6	38.6	–
Other Hispanic	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	9.9	16.4	16.7	19.8
Asian and Pacific Islander	–	17.7	8.6	7.8	7.6	7.6	7.3	6.6	–	–	6.0	23.9	6.1	28.8	15.6	16.5	11.3
Non-Hispanic White	–	15.7	–	10.7	5.4	5.4	16.5	5.4	10.9	19.2	7.9	2.7	5.4	–	5.1	10.4	10.4
Non-Hispanic Black	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	61.9	68.3	78.8	69.3

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

† A cause-of-death coding error was found for 2002. As a result, death of maternal cause was reduced by 1 and HIV disease death increased by 1.

‡ See Technical Notes: Demographics, Race/Ethnicity in Infant Mortality.

§ Rate per 1,000 live births.

|| See Rates and Ratios Defined and Technical Notes: Maternal Death and Maternal Mortality.

¶ Ratio per 100,000 live births.

Pregnancy Outcomes Contents

Pregnancy Outcomes Overview

All pregnancies are reportable in New York City, whether they result in a live birth or a spontaneous or induced termination of labor.

Birth certificates and their associated confidential medical reports contain demographic information such as parents' race, educational level, and financial coverage, as well as information about the pregnancy and delivery. Tables 4.4 and 4.5 provide a summary of key characteristics of the mother, the infant, and the delivery for all live births that occurred in New York City in 2009. Table 4.7 and Maps 4.1 to 4.4 display neighborhood-level characteristics and Figures 4.1 to 4.4 provide selected information about New York City births over the past 2 decades. Additional birth trend data are available in the New York City Birth and Infant Mortality Trend Report, available online at http://nyc.gov/html/doh/html/ms/ms-bimt.shtml.

Table 4.10 gives 2009 rates and demographic data for pregnancies in women younger than 20 years of age, including live births and spontaneous and induced terminations. Tables 4.11-4.12 and Figure 4.5 show data on live births to teenagers.

Finally, the New York City Health Department collects limited demographic information for all pregnancies that end in spontaneous or induced terminations. All spontaneous terminations occurring in New York City, regardless of gestational age, must be reported and are shown in Tables 4.13-4.14 and Figure 4.6. However, the number reported depends, to some extent, on the active surveillance conducted. Spontaneous terminations occurring before 28 weeks of gestation are commonly referred to as miscarriages, whereas fetal deaths occurring spontaneously at $\geq$28 weeks gestation are considered stillbirths and are shown separately in Tables 4.15 to 4.17. Tables 4.13, 4.17, and Figure 4.6 include data on induced terminations, commonly referred to as abortions, that occurred in New York City in 2009.

Table 4.1 Live Births Reported by Borough and Institution, New York City, 2009

Borough and Institution	Births
Manhattan	
Allen Hospital§	2,260
Bellevue Hospital Center	1,940
Beth Israel Medical Center	3,734
Columbia Presbyterian Medical Center	4,538
Harlem Hospital Center	1,194
Lenox Hill Hospital	3,657
Metropolitan Hospital Center	1,608
Mount Sinai Hospital	6,212
New York Downtown Hospital	2,264
New York Weill Cornell Medical Center	5,626
NYU Hospital Center - Tisch Hospital	4,582
St. Luke's - Roosevelt Hospital Center / Roosevelt Hospital Division.	6,321
St. Vincent's Hospital Manhattan	1,785
Places other than a hospital or home*	28
Home†	278
Foundling‡	1
Bronx	
Bronx Lebanon Hospital Center	2,697
Jack D. Weiler Hospital of the Albert Einstein College of Medicine	4,407
Jacobi Medical Center	2,226
Lincoln Medical and Mental Health Center	2,450
Montefiore Medical Center, Henry & Lucy Moses Division	9
Montefiore Medical Center, North Division.	2,618
North Central Bronx Hospital	1,689
St. Barnabas Hospital	1,209
Women's Health & Birthing Pavilion	62
Places other than a hospital or home*	13
Home†	69
Brooklyn	
Brookdale University Hospital and Medical Center	1,687
Brooklyn Birthing Center	95
Brooklyn Hospital Center	2,829
Coney Island Hospital	1,295
Interfaith Medical Center.	2
Kings County Hospital Center	2,740
Long Island College Hospital	1,544
Lutheran Medical Center	4,261
Maimonides Medical Center	7,741
New York Methodist Hospital	5,254
University Hospital of Brooklyn	1,761
Woodhull Medical and Mental Health Center	1,994
Wyckoff Heights Medical Center	1,675
Places other than a hospital or home*	32
Home†	274
Queens	
Elmhurst Hospital Center	3,861
Flushing Hospital Medical Center	2,740
Forest Hills Hospital	2,293
Jamaica Hospital Medical Center	2,704
Long Island Jewish Medical Center	5,115
Mount Sinai Hospital of Queens.	2
New York Hospital Medical Center of Queens	4,001
Queens Hospital Center	2,148
St. John's Episcopal Hospital	922
St. John's Queens Hospital ||	137
Places other than a hospital or home*	16
Home†	59
Staten Island	
Richmond University Medical Center	3,192
Staten Island University Hospital	2,914
Places other than a hospital or home*	4
Home†	5
New York City Total	126,774

* Places other than a hospital or home include ambulance, taxi, airplane, etc.

† See Technical Notes: Geographical Units, Place of Birth.

‡ Abandoned infant whose record of birth was filed by the Administration for Children's Services.

§ The institution name was changed from Allen Pavilion in September 2009.

|| St. John's Queens Hospital was closed in February 2009.

Table 4.2 Live Births by Ancestry of Mother and Borough of Residence, New York City, 2009

Ancestry of Mother	Total	Borough of Residence						
		Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-Residents	Residence Unknown
Total	126,774	20,011	21,857	41,803	27,374	5,707	10,020	2
Puerto Rican	9,958	1,153	4,333	2,317	1,213	535	407	–
Dominican	10,585	2,505	4,703	1,522	1,410	97	347	1
Colombian	1,174	86	65	124	761	33	105	–
Ecuadorian	3,488	202	467	614	2,048	50	107	–
Mexican	8,688	947	2,003	2,627	2,494	527	90	–
Cuban	300	69	64	46	54	17	50	–
Other Hispanic	6,093	719	1,279	1,558	1,963	196	378	–
African American	16,469	1,545	4,065	7,062	2,553	563	681	–
American	9,468	2,244	280	3,624	1,119	824	1,377	–
Guyanese	1,605	16	138	484	889	8	70	–
Haitian	1,714	48	59	1,089	362	17	139	–
Jamaican	2,217	56	567	868	572	18	136	–
Trinidadian	999	22	53	494	377	4	49	–
Other North, Central, and South American	1,786	188	242	933	287	38	98	–
English	1,416	750	34	358	86	14	174	–
German	1,009	356	22	259	134	37	201	–
Irish	2,149	517	85	437	340	254	516	–
Italian	3,965	604	180	808	544	1,027	802	–
Polish	1,381	154	22	452	506	90	157	–
Russian	1,799	322	26	803	323	127	198	–
Other European	4,474	1,067	311	1,461	786	296	553	–
Asian Indian	2,050	353	83	219	893	59	443	–
Bangladeshi	1,746	67	284	371	989	11	24	–
Chinese	8,283	1,566	79	3,636	2,480	131	391	–
Filipino	1,008	143	65	142	444	47	167	–
Korean	1,181	344	20	112	537	21	147	–
Pakistani	1,381	61	81	592	489	61	97	–
Other Asian	4,815	968	274	1,636	1,351	169	417	–
Jewish or Hebrew	6,627	714	70	4,782	315	122	624	–
Other or Not Stated	8,946	2,225	1,903	2,373	1,055	314	1,075	1

Note: See Technical Notes: Demographic Characteristics of Vital Events: Race, Ancestry, and Ethnic Group.

Table 4.3 Live Births by Mother's Ethnic Group and Age, New York City, 2009

Ethnic Group	Total	Age of Mother (Years)								
		<15	15-17	18-19	20-24	25-29	30-34	35-39	≥40	Not Stated
Total	126,774	112	2,308	5,386	24,982	32,799	34,262	20,662	6,262	1
Puerto Rican	9,958	22	478	931	2,848	2,575	1,785	993	326	–
Other Hispanic	30,328	47	957	2,057	7,749	8,330	6,632	3,574	982	–
Asian and Pacific Islander	17,729	1	24	131	2,283	5,516	5,915	3,152	707	–
Non-Hispanic White	38,438	3	81	431	5,158	8,397	12,930	8,631	2,807	–
Non-Hispanic Black	27,405	38	724	1,715	6,406	7,245	6,171	3,832	1,274	–
Non-Hispanic Other	836	1	6	29	171	236	240	117	36	–
Non-Hispanic of Two or More Races	1,817	–	35	69	304	423	539	327	120	–
Not Stated*	263	–	3	23	63	77	50	36	10	1

* See Technical Notes: Births, Changes to Birth Items Reported in the Summary Due to Data Quality Concerns.

Table 4.4 Selected Characteristics of Live Births, Overall and by Age of Mother, New York City, 2009

		Age of Mother (Years)								
	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	≥40	Not Stated
Total Live Births	126,774	112	2,308	5,386	24,982	32,799	34,262	20,662	6,262	1
Sex										
Male	65,083	51	1,206	2,741	12,815	16,832	17,744	10,540	3,153	1
Female	61,691	61	1,102	2,645	12,167	15,967	16,518	10,122	3,109	–
First Live Birth*										
Yes	58,087	109	2,151	4,451	14,734	14,038	13,669	6,896	2,039	–
No	68,510	2	152	921	10,220	18,723	20,543	13,743	4,206	–
Unknown	177	1	5	14	28	38	50	23	17	1
Pre-pregnancy Body Mass Index (BMI)										
Underweight (10≤BMI<18.5)	6,966	10	155	320	1,727	2,002	1,696	851	205	–
Normal weight (18.5≤BMI<25)	67,738	56	1,286	2,833	12,869	16,927	19,031	11,449	3,287	–
Overweight (25≤BMI<30)	29,119	23	491	1,236	5,762	7,677	7,636	4,745	1,549	–
Obese (BMI≥30)	20,541	17	306	851	4,106	5,598	5,328	3,249	1,086	–
Unknown	2,410	6	70	146	518	595	571	368	135	1
Birthweight at Delivery (Grams)										
<1500	2,013	2	40	87	360	447	524	397	156	–
1500-2499	9,107	8	216	414	1,754	2,112	2,371	1,564	668	–
2500-3999	107,411	101	1,974	4,647	21,568	28,114	28,928	17,139	4,940	–
≥4000	8,238	1	78	238	1,299	2,124	2,438	1,562	498	–
Not Stated	5	–	–	–	1	2	1	–	–	1
Gestational Age (Weeks)										
<32	2,113	2	42	98	379	488	541	419	144	–
32-36	10,053	11	222	403	1,806	2,369	2,638	1,852	752	–
≥37	114,592	98	2,044	4,883	22,792	29,939	31,080	18,391	5,365	–
Unknown	16	1	–	2	5	3	3	–	1	1
Plurality										
Single	121,874	112	2,270	5,288	24,367	31,750	32,790	19,562	5,735	–
Twin	4,654	–	38	98	575	980	1,407	1,053	503	–
Triplet	240	–	–	–	39	65	65	47	24	–
Quadruplet	4	–	–	–	–	4	–	–	–	–
Unknown/not stated	2	–	–	–	1	–	–	–	–	1
Apgar Score at 5 Minutes										
≤6	1,557	1	26	66	241	320	464	324	115	–
7	874	–	13	56	166	197	216	165	61	–
8	4,855	6	112	246	921	1,191	1,256	832	291	–
9	116,163	102	2,073	4,870	22,964	30,178	31,502	18,819	5,655	–
10	3,032	2	81	134	637	818	764	482	114	–
Not stated	293	1	3	14	53	95	60	40	26	1
Method of Delivery										
Vaginal	82,768	99	1,835	4,179	18,216	22,354	21,544	11,570	2,971	–
Vaginal after any prior C-section	1,767	–	6	17	270	494	516	359	105	–
Primary C-section	27,194	12	446	1,049	4,818	6,360	7,429	5,105	1,975	–
Repeat C-section	14,674	1	17	122	1,603	3,489	4,669	3,571	1,202	–
Unknown	371	–	4	19	75	102	104	57	9	1
Place of Birth										
Home	680	1	1	12	73	174	218	162	39	–
Voluntary hospital	102,690	74	1,554	3,676	18,497	26,146	29,317	17,970	5,456	–
Municipal hospital	23,145	37	749	1,687	6,374	6,401	4,649	2,498	750	–
Birthing center	165	–	4	7	32	47	51	17	7	–
Other	94	–	–	4	6	31	27	15	10	1
Attendant										
Physician	115,239	98	1,961	4,609	21,855	29,655	31,799	19,356	5,906	–
Certified nurse midwife	11,026	12	343	755	3,025	2,975	2,356	1,235	325	–
Other	509	2	4	22	102	169	107	71	31	1
Primary Payer for this Birth†										
Medicaid/Family Plus/Child Health Plus B/Other govt.	75,051	101	2,023	4,726	20,953	21,931	15,208	7,789	2,320	–
Private	48,188	10	165	407	3,205	9,982	18,257	12,386	3,776	–
Self-Pay	1,766	1	59	134	430	435	400	232	75	–
Other	1,000	–	34	52	208	277	208	163	58	–
Not stated	769	–	27	67	186	174	189	92	33	1
Marital Status of Mother‡										
Not married	55,767	111	2,252	4,710	16,140	15,050	10,099	5,522	1,883	–
Married	71,006	1	56	676	8,842	17,749	24,163	15,140	4,379	–
Unknown	1	–	–	–	–	–	–	–	–	1
Education Level										
11th grade or less/12th grade no diploma	30,503	112	2,027	2,786	8,147	8,142	5,456	2,907	926	–
High school graduate or GED	29,403	–	249	1,866	8,453	8,111	6,216	3,451	1,057	–
Some college/associate degree	27,473	–	17	679	6,648	8,295	6,808	3,819	1,207	–
Bachelor's degree	21,943	–	–	9	1,326	5,433	8,429	5,266	1,480	–
Master's degree or higher	16,855	–	–	–	280	2,647	7,212	5,152	1,564	–
Not stated	597	–	15	46	128	171	141	67	28	1
Birthplace of Mother										
United States, including its territories	62,283	87	1,725	3,706	13,801	14,166	15,803	9,874	3,120	1
Foreign	64,378	25	580	1,668	11,150	18,601	18,440	10,779	3,135	–
Not stated	113	–	3	12	31	32	19	9	7	–

* See Technical Notes: Births, Changes to Birth Items Reported in the Summary Due to Data Quality Concerns.

† See Technical Notes: Births, Birth Reporting.

‡ See Technical Notes: Mother's Marital Status.

Table 4.5 Selected Characteristics of Live Births by Mother's Ethnic Group, New York City, 2009

		Ethnic Group of Mother							
	Total	Puerto Rican	Other Hispanic	Asian	Non-Hispanic White	Non-Hispanic Black	Other	Non-Hispanic, Two or More Races	Not Stated
Total Live Births	126,774	9,958	30,328	17,729	38,438	27,405	836	1,817	263
Sex									
Male	65,083	5,080	15,559	9,182	19,769	13,977	428	938	150
Female	61,691	4,878	14,769	8,547	18,669	13,428	408	879	113
First Live Birth*									
Yes	58,087	4,352	12,858	9,014	18,410	12,052	372	920	109
No	68,510	5,594	17,452	8,704	20,004	15,250	463	895	148
Unknown	177	12	18	11	24	103	1	2	6
Pre-pregnancy Body Mass Index (BMI)									
Underweight (10 ≤ BMI < 18.5)	6,966	369	996	2,186	2,291	945	70	95	14
Normal weight (18.5 ≤ BMI < 25)	67,738	3,903	14,678	11,895	25,359	10,398	412	1,033	60
Overweight (25 ≤ BMI < 30)	29,119	2,755	8,744	2,598	6,642	7,738	231	374	37
Obese (BMI ≥ 30)	20,541	2,818	5,221	837	3,608	7,612	110	298	37
Unknown	2,410	113	689	213	538	712	13	17	115
Birthweight at Delivery (Grams)									
< 1500	2,013	200	387	152	404	832	11	15	12
1500-2499	9,107	844	1,799	1,142	2,370	2,707	81	148	16
2500-3999	107,411	8,293	25,913	15,744	32,570	22,403	723	1,549	216
≥ 4000	8,238	621	2,229	690	3,094	1,463	21	105	15
Not Stated	5	–	–	1	–	–	–	–	4
Gestational Age (Weeks)									
< 32	2,113	223	413	156	374	898	14	20	15
32-36	10,053	957	2,249	1,173	2,619	2,818	63	155	19
≥ 37	114,592	8,776	27,663	16,397	35,444	23,686	759	1,641	226
Unknown	16	2	3	3	1	3	–	1	3
Plurality									
Single	121,874	9,645	29,565	17,253	36,320	26,288	808	1,738	257
Twin	4,654	298	734	457	1,992	1,068	28	73	4
Triplet	240	15	29	19	122	49	–	6	–
Quadruplet	4	–	–	–	4	–	–	–	–
Unknown/not dtated	2	–	–	–	–	–	–	–	2
Apgar Score at 5 Minutes									
≤ 6	1,557	128	245	116	578	460	13	7	10
7	874	85	147	68	239	315	3	14	3
8	4,855	474	1,051	527	1,232	1,465	29	69	8
9	116,163	8,927	28,009	16,612	35,555	24,389	763	1,688	220
10	3,032	333	805	384	786	646	25	37	16
Not stated	293	11	71	22	48	130	3	2	6
Method of Delivery									
Vaginal	82,768	6,441	19,942	11,594	26,057	16,876	500	1,172	186
Vaginal after any prior C-section	1,767	119	402	197	690	311	18	27	3
Primary C-section	27,194	2,156	5,880	3,819	8,063	6,625	210	406	35
Repeat C-section	14,674	1,214	4,027	1,988	3,582	3,516	104	210	33
Unknown	371	28	77	131	46	77	4	2	6
Place of Birth									
Home	680	23	96	42	342	151	4	15	7
Voluntary hospital	102,690	7,845	20,774	15,233	36,819	19,647	685	1,480	207
Municipal hospital	23,145	2,061	9,416	2,443	1,178	7,541	146	313	47
Birthing center	165	26	27	3	71	29	–	9	–
Other	94	3	15	8	28	37	1	–	2
Attendant									
Physician	115,239	8,930	26,560	16,888	35,378	24,894	750	1,611	228
Certified nurse midwife	11,026	1,000	3,649	792	2,951	2,332	80	194	28
Other	509	28	119	49	109	179	6	12	7
Primary Payer for this Birth†									
Medicaid/Family Plus/Child Health Plus B/Other govt.	75,051	7,062	24,292	10,649	12,056	19,459	539	821	173
Private	48,188	2,602	5,233	6,826	25,805	6,461	259	937	65
Self-Pay	1,766	158	371	127	258	790	12	35	15
Other	1,000	89	197	80	206	395	16	16	1
Not Stated	769	47	235	47	113	300	10	8	9
Marital Status of Mother‡									
Not married	55,767	7,461	20,200	3,386	4,611	19,018	249	678	164
Married	71,006	2,497	10,128	14,343	33,827	8,387	587	1,139	98
Unknown	1	–	–	–	–	–	–	–	1
Education Level									
11th grade or less/12th grade, no diploma	30,503	3,447	12,399	4,773	3,013	6,425	181	216	49
High school graduate or GED	29,403	2,583	7,778	3,241	7,439	7,691	275	366	30
Some college/associate degree	27,473	2,810	6,421	2,619	6,308	8,611	206	465	33
Bachelor's degree	21,943	734	2,504	4,247	10,862	3,051	110	417	18
Master's degree or higher	16,855	367	1,122	2,827	10,681	1,419	61	352	26
Not stated	597	17	104	22	135	208	3	1	107
Birthplace of Mother									
United States, including its territories	62,283	9,902	7,060	1,529	26,709	15,705	125	1,080	173
Foreign	64,378	54	23,261	16,188	11,688	11,679	711	735	62
Not stated	113	2	7	12	41	21	–	2	28

* See Technical Notes: Births, Changes to Birth Items Reported in the Summary Due to Data Quality Concerns.

† See Technical Notes: Births, Birth Reporting.

‡ See Technical Notes: Mother's Marital Status.

Table 4.6 Live Births by Selected Characteristics and Mother's Ancestry, New York City, 2009

Ancestry of Mother	Live Births	Percent of Total Live Births with Specified Characteristics							
		Foreign-born* Mother	First Live Birth	<2,500 Grams	Preterm Birth†	Mother Not Married	On Medicaid‡	Pre-pregnancy Obesity§	Teenage Mother (<20 Years)
Total	126,774	50.8	45.9	8.8	9.6	44.0	59.6	16.5	6.2
Puerto Rican	9,958	0.5	43.7	10.5	11.9	74.9	71.3	28.6	14.4
Dominican	10,585	71.1	47.2	8.4	9.5	68.2	78.9	18.8	10.7
Colombian	1,174	71.6	51.4	8.0	9.5	48.7	57.0	13.2	6.7
Ecuadorian	3,488	85.0	38.5	5.2	6.8	57.3	82.8	14.2	8.1
Mexican	8,688	90.4	34.6	5.5	7.7	75.0	93.5	16.8	11.3
Cuban	300	22.0	48.7	10.7	12.7	44.7	40.0	12.6	6.3
Other Hispanic	6,093	65.9	45.5	8.5	9.8	61.8	71.2	19.8	9.4
African American	16,469	16.2	45.1	13.8	14.1	77.5	71.6	31.1	12.0
American	9,468	5.5	48.5	7.9	8.0	18.1	27.1	11.2	2.5
Guyanese	1,605	93.5	41.7	12.5	12.7	45.0	63.1	16.1	4.2
Haitian	1,714	82.0	45.4	11.4	13.7	45.7	67.3	26.4	3.4
Jamaican	2,217	92.5	43.8	10.8	12.4	66.5	68.5	27.6	4.8
Trinidadian	999	94.1	47.5	12.6	12.1	56.9	70.7	21.3	4.4
Other North, Central, and South American	1,786	88.1	50.3	10.1	12.5	50.4	61.5	20.4	4.2
English	1,416	28.7	65.3	6.7	7.7	11.6	5.7	4.8	0.4
German	1,009	22.3	61.6	6.1	7.8	16.4	11.6	8.4	0.8
Irish	2,149	10.1	56.7	7.3	8.7	14.6	12.7	11.7	0.8
Italian	3,965	6.8	53.7	9.0	10.2	18.3	17.2	15.7	1.9
Polish	1,381	69.1	59.3	4.9	6.4	16.7	41.3	5.9	0.8
Russian	1,799	78.6	53.1	7.0	7.1	19.1	34.3	6.6	0.5
Other European	4,474	62.0	54.9	6.5	7.0	15.7	31.2	8.0	1.0
Asian Indian	2,050	86.5	56.5	10.4	8.8	9.5	34.5	9.1	0.7
Bangladeshi	1,746	98.9	38.1	12.6	9.9	8.9	83.4	9.4	1.0
Chinese	8,283	93.1	50.7	5.0	5.8	26.2	71.3	1.5	0.6
Filipino	1,008	80.0	55.7	8.2	10.6	20.3	24.6	5.9	1.1
Korean	1,181	84.6	60.6	5.4	5.6	10.6	33.8	1.5	0.4
Pakistani	1,381	94.6	38.6	9.7	10.4	4.3	77.3	13.8	1.4
Other Asian	4,815	86.9	49.1	7.9	7.7	13.6	49.7	7.6	2.4
Jewish or Hebrew	6,627	17.9	31.0	6.3	6.5	3.7	52.0	9.1	1.4
Other or Not Stated	8,946	50.4	42.1	9.5	10.3	30.4	53.4	15.8	2.8

Note: See Technical Notes: Demographic Characteristics of Vital Events: Race, Ancestry, and Ethnic Group.

