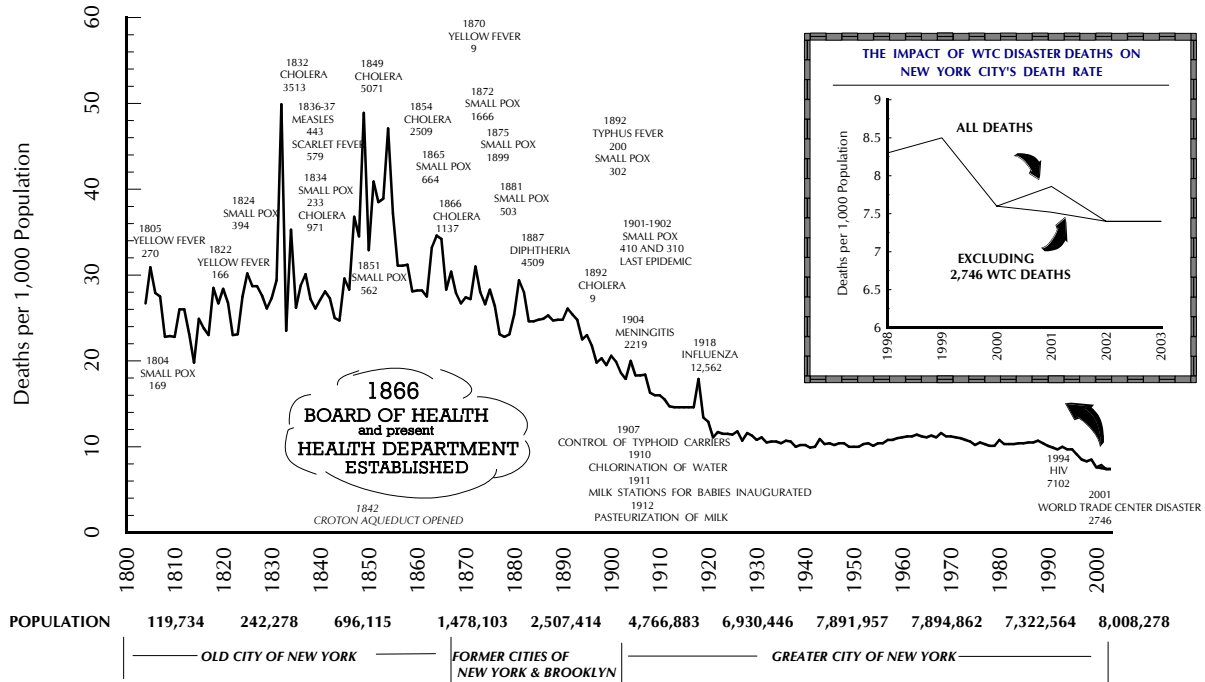


# SUMMARY OF VITAL STATISTICS 2003

## THE CITY OF NEW YORK

### The Conquest of Pestilence in New York City

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



Michael R. Bloomberg, Mayor

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

Lorna Thorpe, Ph.D., Deputy Commissioner, Division of Epidemiology

# SUMMARY OF VITAL STATISTICS 2003 THE CITY OF NEW YORK

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

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DECEMBER 2004

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This report was prepared by the Statistical Analysis and Reporting Unit of the Bureau of Vital Statistics: Wenhui Li, PhD, Joseph Kennedy, and Darlene Kelley. The data are derived from vital event certificates filed with and processed by the staff of the Offices of Vital Records and Vital Statistics.

This publication is available at [www.nyc.gov/health](http://www.nyc.gov/health).

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Table 1.