* Beginning in 2006, US Virgin Islands and Guam are not included in the Foreign-born Mother category.

† Clinical gestational age < 37 completed weeks.

‡ Due to revision of birth certificate, since 2008 "On Medicaid" also includes Family Health Plus, Other govt., and Child Health Plus B.

§ See Technical Notes: Births, Changes to Birth Items Reported in the Summary Due to Data Quality Concerns.

Table 4.7

Live Births by Selected Characteristics and Community District of Residence, New York City, 2009

Community District of Residence	Live Births	Rate per 1,000 Live Births*	Percent of Total Live Births With Specified Characteristics							
			Hispanic Mother	Foreign-Born Mother	First Live Birth	< 2,500 Grams	Preterm Birth †	Mother Not Married	On Medicaid‡	Pre-pregnancy Obesity
NEW YORK CITY	126,774	15.1	35.1	50.8	45.9	8.8	9.6	44.0	59.6	16.5
MANHATTAN	19,903	12.2	32.1	43.5	58.2	8.9	9.1	34.0	38.3	11.2
Battery Park, Tribeca (01)	970	23.0	8.1	40.2	65.3	8.8	9.1	6.8	3.7	2.0
Greenwich Village, SOHO (02)	901	8.6	7.5	38.4	64.8	9.4	9.7	12.4	12.0	2.2
Lower East Side (03)	2,076	11.7	23.0	61.1	50.3	7.4	7.5	40.8	68.2	10.5
Chelsea, Clinton (04)	916	8.8	21.6	40.1	69.8	6.9	8.2	23.8	22.1	9.0
Midtown Business District (05)	556	11.1	8.2	44.0	72.3	7.9	7.2	13.3	9.4	3.5
Murray Hill (06)	1,303	8.6	8.9	39.7	69.0	8.4	7.1	8.6	7.4	3.6
Upper West Side (07)	2,811	12.2	16.7	33.8	61.8	8.2	8.7	15.2	12.6	6.0
Upper East Side (08)	2,869	11.5	8.8	33.7	64.9	9.7	9.0	7.9	6.7	3.7
Manhattanville (09)	1,410	13.3	56.4	51.3	53.8	9.1	8.2	58.3	65.4	18.7
Central Harlem (10)	1,724	17.8	27.0	37.3	48.1	10.8	11.4	62.8	65.9	24.4
East Harlem (11)	1,687	14.9	58.2	39.3	45.1	11.6	12.7	70.0	75.3	25.7
Washington Heights (12)	2,680	13.7	82.8	59.2	53.2	7.6	8.8	59.5	69.4	16.6
BRONX	21,965	15.7	60.5	49.5	42.6	10.0	10.2	70.8	78.5	23.9
Mott Haven (01)	1,755	19.2	69.9	43.6	40.4	9.6	10.2	84.0	87.7	25.9
Hunts Point (02)	995	18.8	72.7	42.2	37.9	10.6	10.3	80.4	86.3	26.1
Morrisania (03)	1,477	19.0	55.0	38.7	40.8	11.2	11.8	79.1	84.3	23.8
Concourse, Highbridge (04)	2,876	19.2	62.9	59.1	40.3	9.5	10.3	74.2	83.5	22.5
University/Morris Heights (05)	2,410	17.8	68.0	56.5	40.7	9.2	10.0	75.9	85.1	25.2
East Tremont (06)	1,537	18.4	66.7	42.3	38.8	10.9	11.9	77.9	84.6	26.7
Fordham (07)	2,418	16.5	72.1	58.0	44.1	9.0	8.9	69.6	80.3	22.6
Riverdale (08)	1,213	12.4	62.2	47.2	47.6	8.8	8.7	45.3	52.5	16.2
Unionport, Soundview (09)	2,755	15.3	60.2	45.5	42.5	10.8	9.9	69.7	78.7	25.7
Throgs Neck (10)	1,065	9.3	50.6	36.6	48.8	10.5	10.1	52.0	54.5	20.5
Pelham Parkway (11)	1,459	13.3	52.2	51.5	46.8	9.0	9.0	57.5	71.1	21.7
Williamsbridge (12)	2,000	13.1	29.8	52.0	45.2	10.9	11.1	70.5	74.2	27.0
BROOKLYN	41,803	16.3	24.9	48.7	42.6	8.4	9.9	42.2	68.2	16.8
Williamsburg, Greenpoint (01)	3,423	18.9	28.3	18.5	34.6	6.1	7.2	19.8	63.3	11.9
Fort Greene, Brooklyn Heights (02)	1,463	13.5	14.9	29.8	61.8	8.8	9.2	29.8	27.3	10.8
Bedford Stuyvesant (03)	2,512	17.4	24.5	28.2	40.7	10.5	11.8	61.6	74.5	24.1
Bushwick (04)	1,924	17.5	75.3	58.9	39.2	8.6	10.6	73.5	85.4	21.9
East New York (05)	2,895	16.4	38.9	45.2	40.2	12.2	13.2	72.3	80.7	27.1
Park Slope (06)	1,701	15.1	19.7	25.0	62.7	6.3	7.1	24.3	25.8	8.7
Sunset Park (07)	3,041	23.7	36.8	78.2	46.2	5.4	7.0	43.9	83.2	9.1
Crown Heights North (08)	1,461	15.2	13.2	39.2	47.1	10.5	12.4	57.2	64.7	23.6
Crown Heights South (09)	1,682	16.6	9.7	51.8	43.5	10.0	10.9	48.3	74.0	18.7
Bay Ridge (10)	1,745	13.2	19.1	61.7	45.8	7.7	9.5	23.6	56.5	11.1
Bensonhurst (11)	2,320	12.3	23.2	72.6	45.6	6.1	7.4	30.6	68.5	12.8
Borough Park (12)	5,275	26.7	18.0	41.5	32.0	5.7	6.5	16.0	76.0	9.6
Coney Island (13)	1,209	10.9	32.0	64.2	44.9	8.5	9.7	46.0	73.8	17.6
Flatbush, Midwood (14)	2,736	16.2	23.6	60.8	41.6	8.7	10.6	41.7	68.1	16.8
Sheepshead Bay (15)	2,100	12.2	14.2	62.2	44.5	7.6	8.2	22.9	52.9	11.1
Brownsville (16)	1,509	17.7	21.5	32.2	40.5	13.9	15.2	81.2	83.3	30.5
East Flatbush (17)	2,264	14.2	8.8	62.6	44.8	12.3	14.8	67.0	77.0	29.2
Canarsie (18)	2,539	13.1	9.6	51.3	43.0	10.0	13.4	46.6	58.6	22.9
QUEENS	27,374	11.9	37.4	69.3	45.5	7.9	8.7	44.7	65.6	15.3
Astoria, Long Island City (01)	2,036	9.5	36.3	62.1	52.7	8.3	8.9	37.6	58.4	15.0
Sunnyside, Woodside (02)	1,540	12.9	40.2	77.5	50.3	6.0	6.2	34.7	62.1	9.8
Jackson Heights (03)	2,849	15.5	74.9	83.8	41.9	6.0	8.0	58.3	82.3	13.2
Elmhurst, Corona (04)	2,893	15.5	61.4	88.2	44.7	6.1	6.7	54.4	84.5	11.3
Ridgewood, Glendale (05)	2,107	13.0	46.5	62.2	48.1	6.3	8.1	40.2	59.1	14.5
Rego Park, Forest Hills (06)	1,224	10.5	16.6	69.6	56.6	7.1	7.4	21.0	29.5	6.5
Flushing (07)	2,618	9.8	21.4	82.7	47.2	4.8	6.6	31.7	65.9	7.4
Fresh Meadows, Briarwood (08)	1,831	12.1	20.3	70.1	44.5	10.0	10.1	26.3	52.3	12.6
Woodhaven (09)	1,930	13.1	47.6	70.3	43.8	8.0	9.0	44.7	68.1	17.3
Howard Beach (10)	1,429	11.1	27.2	64.2	41.8	12.1	11.1	42.6	61.9	20.0
Bayside (11)	667	5.6	14.3	62.2	49.0	5.1	4.6	22.9	40.0	8.2
Jamaica, St. Albans (12)	3,054	13.6	23.7	57.1	42.3	10.9	11.3	62.3	72.4	25.5
Queens Village (13)	1,708	8.9	13.8	59.0	43.0	10.2	10.6	50.4	60.7	21.4
The Rockaways (14)	1,484	13.6	28.4	35.2	37.9	10.6	11.7	60.4	68.1	26.2
STATEN ISLAND	5,707	11.6	26.7	35.2	41.5	8.4	9.9	34.7	41.7	19.0
Port Richmond (01)	2,592	13.8	39.3	41.8	40.5	9.3	10.3	52.4	56.9	20.6
Willowbrook, South Beach (02)	1,485	10.5	19.3	41.6	43.2	7.5	9.4	25.6	37.8	17.5
Tottenville (03)	1,615	9.9	12.8	18.8	41.5	7.9	9.6	15.2	21.1	17.8
NEW YORK CITY RESIDENTS	116,752	13.9	36.5	52.2	45.9	8.7	9.5	46.4	63.1	16.9
NON-RESIDENTS	10,020	-	17.5	35.3	46.1	9.9	10.7	15.9	18.0	11.5
RESIDENCE UNKNOWN	2	-	-	-	-	-	-	-	-	-

Note: 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.

* Rate per 1,000 population. For population information, see Technical Notes: Geographical Units, Community District.

† Clinical gestational age < 37 completed weeks.

‡ Due to revision of the birth certificate, since 2008 "On Medicaid" also includes Family Health Plus, Other govt., and CHPlusB.

Table 4.8

Live Births by Mother's Birthplace and Borough of Residence, New York City, 2009

Birthplace	Total	Borough of Residence					Non-Residents	Residence Unknown
		Manhattan	Bronx	Brooklyn	Queens	Staten Island		
Bangladesh	1,760	73	286	370	994	12	25	–
China	7,195	1,259	62	3,339	2,168	107	260	–
Colombia	846	62	42	74	574	20	74	–
Cuba	55	11	13	6	16	3	6	–
Dominican Republic	7,625	1,679	3,580	1,124	946	63	232	1
Ecuador	2,959	162	360	524	1,821	34	58	–
El Salvador	805	43	98	151	437	14	62	–
Germany	271	99	11	89	30	7	35	–
Guyana	1,909	18	163	697	941	12	78	–
Haiti	1,545	37	46	1,041	292	13	116	–
Honduras	858	57	363	187	189	34	28	–
India	1,553	205	60	123	766	50	349	–
Ireland	179	31	11	31	74	3	29	–
Israel	1,178	241	21	604	151	25	136	–
Italy	209	80	6	55	24	17	27	–
Jamaica	2,946	65	792	1,184	704	23	178	–
Korea	973	243	20	80	495	15	120	–
Mexico	7,887	827	1,792	2,369	2,331	500	68	–
Pakistan	1,280	45	78	555	461	59	82	–
Philippines	816	102	59	102	395	41	117	–
Poland	955	44	10	322	464	56	59	–
Puerto Rico	1,503	169	765	311	147	50	61	–
Russia	983	140	18	489	169	75	92	–
Trinidad and Tobago	1,551	35	81	868	480	19	68	–
Ukraine	795	82	12	513	54	86	48	–
United States	60,780	11,109	10,251	21,105	8,252	3,646	6,416	1
Other or Not Stated	17,358	3,093	2,857	5,490	3,999	723	1,196	–
Total	126,774	20,011	21,857	41,803	27,374	5,707	10,020	2

Table 4.9

Live Births by Mother's Birthplace and Age, New York City, 2009

Birthplace	Total	Age of Mother (Years)						
		< 20	20-24	25-29	30-34	35-39	≥40	Unknown
Bangladesh	1,760	17	340	694	486	188	35	–
China	7,195	32	1,147	2,786	2,046	967	217	–
Colombia	846	35	119	216	239	175	62	–
Cuba	55	–	11	5	16	13	10	–
Dominican Republic	7,625	571	1,835	2,174	1,709	1,040	296	–
Ecuador	2,959	194	634	895	703	396	137	–
El Salvador	805	50	180	246	210	93	26	–
Germany	271	2	10	44	102	80	33	–
Guyana	1,909	61	370	517	532	332	97	–
Haiti	1,545	34	137	378	502	360	134	–
Honduras	858	56	213	247	202	107	33	–
India	1,553	9	142	508	641	215	38	–
Ireland	179	–	2	26	65	65	21	–
Israel	1,178	10	170	297	396	246	59	–
Italy	209	2	5	23	65	81	33	–
Jamaica	2,946	122	548	797	726	557	196	–
Korea	973	3	13	174	418	316	49	–
Mexico	7,887	646	2,193	2,408	1,732	757	151	–
Pakistan	1,280	17	246	476	355	143	43	–
Philippines	816	7	72	131	330	213	63	–
Poland	955	6	90	329	360	136	34	–
Puerto Rico	1,503	150	374	388	320	192	79	–
Russia	983	4	148	240	319	209	63	–
Trinidad and Tobago	1,551	56	303	468	391	243	90	–
Ukraine	795	3	69	254	311	127	31	–
United States	60,780	5,368	13,427	13,778	15,483	9,682	3,041	1
Other or Not Stated	17,358	351	2,184	4,300	5,603	3,729	1,191	–
Total	126,774	7,806	24,982	32,799	34,262	20,662	6,262	1

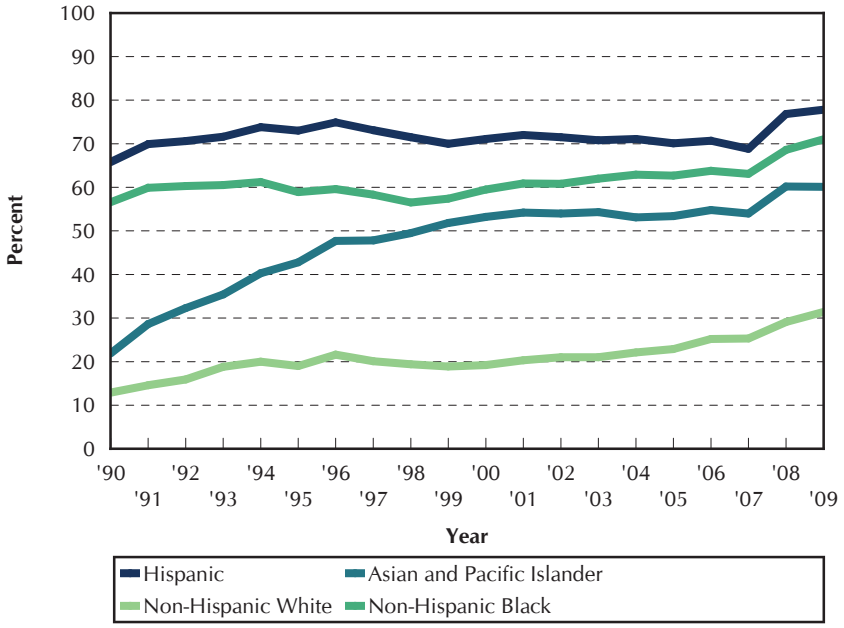


Figure 4.1 Percent of Live Births Covered by Medicaid New York City, 1990-2009

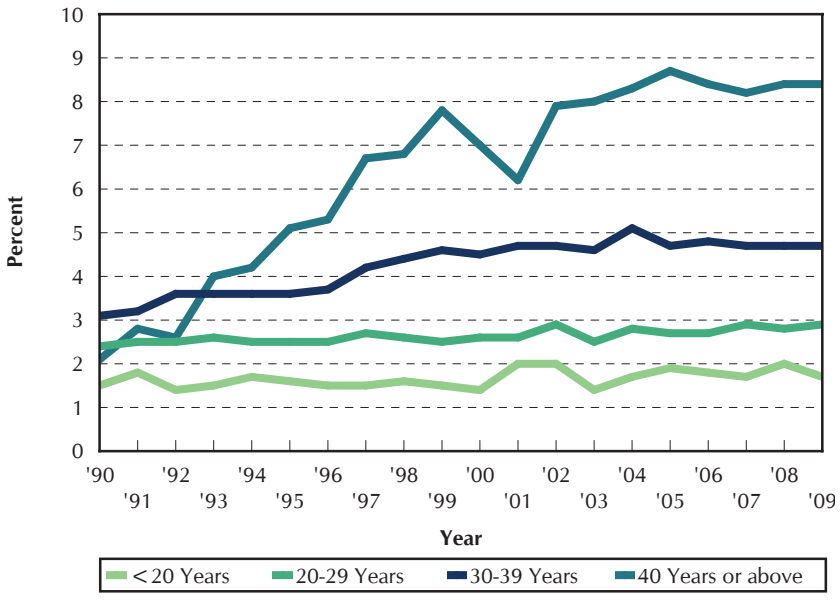
The choices for the Primary Financial Coverage question on the 2008 birth certificate changed. It now indicates coverage by Medicaid, Family Health Plus, Child Health Plus B, and other government programs. As a result, Medicaid coverage increased sharply in 2008 for all ethnic groups because of the new definition. Of the 126,774 births in New York City in 2009, 59.2% (75,051) were covered by Medicaid. The distribution varied greatly by ethnic group. Asian and Pacific Islanders showed the largest increase in the percent of Medicaid births over the 2 decades. The proportion of births covered by Medicaid among non-Hispanic whites remains the lowest, with a slow steady increase from 1990 to 2009.

In 2009, 77.8% of births to Hispanic mothers were covered by Medicaid, 71% of non-Hispanic black, 60.1% of Asian and Pacific Islander, and 31.4% of non-Hispanic white.

Figure 4.2 Percent of Multiple Live Births by Mother's Age New York City, 1990-2009

Plurality (multiple births) occurred among 4,898 of the 126,774 births in New York City in 2009; 96.1% of all live births were singletons, 3.7% were twins, and 0.2% were triplets. The proportion of births that were multiples increased with age of the mother. In 2009, 8.4% of births to women 40 years of age or over were multiple, compared to 4.7% of births to women aged 30-39, 2.9% to women aged 20-29 and 1.7% to women under 20.

The percent of multiple births to women 40 years of age or over has increased from 2.1% in 1990 to 8.4% in 2009, coinciding with advances in reproductive technology. Women aged 30-39 have also had an increase in the proportion of multiple births, from 3.1% in 1990 to 4.7% in 2009. The proportion of multiple births to women aged 20-29 and women under 20 also increased slightly from 2.4% and 1.5% in 1990 to 2.9% and 1.7% in 2009, respectively.



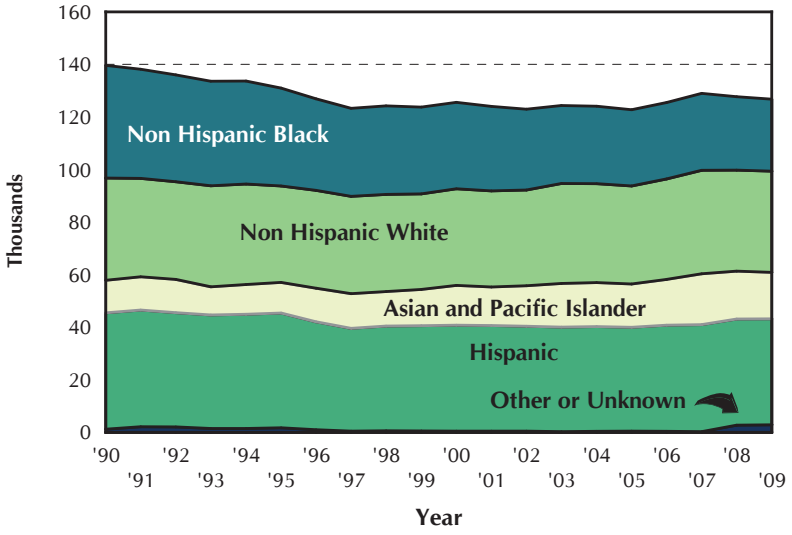


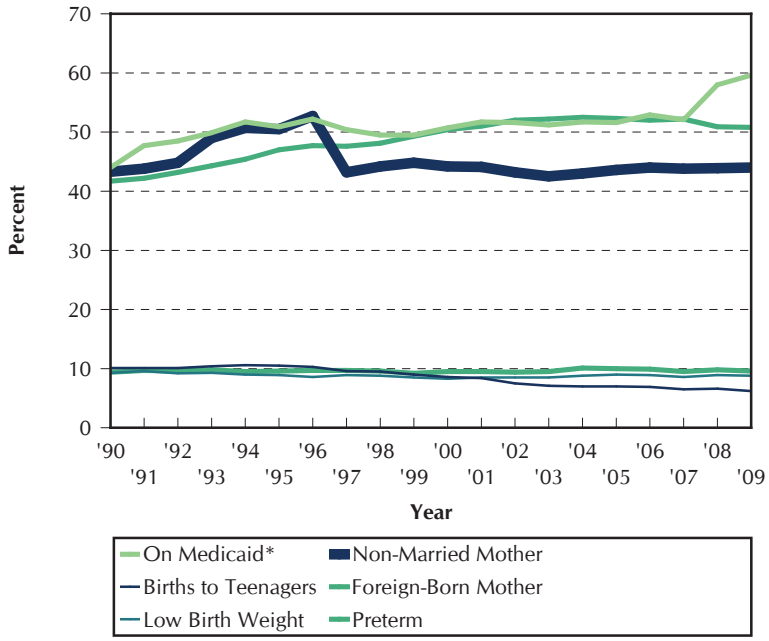
Figure 4.3 Live Births by Mother's Ethnic Group New York City, 1990-2009

The number of live births registered in New York City reached 139,630 in 1990, the highest number since 1970. After 1990, live births declined about 10% and stabilized between 123,000 and 126,000 from 1997 to 2005. Live births then increased to 128,691 in 2007, decreased to 127,680 in 2008, and saw a further drop to 126,774 in 2009. Over the last 20 years, the numbers of births to non-Hispanic black women and Asian and Pacific Islanders have changed dramatically. Since 1990, births declined 36% among non-Hispanic black mothers to 27,405 in 2009 and increased 43% among Asian and Pacific Islanders to 17,729 in 2009. On the other hand, births to non-Hispanic white women and Hispanics have remained relatively stable with a 1% and 9% decline, respectively, since 1990.