## Population, Births, Marriages, Deaths and Infant Mortality, New York City, 1898-2003

Year	Population April 1	Live Births		Marriages		Deaths		Infant Mortality	
		Total Reported	Rate per 1,000 Population	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	7,831,000	165,553	21.1	70,291	9.0	81,118	10.4	4,052	24.5
1957	7,818,000	166,977	21.4	69,498	8.9	84,141	10.8	4,176	25.0
1958	7,806,000	167,775	21.5	67,594	8.7	84,586	10.8	4,435	26.4
1959	7,794,000	168,138	21.6	66,887	8.6	85,352	11.0	4,458	26.5
1960	7,781,984	166,300	21.4	67,133	8.6	86,252	11.1	4,328	26.0
1961	7,793,000	168,383	21.6	66,258	8.5	86,855	11.1	4,307	25.6
1962	7,805,000	165,244	21.2	65,512	8.4	87,089	11.2	4,510	27.3
1963	7,816,000	167,848	21.5	67,886	8.7	88,621	11.3	4,334	25.8
1964	7,828,000	165,695	21.2	70,053	8.9	88,026	11.2	4,438	26.8
1965	7,839,000	158,815	20.3	71,880	9.2	87,395	11.1	4,076	25.7
1966	7,850,000	153,335	19.5	66,689	8.5	88,418	11.3	3,819	24.9
1967	7,862,000	145,802	18.5	68,876	8.8	87,610	11.1	3,489	23.9
1968	7,873,000	141,920	18.0	73,307	9.3	91,169	11.6	3,282	23.1
1969	7,885,000	146,221	18.5	75,220	9.5	88,535	11.2	3,563	24.4
1970	7,894,862	149,192	18.9	74,174	9.4	88,161	11.2	3,230	21.6
1971	7,832,000	131,920	16.8	73,810	9.4	86,724	11.1	2,751	20.9
1972	7,731,000	117,088	15.1	73,253	9.5	85,363	11.0	2,321	19.8
1973	7,648,000	110,639	14.5	70,104	9.2	82,319	10.8	2,206	19.9
1974	7,566,000	110,642	14.6	61,925	8.2	79,846	10.6	2,175	19.7
1975	7,484,000	109,418	14.6	59,591	8.0	76,312	10.2	2,110	19.3
1976	7,401,000	109,995	14.9	55,829	7.5	77,538	10.5	2,092	19.0
1977	7,318,000	110,486	15.1	52,804	7.2	75,011	10.3	1,971	17.8
1978	7,236,000	106,720	14.7	54,247	7.5	73,081	10.1	1,827	17.1
1979	7,154,000	106,021	14.8	58,532	8.2	72,079	10.1	1,767	16.7
1980	7,071,639	107,066	15.1	58,637	8.3	76,625	10.8	1,719	16.1
1981	7,097,000	108,547	15.3	61,775	8.7	73,329	10.3	1,678	15.5
1982	7,122,000	111,487	15.7	66,619	9.4	73,083	10.3	1,706	15.3
1983	7,147,000	112,353	15.7	68,164	9.5	73,544	10.3	1,603	14.3
1984	7,172,000	113,332	15.8	76,336	10.6	74,278	10.4	1,540	13.6
1985	7,197,000	118,542	16.5	77,897	10.8	74,852	10.4	1,591	13.4
1986	7,222,000	122,108	16.9	82,199	11.4	75,702	10.5	1,566	12.8
1987	7,247,000	127,386	17.6	76,194	10.5	76,448	10.5	1,673	13.1
1988	7,272,000	132,226	18.2	74,137	10.2	77,817	10.7	1,770	13.4
1989	7,297,000	137,673	18.9	69,758	9.6	75,957	10.4	1,827	13.3
1990	7,322,564	139,630	19.1	71,301	9.7	73,875	10.1	1,620	11.6
1991	7,388,000	138,148	18.7	69,314	9.4	72,421	9.8	1,575	11.4
1992	7,455,000	136,002	18.2	71,947	9.7	71,001	9.5	1,390	10.2
1993	7,522,000	133,583	17.8	72,490	9.6	73,408	9.8	1,366	10.2
1994	7,590,000	133,662	17.6	70,438	9.3	71,038	9.4	1,207	9.0
1995	7,658,000	131,009	17.1	71,507	9.3	70,769	9.2	1,155	8.8
1996	7,727,000	126,901	16.4	79,361	10.3	66,784	8.6	992	7.8
1997	7,796,000	123,313	15.8	80,027	10.3	62,506	8.0	881	7.1
1998	7,866,000	124,252	15.8	53,661	6.8	61,010	7.8	843	6.8
1999	7,937,000	123,739	15.6	55,075	6.9	62,470	7.9	848	6.9
2000	8,008,278	125,563	15.7	58,291	7.3	60,839	7.6	839	6.7
2001	8,008,278	124,023	15.5	72,587	9.1	62,964	7.9	760	6.1
2001	8,008,278	Excluding World Trade Center disaster deaths				60,218	7.5		
2002	8,008,278	122,937	15.4	65,490	8.2	59,651	7.4	742	6.0
2003	8,008,278	124,345	15.5	61,101	7.6	59,213	7.4	807	6.5

Note: Figures for single years prior to 1956 appear in the annual summaries for 1965 and earlier. Figures for 1898-1913 births are estimated. Intercensal counts are interpolated; the interpolation from 1990 to 2000 uses an exponential formula. See Technical Notes.

**Table 2.****Population by Age, Mutually Exclusive Race and Hispanic Origin, and Sex, New York City, 2000\***

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

\* These population figures replace those published in the 2001 Summary of Vital Statistics, and are based on the Census Bureau's modification of its data correcting the reporting on race items. The major effects are a reduction of 65% in the total for Other and Multiple Race and increases of 3%, 3%, and 6% for Non-Hispanic White, Non-Hispanic Black, and Asian and Pacific Islander, respectively. There were no modifications for age and sex. See Technical Notes.

**Table 3.****Deaths and Death Rates per 1,000 Population by Age, Ethnic Group, and Sex, New York City, 2003**

Age in Years	All						Hispanic				Non-Hispanic White				Non-Hispanic Black				Asian and Pacific Islander				Other/Multiple Race/Unknown					
	Total		Male		Female		Male		Female		Male		Female		Male		Female		Male		Female		Male		Female			
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate				
All Ages	59,213	7.4	28,606	7.5	30,607	7.3	4,684	4.5	4,118	3.7	14,269	10.3	16,436	10.9	6,991	7.7	7,837	7.0	1,442	3.5	1,120	2.7	1,220	-	1,096	-		
Age Adjusted	-	7.8	-	9.7	-	6.4	-	9.4	-	5.8	-	8.9	-	6.0	-	11.9	-	7.8	-	6.7	-	4.4	-	-	-	-		
Under 5	912	1.7	507	1.8	405	1.5	114	1.2	95	1.0	149	2.0	114	1.7	197	2.6	163	2.2	28	1.0	24	0.9	19	-	9	-		
5-9	85	0.2	37	0.1	48	0.2	14	0.1	15	0.2	8	0.1	12	0.2	11	0.1	13	0.2	2	0.1	5	0.2	2	-	3	-		
10-14	90	0.2	50	0.2	40	0.2	21	0.2	12	0.1	12	0.2	9	0.1	13	0.2	16	0.2	1	0.0	2	0.1	3	-	1	-		
15-19	255	0.5	183	0.7	72	0.3	48	0.5	14	0.2	47	0.7	19	0.3	77	1.0	35	0.4	7	0.3	1	0.0	4	-	3	-		
20-24	439	0.7	337	1.2	102	0.3	116	1.2	30	0.3	64	0.7	26	0.3	136	2.1	37	0.5	8	0.2	1	0.0	13	-	8	-		
25-29	536	0.8	376	1.2	160	0.5	118	1.2	33	0.3	99	0.8	36	0.3	135	2.1	67	0.8	10	0.2	16	0.4	14	-	8	-		
30-34	677	1.0	446	1.3	231	0.7	129	1.4	54	0.6	122	1.0	65	0.5	148	2.1	90	1.0	26	0.6	17	0.4	21	-	5	-		
35-39	1,070	1.6	639	2.0	431	1.3	169	2.0	98	1.1	172	1.5	116	1.1	236	3.2	188	2.0	32	0.8	20	0.5	30	-	9	-		
40-44	1,669	2.8	1,021	3.5	648	2.1	250	3.5	155	1.9	325	3.0	153	1.5	337	4.9	291	3.3	56	1.5	25	0.7	53	-	24	-		
45-49	2,334	4.4	1,423	5.7	911	3.2	333	5.8	183	2.7	469	4.6	261	2.5	477	8.4	396	5.3	77	2.4	34	1.1	67	-	37	-		
50-54	2,933	6.1	1,830	8.3	1,103	4.2	397	8.3	201	3.4	660	6.8	373	3.5	605	12.6	436	6.5	86	3.4	49	1.9	82	-	44	-		
55-59	3,271	8.9	1,960	11.8	1,311	6.4	406	11.2	246	5.4	786	10.7	518	6.2	588	15.5	448	8.0	93	5.7	52	3.0	87	-	47	-		
60-64	3,878	12.3	2,230	15.9	1,648	9.4	429	14.6	253	6.7	938	14.7	672	9.1	640	20.4	597	12.9	118	8.4	61	4.2	105	-	65	-		
65-69	4,405	17.0	2,413	21.5	1,992	13.5	474	22.9	378	12.7	1,023	18.1	806	11.9	666	28.5	671	18.5	142	13.4	79	6.7	108	-	58	-		
70-74	5,716	24.3	3,060	31.9	2,656	19.0	484	34.3	441	18.9	1,543	27.6	1,272	17.0	742	41.6	740	23.5	165	22.7	111	12.3	126	-	92	-		
75-79	7,239	37.5	3,591	49.1	3,648	30.4	457	53.1	485	29.6	2,043	44.1	1,975	27.5	753	59.3	933	37.6	196	39.1	130	21.0	142	-	125	-		
80-84	7,972	62.2	3,581	81.1	4,391	52.3	339	73.9	485	49.5	2,289	76.4	2,622	48.6	633	93.5	948	59.1	177	69.1	159	43.5	143	-	177	-		
85 & Over	15,727	129.2	4,917	142.1	10,810	124.1	386	119.6	940	114.1	3,517	142.1	7,387	122.3	597	128.5	1,768	118.6	218	124.1	334	111.7	199	-	381	-		
Unknown	5	-	5	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	
Mean Age	70.9		66.8		74.7		59.4		68.5		72.2		79.4		60.7		68.7		66.8		71.8		66.1		74.8			
Median Age	75		71		79		62		73		76		83		64		73		71		77		70		80			

See Technical Notes for a discussion of ethnic group.

A new death certificate form was implemented in January 2003. As a result, multiple-race is now recorded. See Special Note on Multiple Race for the effects of the change. Rates for "Other/Multiple Race/Unknown" are not calculated due to the relatively large number with unknown race.

Table 4.