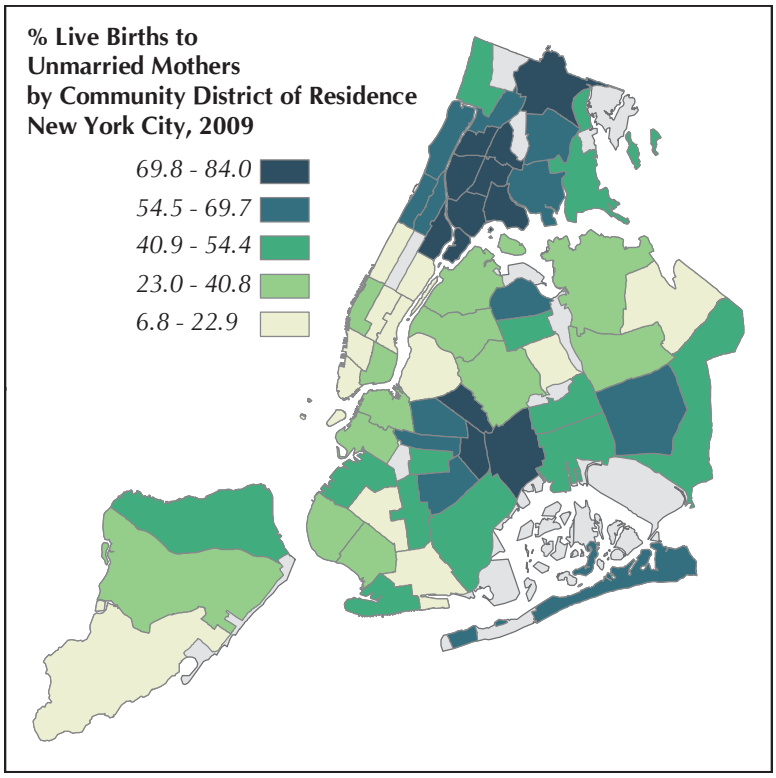
Note: Other or Unknown – Other includes two or more races. See Technical Notes: Births, Changes to Birth Items Reported in the Summary Due to Data Quality Concerns.

Figure 4.4 Percent of Live Births with Specified Characteristics, New York City, 1990-2009

The percent of live births to foreign-born mothers has increased steadily in the past two decades, from 41.7% in 1990 to 50.8% in 2009, reflecting the inflow of new immigrants. The percent of mothers giving birth on Medicaid surged during the late 1980s and early 1990s, leveled from 1997 to 1999, then gradually increased through 2007. The percent of low birthweight babies has remained stable for the past 20 years. The percent of mothers who were not married when they delivered a baby increased from 1990 through 1996. The abrupt decrease in 1997 is an artifact of a new method used to compute mother's marital status (See Technical Notes: Births, Mother's Marital Status). The percent of non-married mothers decreased slightly since 1999, largely due to the decline of teenage mothers, who are more likely to not be married. Percent of live births born preterm, less than 37 completed weeks gestation, has been stable for the past 20 years at about 10%.



*The large increase in "On Medicaid" since 2008 is likely due to the implementation of the new birth certificate as Medicaid reporting now includes other government insurances, such as Family Health Plus and Child Health Plus B.



Map 4.1 Percent of Live Births to Unmarried Mothers by Community District of Residence, New York City, 2009

Forty-four percent of births in New York City in 2009 were to women who were unmarried. The distribution among New York City boroughs was 70.8% in the Bronx, 44.7% in Queens, 42.2% in Brooklyn, 34.0% in Manhattan, and 34.7% in Staten Island.

Community districts in the highest quintile of births to unmarried women were Mott Haven at 84.0%, followed by Brownsville at 81.2%, Hunts Point at 80.4%, Morrisania at 79.1%, East Tremont at 77.9%, University/Morris Heights at 75.9%, Concourse, Highbridge at 74.2%, Bushwick at 73.5%, East New York at 72.3%, and Williamsbridge at 70.5%.

Only 3 community districts had less than 10% of their births to unmarried mothers: Battery Park, Tribeca at 6.8%, Upper East Side at 7.9%, and Murray Hill at 8.6%.

See Table 4.7 on page 75 for additional rates.

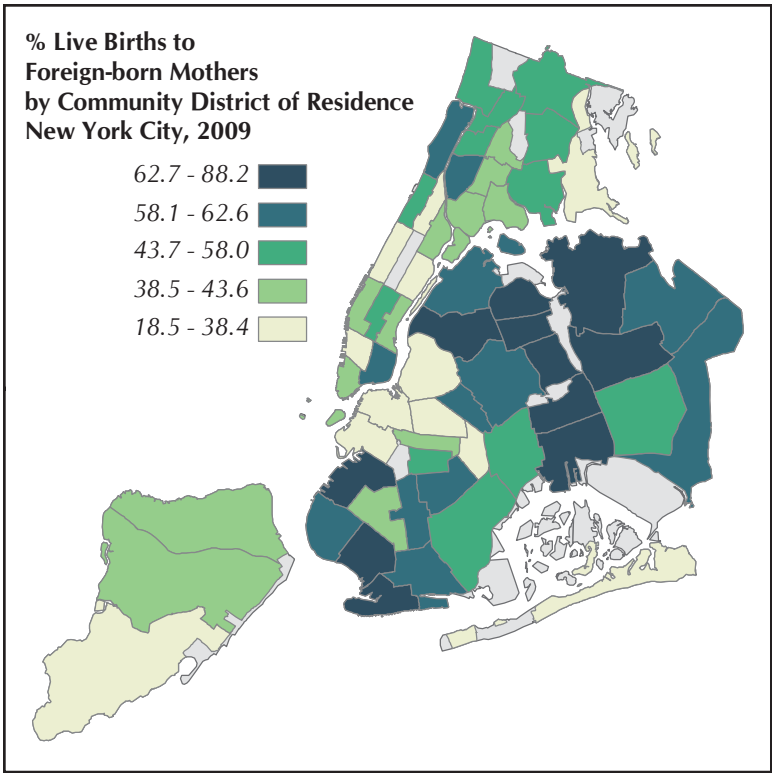
Map 4.2 Percent of Live Births to Foreign-born Mothers by Community District of Residence, New York City, 2009

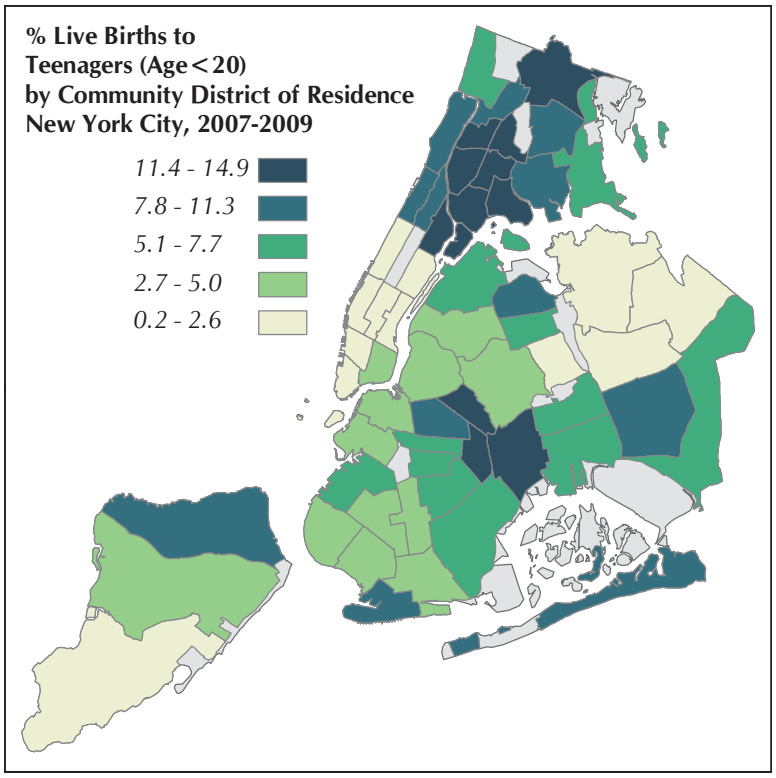
Nearly 51% of live births in New York City in 2009 were to foreign-born women. The distribution among New York City boroughs was 69.3% in Queens, 49.5% in the Bronx, 48.7% in Brooklyn, 43.5% in Manhattan, and 35.2% in Staten Island.

Community districts in the highest quintile of births to foreign-born women were Elmhurst, Corona at 88.2%, followed by Jackson Heights at 83.8%, Flushing at 82.7%, Sunset Park at 78.2%, Sunnyside, Woodside at 77.5%, Bensonhurst at 72.6%, Woodhaven at 70.3%, Fresh Meadows, Briarwood at 70.1%, Rego Park, Forest Hills at 69.6%, and Howard Beach and Coney Island at 64.2%.

Five community districts had less than 30% of their births to foreign-born women: Williamsburg, Greenpoint at 18.5%, Tottenville at 18.8%, Park Slope at 25.0%, Bedford Stuyvesant at 28.2%, and Fort Greene, Brooklyn Heights at 29.8%.

See Table 4.7 on page 75 for additional rates.





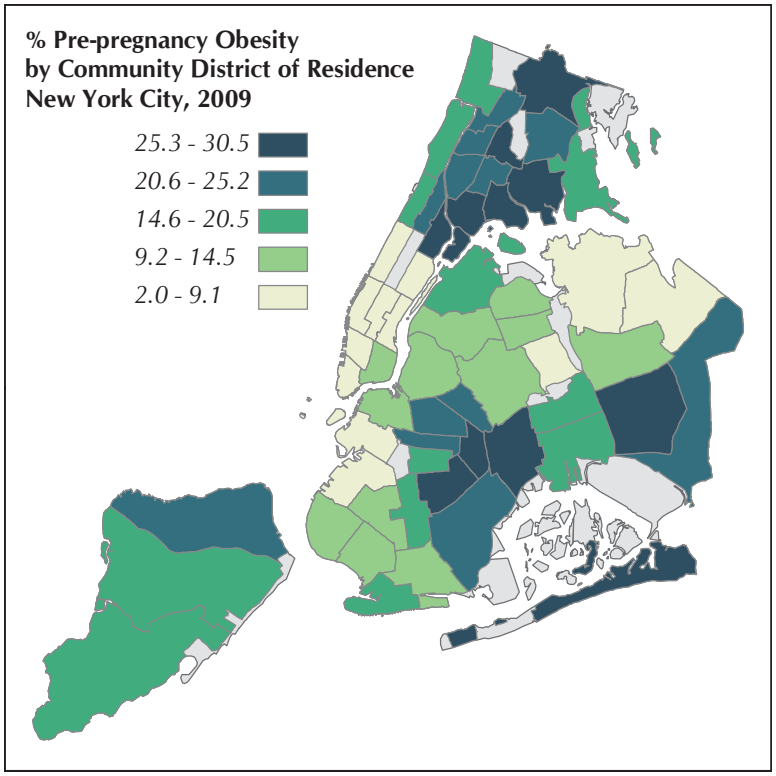
Map 4.3 Percent of Live Births to Teenagers (Age < 20) by Community District of Residence New York City, 2007-2009

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 districts with the highest percent of births to teenagers were Mott Haven at 14.9%, Brownsville at 14.2%, East Tremont at 14.1%, Hunts Point and Morrisania at 13.7%, University/ Morris Heights at 13.2%, East Harlem at 12.3%, Williamsbridge and East New York at 12.0%, and Bushwick at 11.9%.

Nine community districts had less than 2% of their births to teenagers: Battery Park, Tribeca at 0.2%, Greenwich Village, SOHO at 0.3%, Murray Hill at 0.5%, Upper East Side and Rego Park, Forest Hills at 0.9%, Bayside at 1.3%, Tottenville at 1.5%, and Upper West Side and Midtown Business District at 1.9%.

See Table 4.12 on page 83 for additional rates.



Map 4.4 Percent Pre-pregnancy Obesity by Community District of Residence New York City, 2009

The community district with the highest percent of pre-pregnancy obesity was Brownsville at 30.5%. Other community districts in the highest quintile were East Flatbush at 29.2%, East New York at 27.1%, Williamsbridge at 27.0%, East Tremont at 26.7%, The Rockaways at 26.2%, Hunts Point at 26.1%, Mott Haven at 25.9%, East Harlem and Unionport, Soundview at 25.7%, and Jamaica, St. Albans at 25.5%.

The community district with the lowest percent of pre-pregnancy obesity was Battery Park, Tribeca at 2.0%. Other community districts with less than 5% pre-pregnancy obesity include Greenwich Village, SOHO at 2.2%, Midtown Business District at 3.5%, Murray Hill at 3.6%, and The Upper East Side at 3.7%.

See Table 4.7 on page 75 for additional rates.

Table 4.10 Live Births and Pregnancy Rates* to Teenagers (Age 15-19 Years) by Ethnic Group and Borough of Residence, New York City, 2009

	Age of Woman (Years)	Live Births	Spontaneous Terminations	Induced Terminations	Birth Rate per 1,000 Women	Pregnancy Rate per 1,000 Women
New York City †	15-17	2,308	208	5,185	15.4	51.4
	18-19	5,386	423	8,392	51.2	134.9
	Age 15-19	7,694	631	13,577	30.2	85.9
Ethnic Group†						
Hispanic	15-17	1,435	91	1,871	27.4	65.0
	18-19	2,988	176	3,113	81.5	171.2
	Age 15-19	4,423	267	4,984	49.7	108.8
Asian and Pacific Islander	15-17	24	3	157	1.6	11.9
	18-19	131	12	282	11.8	38.2
	Age 15-19	155	15	439	5.8	22.9
Non-Hispanic White	15-17	81	12	329	2.3	12.0
	18-19	431	34	651	15.8	40.8
	Age 15-19	512	46	980	8.2	24.6
Non-Hispanic Black	15-17	724	85	2,707	16.3	79.1
	18-19	1,715	173	4,100	60.5	211.2
	Age 15-19	2,439	258	6,807	33.5	130.5
NYC Events to NYC Residents‡	15-17	2,268	204	4,797	15.1	48.5
	18-19	5,268	415	7,729	50.1	127.4
	Age 15-19	7,536	619	12,526	29.5	81.1
Ethnic Group‡						
Hispanic	15-17	1,417	90	1,775	27.1	62.8
	18-19	2,948	175	2,946	80.4	165.5
	Age 15-19	4,365	265	4,721	49.1	105.1
Asian and Pacific Islander	15-17	23	3	150	1.5	11.4
	18-19	126	12	249	11.3	34.7
	Age 15-19	149	15	399	5.6	21.2
Non-Hispanic White	15-17	77	11	238	2.2	9.3
	18-19	396	29	494	14.5	33.6
	Age 15-19	473	40	732	7.6	19.9
Non-Hispanic Black	15-17	709	83	2,518	15.9	74.4
	18-19	1,683	171	3,818	59.4	200.1
	Age 15-19	2,392	254	6,336	32.9	123.4
Borough of Residence						
Manhattan	15-17	267	12	691	14.6	53.1
	18-19	668	34	1,172	36.5	102.3
	Age 15-19	935	46	1,863	25.5	77.7
Bronx	15-17	813	53	1,316	24.4	65.5
	18-19	1,580	95	2,075	69.2	164.2
	Age 15-19	2,393	148	3,391	42.6	105.6
Brooklyn	15-17	672	85	1,663	13.6	49.1
	18-19	1,808	170	2,586	56.4	142.5
	Age 15-19	2,480	255	4,249	30.5	85.9
Queens	15-17	421	37	903	10.9	35.2
	18-19	995	88	1,609	38.5	104.3
	Age 15-19	1,416	125	2,512	21.9	62.8
Staten Island	15-17	95	17	224	9.3	32.8
	18-19	217	28	287	34.8	85.3
	Age 15-19	312	45	511	18.9	52.7
NYC Events to Non-NYC Residents	15-17	40	4	372	N.A.	N.A.
	18-19	118	8	630	N.A.	N.A.
	Age 15-19	158	12	1,002	N.A.	N.A.

* Population data used to calculate rates are from 2009 US Census Bureau's pre-challenged estimates. See Technical Notes: Population.

† Includes all events occurring in NYC regardless of residence; other/unknown ethnicities are not presented.

‡ Numbers and rates are limited to events occurring in NYC to NYC residents only; other/unknown ethnicities are not presented.

N.A. Not applicable.

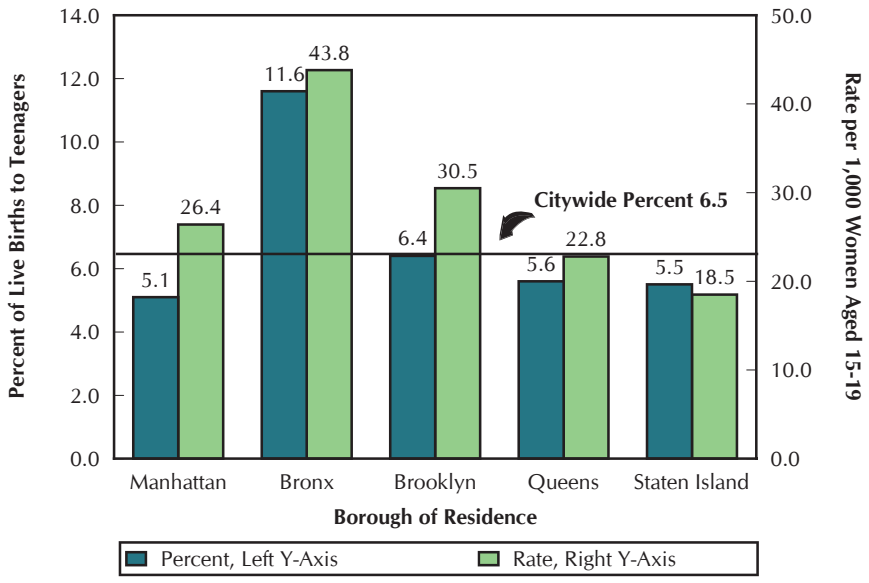


Figure 4.5 Percent and Rate of Live Births to Teenagers (Age < 20 Years) by Borough of Residence, New York City, 2007-2009

In 2007-2009, 11.6% of all live births in the Bronx were to teenagers (age under 20), the highest of the 5 boroughs of New York City. This was about twice as high as the percent of live births to teenagers in Manhattan, at 5.1%; Queens, at 5.6%; and Staten Island, at 5.5%. The percent of live births to teens in Brooklyn was 6.4% during this period. Citywide, the percent of all live births to teenagers was 6.5% in 2007-2009, much lower than the national figure of 10.4% for 2007, the latest year for which data were available.

The birth rate to teenagers aged 15-19 had the same pattern, with the Bronx having the highest rate, 43.8 per 1,000 women, and Staten Island having the lowest, 18.5 per 1,000 women. The citywide birth rate to mothers aged 15-19 years was 30.6 per 1,000 women in 2007-2009.

See "Population - Citywide" in Technical Notes for information about population estimates.

Table 4.11 Live Births to Teenagers (Age < 20 Years), Overall and by Selected Characteristics, New York City, 1996-2009

	Year													
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Total Live Births	126,901	123,313	124,252	123,739	125,563	124,023	122,937	124,345	124,099	122,725	125,506	128,961	127,680	126,774
Percent to Teenagers	10.3	9.6	9.5	9.0	8.6	8.4	7.5	7.1	7.0	7.0	6.9	6.6	6.6	6.2
Population* (Female Age 15-19)	247,972	249,798	251,637	253,490	255,356	245,567	240,565	240,656	241,094	249,546	267,830	271,349	272,575	255,072
Birth Rate† (Age 15-19)	51.2	46.3	46.0	43.1	41.5	41.5	37.8	36.2	35.5	33.8	32.1	31.3	30.5	30.2
Births to Teenagers	13,020	11,793	11,789	11,145	10,800	10,386	9,240	8,831	8,702	8,579	8,695	8,569	8,423	7,806
Percent of Births with Specified Characteristics:														
Hispanic	50.6	50.2	51.9	53.0	53.4	54.1	53.3	55.2	56.4	56.6	56.9	58.1	59.6	59.7
Foreign-Born Mother	31.5	32.6	32.1	33.6	35.1	36.7	36.5	36.5	36.0	36.2	34.0	33.2	31.2	29.2
First Live Birth	80.2	81.5	81.8	82.2	82.9	84.4	84.0	84.4	84.8	84.8	85.8	85.7	86.2	86.2
< 2,500 Grams	9.7	10.8	10.3	10.3	9.7	10.1	10.4	9.7	10.2	10.1	10.5	10.2	10.6	9.8
Preterm‡	10.2	10.9	10.5	10.4	10.6	11.2	10.8	9.8	11.4	10.5	10.4	10.2	10.4	10.0
Not Married	90.7	87.3	88.6	89.0	89.1	88.1	88.4	88.6	88.5	88.7	89.0	89.5	90.1	90.6
On Medicaid§	82.8	81.6	80.2	78.7	79.9	82.0	80.2	80.6	81.7	80.2	80.8	80.1	87.4	88.8
Pre-pregnancy Obesity	–	–	–	–	–	–	–	–	–	–	–	–	14.7	15.5
Infant Mortality Rate||	9.4	9.5	7.5	8.5	8.3	7.4	9.2	8.5	9.9	6.1	7.4	6.8	7.6	8.5

* For denominator information, see Technical Notes: Population.
† Per 1,000 women aged 15-19 years.
‡ Clinical gestational age < 37 completed weeks.
§ See Technical Notes: Births, Birth Reporting.
|| Infant mortality rate per 1,000 live births to teenagers.

Table 4.12 Live Births to Teenagers (Age < 20 Years) by Selected Characteristics by Community District of Residence, New York City, 2007-2009*

Community District of Residence	Live Births	Percent of Total Live Births	Percent of Total Live Births with Specified Characteristics: Mother's Ancestry Hispanic	Foreign Born Mother	First Live Birth†	<2,500 Grams	Preterm Birth (<37 Weeks)	Mother Not Married	On Medicaid‡
NEW YORK CITY	24,798	6.5	59.1	31.3	86.2	10.2	10.2	90.0	85.3
MANHATTAN	3,039	5.0	69.7	29.7	86.9	10.0	10.3	93.7	90.1
Battery Park, Tribeca (01)	5	0.2	40.0	40.0	80.0	–	–	100.0	60.0
Greenwich Village, SOHO (02)	9	0.3	75.0	33.3	100.0	–	–	100.0	66.7
Lower East Side (03)	266	3.9	68.6	22.8	86.5	9.4	9.0	91.7	92.8
Chelsea, Clinton (04)	62	2.3	67.7	11.5	87.1	6.5	11.3	95.2	85.2
Midtown Business District (05)	32	1.9	40.6	25.8	78.1	9.4	12.5	93.8	84.4
Murray Hill (06)	20	0.5	50.0	10.0	95.0	15.0	5.0	95.0	77.8
Upper West Side (07)	162	1.9	67.1	18.8	89.5	11.7	13.0	93.2	83.5
Upper East Side (08)	77	0.9	31.5	10.4	89.6	15.6	9.1	96.1	84.4
Manhattanville (09)	433	10.1	74.7	38.3	88.5	9.5	8.8	94.0	91.2
Central Harlem (10)	507	9.7	37.8	18.4	87.6	11.6	12.4	95.7	87.6
East Harlem (11)	647	12.3	67.5	18.9	83.3	12.8	12.4	93.5	90.7
Washington Heights (12)	819	9.9	94.1	48.8	87.8	6.8	8.4	92.9	92.7
BRONX	7,575	11.5	71.5	27.1	85.6	10.5	9.6	93.9	85.3
Mott Haven (01)	784	14.9	74.5	23.8	83.3	9.6	7.9	95.9	89.9
Hunts Point (02)	399	13.7	79.8	23.8	84.2	10.3	10.5	94.2	87.4
Morrisania (03)	584	13.7	66.8	16.6	86.6	11.8	11.8	95.2	81.3
Concourse, Highbridge (04)	968	11.4	75.7	37.2	84.7	9.1	10.3	93.7	81.7
University/Morris Heights (05)	990	13.2	78.3	33.4	83.6	9.7	9.7	94.4	79.8
East Tremont (06)	627	14.1	75.0	21.7	82.8	10.4	10.4	95.2	83.5
Fordham (07)	808	11.0	84.9	32.3	84.8	10.6	8.7	93.2	86.6
Riverdale (08)	192	5.3	84.0	29.3	90.1	9.9	8.9	89.6	86.2
Unionport, Soundview (09)	904	11.1	71.3	23.2	87.3	11.1	8.1	93.3	90.8
Throgs Neck (10)	241	7.7	60.4	19.2	92.5	12.9	9.5	91.3	83.8
Pelham Parkway (11)	340	7.8	61.5	24.0	87.9	9.4	10.3	88.5	87.4
Williamsbridge (12)	737	12.1	39.9	26.2	88.3	12.5	10.5	94.8	86.8
BROOKLYN	8,041	6.4	44.3	29.6	86.0	10.4	10.7	86.8	88.6
Williamsburg, Greenpoint (01)	456	4.5	67.4	15.5	89.0	9.4	8.3	73.9	87.3
Fort Greene, Brooklyn Heights (02)	191	4.7	38.1	15.2	83.8	7.9	7.9	91.1	88.9
Bedford Stuyvesant (03)	823	11.3	32.5	13.9	85.6	11.3	11.9	92.6	89.3
Bushwick (04)	719	11.9	80.5	36.4	82.0	10.4	10.6	95.0	93.3
East New York (05)	1,054	12.0	44.2	24.5	85.7	11.4	11.3	94.8	84.5
Park Slope (06)	198	3.9	55.9	12.6	89.9	6.6	7.6	92.9	89.3
Sunset Park (07)	512	5.6	84.3	48.6	85.0	7.8	9.0	84.6	93.6
Crown Heights North (08)	344	7.7	15.9	21.9	83.8	11.9	11.9	93.3	88.6
Crown Heights South (09)	282	5.5	17.8	37.2	92.5	13.1	11.7	96.5	88.8
Bay Ridge (10)	162	3.1	50.6	55.1	81.4	8.6	4.3	66.0	89.4
Bensonhurst (11)	245	3.5	56.7	50.6	84.5	13.9	13.1	76.3	88.5
Borough Park (12)	481	3.1	65.2	40.6	89.2	8.1	8.3	48.6	88.8
Coney Island (13)	342	9.5	56.5	30.4	85.4	7.9	10.5	82.5	86.5
Flatbush, Midwood (14)	411	5.0	46.8	48.4	86.9	9.2	12.7	85.6	87.9
Sheepshead Bay (15)	231	3.8	30.7	43.2	79.7	10.8	10.0	59.3	84.8
Brownsville (16)	629	14.2	24.2	13.7	85.7	10.2	9.2	97.1	89.7
East Flatbush (17)	525	7.6	11.9	38.3	89.5	12.8	12.8	96.2	88.3
Canarsie (18)	436	5.6	13.4	20.6	87.8	12.6	14.2	90.8	86.8
QUEENS	4,692	5.6	60.0	43.5	87.0	9.3	9.9	88.6	81.6
Astoria, Long Island City (01)	319	5.1	65.5	35.5	85.9	11.6	10.7	90.3	85.2
Sunnyside, Woodside (02)	151	3.3	84.6	62.3	90.7	6.0	8.7	80.8	87.3
Jackson Heights (03)	674	7.8	92.9	66.7	85.5	7.4	7.9	88.4	90.8
Elmhurst, Corona (04)	561	6.4	90.1	62.7	87.5	4.8	9.1	91.6	89.0
Ridgewood, Glendale (05)	317	4.9	80.1	40.1	88.0	10.1	11.0	84.2	87.0
Rego Park, Forest Hills (06)	34	0.9	46.7	58.8	91.2	5.9	8.8	76.5	67.6
Flushing (07)	206	2.5	68.1	51.0	87.4	9.7	12.6	85.9	77.9
Fresh Meadows, Briarwood (08)	139	2.6	50.0	37.4	91.4	11.5	10.8	77.0	75.0
Woodhaven (09)	435	7.2	71.3	47.6	88.0	9.2	7.6	84.6	73.4
Howard Beach (10)	224	5.1	37.1	42.4	91.5	9.4	10.3	81.3	72.8
Bayside (11)	28	1.3	48.1	25.0	89.3	10.7	10.7	78.6	53.6
Jamaica, St. Albans (12)	833	9.0	30.2	29.3	84.0	9.4	9.1	92.8	77.3
Queens Village (13)	304	5.7	17.2	29.4	88.2	11.2	11.5	91.8	75.3
The Rockaways (14)	467	10.8	30.5	18.2	86.5	14.8	13.9	93.8	81.0
STATEN ISLAND	948	5.5	52.2	29.1	84.5	9.8	10.0	90.7	72.7
Port Richmond (01)	710	9.2	56.7	31.0	83.2	10.8	10.6	92.7	74.6
Willowbrook, South Beach (02)	159	3.6	44.3	28.3	86.2	7.5	9.4	84.9	70.7
Tottenville (03)	77	1.5	27.0	14.5	92.2	5.2	6.5	85.7	59.2
NEW YORK CITY RESIDENTS	24,295	6.9	59.4	31.5	86.1	10.2	10.1	90.4	85.8
NON-RESIDENTS	501	1.6	42.0	19.4	90.4	12.0	13.2	74.3	62.2
RESIDENCE UNKNOWN	2	-	-	-	-	-	-	-	-

Note: 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 of percent of live births to teenagers by community district of residence is presented on page 80 (Map 4.3).

*Three years of data were combined because of the relatively small number of live births per year for teenage mothers.

† See Technical Notes: Changes to Birth Items Reported in Summary Due to Quality Concerns.

‡ Due to revision of the birth certificate, since 2008 "On Medicaid" also includes Family Health Plus, Other govt., and CHPlusB.

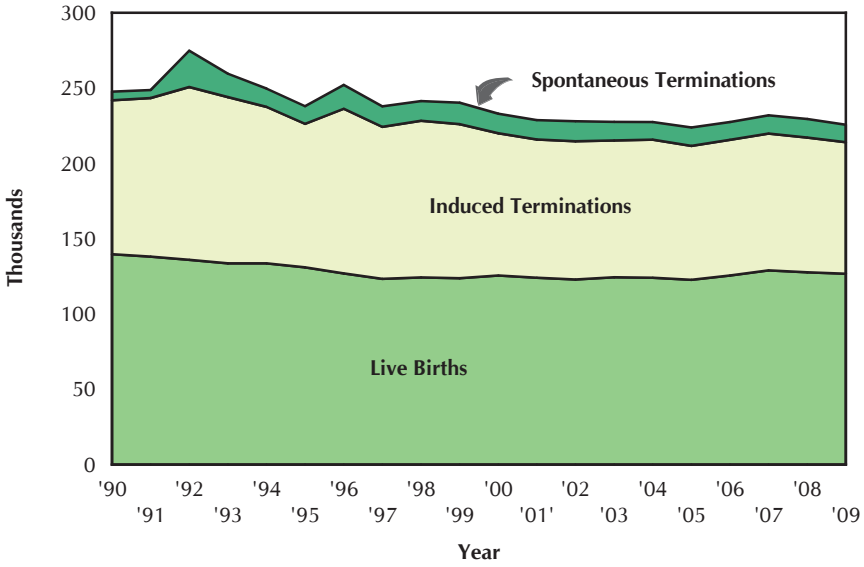


Figure 4.6 Number of Live Births, Induced Terminations, and Spontaneous Terminations, New York City, 1990-2009

Total New York City pregnancies (the sum of reported live births, spontaneous and induced terminations) appears to have decreased since 1992. The number of live births increased in the 1980s and reached its current peak in 1990. (The historic peak was 168,393 in 1961.) Between 1991 and 2005, the number of births decreased incrementally to a low of 122,725. The number of spontaneous and induced terminations also declined through 2004 and 2005 respectively. Since 2005, the number of spontaneous terminations continues to hover near 12,000 per year and induced terminations near 90,000 per year.

All induced and spontaneous terminations, regardless of gestational age or weight, are required to be reported. However, these numbers depend on the agency resources available to perform outreach to the reporting sites.

Note: See Technical Notes for information about Spontaneous and Induced Terminations.

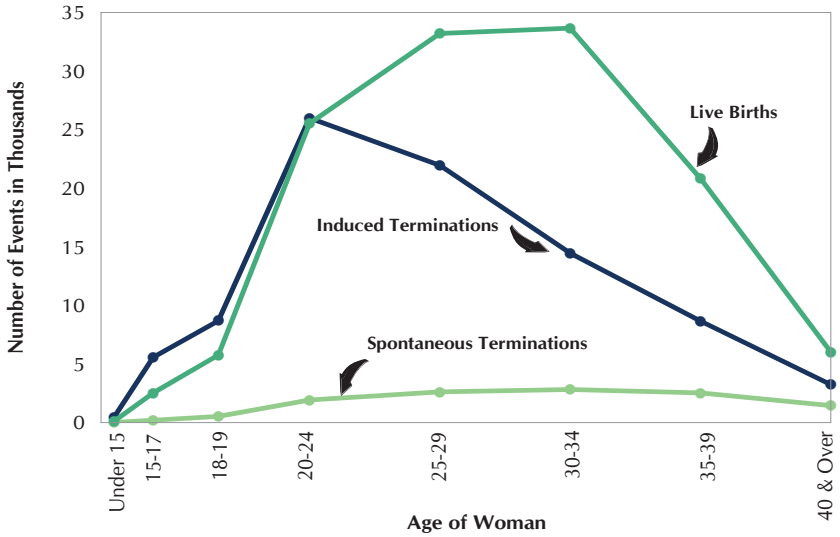


Figure 4.7 Live Births, Induced Terminations, and Spontaneous Terminations of Pregnancy by Age of Woman, New York City, 2009

Over 225,000 pregnancy outcomes were reported in New York City in 2009. Approximately 56% were live births, 39% were induced terminations, and 5% were spontaneous terminations (fetal deaths). The proportion of pregnancies ending in an induced termination is the highest among younger women, and is about 28% at age 30. For women under the age of 25, more pregnancies end in induced termination than in a live birth or spontaneous termination.

All induced and spontaneous terminations, regardless of gestational age or weight, are required to be reported. However, these numbers depend on the agency resources available to perform outreach to the reporting sites.

Table 4.13 Live Births, Spontaneous Terminations, and Induced Terminations of Pregnancy Overall and by Borough of Residence and Age of Woman, New York City, 2009

Borough of Residence / Pregnancy Outcome	Total	Age of Woman (Years)								
		<15	15-17	18-19	20-24	25-29	30-34	35-39	≥40	Unknown or Not Stated
NEW YORK CITY	225,667	590	7,701	14,201	52,163	56,904	51,428	31,419	10,837	424
Live Births	126,774	112	2,308	5,386	24,982	32,799	34,262	20,662	6,262	1
Spontaneous Terminations	11,620	17	208	423	1,816	2,403	2,836	2,433	1,399	85
Induced Terminations	87,273	461	5,185	8,392	25,365	21,702	14,330	8,324	3,176	338
MANHATTAN	33,849	71	970	1,874	6,231	7,280	8,969	6,145	2,254	55
Live Births	20,011	14	267	668	2,491	3,856	6,603	4,541	1,571	–
Spontaneous Terminations	1,569	2	12	34	147	246	452	413	251	12
Induced Terminations	12,269	55	691	1,172	3,593	3,178	1,914	1,191	432	43
BRONX	43,777	165	2,182	3,750	12,214	11,466	8,112	4,307	1,503	78
Live Births	21,857	31	813	1,580	5,733	6,024	4,527	2,420	729	–
Spontaneous Terminations	1,699	3	53	95	355	391	350	281	160	11
Induced Terminations	20,221	131	1,316	2,075	6,126	5,051	3,235	1,606	614	67
BROOKLYN	73,108	180	2,420	4,564	18,171	19,212	15,777	9,443	3,193	148
Live Births	41,803	40	672	1,808	9,636	11,471	10,258	6,097	1,821	–
Spontaneous Terminations	4,076	7	85	170	745	887	951	770	429	32
Induced Terminations	27,229	133	1,663	2,586	7,790	6,854	4,568	2,576	943	116
QUEENS	47,397	115	1,361	2,692	10,712	12,883	10,993	6,439	2,131	71
Live Births	27,374	21	421	995	5,333	8,018	7,478	4,025	1,083	–
Spontaneous Terminations	2,637	4	37	88	396	621	620	546	312	13
Induced Terminations	17,386	90	903	1,609	4,983	4,244	2,895	1,868	736	58
STATEN ISLAND	9,175	20	336	532	1,844	2,302	2,405	1,299	417	20
Live Births	5,707	4	95	217	926	1,546	1,782	897	240	–
Spontaneous Terminations	738	1	17	28	97	156	199	156	76	8
Induced Terminations	2,730	15	224	287	821	600	424	246	101	12
NON-RESIDENTS	18,006	37	416	756	2,894	3,671	5,106	3,756	1,327	43
Live Births	10,020	2	40	118	862	1,884	3,614	2,682	818	–
Spontaneous Terminations	895	–	4	8	75	101	264	265	170	8
Induced Terminations	7,091	35	372	630	1,957	1,686	1,228	809	339	35
RESIDENCE UNKNOWN	355	2	16	33	97	90	66	30	12	9
Live Births	2	–	–	–	1	–	–	–	–	1
Spontaneous Terminations	6	–	–	–	1	1	–	2	1	1
Induced Terminations	347	2	16	33	95	89	66	28	11	7

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

Table 4.14 Spontaneous Terminations of Pregnancy by Gestational Age and Age of Woman, New York City, 2009

Gestational Age (Weeks)	Total	Age of Woman (Years)								
		<15	15-17	18-19	20-24	25-29	30-34	35-39	≥40	Unknown or Not Stated
Total	11,620	17	208	423	1,816	2,403	2,836	2,433	1,399	85
<13	8,796	14	146	323	1,301	1,793	2,105	1,908	1,153	53
13-15	707	–	12	25	108	146	168	159	85	4
16-19	872	2	26	21	174	199	225	161	59	5
20-27	734	–	14	37	127	157	212	120	63	4
≥28	407	1	10	13	85	88	104	73	33	–
Not Stated	104	–	–	4	21	20	22	12	6	19

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

Table 4.15 **Selected Characteristics of Spontaneous Terminations of Pregnancy, ≥28 Weeks Gestation, Overall and by Age of Woman, New York City, 2009**

		Age of Woman (Years)								
	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	≥40	Not Stated
Spontaneous Terminations of Pregnancy, ≥28 Weeks										
Total	407	1	10	13	85	88	104	73	33	–
Sex										
Male	205	1	3	8	41	42	54	34	22	–
Female	197	–	7	5	44	45	49	37	10	–
Undetermined	5	–	–	–	–	1	1	2	1	–
Weight at Delivery (Grams)										
<500	9	–	–	–	–	3	3	3	–	–
500-999	29	–	3	4	4	4	10	4	–	–
1,000-1,499	62	–	–	1	11	19	14	13	4	–
1,500-1,999	56	–	2	–	13	17	10	8	6	–
2,000-2,499	69	–	2	2	19	11	13	11	11	–
≥2,500	147	1	3	5	30	31	40	29	8	–
Not Stated	35	–	–	1	8	3	14	5	4	–

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

Table 4.16 **Selected Characteristics of Spontaneous Terminations of Pregnancy, ≥28 Weeks Gestation, Overall and by Ethnic Group of Woman, New York City, 2009**

		Ethnic Group of Woman						
	Total	Puerto Rican	Other Hispanic	Asian and Pacific Islander	Non-Hispanic White	Non-Hispanic Black	Other	Not Stated
Spontaneous Terminations of Pregnancy, ≥28 Weeks								
Total	407	23	95	34	97	147	–	11
Sex								
Male	205	12	50	22	38	78	–	5
Female	197	11	43	12	57	68	–	6
Undetermined	5	–	2	–	2	1	–	–
Weight at Delivery (Grams)								
<500	9	–	3	–	3	2	–	1
500-999	29	1	5	3	3	17	–	–
1,000-1,499	62	2	13	7	10	29	–	1
1,500-1,999	56	4	14	4	14	19	–	1
2,000-2,499	69	4	16	3	18	25	–	3
≥2,500	147	12	38	13	39	41	–	4
Not Stated	35	–	6	4	10	14	–	1

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

Table 4.17 Live Births, Spontaneous Terminations of ≥28 Weeks Gestation, and Induced Terminations of Pregnancy by Borough of Residence and Occurrence, New York City, 2009

Borough of Residence / Pregnancy Outcome	Total	Borough of Occurrence				
		Manhattan	Bronx	Brooklyn	Queens	Staten Island
NEW YORK CITY	214,454	79,119	30,722	55,675	42,537	6,401
Live Births	126,774	46,028	17,449	33,184	23,998	6,115
Spontaneous Terminations	407	112	79	121	74	21
Induced Terminations	87,273	32,979	13,194	22,370	18,465	265
MANHATTAN	32,336	29,497	1,270	1,007	547	15
Live Births	20,011	19,268	364	242	124	13
Spontaneous Terminations	56	51	4	–	1	–
Induced Terminations	12,269	10,178	902	765	422	2
BRONX	42,159	13,423	27,201	677	849	9
Live Births	21,857	5,441	16,047	172	189	8
Spontaneous Terminations	81	10	70	–	1	–
Induced Terminations	20,221	7,972	11,084	505	659	1
BROOKLYN	69,169	16,936	402	47,129	3,623	1,079
Live Births	41,803	9,635	122	29,774	1,208	1,064
Spontaneous Terminations	137	20	–	113	3	1
Induced Terminations	27,229	7,281	280	17,242	2,412	14
QUEENS	44,843	8,487	362	3,451	32,502	41
Live Births	27,374	5,270	126	1,830	20,108	40
Spontaneous Terminations	83	15	–	3	65	–
Induced Terminations	17,386	3,202	236	1,618	12,329	1
STATEN ISLAND	8,459	1,288	58	2,035	114	4,964
Live Births	5,707	318	13	646	18	4,712
Spontaneous Terminations	22	–	1	2	–	19
Induced Terminations	2,730	970	44	1,387	96	233
NON-RESIDENTS	17,139	9,328	1,398	1,315	4,806	292
Live Births	10,020	6,095	776	520	2,351	278
Spontaneous Terminations	28	16	4	3	4	1
Induced Terminations	7,091	3,217	618	792	2,451	13
RESIDENCE UNKNOWN	349	160	31	61	96	1
Live Births	2	1	1	–	–	–
Spontaneous Terminations	–	–	–	–	–	–
Induced Terminations	347	159	30	61	96	1

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

Table 4.18 Induced Terminations of Pregnancy by Selected Characteristics and Age of Woman, New York City, 2009