**Deaths by Cause by Decedent's Borough of Residence and Sex, and Comparability Ratio  
New York City, 2003**

Cause (Codes from International Classification of Diseases, Tenth Revision, 1999)	Total	BOROUGH OF RESIDENCE							SEX		Comparability Ratio
		Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-Residents	Residence Unknown	Male	Female	
Total Deaths . . . . .	59,213	10,681	9,666	17,396	13,852	3,499	3,761	358	28,606	30,607	
Natural Causes . . . . .	56,638	10,235	9,249	16,658	13,288	3,391	3,529	288	26,806	29,832	
1.# Tuberculosis (A16-A19) . . . . .	34	7	10	8	5	-	-	4	26	8	<b>0.88</b>
Respiratory tuberculosis (A16) . . . . .	26	5	9	6	5	-	-	1	19	7	<b>0.94</b>
2.# Septicemia (A40-A41) . . . . .	345	64	90	102	68	6	14	1	147	198	1.19
3.# Viral hepatitis (B15-B19) . . . . .	350	63	84	85	55	19	42	2	242	108	<b>0.71</b>
4.# Human immunodeficiency virus (HIV) disease (B20-B24) . . . . .	1,656	408	485	498	150	41	49	25	1,100	556	<b>1.08</b>
5. All other infective and parasitic diseases (Rest of A01-B99) . . . . .	164	17	37	51	37	6	15	1	80	84	
West Nile Virus (A83.8, A92.3) . . . . .	5	-	2	-	2	1	-	-	3	2	
6.# Malignant neoplasms (C00-C97) . . . . .	13,826	2,637	2,090	3,669	3,027	829	1,522	52	6,669	7,157	1.01
Lip, oral cavity and pharynx (C00-C14) . . . . .	196	35	36	57	43	9	15	1	138	58	0.96
Esophagus (C15) . . . . .	308	70	47	79	64	14	33	1	210	98	<b>0.99</b>
Stomach (C16) . . . . .	542	100	89	160	133	16	42	2	289	253	1.01
Colon, rectum and anus (C18-C21) . . . . .	1,638	284	268	509	369	89	112	7	777	861	1.00
Liver and intrahepatic bile ducts (C22) . . . . .	535	100	99	139	116	25	55	1	338	197	0.96
Pancreas (C25) . . . . .	832	168	107	205	194	62	90	6	395	437	1.00
Larynx (C32) . . . . .	126	28	22	37	25	4	10	-	102	24	<b>1.01</b>
Trachea, bronchus and lung (C33-C34) . . . . .	3,174	641	478	816	682	235	309	13	1,738	1,436	0.98
Melanoma of skin (C43) . . . . .	145	35	11	30	23	13	33	-	75	70	<b>0.95</b>
Mesothelioma (C45) . . . . .	35	2	4	2	15	5	7	-	25	10	
Breast (C50) . . . . .	1,258	229	185	359	278	81	123	3	9	1,249	1.01
Cervix uteri (C53) . . . . .	171	27	32	45	46	6	13	2	-	171	<b>1.00</b>
Corpus uteri and uterus, part unspecified (C54-C55) . . . . .	278	43	39	88	52	14	42	-	-	278	<b>1.02</b>
Ovary (C56) . . . . .	403	76	45	106	85	28	63	-	-	403	<b>0.99</b>
Prostate (C61) . . . . .	788	158	146	227	170	36	50	1	788	-	1.01
Kidney and renal pelvis (C64-C65) . . . . .	240	37	38	61	53	17	31	3	149	91	1.00
Bladder (C67) . . . . .	280	55	40	61	68	21	35	-	183	97	1.00
Meninges, brain and other parts of central nervous system (C70-C72) . . . . .	248	51	37	55	49	12	43	1	150	98	<b>0.98</b>
Lymphoid, hematopoietic and related tissues (C81-C96) . . . . .	1,385	251	186	291	311	70	272	4	735	650	1.00
Hodgkin's disease (C81) . . . . .	46	10	6	7	14	1	8	-	22	24	<b>1.00</b>
Non-Hodgkin's lymphoma (C82-C85) . . . . .	531	107	74	115	120	30	83	2	287	244	0.98
Multiple myeloma and immunoproliferative neoplasms (C88, C90) . . . . .	278	60	41	52	62	17	46	-	136	142	1.04
Leukemia (C91-C95) . . . . .	529	74	65	117	115	21	135	2	290	239	1.01
7.# In situ or benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48) . . . . .	259	39	38	75	62	11	32	2	126	133	<b>1.63</b>
8.# Anemias (D50-D64) . . . . .	77	12	14	34	9	3	5	-	37	40	<b>0.94</b>
9.# Diabetes mellitus (E10-E14) . . . . .	1,891	308	433	585	397	96	62	10	867	1,024	<b>1.02</b>
10.## Mental and behavioral disorders due to use of alcohol (F10) . . . . .	294	66	52	79	61	5	12	19	245	49	
11. Mental and behavioral disorders due to use of psychoactive substance excluding alcohol and tobacco (F11-F16, F18-F19) . . . . .	909	195	207	233	156	25	69	24	695	214	
## 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) . . . . .	960	212	210	242	165	26	78	27	728	232	
12. Diseases of nervous system (G00-G98) . . . . .	696	243	107	143	135	39	28	1	316	380	
# Meningitis (G00,G03) . . . . .	28	5	5	7	6	1	4	-	15	13	1.01
# Parkinson's disease (G20-G21) . . . . .	112	46	12	19	25	7	3	-	77	35	<b>1.01</b>
# Alzheimer's disease (G30) . . . . .	249	112	41	36	37	13	9	1	60	189	<b>1.58</b>
13. Major cardiovascular diseases (I00-I78) . . . . .	26,992	4,234	3,975	8,419	7,363	1,737	1,158	106	11,954	15,038	1.00
# Diseases of heart (I00-I09, I11,I13, I20-I51) . . . . .	23,875	3,562	3,426	7,531	6,690	1,580	992	94	10,593	13,282	0.99
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09) . . . . .	42	15	4	7	10	-	5	1	16	26	<b>0.88</b>
Hypertensive heart disease (I11) . . . . .	1,337	270	302	407	283	24	42	9	616	721	0.80
Hypertensive heart and renal disease (I13) . . . . .	98	21	29	27	13	2	4	2	46	52	<b>1.13</b>

Continued on next page.

Table 4.

**Deaths by Cause by Decedent's Borough of Residence and Sex, and Comparability Ratio  
New York City, 2003 (Continued)**