		Age of Woman (Years)								
	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	≥40	Not Stated
Induced Termination of Pregnancy, All	87,273	461	5,185	8,392	25,365	21,702	14,330	8,324	3,176	338
Ethnic Group										
Hispanic	28,364	164	1,871	3,113	8,895	6,994	4,290	2,193	719	125
Asian and Pacific Islander	5,212	21	157	282	1,174	1,308	1,054	803	397	16
Non-Hispanic white	9,853	23	329	651	2,574	2,596	1,793	1,291	551	45
Non-Hispanic black	40,798	240	2,707	4,100	11,915	10,020	6,634	3,684	1,364	134
Other	349	5	19	45	90	80	58	39	11	2
Unknown	2,697	8	102	201	717	704	501	314	134	16
Marital Status										
Married	12,395	15	56	220	1,744	3,061	3,339	2,640	1,271	49
Not married	72,962	435	5,055	8,011	23,100	18,173	10,646	5,489	1,820	233
Unknown	1,916	11	74	161	521	468	345	195	85	56
Gestational Age (Weeks)										
≤6	30,249	113	1,161	2,252	8,246	8,284	5,678	3,148	1,247	120
7 - 8	26,135	112	1,357	2,297	7,521	6,574	4,462	2,720	985	107
9 - 10	12,521	77	935	1,414	3,804	2,948	1,854	1,076	366	47
11 - 12	6,593	42	556	854	2,071	1,496	884	487	182	21
13 - 15	4,251	31	408	572	1,341	893	543	324	128	11
16 - 20	4,507	51	494	649	1,493	848	496	314	147	15
≥21	1,979	31	240	273	652	394	203	126	58	2
Unknown	1,038	4	34	81	237	265	210	129	63	15
Type of Termination Procedure										
Suction curettage	65,889	312	3,582	6,053	18,781	16,652	11,207	6,614	2,443	245
Sharp curettage / D+C	1,744	9	91	139	420	391	301	251	130	12
Dilatation and evacuation	10,042	107	1,075	1,401	3,291	2,003	1,154	683	297	31
Intrauterine instillation	22	–	–	3	–	6	9	–	3	1
Hysterotomy / hysterectomy	5	–	–	–	–	1	2	2	–	–
Medical (non-surgical)	9,119	29	408	743	2,737	2,541	1,589	736	289	47
Other	4	–	–	–	–	–	1	2	1	–
Unknown	448	4	29	53	136	108	67	36	13	2

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

Table 4.19 Induced Terminations of Pregnancy by Woman's Marital Status, Age, and Ethnic Group, New York City, 2000-2009

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Marital Status (Percent)										
Married	16.4	15.8	15.8	15.9	14.7	14.3	14.2	13.9	14.2	14.2
Not married	81.0	81.6	82.2	82.1	82.1	83.0	83.6	83.6	83.3	83.6
Unknown	2.6	2.6	2.0	2.0	3.2	2.7	2.2	2.5	2.6	2.2
Age of Woman (Years)										
<15	601	564	506	518	550	524	472	470	457	461
15 - 19	15,497	14,999	14,706	14,487	14,917	14,838	15,058	14,844	14,276	13,577
20 - 24	27,799	27,100	27,076	26,815	27,159	25,905	26,105	26,529	25,998	25,365
25 - 29	22,502	21,549	21,790	21,748	22,038	21,483	22,303	22,389	21,949	21,702
30 - 34	15,735	15,376	15,285	14,833	14,692	14,036	14,183	14,171	14,459	14,330
35 - 39	9,193	8,981	8,989	8,930	8,893	8,594	8,538	8,802	8,665	8,324
≥40	2,953	2,922	3,126	3,166	3,148	3,156	3,119	3,242	3,247	3,176
Unknown	186	301	322	323	276	355	379	423	418	338
Ethnic Group										
Hispanic	31,118	29,684	30,098	29,953	27,946	27,210	29,678	28,896	28,921	28,364
Asian and Pacific Islander	4,873	4,977	5,097	5,341	4,811	4,354	4,959	5,444	5,557	5,212
Non-Hispanic white	10,438	10,220	9,903	9,779	9,426	9,804	9,781	10,221	10,451	9,853
Non-Hispanic black	45,150	44,213	43,912	41,961	39,847	40,227	42,289	42,814	41,857	40,798
Other	532	603	526	597	646	541	635	518	396	349
Unknown	2,355	2,095	2,264	3,189	8,997	6,755	2,815	2,977	2,287	2,697
Total	94,466	91,792	91,800	90,820	91,673	88,891	90,157	90,870	89,469	87,273

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

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.

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

Fertility Rate - Live births per 1,000 women aged 15-44 years.

$$\frac{\text{Live Births}}{\text{Female Population Aged 15-44}} \times 1{,}000$$

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

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

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

TECHNICAL NOTES, 2009

VITAL EVENT REPORTING

The number of births, deaths, and induced and spontaneous terminations of pregnancy are based on certificates filed with the New York City Department of Health and Mental Hygiene (DOHMH). In 2009, most birth certificates and nearly half of the death certificates were filed electronically through the Electronic Vital Events Registration System (EVERS). All induced and spontaneous terminations, regardless of gestational age or weight, are reported and filed on paper. Vital event data are based on the year they occurred in New York City to both residents and non-residents. Any events registered after file closure are excluded from this report. Such late registrations are rare.

New York City Marriages - The Summary includes New York City marital information provided by the New York City Office of the City Clerk. (See Tables 1.1 and 1.3)

POPULATION

Citywide

The New York City Department of City Planning (DCP) provides the Bureau of Vital Statistics with Census Data based on the US Census as of April 1, 2000. The 2000 US Census counted the New York City population at 8,008,278. The US Census Bureau estimates the 2009 population at 8,391,881. Smaller geographical areas and demographic groups are derived by DCP using the Modified Race File from the 2000 Census. Since 2007, tables using citywide population data (except Table 2.25) use city-wide, pre-challenged (July 1st), post-censal population estimates. Pre-challenged estimates improve upon decennial counts. While challenged estimates improve upon pre-challenged estimates, typically they are unavailable when this *Summary* is produced and are not estimated for all years. See the Historical Technical Notes table for past methods.

Race/Ethnicity categories

Beginning with the 2000 Census, respondents could describe themselves and household members as being of more than one race, selecting at least one of six race categories: White, Black, American Indian and Alaska Native, Asian, Native Hawaiian and Other Pacific Islander, and some other race(s). These categories yield 63 possible combinations. Respondents also were asked if they were of Hispanic origin. The resulting responses could be organized into 64 groups. DCP collapses these groups into seven categories: 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, which the DCP refers to as "mutually exclusive race and Hispanic categories. The first four of these categories are reflected in the Vital Statistics Summary variable "ethnic group" with a 5th that combines non-Hispanic American Indian and Alaska Native, non-Hispanic of some other race, non-Hispanic of two or more races and other or multiple race. For more information, see "Race, Ancestry, and Ethnic Group."

Community District

Since 2008, Community District population estimates use United States Census Bureau Population Estimate Program and housing unit data from DCP. The "housing unit method" of estimation allocates the population to Community Districts. The method multiplies the estimated number of households in a given area by an estimate of the population per household. In the intercensal context, housing unit growth, measured by housing permit data, determines the locations of growth. Because these estimates are calibrated to equal United States Census-borough-specific population totals, the borough population per household is fixed. New population estimates are derived using the iterative proportional fitting procedure (IPFP) implemented in SAS® version 9.2. The validity of these estimates depends on vacancy rates, housing unit loss rates, percentage of permits actually constructed, and time to complete construction, which are assumed consistent at the borough level and thus have no affect on the allocation of growth. The method is sensitive to the quality of the housing permit data, which does not identify residential conversions to multiple units. Demographic characteristics are allocated assuming those at the location of growth. Therefore, this approach does not capture intercensal demographic change at the neighborhood level, including change due to migration. See the Historical Technical Notes table for past methods.

Age Categories

To provide information on teen events, 22 age groups, as opposed to the standard 18 age groups found in Table 1.2, are derived for each intercensal year using the housing unit method of estimation (see Community District, above). This approach does not capture intercensal demographic change at the neighborhood level, including change due to migration.

For life expectancy computations, one-year age group populations are based on decennial census counts.

DEMOGRAPHIC CHARACTERISTICS OF VITAL EVENTS

Race, Ancestry, and Ethnic Group

Race and ancestry are two separate items on the certificates. Parents report this information on the birth certificate, while a relative of the decedent usually reports this information to the funeral director on the death certificate. As of 2003 and 2008, the death and birth certificates respectively allow for the selection of multiples races. Responses are coded following rules from the National Center for Health Statistics (NCHS). The ordered selection rules for defining ethnic group first assign Puerto Rican or other Hispanic ethnicities based on ancestry, regardless of race. Then, those of other or unknown ancestries are classified by race as Asian, non-Hispanic white, non-Hispanic black, other/multiple race/unknown.

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. New York City receives enough certificates with ancestry reported as Jewish or Hebrew to warrant inclusion in these tables, notwithstanding the religious meaning of the terms. Persons whose race is black and whose ancestry is American are classified as being of African-American ancestry. See the Historical Technical Notes table for past methods.

Infant's ethnic group, reported in the infant mortality section, is calculated using mother's ethnic group information on the infant's birth certificate. However, in the absence of corresponding birth certificate for an infant death, the information on the death certificate is used to assign ethnic group.

Birthplace

Starting in 2007, mother's birthplace is reported in three categories: United States, including its territories, Foreign, and Not Stated. US Virgin Islands and Guam are included in the birthplace category United States, including its territories.

Decedent's birthplace is reported by country; US Virgin Islands and Guam are included in United States.

GEOGRAPHICAL UNITS

Data Presentation

Tables that include a geographic breakdown by residence (e.g., borough) also show non-resident and residence-unknown categories separately – see Table 2.1 as an example. Tables that do not include a geographic breakdown by residence show all New York City vital events reported, regardless of residence.

Vital events involving New York City residents that occurred outside of New York City are not included in this report, with the exception of Life Expectancy (Tables 2.24, 2.25, and Figure 2.14). Life expectancy calculations use national data from the National Center for Health Statistics and include deaths to New York City residents that occurred outside of New York City. For more information see Life Expectancy.

Place of Death

"Hospital" includes residential units, hospices and other special facilities within the hospital. "Nursing home" includes only sites licensed as Extended Care Facilities by New York State. "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

Since 1996, home births in Tables 4.4 and 4.5 include all events in which the Type of Place was checked as Home regardless of whether the certificate was filed through a hospital. Home Births in Table 4.1 only include those home births that were not filed by an institution, which are typically filed by whomever attended to the birth at home. See the Historical Technical Notes table for past methods.

Borough of residence

Borough of residence and other geographic classifications are based on the usual residence reported on the certificate.

Community District (CD)

Community districts were established by City Charter in 1969 for the delivery of city services. Population figures for these districts are compiled by DCP from census tract and census block data. The sum of the community district populations in each borough may not equal the borough population or the citywide population because Community Districts may cross borough boundaries. Since 1985, assignments to geographic areas smaller than borough, such as community district, are made through the Geosupport Program, which is developed and maintained by the Department of City Planning. Additional information on community district geography can be found at www.nyc.gov/dcp.

DEATHS

Death Reporting

Death certificates must be filed within 72 hours of death or finding the body. In 2009, about half of death certificates were submitted by medical facilities through the Electronic Death Registrations System (EDRS). Additional information on EDRS is available at: www.nyc.gov/evers. With the revision of the death certificate, starting in June 1993, decedent race and ancestry information is reported by funeral directors.

Cause of Death Reporting

The cause of death on the death certificate is completed by a physician or medical examiner. The physician is required to provide the complete sequence of events and/or medical conditions leading to the death. These include the following:

- *immediate cause* – the specific condition that directly preceded the death
- *intermediate cause(s)* – the significant condition(s) that preceded and gave rise to the immediate cause of death
- *underlying cause* – the disease or condition that set off the chain of events leading to death

For further information on how cause of death should be documented, visit www.nyc.gov/evers.

Cause of Death Coding

Since 2007, the reported causes of death are coded using the NCHS automated coding software package SuperMICAR, which classifies conditions according to the International Classification of Diseases (ICD) published by the World Health Organization. A single underlying cause is assigned based on the reported chain of events leading to death. Standardized codes allow for national and international comparisons.

One exception is the "Unintentional Drug-related Overdose Deaths" category presented in the executive summary (see section below "Drug Related Deaths").

Table 2.1 is based on the NCHS List of 113 Selected Causes of Death. Table 3.1 is based on the NCHS List of 130 Selected Causes of Infant Death. Some causes have been added to or dropped from these tables based on their number and importance in New York City.

Death trends across ICD code revision years may display changes in trends that are artifacts of the change in ICD-codes and coding rules. These should be interpreted with caution.

Comparability Ratio

National comparability ratios, last updated in 2003, reflect discontinuities in trend data for the cause of death when a new version of the ICD is implemented. They are presented in this Summary in Tables 2.1, 2.13, and 3.9 to explain changes in following the implementation of the ICD-10 coding system in January 1999.

Comparability ratios measure the net effect of ICD-10 on each cause of death. NCHS determined the causes of death under ICD-10 and ICD-9 for more than 2.3 million 1996 US mortality records and calculated the ratio:

$$\frac{\text{Deaths from cause "i" under ICD-10}}{\text{Deaths from cause "i" under ICD-9}}$$

More information on the ICD-10/ICD-9 comparability ratio can be found at http://www.cdc.gov/nchs/data/nvsr/ nvsr49/ nvsr49_02.pdf..

HIV and AIDS Mortality

Since 1999, with the 10th revision of the ICD code, deaths due to HIV disease (ICD-10 codes B20-B24) are characterized by the resulting disease or condition. See Historical Technical Notes for historical ICD coding of HIV-related deaths.

Maternal Death and Maternal Mortality

Deaths due to "Maternal Causes" use the World Health Organization's definition of maternal mortality, "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 ..." With the 10th revision of the ICD coding system, this category includes codes O00-O95, O98-O99 and A34 (obstetrical tetanus). "Pregnancy, childbirth and the puerperium" (O00-O99) includes deaths to women that occur outside of the time limitation defined by WHO.

External Causes of Death

External causes of death are deaths that result from accidents, suicide, assault, legal intervention, events of undetermined intent, operations of war and their sequelae, and complications of medical and surgical care. The Office of Chief Medical Examiner issues certificates for such deaths. These deaths are categorized by the ICD codes assigned to the underlying cause of death and may not necessarily agree with the manner of death assigned by the medical examiner. See Historical Technical Notes.

Sometimes a cause of death has not been established when the statistical file is closed. Such deaths are classified as "pending final determination" and may later be classified.

Deaths classified as "events of undetermined intent" are considered due to external causes.

Drug-related Deaths

Two definitions of drug-related deaths, excluding homicides, suicides, and undetermined deaths, are presented in this report.

"Mental and behavioral disorders due to use of or accidental poisoning by psychoactive substance excluding alcohol and tobacco" also called "Use of or poisoning by psychoactive substance" combines underlying chronic drug-use ICD codes (F11-F16, F18-F19) and accidental (unintentional) drug-poisoning ICD-10 codes (X40-X42, X44) to estimate overall drug-related deaths. This definition is found in Tables 2.1, 2.7, 2.8, 2.9, 2.10, 2.11, 2.12, and 2.26. "Accidental poisoning by psychoactive substances, excluding alcohol and tobacco", the "accidental" subset of underlying codes (X40-X42, X44) are reported in Tables 2.1 and 2.18. "Mental and behavioral disorders due to the use of psychoactive substance excluding alcohol and tobacco", the "chronic" subset of underlying codes (F11-F16, F18-F19) is found in Table 2.1. However, please use "accidental" (unintentional) and "chronic" subset trend data with caution as changes from manual to automated ICD coding resulted in a re-distribution of chronic causes to acute in 2007 and going forward. See Historical Technical Notes.

"Accidental (unintentional) Drug-related Overdose Deaths," is the definition used in the TCNY 2012 indicator in Priority Area 7, Reduce Risky Alcohol Use and Drug Dependence. Reported in the Summary since 2008, the definition has four modifications from "Mental and Behavioral Disorders due to Use of or Accidental Poisoning by Psychoactive Substance excluding Alcohol and Tobacco" to better capture unintentional/accidental drug overdose: (i) Exclusion of the ".2" extension of the F codes because the extension refers to drug "dependence syndrome" respectively, (ii) Inclusion of X43 because this code captures drugs acting on the autonomic nervous system, and (iii) Inclusion of cases in which X40–X44 are contributing causes of death, but not necessarily underlying causes of death and, (iv) constraining the manner of death to accidental for all deaths that meet these criteria. This definition was developed following an in-depth study conducted by DOHMH examining drug-related death case files. It more accurately specifies accidental (unintentional) drug-related

overdose deaths. This definition cannot be used in other standard vital statistics summary tables as all deaths presented are categorized exclusively by underlying cause.

Deaths due to alcohol and tobacco are reported separately. See Smoking and Alcohol-attributable Mortality below.

Homicide

A homicide is defined as the action of one person causing the death of another regardless of intent (e.g., whether self-defense or justifiable legal intervention). Annual counts of homicides reported by the New York City Police Department (NYPD) differ from the Bureau of Vital Statistics (BVS) counts for a number of reasons outlined below. Nonetheless, reported trends are similar.

NYPD reports homicides as counts of Murder and Non-Negligent Manslaughter using rules and procedures from the Federal Bureau of Investigation's Uniform Crime Reporting System (UCR). The count includes deaths determined to be both criminal and satisfying the UCR guidelines. NYPD judges some homicides as justifiable and report these separately to the FBI. BVS reports a death as a homicide based on the ICD-10 system. All homicides are medical examiner (ME) cases. ICD-10 defines legal intervention 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, deaths from legal intervention have been reported separately in Tables 2.1 and 2.20 and are excluded from the homicide counts in Tables 2.11 and 2.12.

NYPD Murder and Non-Negligent Manslaughter statistics count all murders known to have been committed in New York City regardless of where the death occurred. BVS reports all homicide deaths known to have occurred in New York City regardless of where the crime was committed.

In their annual count NYPD includes homicides known to have occurred within that calendar year by the second week of January of the following year. Any death determined to be a criminal murder outside of that time period will be counted in the year that the determination is made. BVS reports homicide by the date of the death and the Annual count includes any cases reported until the file closes for the year (approximately 10 months after the end of the year).

Sometimes death results from a crime many years after the crime was committed. Other times, a death may be determined a crime years after the death. In either situation, the ME may determine the death a homicide. If classified as a criminal homicide, NYPD will count the death in the year that the determination is made. However BVS will report the homicide by the date of death. In cases where a death is reclassified a homicide after the file closes, the death will be recorded as a homicide on the death certificate but this change will not be reflected in any counts of homicides for the year of death or any other years.

Complications of Medical and Surgical Care

With the 10th revision of the ICD coding system, complications of medical and surgical care are no longer classified as accidents and are now shown separately from accidents (Table 2.22). See Historical Technical Notes.

Motor Vehicle Deaths

The Bureau of Vital Statistics (BVS) methodology for counting Motor Vehicle Deaths differs from the Department of Transportation (DOT) and NYPD in two ways. First, DOT and NYPD do not include deaths resulting from illness while operating a motor vehicle in their traffic fatality count, while BVS does. Second, in cases where serious injury suffered during a motor vehicle accident results in subsequent death (e.g., one month later) the fatality will be counted by DOT and NYPD for the month in which the accident occurred. However, BVS reports deaths by date of death.

World Trade Center (WTC) Deaths

Since 2008, any deaths during the reporting year identified as late-effect WTC deaths are counted in the year of the confirmed death report and in Table 2.1 under Assault (homicide): ICD-10 Code U02. The current total, based on death certificates filed through December 24, 2009, is 2,752. See Historical Technical Notes. Unless otherwise specified, WTC deaths occurring in 2001 are generally not included in Summary tables and figures due to the effect this large number would have on year-to-year trends.

Fatal Occupational Injuries

Tables 2.17 and Figure 2.12 are based on U.S. Department of Labor's Bureau of Labor Statistics. These deaths, unlike NYC Vital Statistics data, include all fatal injuries occurring in New York City regardless of the residence of decedents or location of the deaths. The industry in which the decedent worked and was injured is coded based on the North American Industry Classification System (NAICS). Comparisons by industry before and after 2003 are discouraged because of the substantial coding differences.

For all NYC occurring deaths due to external causes, the Bureau of Vital Statistics reviews autopsy and other reports to determine if the injury occurred at work. Definitions and terminology are based on US Department of Labor's Bureau of Labor Statistics, which may differ from other definitions used in vital statistics.

Smoking- and Alcohol-attributable Mortality

Smoking- and alcohol-attributable deaths represent the number of New York City deaths attributed to exposure to smoking and alcohol respectively. These statistics were computed using similar methodologies.

Smoking-attributable mortality (SAM)

SAM was calculated using CDC's Adult SAMMEC (Smoking-Attributable Mortality, Morbidity, and Economic Costs) program using an attributable fraction formula. New York City sex-specific smoking prevalence was estimated from the New York City DOHMH Community Health Survey (CHS) and computed by the Bureau of Epidemiology. The relative risks (RR) of death for current and former smokers ≥ 35

years of age for 19 smoking-related diseases was estimated from American Cancer Society's Cancer Prevention Study. The smoking-attributable fraction (SAF) for each smoking-related disease and sex is calculated using 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_0 is the percentage of adult never-smokers in New York City; p_1 is the percentage of adult current smokers in New York City; p_2 is the percentage of adult former-smokers in New York City; RR_1 is the relative risk of death for adult current smokers relative to adult never-smokers; and RR_2 is the relative risk of death for adult former-smokers relative to adult never-smokers.

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

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

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. A detailed description of the methodology is available at http://apps .nccd.cdc.gov/sammec.

Alcohol-attributable mortality (AAM)

AAM was calculated using the Alcohol-Related Disease Impact (ARDI) program using an alcohol-attributable fraction (AAF). For conditions that, by definition, are caused by alcohol use, the AAF was set equal to 1.0. For other conditions, especially injuries, ARDI directly estimated the AAF based on direct observations about the relationship between alcohol and a given health outcome. For most chronic conditions, the AAF was indirectly estimated using New York City alcohol prevalence data from the CHS combined with pooled risk estimates from large meta-analyses using the following formula:

$$AAF = [\, p(RR - 1)] / [1 + (p(RR - 1)],$$

where p is the percentage of New York City men and women age 20 years and older who consume alcohol at a specified level of average daily alcohol consumption within a given year, and RR is the likelihood of death from a particular condition at a specified level of average daily alcohol consumption. To estimate AAM, AAFs were multiplied by the number of New York City deaths for specific causes defined by CDC's National Center for Chronic Disease Prevention and Health Promotion. Detailed description of the methodology is available at http://apps.nccd.cdc.gov/ardi/ HomePage.aspx.

Age at Death

For ages greater than one year, decedent's age is based on age at last birthday. Unknown ages are not recoded.

Life Expectancy

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 calculation requires counts and mortality figures for the desired subgroups. Life expectancy is estimated by ethnic group instead of race to ascertain differences among Hispanics, non-Hispanic whites and non-Hispanic blacks. Life expectancy tables by race/ethnicity for New York City are generally presented for census years when accurate population data are available (Table 2.24). The mortality experience for the census year, the year before, and the year after is used to smooth statistical variation. To enable comparison, life expectancy for 1990 was recalculated by ethnic group.