Cause (Codes from International Classification of Diseases, Tenth Revision, 1999)	Total	BOROUGH OF RESIDENCE							SEX		Comparability Ratio
		Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-Residents	Residence Unknown	Male	Female	
Chronic ischemic heart disease (I20, I25) . . . . .	16,472	2,159	2,176	5,201	5,086	1,108	681	61	7,264	9,208	1.01
Acute myocardial infarction (I21-I22) . . . . .	4,280	732	657	1,387	967	355	167	15	1,983	2,297	0.99
Cardiomyopathy (I42) . . . . .	195	31	28	54	64	8	10	–	120	75	
Heart failure (I50) . . . . .	663	133	102	226	129	47	23	3	229	434	1.04
# Essential hypertension and hypertensive renal disease (I10, I12) . . . . .	715	154	137	219	151	30	23	1	294	421	1.12
# Cerebrovascular diseases (I60-I69) . . . . .	1,855	396	329	520	405	92	105	8	791	1,064	<b>1.05</b>
# Atherosclerosis (I70) . . . . .	193	36	28	64	48	12	4	1	85	108	<b>0.97</b>
# Aortic aneurysm and dissection (I71) . . . . .	219	47	33	44	52	19	24	–	130	89	1.00
14.# Influenza and pneumonia (J10-J18) . . . . .	2,692	660	430	790	468	232	103	9	1,214	1,478	0.70
15.# Chronic lower respiratory diseases (J40-J47) . . . . .	1,671	332	304	447	367	154	60	7	819	852	<b>1.04</b>
Emphysema (J43) . . . . .	150	31	27	37	29	14	10	2	80	70	<b>0.96</b>
Asthma (J45-J46) . . . . .	205	36	53	63	36	2	12	3	106	99	0.89
16. Pneumoconiosis due to asbestos and other mineral fibres (J61) . . . . .	5	–	1	–	1	3	–	–	5	–	
17.# Pneumonitis due to solids and liquids (J69) . . . . .	32	6	9	7	7	3	–	–	19	13	<b>1.10</b>
18.# Peptic ulcer (K25-K28) . . . . .	122	28	22	32	31	3	5	1	59	63	0.97
19.# Chronic liver disease and cirrhosis (K70, K73-K74) . . . . .	520	90	99	162	106	22	36	5	361	159	<b>1.03</b>
Alcoholic liver disease (K70) . . . . .	340	65	75	96	65	15	19	5	262	78	<b>1.00</b>
20.# Cholelithiasis and other disorders of gallbladder (K80-K82) . . . . .	62	13	12	18	16	–	3	–	28	34	0.96
21.# Nephritis, nephrotic syndrome and nephrosis (N00-N07, N17-N19, N25-N27) . . . . .	635	108	110	244	110	29	29	5	282	353	<b>1.26</b>
Renal failure (N17-N19) . . . . .	625	105	109	239	109	29	29	5	277	348	<b>1.33</b>
22.# Pregnancy, childbirth and the puerperium (O00-O99) . . . . .	29	–	9	11	4	3	2	–	–	29	<b>1.14</b>
Maternal causes* (A34, O00-O95, O98-O99) . . . . .	22	–	6	9	3	2	2	–	–	22	
23.# Certain conditions originating in the perinatal period (P00-P96) . . . . .	480	68	109	146	96	20	41	–	279	201	<b>1.08</b>
24.# Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99) . . . . .	267	31	46	74	44	10	61	1	138	129	<b>0.90</b>
25. Symptoms, signs and abnormal findings, not elsewhere classified (R00-R94, R96-R99) . . . . .	185	50	31	45	42	4	11	2	90	95	<b>0.98</b>
Pending final determination (R99) . . . . .	2	1	–	–	–	–	1	–	1	1	
26. Sudden infant death syndrome (R95) . . . . .	25	4	4	9	7	1	–	–	16	9	<b>1.06</b>
27. All other natural causes (Rest of A00-R99) . . . . .	2,420	552	441	692	464	90	170	11	992	1,428	
External Causes . . . . .	2,575	446	417	738	564	108	232	70	1,800	775	
Injury by firearms (W32-W34, X72-X74, X93-X95, Y22-Y24, Y35.0) . . . . .	493	51	111	170	88	20	48	5	453	40	<b>1.00</b>
28.## Accidents (V01-X59, Y85-Y86) . . . . .	1,198	213	159	318	292	57	132	27	757	441	1.03
Accidental poisoning by psychoactive substances, excluding alcohol and tobacco (X40-X42, X44) . . . . .	51	17	3	9	9	1	9	3	33	18	<b>1.04</b>
Motor vehicle accidents . . . . .	384	43	48	110	99	23	56	5	265	119	<b>0.95</b>
Accidental falls (W00-W19) . . . . .	414	74	68	114	107	15	31	5	236	178	<b>0.77</b>
29.# Intentional self-harm (suicide) (X60-X84, Y87.0) . . . . .	484	125	75	108	98	29	42	7	348	136	1.00
30.# Assault (homicide) (X85-Y09, Y87.1) . . . . .	657	74	144	230	130	14	50	15	536	121	1.00
31.# Legal Intervention (Y35, Y89.0) . . . . .	10	3	1	4	–	1	1	–	10	–	<b>0.94</b>
32. Events of undetermined intent (Y10-Y34, Y87.2, Y89.9) . . . . .	189	20	35	66	33	7	7	21	134	55	<b>0.99</b>
33.# Complications of medical and surgical care (Y40-Y84, Y88) . . . . .	37	11	3	12	11	–	–	–	15	22	<b>0.63</b>

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

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

\* Excludes deaths occurring more than 42 days after the termination of pregnancy, and includes obstetrical tetanus. See Technical Notes.