The World Trade Center disaster deaths are not included in calculation of life expectancy in Table 2.24.

Table 2.25 provides annual life expectancy by age and sex so the viewer can see trend data. Here life expectancy is estimated using single year death data. This results in slight differences in life expectancy estimates for 2000 in tables 2.24 and 2.25. Table 2.25 does not include life expectancy for 2009 because national data are required and not yet available.

Historical Hispanic ancestry data and life expectancy estimates should be interpreted with caution. In addition to changes in collection of Hispanic ancestry information, Hispanic immigration patterns may result in overestimated life expectancy if Hispanics move out of the US before death at a greater rate than other ethnic groups. The Hispanic population tends to be younger than other ethnic groups, which may lead to underestimates of Hispanic death rates and overestimates of Hispanic life expectancy.

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 effect of premature mortality on a population. YPLL is often calculated using a cutoff age, 65 or 75, as follows:

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

where i is the midpoint of the grouped year of age at death and d_i is the number of deaths at grouped year of age i. YPLL can be calculated for specified causes of death. In Table 2.26, age 75 is used as the cut-off age and single year of age is used in calculation. Therefore i is single year of age under 75.

Infant Mortality

The infant mortality rate is 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.

All characteristics of infant deaths are drawn from the death certificate except ethnicity, birthweight, and gestational age, which derive from the child's birth certificate. However, in the absence of corresponding birth certificate for an infant death, the information on the death certificate is used to assign ethnic group.

BIRTHS

Birth Reporting

All births must be filed within five business days of the event. Over 99% of New York City births occur in hospitals and birthing facilities. The birth certificate is comprised of two parts: the certificate of birth and the confidential medical report of birth. Hospital procedures vary regarding data collection for birth registration. Data are generally collected using two worksheets: mother/parent and facility worksheets generally corresponding to the certificate of birth and the confidential medical report of birth respectively. Guides for the completion of the birth certificate and data entry can be found at http://www.nyc.gov/evers. Starting in January, 2008, the Bureau of Vital Statistics requires all hospitals registering more than 100 births per year to use the Electronic Birth Registration System (EBRS).

Along with the introduction of EBRS in January 2008 came the revised birth certificate based on the recommended 2003 US Standard Certificate of Live Birth (http://www.cdc.gov/nchs/data/dvs/birth11-03final-ACC.pdf). Variables were added, changed, and removed from the certificate. For example, "Primary payer" item replaced "Primary Financial Coverage" and includes Medicaid and other government insurance (Family Health Plus, Child Health Plus B), Private Insurance, Military Insurance (CHAMPUS/TRICARE), Self-pay, other and unknown options. For more detailed information on birth certificate revisions, please see Technical Notes from the 2008 Summary of Vital Statistics http://www.nyc.gov/html/doh/downloads/pdf/vs/2008sum.pdf.

Data Presentation

Starting with the 2007 summary, items with unknown/not stated values are excluded from the denominator when calculating percentages. This affects the following Tables: 4.6, 4.7, 4.11, 4.12; Maps: 4.1, 4.2, 4.3, 4.4.

Changes to Birth Items Reported in the Summary Due to Data Quality Concerns

A combination of poor data quality and hospital staff adaptation to the EBRS data entry system and worksheets continued to affect data quality in 2009.

The increasing number of women categorized with ethnicity "not stated" in Tables 4.3 and 4.5, resulted from increased reporting of "unknown" race in electronically filed records. In Tables 4.2 and 4.6, the number of women categorized as reporting "other" ancestry has increased due to data entry errors. In Table 3.11 and Figure 4.3, "Other or Unknown" includes "two or more races" and demonstrates the increase due to increased reporting of "unknown" race and data entry errors in the "other" category. This slightly affected the overall distribution of live births by ancestry. In Tables 4.4 and 4.5, Mother's Total Live Births Including This One is reported as First Live Birth Yes/No instead of categorically and Late or No Prenatal Care is not reported. See Historical Technical Notes.

Mother's Marital Status

The New York City DOHMH is prohibited by local law from recording mother's marital status on the record or report of birth. For this summary, these data are estimated and should be interpreted with caution. Since 1997, marital status is computed using the following algorithm: certificates without the father's name and those with the father's name that are accompanied by an Acknowledgment of Paternity are categorized as non-married; all others are categorized as married. See Historical Technical Notes.

Teen Births

Teen birth counts include all births occurring to women under the age of 20 (see tables 4.11 and 4.12). Teen birth rates are limited to teens ages from 15 to 19 (Tables 4.10 and 4.11) for whom population denominators can be applied to compute a reliable rate.

Gestational Age

Gestational age, or clinical estimate of gestation, is defined as the best obstetric estimate of the infant's gestation in completed weeks based on the birth attendant's final estimate of gestation. Characteristics of live births and/or infant deaths in the Tables 4.4-4.7, 4.11, 4.12, 3.4 and 3.5 and Figure 4.4, respectively, include either gestational age categories or a dichotomous indicator of preterm (< 37 weeks gestation) birth. In 2007, the range for valid gestational age was changed from 20-44 weeks to 17-47 weeks.

INDUCED AND SPONTANEOUS TERMINATIONS OF PREGNANCY

Induced and Spontaneous Terminations of Pregnancy reporting

Induced terminations of pregnancy must be filed with the Bureau of Vital Statistics (BVS) within five days of the event. The confidential certificate does not contain the woman's name or identifying information and is collected for the compilation of public health statistics and scientific purposes. Spontaneous terminations of pregnancy, or fetal deaths, are required to be filed within 72 hours, regardless of gestational age. Like the birth certificate, the spontaneous termination of pregnancy certificate has two parts: the certificate and the confidential medical report. The certificate is available to the mother, while the information contained in the confidential medical report is collected for the compilation of public health statistics and scientific purposes.

By law, all terminations must be reported. However, the number of induced and spontaneous terminations filed depends to some extent on the amount of outreach to facilities conducted by BVS. Spontaneous and induced terminations reported for a given year include events occurring in the year of report and registered prior to the official closing date for that year of report. See Historical Technical Notes.

HISTORICAL TECHNICAL NOTES

Subcategory	Description	Summary Year
POPULATION		
Citywide	The 2005-2006 Annual Summaries use post 2000 census estimates for citywide, county (borough), 5-year age group, ethnic group and sex population counts; year 2000 census counts are used for smaller geographic units such as Community Districts or single-year age groups. The current year population counts used pre-challenged census estimates; prior year population counts used post-challenged census estimates in addition to Census 2000 data.	2005-2006
	Population counts used US Census citywide decennial population counts.	2000–2004
	Intercensal counts were estimated using an exponential formula, which assumes that the growth rate was the same throughout the decade: pop(t1)/pop(t0) = ert (where r is a constant growth rate and t is the time interval).	Intercensal years between 1990 and 2000
	Intercensal counts were estimated using a linear interpolation.	Intercensal years prior to 1990
	The population counts for years 1960, 1970, 1980, 1990 and 2000 were US Census counts.	1960, 1970, 1980, 1990, 2000
Smaller Geographic Area	Population estimates for Health Center District (HCD) were not computed in time for the release of this report. As a result, Health Center District tables present rates are either replaced (Table 7) or do not present rates (Table 34).	2008
	Health Center district: Health Center district data were presented in addition to Community District data. Populations for geographic area smaller than borough were based on decennial census data.	Prior to 2008
Race/Ethnic group	Census data is used to define race and ethnic distribution; in 2002, the Census Bureau issued the modified Race File resulting in a 65% reduction in Other and Multiple Race, a 6% increase in Asian and Pacific Islander, and 3% increases for non-Hispanic white and non-Hispanic black. There was no change for Hispanic population.	2000-2001
DEMOGRAPHIC CHARACTERISTICS OF VITAL EVENTS		
Race, Ancestry, and Ethnic Group	The death certificate allowed for the selection of a single race category.	Prior to 2003
	The birth certificate allowed for the selection of a single race category.	Prior to 2008
	The meaning of ancestry was clarified with hospitals, resulting in a notable increase in Hebrew and Jewish ancestry and a decrease in American ancestry.	1999
Birthplace	Mother's birthplace is reported in four categories: United States other than Puerto Rico, Puerto Rico, Foreign and Not Stated. US Virgin Islands and Guam are included in the "Foreign" category.	1991-2006
	Decedent's birthplace is first reported by country in 2000. US Virgin Islands and Guam were included in the "Other" category.	2000 - 2006
GEOGRAPHICAL UNITS		
Community District	Community districts are referred to by number prior to 2003 and by name after.	Prior to 2003
Place of Birth	Prior to 1996, all reports of home births included only events filed outside the hospital.	Prior to 1996

Subcategory	Description	Summary Year
DEATHS		
Death Reporting	Medical certifier provided race and ancestry information.	Prior to 1993
Race/Ethnicity	The death certificate was revised in June 1993 to require funeral directors to provide ancestry information, presumably from decedents' family members.	1993 - present
	Medical certifier provided ancestry information.	Prior to 1993
Cause of Death Coding	ICD-coding was conducted manually by an NCHS certified nosologist.	Prior to 2007
HIV and AIDS	In 1987, NCHS introduced code 042 for AIDS and 043-044 for other HIV disease deaths. Additional information on historical HIV coding can be found in the 1997 and 1998 Annual Summaries.	1987 to 1999
	AIDS was recognized as a cause of death and coded as ICD-9 code 279.1.	1983 to 1986
External Causes	External Causes were not shown separately.	Prior to 1990
Drug-related Deaths: ICD Coding	Errors in ICD-coding prior to 2007 effected the distribution of chronic and acute drug-related deaths in "Accidental" and "Chronic" Subsets of Drug deaths may not be comparable before and after 2007. Interpret trends with caution. See Technical Notes, 2007 for details.	2006-2008
Maternal Deaths and Maternal Mortality	Currently labeled "Maternal deaths" were "Complications of pregnancy, childbirth and the puerperium" prior to 1999.	Prior to 1999
Accidents (Unintentional)	The site of accidents (home and public place) has been dropped due to unreliable reporting.	Prior to 1999
	Complications of medical care and surgical care were classified as accidents per ICD-9.	Prior to 2000
World Trade Center Deaths	See Technical Notes, 2009 regarding late effect WTC-deaths.	2008-present
	In 2007, a 2002 death was reclassified as a WTC death. In 2008, a 2001 death was reclassified as a 2001 WTC death. In 2008, a missing person was classified as a 2001 WTC death per New York State Supreme Court.	2007, 2008
	In 2002, the number of WTC deaths included in 2001 deaths was updated from 2,740 to 2,749. This new number included six additional death certificates filed through October 31, 2003 and three deaths that occurred outside of New York City (See 2002 Special Section for details).	2002
Fatal Occupational Injuries	The industry in which the decedent worked and was injured was coded based on the Standard Industrial Classification (SIC).	Prior to 2003
World Trade Center Deaths and Life Expectancy	Impact of World Trade Center deaths on life expectancy.	2002 (Special Section)

HISTORICAL TECHNICAL NOTES (CONTINUED)

Subcategory	Description	Summary Year
BIRTHS		
Mother's Marital Status	Mother's Marital Status was computed using an algorithm developed by NCHS. A 1996 review of marital status indicated that the number of non-marital births was being overestimated. See Special Note on Mother's Marital Status in the 1997 Annual Summary for details.	Prior to 1997
2008 Revised NYC Birth Certificate	For comprehensive information on the 2008 revision of the NYC birth certificate, please see the Technical Notes from the 2008 Summary of Vital Statistics http://www.nyc.gov/html/doh/downloads/pdf/vs/2008sum.pdf	2008
INDUCED AND SPONTANEOUS TERMINATION OF PREGNANCY		
Reporting	Late induced and spontaneous terminations of pregnancy received after the annual file closed were added to the following year's data.	Prior to 2008

INDEX TO TABLES FROM THE *SUMMARY OF VITAL STATISTICS, 2008*

INDEX TO TABLES FROM THE *SUMMARY OF VITAL STATISTICS, 2008* (CONT.)

INDEX TO NEW TABLES, FIGURES, AND MAPS

Mortality

Infant Mortality

New York City Certificates of Birth, Death, Spontaneous Termination and Induced Termination of Pregnancy

New York City data on births, deaths and spontaneous and induced terminations of pregnancy are derived from vital event certificates filed with the New York City Department of Health and Mental Hygiene. Samples are displayed on the pages that follow. Birth and termination of pregnancy certificates are required to be filed regardless of gestational age.

Birth Certificate

Birth certificates must be filed within five business days of the event. Over 99% of New York City births occur in hospitals and birthing facilities. The birth certificate is comprised of two parts: the certificate of birth and the confidential medical report of birth. On January 1, 2008, the Bureau of Vital Statistics launched the Electronic Birth Registration System (EBRS), a new component of the web-based Electronic Vital Events Registration System (EVERS). All hospitals registering more than 100 births per year were mandated to provide birth certificate data using this new electronic system. With this launch came the revised birth certificate based on the recommended 2003 US Standard Certificate of Live Birth (http://www.cdc.gov/nchs/data/dvs/birth11-03final-ACC.pdf).

- The certificate of birth is the legal record. Hard copy certificates are signed and electronic certificates are biometrically authenticated by the medical provider (physician or midwife) or an official representing the medical provider and filed with the New York City Department of Health and Mental Hygiene.
- The confidential medical report, used for the compilation of public health statistics and scientific purposes, collects parents' demographic information, mother's prenatal history and care, information on financial coverage, maternal morbidity, labor and delivery, and condition and treatment of the infant during, and immediately after, birth. These data are collected from the mother, the mother's and infant's medical records, and medical providers.

Death Certificate

Death certificates must be filed within 72 hours of death or finding the body. There are two forms, one for natural causes and one for medical examiner cases. For natural cause certificates only, the Electronic Vital Events Registration System's (EVERS) Electronic Death Registrations System (EDRS) has been available for voluntary use by hospitals since 2005.

- Natural cause practitioner certificates - Most (85%) of deaths are due to natural causes and are completed by the attending physician or his or her authorized medical associate.
- Medical examiner certificate of death - When the cause of death is an accident, homicide, suicide, unattended or due to certain other circumstances (approximately 15% of deaths), the New York City Office of Chief Medical Examiner (OCME) completes the medical examiner certificate of death and supplementary report.

The two forms are similar. Both collect important information pertaining to the fact of death (person, place and time of death). Both collect 'personal particulars' which include items such as decedent's Social Security number, address, birth place, education, marital status, informant's information and place of disposition. The personal particulars are typically provided by the family of the decedent through the funeral home. Both collect cause of death which is completed by the physician or a medical examiner. On the natural cause certificate, the cause of death is entered on the confidential medical report, the OCME certificate, and on the certificate itself. In addition to cause of death, the OCME certificate collects information on the circumstances of external causes of death. The OCME certificate indicates manner of death: natural, accident, homicide, suicide or undetermined. The confidential medical report information is for the compilation of public health statistics and scientific purposes.

Spontaneous Termination of Pregnancy Certificate

Data collection on spontaneous terminations of pregnancy events is required to be completed on all fetal deaths regardless of gestational age and filed with the New York City Department of Health and Mental Hygiene within 72 hours of the event. Similar to the birth certificate, the spontaneous termination of pregnancy certificate has two parts, the certificate and the confidential medical report. The certificate is available to the mother. The confidential medical report information is collected for the compilation of public health statistics and scientific purposes.

Induced Termination of Pregnancy Certificate

Data collection for induced terminations of pregnancy are required to be completed and filed with the New York City Department of Health and Mental Hygiene within 5 days of the event. The certificate does not contain the woman's name or identifying information. It is confidential and only collected for the compilation of public health statistics and scientific purposes.

VR-6S
(Rev. 12/09)

DATE FILED

THE CITY OF NEW YORK – DEPARTMENT OF HEALTH AND MENTAL HYGIENE

CERTIFICATE OF BIRTH

CERTIFICATE NO.

THIS CERTIFICATE NOT VALID UNLESS FILED IN THE DEPARTMENT OF HEALTH AND MENTAL HYGIENE
Typewrite or print with black fine point ink. Certificates containing alterations or omissions are unacceptable.

Please complete the following:
Has parent approved assignment of SSN for child? YES ☐ NO ☐

Mother/Parent's SSN: _____ Father/Parent's SSN: _____

Cert. No. _____ Place: _____ Died: Date: _____

1. NAME OF CHILD (First, Middle, Last)

2. SEX

3a. NUMBER DELIVERED of this pregnancy

3b. If more than one, number of this child in order of delivery

4a. DATE OF CHILD'S BIRTH (Month) (Day) (Year - yyyy)

4b. TIME ☐ AM ☐ PM

5. PLACE OF BIRTH

5a. NEW YORK CITY BOROUGH

5b. Name of Hospital or other facility (if not facility, street address)

5c. TYPE OF PLACE ☐ Hospital ☐ Freestanding Birthing Center ☐ Clinic/Doctor's Office ☐ Other-specify: _____

☐ Home Delivery: Planned to deliver at home? ☐ Yes ☐ No ☐ Unknown

6a. MOTHER/PARENT'S NAME (Prior to first marriage) (First, Middle, Last) SEX ___M ___F

6b. MOTHER/PARENT'S DATE OF BIRTH (Month) (Day) (Year - yyyy)

6c. MOTHER/PARENT'S BIRTHPLACE City & State or foreign country

7. MOTHER/PARENT'S USUAL RESIDENCE a. State b. County

7c. City or town

7d. Street and number Apt. No. ZIP Code

7e. Inside city limits of 7c? Yes ☐ No ☐

8a. FATHER/PARENT'S NAME (Prior to first marriage) (First, Middle, Last) SEX ___M ___F

8b. FATHER/PARENT'S DATE OF BIRTH (Month) (Day) (Year - yyyy)

8c. FATHER/PARENT'S BIRTHPLACE City & State or foreign country

9a. NAME OF ATTENDANT AT DELIVERY ☐ M.D. ☐ D.O. ☐ Lic. Midwife ☐ RPA ☐ R.N. ☐ Other-Specify _____

9b. I CERTIFY THAT THIS CHILD WAS BORN ALIVE AT THE PLACE, DATE AND TIME GIVEN ☐ M.D. ☐ D.O. ☐ Hosp. Admin. ☐ Lic. Midwife ☐ RPA ☐ R.N. ☐ Other-Specify _____

Signed _____

Name of Signer _____ (Type or Print)

Address _____

Date Signed _____, Year - yyyy _____

Mother/Parent's Current (First, Middle, Last) Legal Name _____

Address _____ Apt. _____

City _____ State _____ ZIP _____

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(Rev. 12/09)

THE CITY OF NEW YORK – DEPARTMENT OF HEALTH AND MENTAL HYGIENE

(Each question MUST be answered)

CONFIDENTIAL MEDICAL REPORT OF BIRTH (1 of 2)

Only for scientific purposes approved by the Commissioner. Not open to inspection or subject to compelled disclosure.

NAME OF CHILD _____ CHILD'S MEDICAL RECORD NO. _____ CERTIFICATE NO. _____

MOTHER'S/PARENT'S MEDICAL RECORD NO. _____ MOTHER'S/PARENT'S TELEPHONE NUMBERS: Day ( ) _____ Evening ( ) _____

10. PARENT'S RACE

Race as defined by the U.S. Census
(Check **one or more** to indicate what the parent considers her/himself to be)

a. Mother/Parent **b. Father/Parent**

- ☐ White ☐
- ☐ Black or African American ☐
- ☐ American Indian or Alaska Native ☐

Name of enrolled or principal tribe

_____ (Mother/Parent) _____ (Father/Parent)

- ☐ Asian Indian ☐
- ☐ Chinese ☐
- ☐ Filipino ☐
- ☐ Japanese ☐
- ☐ Korean ☐
- ☐ Vietnamese ☐
- ☐ Other Asian ☐

Specify

_____ (Mother/Parent) _____ (Father/Parent)

- ☐ Native Hawaiian ☐
- ☐ Guamanian or Chamorro ☐
- ☐ Samoan ☐
- ☐ Other Pacific Islander ☐

Specify

_____ (Mother/Parent) _____ (Father/Parent)

- ☐ Other ☐

Specify

_____ (Mother/Parent) _____ (Father/Parent)

11. PARENT'S ANCESTRY

(Check **one** box and specify what the parent considers her/himself to be)

a. Mother/Parent **b. Father/Parent**

Hispanic (Mexican, Puerto Rican,
☐ Cuban, Dominican, etc.) ☐

Specify

_____ (Mother/Parent) _____ (Father/Parent)

NOT Hispanic (Italian, African American,
Haitian, Pakistani, Ukranian,
☐ Nigerian, Taiwanese, etc.) ☐

Specify

_____ (Mother/Parent) _____ (Father/Parent)

12. PARENT'S LENGTH OF TIME IN US

a. Mother/Parent: If born outside of the United States, how long lived in U.S.?
years _____ **or** if < 1 yr, months _____

b. Father/Parent: If born outside of the United States, how long lived in U.S.?
years _____ **or** if < 1 yr, months _____

13. PARENT'S EDUCATION

(Check the box that best describes the highest degree or level of school completed at time of delivery)

a. Mother/Parent **b. Father/Parent**

- ☐ 8th grade or less; none ☐
- ☐ 9th-12th grade, no diploma ☐
- ☐ High school graduate or GED ☐
- ☐ Some college credit, but no degree ☐
- ☐ Associate degree (e.g., AA, AS) ☐
- ☐ Bachelor's degree (e.g., BA, AB, BS) ☐
- ☐ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA) ☐
- ☐ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD) ☐