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

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



**Table 5. Leading Causes of Death in Specified Age Groups by Sex  
New York City, 2003**

Rank	ALL AGES	Male		Female		All	
		Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart. . . . .	10,593	37.0	13,282	43.4	23,875	40.3
2	Malignant Neoplasms. . . . .	6,669	23.3	7,157	23.4	13,826	23.3
3	Influenza and Pneumonia. . . . .	1,214	4.2	1,478	4.8	2,692	4.5
4	Diabetes Mellitus. . . . .	867	3.0	1,024	3.3	1,891	3.2
5	Cerebrovascular Diseases. . . . .	791	2.8	1,064	3.5	1,855	3.1
6	Chronic Lower Respiratory Diseases. . . . .	819	2.9	852	2.8	1,671	2.8
7	Human Immunodeficiency Virus (HIV) Disease. . . . .	1,100	3.8	556	1.8	1,656	2.8
8	Accidents Except Poisoning by Psychoactive Substance. . . . .	724	2.5	423	1.4	1,147	1.9
9	Use of or Poisoning by Psychoactive Substance . . . . .	728	2.5	232	0.8	960	1.6
10	Essential Hypertension and Renal Diseases . . . . .	294	1.0	421	1.4	715	1.2
	All Other Causes . . . . .	4,807	16.8	4,118	13.5	8,925	15.1
	Total . . . . .	28,606	100.0	30,607	100.0	59,213	100.0
Rank	UNDER 1 YEAR	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Congenital Malformations, Deformations. . . . .	79	17.5	77	21.7	156	19.3
2	Short Gestation and Low Birth Weight. . . . .	84	18.6	60	16.9	144	17.8
3	Cardiovascular Disorders Originating in the Perinatal Period. . . . .	78	17.3	53	14.9	131	16.2
4	External Causes . . . . .	27	6.0	20	5.6	47	5.8
5	Respiratory Distress of Newborn. . . . .	28	6.2	17	4.8	45	5.6
6	Bacterial Sepsis of Newborn. . . . .	17	3.8	11	3.1	28	3.5
7	Sudden Infant Death Syndrome. . . . .	16	3.5	9	2.5	25	3.1
8	Newborn Affected by Complications of Placenta . . . . .	12	2.7	9	2.5	21	2.6
9	Neonatal Hemorrhage . . . . .	9	2.0	8	2.3	17	2.1
10	Necrotizing Enterocolitis of Newborn. . . . .	9	2.0	6	1.7	15	1.9
10	Other Respiratory Conditions Originating in the Perinatal Period. . . . .	9	2.0	6	1.7	15	1.9
	All Other Causes . . . . .	84	18.6	79	22.3	163	20.2
	Total . . . . .	452	100.0	355	100.0	807	100.0
Rank	1 TO 14 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms. . . . .	27	19.0	20	14.5	47	16.8
2	Accidents Except Poisoning by Psychoactive Substance. . . . .	25	17.6	15	10.9	40	14.3
3	Congenital Malformations, Deformations. . . . .	11	7.7	17	12.3	28	10.0
4	Diseases of Heart. . . . .	12	8.5	13	9.4	25	8.9
5	Assault (Homicide). . . . .	7	4.9	9	6.5	16	5.7
6	Chronic Lower Respiratory Diseases. . . . .	13	9.2	3	2.2	16	5.7
7	Influenza and Pneumonia. . . . .	6	4.2	6	4.3	12	4.3
8	Cerebrovascular Diseases. . . . .	2	1.4	7	5.1	9	3.2
9	Human Immunodeficiency Virus (HIV) Disease. . . . .	3	2.1	6	4.3	9	3.2
10	In Situ, Benign and Uncertain Neoplasms . . . . .	2	1.4	4	2.9	6	2.1
10	Events of Undetermined Intent . . . . .	3	2.1	3	2.2	6	2.1
	All Other Causes. . . . .	31	21.8	35	25.4	66	23.6
	Total . . . . .	142	100.0	138	100.0	280	100.0
Rank	15 TO 24 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Assault (Homicide). . . . .	204	39.2	26	14.9	230	33.1
2	Accidents Except Poisoning by Psychoactive Substance. . . . .	80	15.4	27	15.5	107	15.4
3	Malignant Neoplasms. . . . .	48	9.2	19	10.9	67	9.7
4	Intentional Self-harm (Suicide). . . . .	44	8.5	10	5.7	54	7.8
5	Use of or Poisoning by Psychoactive Substance . . . . .	30	5.8	7	4.0	37	5.3
6	Diseases of Heart. . . . .	18	3.5	13	7.5	31	4.5
7	Human Immunodeficiency Virus (HIV) Disease. . . . .	7	1.3	11	6.3	18	2.6
8	Congenital Malformations, Deformations. . . . .	10	1.9	3	1.7	13	1.9
9	Cerebrovascular Diseases. . . . .	7	1.3	4	2.3	11	1.6
10	Chronic Lower Respiratory Diseases. . . . .	8	1.5	2	1.1	10	1.4
	All Other Causes. . . . .	64	12.3	52	29.9	116	16.7
	Total . . . . .	520	100.0	174	100.0	694	100.0
Rank	25 TO 34 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Assault (Homicide). . . . .	164	20.0	27	6.9	191	15.7
2	Malignant Neoplasms. . . . .	69	8.4	92	23.5	161	13.3
3	Use of or Poisoning by Psychoactive Substance . . . . .	117	14.2	23	5.9	140	11.5
4	Human Immunodeficiency Virus (HIV) Disease. . . . .	76	9.2	47	12.0	123	10.1
5	Accidents Except Poisoning by Psychoactive Substance. . . . .	97	11.8	24	6.1	121	10.0
6	Intentional Self-harm (Suicide). . . . .	65	7.9	21	5.4	86	7.1
7	Diseases of Heart. . . . .	51	6.2	27	6.9	78	6.4
8	Events of Undetermined Intent . . . . .	20	2.4	5	1.3	25	2.1
9	Chronic Lower Respiratory Diseases. . . . .	14	1.7	8	2.0	22	1.8
10	Cerebrovascular Diseases. . . . .	17	2.1	4	1.0	21	1.7
	All Other Causes. . . . .	132	16.1	113	28.9	245	20.2
	Total . . . . .	822	100.0	391	100.0	1,213	100.0

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Note: The ten leading causes of death in each age group for both sexes combined are arranged in decreasing order of frequency. Totals may not equal 100% due to rounding.

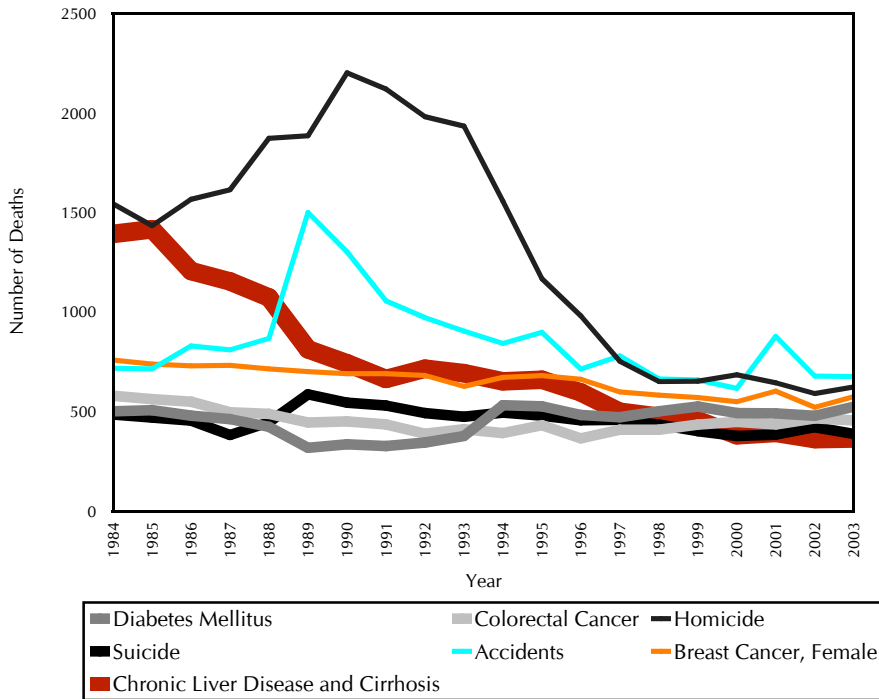
\*Beginning January 1, 1999 all causes were coded using ICD-10. See Table 4 for comparability ratios.