14. PARENT'S OCCUPATION

a. Was mother/parent employed during pregnancy? Yes ☐ No ☐

	1. Current/most recent occupation	2. Kind of busines or industry
b. Mother/Parent		
c. Father/Parent		

15. PRENATAL HISTORY

a. 1. Total Number of Previous Live Births _____ ☐ None
2. Number Born Alive and Now Living _____ ☐ None
3. Number Born Alive and Now Dead _____ ☐ None

b. Those born alive may have been Preterm, Low Birth Weight or both. Please indicate:
1. Number Preterm (< 37 wks.) _____ ☐ None
2. Number Low Birth Weight (< 2500 grams or 5 lbs. 8 oz.) _____ ☐ None

c. 1. Total Number of other Pregnancy Outcomes (Spontaneous or Induced Terminations): _____ ☐ None
2. Number of Spontaneous Terminations of Pregnancy less than 20 Weeks _____ ☐ None
3. Number of Spontaneous Terminations of Pregnancy 20 Weeks or More _____ ☐ None
4. Number of Induced Terminations of Pregnancy _____ ☐ None

d. Date of First Live Birth (mm/yyyy) ____/____

e. Date of Last Live Birth (mm/yyyy) ____/____

f. Date of Last other Pregnancy Outcome (mm/yyyy) ____/____

g. Date Last Normal Menses began (mm/dd/yyyy) ____/____/____

16. PRENATAL CARE

a. Total Number of Prenatal Visits for this Pregnancy
☐ None _____

b. Date of First Prenatal Care Visit
(mm/dd/yyyy) _____/_____/_____

c. Date of Last Prenatal Care Visit
(mm/dd/yyyy) _____/_____/_____

d. Primary Prenatal Care Provider Type
(Check **one**)

- ☐ MD/DO
- ☐ C(N)M/NP/PA/Other Midwife
- ☐ Clinic
- ☐ No Provider
- ☐ No Information
- ☐ Other

e. Risk Factors in this Pregnancy
(Check **all** that apply)

- ☐ Pre-pregnancy diabetes
- ☐ Gestational diabetes
- ☐ Pre-pregnancy hypertension
- ☐ Gestational hypertension
- ☐ Cardiac disease:
  - ☐ Structural defect
  - ☐ Functional defect
- ☐ Other serious chronic illness
- ☐ Anemia (Hct.<30/Hgb.<10)
- ☐ Asthma/Acute or chronic lung disease
- ☐ Rh sensitization
- ☐ Polyhydramnios
- ☐ Oligohydramnios
- ☐ Hemoglobinopathy
- ☐ Abruptio placenta
- ☐ Eclampsia
- ☐ Other previous poor pregnancy outcome
- ☐ Prelabor referral for high risk care
- ☐ Other vaginal bleeding
- ☐ Previous cesarean section: Number _____
- ☐ Infertility treatment:
  - ☐ Fertility drugs, artificial/intrauterine insemination
  - ☐ Assisted reproductive technology (e.g., IVF, GIFT)
  - Number of embryos implanted (if applicable) _____
- ☐ Fetal reduction
- ☐ None of the above

f. Infections Present and/or Treated During Pregnancy
(Check **all** that apply)

- ☐ Gonorrhea
- ☐ Syphilis
- ☐ Herpes Simplex (HSV)
- ☐ Chlamydia
- ☐ Hepatitis B
- ☐ Hepatitis C
- ☐ Tuberculosis
- ☐ Rubella
- ☐ Bacterial Vaginosis
- ☐ None of the above

g. 1. Cigarette Smoking in the 3 Months Before or During Pregnancy?
☐ Yes ☐ No

If Yes, Average Number of Cigarettes or Packs/Day (enter 0 if None)

	Cigarettes **or** Packs/Day
2. 3 mo. before pregnancy	_____ **or** _____
3. First 3 mo. of pregnancy	_____ **or** _____
4. Second 3 mo. of pregnancy	_____ **or** _____
5. Third trimester of pregnancy	_____ **or** _____

h. Alcohol Use During This Pregnancy?
☐ Yes ☐ No

i. Illicit and other Drugs Used During This Pregnancy?
☐ Yes ☐ No
If yes, check **all** that apply

- ☐ Heroin
- ☐ Cocaine
- ☐ Methadone
- ☐ Methamphetamine
- ☐ Marijuana
- ☐ Sedatives
- ☐ Tranquilizers
- ☐ Anticonvulsants

j. Mother/Parent Pre-Pregnancy Weight _____ pounds

k. Mother/Parent Height _____ feet _____ inches

l. Obstetric Procedures
(Check **all** that apply)

- ☐ Cervical cerclage
- ☐ Tocolysis
- ☐ External cephalic version:
  - ☐ Successful
  - ☐ Failed
- ☐ Fetal genetic testing
- ☐ None of the above

m. If woman was 35 or over, was fetal genetic testing offered?
☐ Yes ☐ No, Too Late ☐ No, Other Reason

17. FINANCIAL COVERAGE

a. Primary Payor
(Check **one**)

- ☐ Medicaid/Family Health Plus
- ☐ Private Insurance
- ☐ Other govt/CHPlusB
- ☐ CHAMPUS/TRICARE
- ☐ Other
- ☐ Self-pay
- ☐ Unknown

b. Is the mother/parent enrolled in an HMO or other managed care plan?
☐ Yes ☐ No

c. Did mother/parent participate in WIC?
☐ Yes ☐ No

18. MATERNAL MORBIDITY

(Check **all** that apply)

- ☐ Maternal transfusion
- ☐ Perineal laceration (3rd or 4th degree)
- ☐ Ruptured uterus
- ☐ Unplanned hysterectomy
- ☐ Admit to ICU
- ☐ Unplanned operating room procedure following delivery
- ☐ Hemorrhage
- ☐ Postpartum transfer to a higher level of care
- ☐ None of the above

VR-6S
(Rev. 12/09)

THE CITY OF NEW YORK – DEPARTMENT OF HEALTH AND MENTAL HYGIENE

(Each question MUST be answered)

CONFIDENTIAL MEDICAL REPORT OF BIRTH (2 of 2)

Only for scientific purposes approved by the Commissioner. Not open to inspection or subject to compelled disclosure.

NAME OF CHILD _____ CERTIFICATE NO. _____

19. LABOR AND DELIVERY

a. If birth occured in hospital, was mother/parent transferred in before giving birth?

If yes, name of facility transferred from

☐ Yes _____

☐ No

b. Mother/Parent Weight at Delivery

_____ pounds

c. Onset of Labor
(Check **all** that apply)

☐ Prolonged rupture of membranes (12 hours or more)
☐ Prolonged labor (20 hours or more)
☐ Premature rupture of membranes (prior to labor)
☐ None of the above
☐ Precipitous labor (less than 3 hours)

d. Characteristics of Labor & Delivery
(Check **all** that apply)

☐ Induction of Labor-AROM
☐ Induction of Labor-Medicinal
☐ Augmentation of Labor
☐ Placenta previa
☐ Other excessive bleeding
☐ Steroids
☐ Antibiotics
☐ Chorioamnionitis
☐ Febrile (>100.4F or 38C)
☐ Meconium staining
☐ Fetal intolerance
☐ External electronic fetal monitor
☐ Internal electronic fetal monitor
☐ None of the above

e. 1. Anesthesia
(Check **all** that apply)

☐ Epidural
☐ General inhalation
☐ General intravenous
☐ Spinal
☐ Paracervical
☐ Pudendal
☐ Local
☐ None of the above

2. Complications from any of the above?

☐ Yes ☐ No

Method of Delivery

f. Fetal Presentation at Birth

☐ Cephalic
☐ Breech
☐ Other

g. Final route and method of delivery (Check **one**)

☐ Vaginal/Spontaneous
☐ Vaginal/Forceps
☐ Vaginal/Vacuum
☐ Cesarean

1. If cesarean, was trial of labor attempted?

☐ Yes ☐ No

2. Indications for C-Section ☐ Unknown
(Select **all** that apply)

☐ Failure to progress
☐ Malpresentation
☐ Previous C-Section
☐ Fetus at risk/NFS
☐ Maternal condition-not pregnancy related
☐ Maternal condition-pregnancy related
☐ Refused VBAC
☐ Elective
☐ Other

3. Was delivery with forceps attempted but unsuccessful?

☐ Yes ☐ No

4. Indications for Forceps ☐ Unknown
(Select **all** that apply)

☐ Failure to progress
☐ Fetus at Risk
☐ Other

5. Was delivery with vacuum extraction attempted but unsuccessful?

☐ Yes ☐ No

6. Indications for Vacuum ☐ Unknown
(Select **all** that apply)

☐ Failure to progress
☐ Fetus at Risk
☐ Other

h. Other Procedures Performed at Delivery (Check **all** that apply)

☐ Episiotomy & repair
☐ Sterilization
☐ Repair of lacerations
☐ None of the above

20. INFANT

a. Birthweight

_____ Pounds _____ Ounces or _____ Grams

b. If birth weight < 1250 grams (2 lbs. 12 oz.), reason(s) for delivery at a less than level III hospital: *(Only if applicable)*

☐ None ☐ Unknown at this time
(Select **all** that apply)

☐ Rapid/Advanced Labor
☐ Bleeding
☐ Fetus at Risk
☐ Severe pre-eclampsia
☐ Woman Refused Transfer
☐ Other-*specify* _____

c. Apgar Score at

1. 1 minute _____ **2.** 5 minutes _____ **3.** 10 minutes _____

d. Clinical Estimate of Gestation

Completed Weeks: _____

e. Infant Transferred

☐ Within 24 hours of Delivery ☐ After 24 hours ☐ Not Transferred

f. If transferred, name of facility transferred to:

_____

g. Abnormal Conditions of the Newborn
(Check **all** that apply)

☐ Assisted ventilation required immediately following delivery
☐ Assisted ventilation required for more than six hours
☐ NICU admission
☐ Newborn given surfactant replacement therapy
☐ Antibiotics received by the newborn for suspected neonatal sepsis
☐ Seizure or serious neurologic dysfunction
☐ Significant birth injury (skeletal fracture(s), peripheral nerve injury, and/or soft tissue/solid organ hemorrhage which requires intervention)
☐ None of the above

h. Hepatitis B Inoculation

1. Immunization administered?
☐ Yes Date: (mm/dd/yyyy) ____/____/____
☐ No

2. Immunoglobulin administered?
☐ Yes Date: (mm/dd/yyyy) ____/____/____
☐ No

i. Is infant living at time of report?

☐ Yes ☐ No

j. How is infant being fed? (Check **one**)

☐ Breast milk ☐ Both
☐ Formula ☐ Neither

Congenital Anomalies

k. Select all that apply	Yes	No	l. Diagnosed Prenatally? Yes	No	m. If Yes, please indicate all methods used:
1. Anencephaly	☐	☐	☐	☐	☐ Level II Ultrasound ☐ MSAFP/Triple Screen ☐ Amniocentesis ☐ Other ☐ Unknown
2. Meningomyelocele/ Spina Bifida	☐	☐	☐	☐	☐ Level II Ultrasound ☐ MSAFP/Triple Screen ☐ Amniocentesis ☐ Other ☐ Unknown
3. Cyanotic Congenital Heart Disease	☐	☐	☐	☐	☐ Level II Ultrasound ☐ Other ☐ Unknown
4. Congenital Diaphragmatic Hernia	☐	☐	☐	☐	☐ Level II Ultrasound ☐ Other ☐ Unknown
5. Omphalocele	☐	☐	☐	☐	☐ Level II Ultrasound ☐ Other ☐ Unknown
6. Gastroschisis	☐	☐	☐	☐	☐ Level II Ultrasound ☐ Other ☐ Unknown
7. Limb Reduction Defect	☐	☐	☐	☐	☐ Level II Ultrasound ☐ Other ☐ Unknown
8. Cleft lip with or without Cleft Palate	☐	☐	☐	☐	☐ Level II Ultrasound ☐ Other ☐ Unknown
9. Cleft Palate alone	☐	☐	☐	☐	☐ Level II Ultrasound ☐ Other ☐ Unknown
10. Down Syndrome ☐ Karyotype confirmed ☐ Karyotype pending	☐	☐	☐	☐	☐ Level II Ultrasound ☐ MSAFP/Triple Screen ☐ CVS ☐ Amniocentesis ☐ Other ☐ Unknown
11. Other Chromosomal Disorder ☐ Karyotype confirmed ☐ Karyotype pending	☐	☐	☐	☐	☐ Level II Ultrasound ☐ MSAFP/Triple Screen ☐ CVS ☐ Amniocentesis ☐ Other ☐ Unknown
12. Hypospadias	☐	☐	☐	☐	☐ Level II Ultrasound ☐ Other ☐ Unknown

13. None of those listed above ☐

DATE FILED THE CITY OF NEW YORK – DEPARTMENT OF HEALTH AND MENTAL HYGIENE

CERTIFICATE OF DEATH

Certificate No.

THIS CERTIFICATE NOT VALID UNLESS FILED IN THE DEPARTMENT OF HEALTH AND MENTAL HYGIENE

DOHMH USE ONLY

BOR | INST | MANNER | RESIDENCE | CODE | BP | LDIS | H | ANC | NH | ANC | ICD | AUT

1. DECEDENT'S LEGAL NAME

(First Name) (Middle Name) (Last Name)

MEDICAL CERTIFICATE OF DEATH (To be filled in by the Physician)

Place Of Death

2a. New York City
2b. Borough

2c. Type of Place
1 ❑ Hospital Inpatient
2 ❑ Emergency Dept./Outpatient
3 ❑ Dead on Arrival
4 ❑ Nursing Home/Long Term Care Facility
5 ❑ Hospice Facility
6 ❑ Decedent's Residence
7 ❑ Other Specify

2d. Name of hospital or other facility (if not facility, street address)

Date and Time of Death

3a. (Month) (Day) (Year-yyyy)

3b. Time ❑ AM ❑ PM

4. Sex

5. Date last attended by a Physician (mm dd yyyy)

6. Certifier: I certify that death occurred at the time, date and place indicated and that to the best of my knowledge traumatic injury or poisoning DID NOT play any part in causing death, and that death did not occur in any unusual manner and was due entirely to NATURAL CAUSES. **See instructions on reverse of certificate.**

Name of Physician (Type or Print)

Signature D.O. M.D.

Address

License No. Date

PERSONAL PARTICULARS (To be filled in by Funeral Director or, in case of City Burial, by Physician)

7a. Usual Residence State

7b. County

7c. City or Town

7d. Street and Number Apt. No. ZIP Code

7e. Inside City Limits? 1 ❑ Yes 2 ❑ No

8. Date of Birth (Month) (Day) (Year-yyyy)

9. Age at last birthday (years) 1

Under 1 Year: Months 2 Days 3
Under 1 Day: Hours 4 Minutes 5

10. Social Security No.

11a. Usual Occupation (Type of work done during most of working life. Do not use "retired")

11b. Kind of business or industry

12. Aliases or AKAs

13. Birthplace (City & State or Foreign Country)

14. Education (Check the box that best describes the highest degree or level of school completed at the time of death)
1 ❑ 8th grade or less; none
2 ❑ 9th – 12th grade; no diploma
3 ❑ High school graduate or GED
4 ❑ Some college credit, but no degree
5 ❑ Associate degree (e.g., AA, AS)
6 ❑ Bachelor's degree (e.g., BA, AB, BS)
7 ❑ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)
8 ❑ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)

15. Ever in U.S. Armed Forces? 1 ❑ Yes 2 ❑ No

16. Marital Status at Time of Death
1 ❑ Married
2 ❑ Divorced
3 ❑ Married, but separated
4 ❑ Never married
5 ❑ Widowed
6 ❑ Unknown

17. Surviving Spouse's Name (If wife, name prior to first marriage) (First, Middle, Last)

18. Father's Name (First, Middle, Last)

19. Mother's Maiden Name (Prior to first marriage) (First, Middle, Last)

20a. Informant's Name

20b. Relationship to Decedent

20c. Address (Street and Number Apt. No. City & State ZIP Code)

21a. Method of Disposition
1 ❑ Burial 2 ❑ Cremation 3 ❑ Entombment 4 ❑ City Cemetery
5 ❑ Other Specify

21b. Place of Disposition (Name of cemetery, crematory, other place)

21c. Location of Disposition (City & State or Foreign Country)

21d. Date of Disposition mm dd yyyy

22a. Funeral Establishment

22b. Address (Street and Number City & State ZIP Code)

VR 15 (Rev. 11/04)

THE CITY OF NEW YORK – DEPARTMENT OF HEALTH AND MENTAL HYGIENE

CONFIDENTIAL MEDICAL REPORT

VR 15 (Rev. 11/04)

To be filled in by **FUNERAL DIRECTOR** or, in case of City Burial, by Physician

Certificate No.

23. Ancestry (Check one box and specify)
❑ Hispanic (Mexican, Puerto Rican, Cuban, Dominican, etc.)
Specify _____
❑ NOT Hispanic (Italian, African American, Pakistani, Ukrainian, Nigerian, Taiwanese, etc.)
Specify _____

24. Race as defined by the U.S. Census (Check one or more to indicate what the decedent considered himself or herself to be)
01 ❑ White 02 ❑ Black or African American
03 ❑ American Indian or Alaska Native (Name of enrolled or principal tribe)_____
04 ❑ Asian Indian 05 ❑ Chinese
06 ❑ Filipino 07 ❑ Japanese
08 ❑ Korean 09 ❑ Vietnamese
10 ❑ Other Asian–Specify_____
11 ❑ Native Hawaiian 12 ❑ Guamanian or Chamorro
13 ❑ Samoan
14 ❑ Other Pacific Islander–Specify_____
15 ❑ Other–Specify_____

DECEDENT'S LEGAL NAME (Type or Print)

CAUSE OF DEATH–Enter the chain of events— diseases, complications or abnormalities–that directly caused the death. DO NOT enter terminal events such as cardiac arrest, respiratory arrest, or ventricular fibrillation without showing the etiology.

IMMEDIATE CAUSE → FINAL disease or condition resulting in death.

Sequentially list conditions, if any, leading to the cause listed on line a. Enter the UNDERLYING CAUSE (disease that initiated the events resulting in death) LAST.

OPERATION-Enter in Part II information on operation or procedure related to disease or conditions listed in Part I.

SUBSTANCE USE Include the use of tobacco, alcohol or other substance if this caused or contributed to death. SPECIFY IN PART I or PART II.

25. CAUSE OF DEATH – List only one cause on each line. DO NOT ABBREVIATE.

		APPROXIMATE INTERVAL: ONSET TO DEATH
PART I	a. IMMEDIATE CAUSE	
	b. DUE TO OR AS A CONSEQUENCE OF	
	c. DUE TO OR AS A CONSEQUENCE OF	
	d. DUE TO OR AS A CONSEQUENCE OF	
PART II	OTHER SIGNIFICANT CONDITIONS CONTRIBUTING TO DEATH but not resulting in the underlying cause given in Part I. Include operation information.	

26a. Was an autopsy performed? 1 ❑ Yes 2 ❑ No

26b. Were autopsy findings available to complete the cause of death? 1 ❑ Yes 2 ❑ No

27a. If Female
1 ❑ Not pregnant within 1 year of death
2 ❑ Pregnant at time of death
3 ❑ Not pregnant at death, but pregnant within 42 days of death
4 ❑ Not pregnant at death, but pregnant 43 days to 1 year before death
5 ❑ Unknown if pregnant within 1 year of death

27b. If pregnant within one year of death, outcome of pregnancy
1 ❑ Live Birth
2 ❑ Spontaneous Termination/ Ectopic Pregnancy
3 ❑ Induced Termination 4 ❑ None

27c. Date of Outcome: mm dd yyyy

28. Was this case referred to OCME? 1 ❑ Yes 2 ❑ No

29. Did tobacco use contribute to death? 1 ❑ Yes 2 ❑ No 3 ❑ Probably 4 ❑ Unknown

30. For infant under one year: Name and address of hospital or other place of birth

I am submitting herewith a confidential report of the cause of death.

SIGNATURE _____ D.O. M.D. ADDRESS _____ LICENSE NO. _____

DATE FILED THE CITY OF NEW YORK – DEPARTMENT OF HEALTH AND MENTAL HYGIENE

CERTIFICATE OF DEATH

Certificate No.

❑ New
❑ Corr/Amend
❑ Replacement

DOHMH USE ONLY

BOR | INST | MANNER | RESIDENCE | CODE | BP | LDIS | H | ANC | NH | ANC | ICD | AUT

THIS CERTIFICATE NOT VALID UNLESS FILED IN THE DEPARTMENT OF HEALTH AND MENTAL HYGIENE

1. DECEDENT'S LEGAL NAME

(First Name) (Middle Name) (Last Name)

MEDICAL CERTIFICATE OF DEATH (To be filled in by the OCME)

Place Of Death
2a. New York City
2b. Borough
2c. Type of Place
1 ❑ Hospital Inpatient
2 ❑ Emergency Dept./Outpatient
3 ❑ Dead on Arrival
4 ❑ Nursing Home/Long Term Care Facility
5 ❑ Hospice Facility
6 ❑ Decedent's Residence
7 ❑ Other Specify _____
2d. Name of hospital or other facility (if not facility, street address)

Date and Time of Death or Found Dead
3a. (Month) (Day) (Year-yyyy)
3b. Time ❑ AM ❑ PM
4. Sex
5. OCME Case No.

6. CAUSE OF DEATH
PART I
a. Immediate cause
b. Due to or as a consequence of
c. Due to or as a consequence of
APPROXIMATE INTERVAL: ONSET TO DEATH
PART II
Other significant conditions contributing to death but not resulting in the underlying cause given in Part I. Include operation information.

7a. Injury Date (mm dd yyyy)
7b. Time ❑ AM ❑ PM
7c. At Work 1 ❑ Yes 2 ❑ No
7d. Place of Injury – At home, factory, street, etc.
7e. Location
7f. How Injury Occurred
7g. If Transportation Injury Specify
❑ Driver/Operator ❑ Pedestrian ❑ Passenger ❑ Other Specify _____
8. Manner of Death
❑ Pending further study
❑ Natural ❑ Homicide
❑ Accident ❑ Suicide ❑ Undetermined
9. Autopsy
❑ Yes
❑ No Autopsy Pursuant to Law
❑ No Autopsy
10. On the basis of examination and/or investigation, in my opinion, death occurred due to the causes and manner as stated:
Certifier Signature _____ M.D. Date _____
Certifier Name (Print) _____
(Medical Investigator) (Deputy Chief) (Chief) (Medical Examiner)

PERSONAL PARTICULARS (To be filled in by Funeral Director or, in case of City Burial, by OCME)

11a. Usual Residence State
11b. County
11c. City or Town
11d. Street and Number Apt. No. ZIP Code
11e. Inside City Limits? 1 ❑ Yes 2 ❑ No
12. Date of Birth (Month) (Day) (Year-yyyy)
13. Age at last birthday (years) 1
Under 1 Year: Months 2 Days 3
Under 1 Day: Hours 4 Minutes 5
14. Social Security No.
15a. Usual Occupation (Type of work done during most of working life. Do not use "retired")
15b. Kind of business or industry
16. Aliases or AKAs
17. Birthplace (City & State or Foreign Country)
18. Education (Check the box that best describes the highest degree or level of school completed at the time of death)
1 ❑ 8th grade or less; none
2 ❑ 9th – 12th grade; no diploma
3 ❑ High school graduate or GED
4 ❑ Some college credit, but no degree
5 ❑ Associate degree (e.g., AA, AS)
6 ❑ Bachelor's degree (e.g., BA, AB, BS)
7 ❑ Master's degree (e.g., MA, MS, MEng, MEd, MSW, MBA)
8 ❑ Doctorate (e.g., PhD, EdD) or Professional degree (e.g., MD, DDS, DVM, LLB, JD)
19. Ever in U.S. Armed Forces? 1 ❑ Yes 2 ❑ No
20. Marital Status at Time of Death
1 ❑ Married 3 ❑ Married, but separated 5 ❑ Widowed
2 ❑ Divorced 4 ❑ Never married 6 ❑ Unknown
21. Surviving Spouse's Name (If wife, name prior to first marriage) (First, Middle, Last)
22. Father's Name (First, Middle, Last)
23. Mother's Maiden Name (Prior to first marriage) (First, Middle, Last)
24a. Informant's Name
24b. Relationship to Decedent
24c. Address (Street and Number Apt. No. City & State ZIP Code)
25a. Method of Disposition
1 ❑ Burial 2 ❑ Cremation 3 ❑ Entombment 4 ❑ City Cemetery
5 ❑ Other Specify _____
25b. Place of Disposition (Name of cemetery, crematory, other place)
25c. Location of Disposition (City & State or Foreign Country)
25d. Date of Disposition mm dd yyyy
26a. Funeral Establishment
26b. Address (Street and Number City & State ZIP Code)

VR 16 (Rev. 01/03)

VR 16 (Rev. 01/03)

THE CITY OF NEW YORK – DEPARTMENT OF HEALTH AND MENTAL HYGIENE

MEDICAL EXAMINER'S SUPPLEMENTARY REPORT

Certificate No.

To be filled in by **FUNERAL DIRECTOR** or, in case of City Burial, by OCME

27. Ancestry (Check one box and specify)
- ❑ Hispanic (Mexican, Puerto Rican, Cuban, Dominican, etc.)

Specify _____

- ❑ NOT Hispanic (Italian, African American, Pakistani, Ukrainian, Nigerian, Taiwanese, etc.)

Specify _____

28. Race as defined by the U.S. Census (Check one or more to indicate what the decedent considered himself or herself to be)

01 ❑ White
02 ❑ Black or African American
03 ❑ American Indian or Alaska Native (Name of enrolled or principal tribe)_____
04 ❑ Asian Indian
05 ❑ Chinese
06 ❑ Filipino
07 ❑ Japanese
08 ❑ Korean
09 ❑ Vietnamese
10 ❑ Other Asian–Specify _____
11 ❑ Native Hawaiian
12 ❑ Guamanian or Chamorro
13 ❑ Samoan
14 ❑ Other Pacific Islander–Specify _____
15 ❑ Other–Specify _____

DECEDENT'S LEGAL NAME (Type or Print)

29a. If Female
1 ❑ Not pregnant within 1 year of death
2 ❑ Pregnant at time of death
3 ❑ Not pregnant at death, but pregnant within 42 days of death
4 ❑ Not pregnant at death, but pregnant 43 days to 1 year before death
5 ❑ Unknown if pregnant within 1 year of death

29b. If pregnant within one year of death, outcome of pregnancy
1 ❑ Live Birth
2 ❑ Spontaneous Termination / Ectopic Pregnancy
3 ❑ Induced Termination
4 ❑ None

29c. Date of Outcome

mm	dd	yyyy

30. Did tobacco use contribute to death?
1 ❑ Yes 2 ❑ No 3 ❑ Probably 4 ❑ Unknown

31. For infant under one year: Name and address of hospital or other place of birth

Cleared For Cremation If Family Requests

_____
M.E. Signature

I certify that I personally examined the body on

_____ (Date) at _____ (Location)

SIGNATURE: _____
(Medical Investigator) (Deputy Chief) (Chief) (Medical Examiner)

or

I did not personally examine the body after death.

SIGNATURE: _____
(Deputy Chief) (Chief) (Medical Examiner)

VR 17 (REV. 11/04)

THIS CERTIFICATE NOT VALID UNLESS FILED IN THE DEPARTMENT OF HEALTH AND MENTAL HYGIENE

1. Typewrite or print with black fine point ink.
2. Certificates containing alterations or omissions are unacceptable.
3. Items "Date filed," "Certificate No." and this space, reserved for Department of Health and Mental Hygiene use only.

❑ I CERTIFY THAT I HAVE IN MY POSSESSION AN AFFIDAVIT OF AUTHORIZATION FOR CREMATION FD Initials

DATE FILED

CERTIFICATE OF SPONTANEOUS TERMINATION OF PREGNANCY

Certificate No.

Did heart beat after delivery?_____ Was there movement of voluntary muscle?_____
Such cases must be reported by filing a certificate of birth and a certificate of death

1. SEX OF FETUS ❑ Male ❑ Female ❑ Undetermined	2a. NUMBER DELIVERED this pregnancy 2b. If more than one, number in order of delivery	3. DATE OF DELIVERY OR OPERATION FOR DELIVERY (Month) (Day) (Year–yyyy)	3a. Hour	❑ AM ❑ PM

4. PLACE OF DELIVERY	4a. NEW YORK CITY BOROUGH OF	4b. Name of HOSPITAL (if not in institution street address)	4c. TYPE OF PLACE ❑ Hospital ❑ Home ❑ Birthing Center ❑ Other

5a. MOTHER'S FULL MAIDEN NAME	5b. MOTHER'S DATE OF BIRTH (Month) (Day) (Year–yyyy)	5c. MOTHER'S BIRTHPLACE City & State or foreign country

6. MOTHER'S USUAL RESIDENCE a. State	b. County	c. City, town, or location	d. Street and house number Apt. Zip	e. Inside city limits of 6c? Yes ❑ No ❑

7a. FATHER'S FULL NAME	7b. FATHER'S DATE OF BIRTH (Month) (Day) (Year–yyyy)	7c. FATHER'S BIRTHPLACE City & State or foreign country

8. I HEREBY CERTIFY THAT THIS DELIVERY OCCURRED AT THE HOUR AND ON THE DATE STATED ABOVE, THAT ALL THE FACTS STATED IN THIS CERTIFICATE ARE TRUE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

R.N.
C.N.M.
Other Midwife
D.O.
M.D.

9. NAME OF ATTENDANT (AT) (AFTER) DELIVERY

R.N.
C.N.M.
Other Midwife
D.O.
M.D.

Signature _____

Name of Physician _____
(Type or Print)

Date _____, Year–yyyy _____ Address _____

FUNERAL DIRECTOR'S CERTIFICATE

I hereby certify that I have been employed as Funeral Director herein by _____

of _____ This statement is made to obtain a permit for the
(Address)

disposition of this fetus _____
(Signature of Funeral Director) *(State License No.)*

Funeral Establishment _____ Registration No. _____ Address _____

PLACE OF BURIAL OR CREMATION DATE OF BURIAL OR CREMATION

VITAL RECORDS **DEPARTMENT OF HEALTH AND MENTAL HYGIENE** **THE CITY OF NEW YORK**

VR 17 (REV. 11/04)

CONFIDENTIAL MEDICAL REPORT

Only for scientific purposes approved by the Commissioner. Not open to inspection or subject to subpoena

SURNAME OF MOTHER: _____ CERTIFICATE NO.

	10. Race-White, Black, American Indian, Chinese, Asian Indian, Other *specify*	11. Ancestry (African -American Chinese, Cuban, German Italian, Puerto Rican etc.)	12. Education (Record highest year completed) Elem/Secondary 0 - 12	College 1-4 or 5 +	13. Occupation: Mother, most recent Father, usual	14. Kind of business or industry	15. Employed During This Pregnancy
MOTHER	10a.	11a.	12a.		13a.	14a.	15a. 1 ❑ Yes 0 ❑ No
FATHER	10b.	11b.	12b.		13b.	14b.	

16. Last Normal Menses Began Mo./Day/Yr-yyyy	17. Previous Pregnancies (Complete all sections)								
	a. Total Previous Pregnancies Number ____ None ❑	Born Alive		Spontaneous Terminations			Induced Terminations		
		b. Now Living Number ____ None ❑	c. Now Dead Number ____ None ❑	d. Under 13 Wks Number ____ None ❑	e. 13 to 19 Wks Number ____ None ❑	f. 20 Wks or more Number ____ None ❑	g. Under 13 Wks Number ____ None ❑	h. 13 to 19 Wks Number ____ None ❑	i. 20 Wks or more Number ____ None ❑

18. Weight at Delivery
_____lbs _____ ozs (1)
OR
_____ grams (2)
❑ Not Weighed (3)

19. Autopsy performed
1 ❑ Yes 2 ❑ No

20. Clinical Estimate of Gestation
_____Weeks

21. Fetus Died:
Before Labor | During Labor | At Delivery | Unknown
1 ❑ 2 ❑ 3 ❑ 4 ❑

22. This Termination of Pregnancy was caused by — Fetal or Maternal
PART 1
a. Immediate Cause _____
b. Due to _____
c. Due to _____

PART 2. Other significant conditions of conceptus or mother _____

FOR GESTATION OF 20 WEEKS OR MORE REMAINDER OF CERTIFICATE MUST BE COMPLETED

23. Pregnancy History	Date Month Year-yyyy
a. First Live Birth	
b. Last Live Birth	
c. Last Other Termination	

24. Prenatal Care
a. Date First Visit To Any Provider Month Day Year-yyyy
b. Providers *Check all that apply*
1 ❑ Hosp. 4 ❑ SHF
2 ❑ MIC 5 ❑ Pvt Phy
6 ❑ Other
3 ❑ Other Clinic
c. Total Number Of Visits to All Providers
0 ❑ NONE

25. Mother's Blood Group and Rh

26. Congenital Anomalies *Specify*

27a. Type of Anesthesia *Specify*

b. Type of Analgesia *Specify*

28. Primary Financial Coverage This Pregnancy
1 ❑ Medicaid
2 ❑ HMO
3 ❑ Other 3rd Party
4 ❑ Self

29. During This Pregnancy Did Mother Participate in:
1 ❑ WIC 4 ❑ AFDC
2 ❑ PCAP 5 ❑ Other
3 ❑ MOMS Specify _____
0 ❑ None

30. Mother Was
1 ❑ Private Physician's Patient
2 ❑ General Services Patient

31. Was Hospital Of This Delivery a:
1 ❑ Prelabor Referral for High Risk
2 ❑ Emergency Transfer Prior To Delivery
Specify Transfer From _____
0 ❑ Neither

32. MEDICAL RISK FACTORS FOR THIS PREGNANCY *(Check all that apply)*
01 ❑ Anemia (Hct. < 30/Hgb. < 10)
02 ❑ Cardiac disease
03 ❑ Acute or chronic lung disease
Diabetes
04 ❑ Gestational
05 ❑ Chronic
06 ❑ Genital herpes
07 ❑ Other STD
08 ❑ Hydramnios/Oligohydramnios
09 ❑ Hemoglobinopathy
10 ❑ Hepatitis
Hypertension
11 ❑ Chronic
12 ❑ Pregnancy-associated
13 ❑ Preeclampsia
14 ❑ Eclampsia
15 ❑ Incompetent cervix
16 ❑ Previous infant 4000 + grams
17 ❑ Previous preterm or small-for-gestational-age infant
18 ❑ Renal disease
19 ❑ Rh sensitization
Uterine bleeding
21 ❑ Trimester – 1
22 ❑ Trimester – 2
23 ❑ Trimester – 3
00 ❑ None
24 ❑ Other _____

33. OTHER RISK FACTORS FOR THIS PREGNANCY *(Check all that apply)*
a. Tobacco use during pregnancy 1 ❑ Yes ❑ No
Average number of cigarettes per day _____
Alcohol use during pregnancy 2 ❑ Yes ❑ No
Average number of drinks per week _____
Heroin 3 ❑ Yes ❑ No
Cocaine 4 ❑ Yes ❑ No
Methadone 5 ❑ Yes ❑ No
Marijuana 6 ❑ Yes ❑ No
Sedatives, Tranquilizers, Anticonvulsants
Specify _____ 7
Other Drugs
Specify _____ 8
0 ❑ None of the above

b. Weight
Prepregnancy Weight _____
Weight gained during pregnancy _____

c. Radiation exposure during pregnancy?
0 ❑ No 1 ❑ Yes
If yes specify Trimester and Type

34. Prior C-section
0 ❑ No 1 ❑ Yes

35. COMPLICATIONS OF LABOR AND/OR DELIVERY *(Check all that apply)*
01 ❑ Anesthetic complications
02 ❑ Abruptio placenta
03 ❑ Placenta previa
04 ❑ Other excessive bleeding
05 ❑ Cord Prolapse
06 ❑ Conditions of Cord
07 ❑ Fetal distress
08 ❑ Cephalopelvic disproportion
09 ❑ Chorioamnionitis
10 ❑ Meconium staining
11 ❑ Premature rupture of membranes (> 12 hours)
12 ❑ Seizures during labor
13 ❑ Precipitous labor (< 3 hours)
14 ❑ Prolonged labor (> 20 hours)
15 ❑ Failure to Progress
16 ❑ Breech/Malpresentation
17 ❑ Febrile (> 100°F. or > 38°C)
00 ❑ None
18 ❑ Other _____
Specify

36. METHOD OF DELIVERY *(Check all that apply)*
01 ❑ Vaginal
02 ❑ Vaginal after any prior C-section
03 ❑ Primary C-section
04 ❑ Repeat C-section
05 ❑ Breech Extraction
06 ❑ Mid Forceps
07 ❑ Low Forceps
08 ❑ Vacuum
09 ❑ Other, *Specify*

37. Indication for C-section *Specify*

38. OBSTETRIC PROCEDURES *(Check all that apply)*
a. Amniocentesis
01 ❑ Genetic
02 ❑ Maturity
03 ❑ Stress Test
04 ❑ Non Stress Test
Electronic Fetal Monitoring
05 ❑ Internal
06 ❑ External
07 ❑ Scalp Sampling
08 ❑ Tocolysis
09 ❑ Other
Specify _____
00 ❑ None

01 ❑ b. Induction
02 ❑ Stimulation
03 ❑ Both
00 ❑ Neither
Indication for Induction or Stimulation
Specify _____

c. Ultrasonography exams
Number _____
0 ❑ None

39 Other Procedures Performed at Delivery
Specify _____
0 ❑ None

DATE FILED
(For Health Dept. Use Only)

CERTIFICATE OF INDUCED TERMINATION OF PREGNANCY

Use this form *ONLY* for induced terminations whether surgical or medical

Only for scientific purposes approved by the Commissioner of Health and Mental Hygiene: not open to inspection or subject to subpoena

1. PLACE OF TERMINATION (Name and address of doctor's office, hospital, or other facility)

1 ❑ In-Patient 2 ❑ Out-Patient

CERTIFICATE NO.
(For Health Dept. Use Only)
156 —

2. DATE OF PROCEDURE FOR TERMINATION
Month _____ Day _____ Year–yyyy _____

INST.

3a. LAST NAME First Two Letters | b. FIRST NAME First Two Letters | 4. PATIENT'S DATE OF BIRTH Month | Day | Year–yyyy | 5. MARRIED 1 ❑ Yes 2 ❑ No

6. PATIENT'S USUAL RESIDENCE *(Check only one)*

B

a. NEW YORK CITY (*Check one*)
1 ❑ Manhattan
2 ❑ Bronx
3 ❑ Brooklyn
4 ❑ Queens
5 ❑ Staten Island
Patient's Zip Code _____

b. NEW YORK STATE OUTSIDE NEW YORK CITY (Including Nassau, Suffolk, Westchester)
6 ❑ Specify County _____
Specify City, Town, or Location _____

c. OUTSIDE NEW YORK STATE US City and State *(Specify)*
8 ❑ _____
OR
Foreign Country *(Specify)*
8 ❑ _____

R

7. PATIENT'S BIRTHPLACE (City & State OR Foreign Country)

A

8. PATIENT'S RACE ❑ White ❑ Black ❑ Asian ❑ Other _____

9. ANCESTRY (African-American, Chinese, Cuban, German, Italian, Puerto Rican, etc.)

E

10. EDUCATION (Record ONLY highest year completed)

Elem/Secondary 0–12	College 1–4 or 5+

11. PREVIOUS PREGNANCIES *(Complete all sections)*

Previous Pregnancies	BORN ALIVE		OTHER TERMINATIONS	
	NOW LIVING	NOW DEAD	SPONTANEOUS	INDUCED
a. None ❑	b. Number _____ None ❑	c. Number _____ None ❑	d. Number _____ None ❑	e. Number _____ None ❑

PRESENT TERMINATION

12. DATE LAST NORMAL MENSES BEGAN
Month _____ Day _____ Year–yyyy _____

13. CLINICAL ESTIMATE OF GESTATION
Weeks _____

14. SONOGRAM PERFORMED
1 ❑ Yes 2 ❑ No

15. PRIMARY FINANCIAL COVERAGE THIS TERMINATION *(Check only one)*
1 ❑ Medicaid 2 ❑ Other Insurance 3 ❑ Patient Pay

16. TYPE OF TERMINATION PROCEDURES *(Check only one)*

10 ❑ Suction Curettage
20 ❑ Sharp Curettage (D&C)
30 ❑ Dilation and Evacuation (D&E)
40 ❑ Intra-Uterine Instillation (Saline or Prostaglandin)
50 ❑ Hysterotomy/Hysterectomy
65 ❑ Medical (Nonsurgical)
Specify Medication(s) _____
80 ❑ Other *(Specify)* _____

I HEREBY CERTIFY THAT I ATTENDED THIS PATIENT (AT) (AFTER) THIS TERMINATION AND THAT ALL THE FACTS STATED IN THIS CERTIFICATE ARE TRUE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

PHYSICIAN'S NAME, ADDRESS (*Type, Print, Stamp*)
❑ M.D.
❑ D.O.

PHYSICIAN'S SIGNATURE

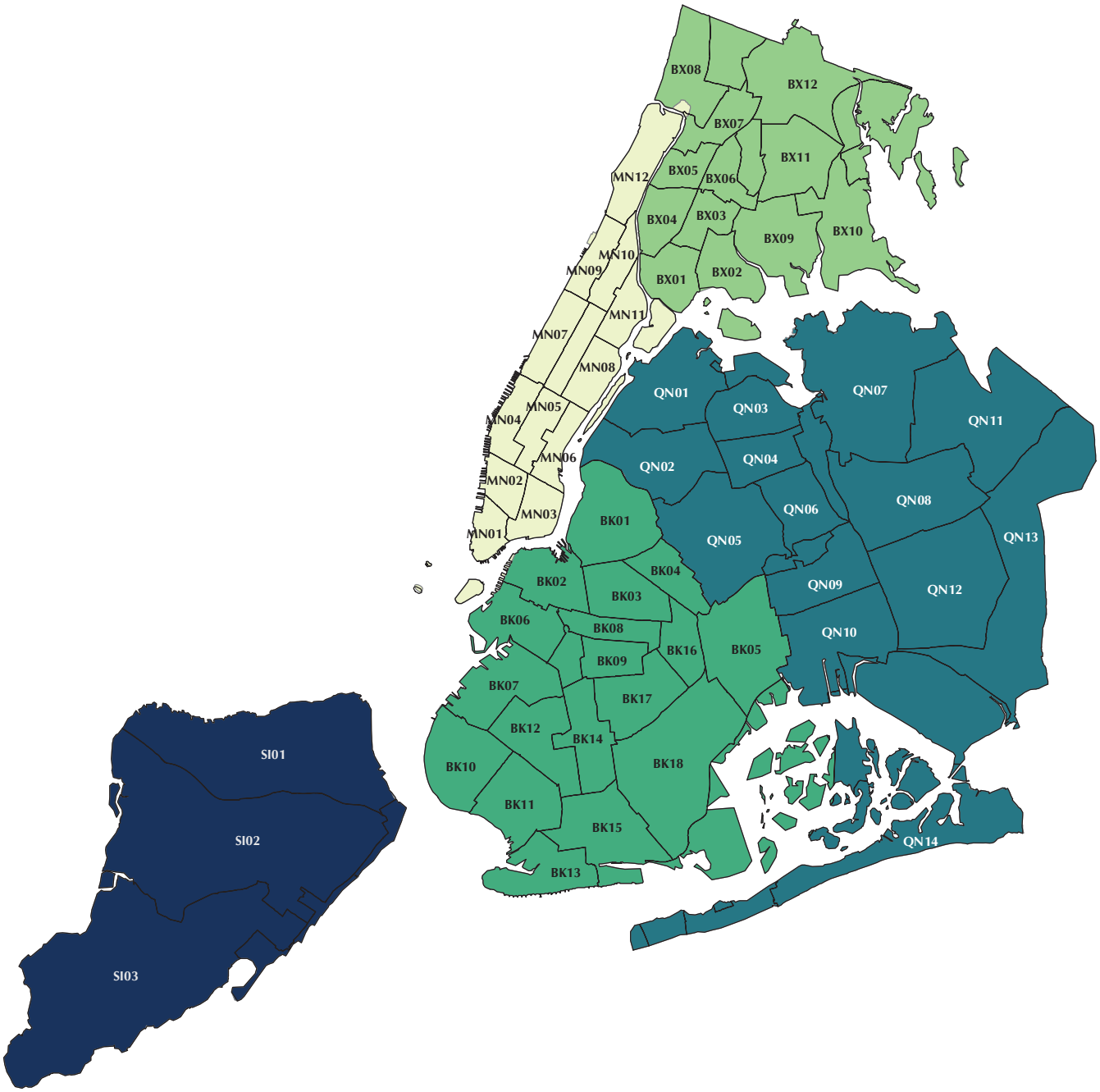
DATE _____
(Month/Day/Year–yyyy)

VOID

VR-18 (Inst. # X988)
(REV. 11/04)

OFFICE OF VITAL RECORDS DEPARTMENT OF HEALTH AND MENTAL HYGIENE THE CITY OF NEW YORK

Map 5.1 Community Districts and Boroughs, New York City



New York City Department of Health and Mental Hygiene

Bureau of Vital Statistics

Michael R. Bloomberg, Mayor
Thomas Farley, MD, MPH, Commissioner

http://www.nyc.gov/health

December 2010