Rank	35 TO 44 YEARS	Male		Female		All	
		Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Human Immunodeficiency Virus (HIV) Disease. . . . .	330	19.9	238	22.1	568	20.7
2	Malignant Neoplasms. . . . .	212	12.8	311	28.8	523	19.1
3	Use of or Poisoning by Psychoactive Substance . . . . .	229	13.8	97	9.0	326	11.9
4	Diseases of Heart. . . . .	220	13.3	102	9.5	322	11.8
5	Accidents Except Poisoning by Psychoactive Substance. . . . .	97	5.8	23	2.1	120	4.4
6	Assault (Homicide). . . . .	75	4.5	18	1.7	93	3.4
7	Intentional Self-harm (Suicide). . . . .	61	3.7	26	2.4	87	3.2
8	Cerebrovascular Diseases. . . . .	42	2.5	26	2.4	68	2.5
9	Mental Disorders due to Use of Alcohol . . . . .	47	2.8	12	1.1	59	2.2
10	Diabetes Mellitus. . . . .	30	1.8	19	1.8	49	1.8
	All Other Causes. . . . .	317	19.1	207	19.2	524	19.1
	Total. . . . .	1,660	100.0	1,079	100.0	2,739	100.0
Rank	45 TO 54 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms. . . . .	702	21.6	735	36.5	1,437	27.3
2	Diseases of Heart. . . . .	698	21.5	331	16.4	1,029	19.5
3	Human Immunodeficiency Virus (HIV) Disease. . . . .	451	13.9	189	9.4	640	12.2
4	Use of or Poisoning by Psychoactive Substance . . . . .	254	7.8	86	4.3	340	6.5
5	Diabetes Mellitus. . . . .	83	2.6	74	3.7	157	3.0
6	Accidents Except Poisoning by Psychoactive Substance. . . . .	107	3.3	48	2.4	155	2.9
7	Chronic Liver Disease and Cirrhosis. . . . .	115	3.5	37	1.8	152	2.9
8	Cerebrovascular Diseases. . . . .	82	2.5	66	3.3	148	2.8
9	Viral Hepatitis. . . . .	107	3.3	37	1.8	144	2.7
10	Influenza and Pneumonia. . . . .	65	2.0	36	1.8	101	1.9
	All Other Causes. . . . .	589	18.1	375	18.6	964	18.3
	Total. . . . .	3,253	100.0	2,014	100.0	5,267	100.0
Rank	55 TO 64 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms. . . . .	1,329	31.7	1,287	43.5	2,616	36.6
2	Diseases of Heart. . . . .	1,273	30.4	743	25.1	2,016	28.2
3	Diabetes Mellitus. . . . .	173	4.1	120	4.1	293	4.1
4	Cerebrovascular Diseases. . . . .	143	3.4	91	3.1	234	3.3
5	Human Immunodeficiency Virus (HIV) Disease. . . . .	189	4.5	44	1.5	233	3.3
6	Chronic Lower Respiratory Diseases. . . . .	107	2.6	81	2.7	188	2.6
7	Chronic Liver Disease and Cirrhosis. . . . .	118	2.8	51	1.7	169	2.4
8	Influenza and Pneumonia. . . . .	90	2.1	70	2.4	160	2.2
9	Accidents Except Poisoning by Psychoactive Substance. . . . .	81	1.9	43	1.5	124	1.7
10	Essential Hypertension and Hypertensive Renal Disease. . . . .	48	1.1	48	1.6	96	1.3
	All Other Causes. . . . .	639	15.3	381	12.9	1,020	14.3
	Total. . . . .	4,190	100.0	2,959	100.0	7,149	100.0
Rank	65 TO 74 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart. . . . .	2,123	38.8	1,624	34.9	3,747	37.0
2	Malignant Neoplasms. . . . .	1,759	32.1	1,618	34.8	3,377	33.4
3	Diabetes Mellitus. . . . .	223	4.1	246	5.3	469	4.6
4	Influenza and Pneumonia. . . . .	214	3.9	150	3.2	364	3.6
5	Cerebrovascular Diseases. . . . .	157	2.9	187	4.0	344	3.4
6	Chronic Lower Respiratory Diseases. . . . .	185	3.4	151	3.2	336	3.3
7	Essential Hypertension and Hypertensive Renal Disease. . . . .	60	1.1	66	1.4	126	1.2
8	Accidents Except Poisoning by Psychoactive Substance. . . . .	77	1.4	45	1.0	122	1.2
9	Nephritis, Nephrotic Syndrome and Nephrosis . . . . .	51	0.9	67	1.4	118	1.2
10	Chronic Liver Disease and Cirrhosis. . . . .	57	1.0	37	0.8	94	0.9
	All Other Causes. . . . .	567	10.4	457	9.8	1,024	10.1
	Total. . . . .	5,473	100.0	4,648	100.0	10,121	100.0
Rank	75 TO 84 YEARS	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart. . . . .	3,383	47.2	3,764	46.8	7,147	47.0
2	Malignant Neoplasms. . . . .	1,768	24.7	1,873	23.3	3,641	23.9
3	Influenza and Pneumonia. . . . .	392	5.5	395	4.9	787	5.2
4	Chronic Lower Respiratory Diseases. . . . .	280	3.9	289	3.6	569	3.7
5	Diabetes Mellitus. . . . .	247	3.4	294	3.7	541	3.6
6	Cerebrovascular Diseases. . . . .	198	2.8	333	4.1	531	3.5
7	Essential Hypertension and Hypertensive Renal Disease. . . . .	76	1.1	127	1.6	203	1.3
8	Nephritis, Nephrotic Syndrome and Nephrosis . . . . .	103	1.4	97	1.2	200	1.3
9	Accidents Except Poisoning by Psychoactive Substance. . . . .	88	1.2	89	1.1	177	1.2
10	Septicemia . . . . .	32	0.4	51	0.6	83	0.5
10	Alzheimers Disease . . . . .	27	0.4	56	0.7	83	0.5
	All Other Causes. . . . .	578	8.1	671	8.3	1,249	8.2
	Total. . . . .	7,172	100.0	8,039	100.0	15,211	100.0
Rank	85 AND OVER	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart. . . . .	2,812	57.2	6,655	61.6	9,467	60.2
2	Malignant Neoplasms. . . . .	755	15.4	1,200	11.1	1,955	12.4
3	Influenza and Pneumonia. . . . .	409	8.3	787	7.3	1,196	7.6
4	Cerebrovascular Diseases. . . . .	143	2.9	346	3.2	489	3.1
5	Chronic Lower Respiratory Diseases. . . . .	156	3.2	269	2.5	425	2.7
6	Diabetes Mellitus. . . . .	96	2.0	260	2.4	356	2.3
7	Essential Hypertension and Hypertensive Renal Disease. . . . .	71	1.4	151	1.4	222	1.4
8	Accidents Except Poisoning by Psychoactive Substance. . . . .	67	1.4	105	1.0	172	1.1
9	Nephritis, Nephrotic Syndrome and Nephrosis . . . . .	54	1.1	111	1.0	165	1.0
10	Alzheimers Disease . . . . .	28	0.6	126	1.2	154	1.0
	All Other Causes. . . . .	326	6.6	800	7.4	1,126	7.2
	Total. . . . .	4,917	100.0	10,810	100.0	15,727	100.0

Table 5a.

**Leading Causes of Death by Sex, Age Under 65  
New York City, 2003**

Rank	Cause of Death	Male		Female		All	
		Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms. . . . .	2,387	21.6	2,466	34.7	4,853	26.7
	Trachea, bronchus, and lung . . . . .	602	5.5	438	6.2	1,040	5.7
	Breast . . . . .	2	0.0	575	8.1	577	3.2
	Colon, rectum, and anus . . . . .	252	2.3	204	2.9	456	2.5
	Pancreas. . . . .	140	1.3	99	1.4	239	1.3
	Liver and intrahepatic bile ducts . . . . .	175	1.6	57	0.8	232	1.3
2	Diseases of Heart. . . . .	2,275	20.6	1,239	17.4	3,514	19.4
3	Human Immunodeficiency Virus (HIV) Disease. . . . .	1,056	9.6	536	7.5	1,592	8.8
4	Use of or Poisoning by Psychoactive Substance . . . . .	705	6.4	229	3.2	934	5.1
5	Accidents Except Poisoning by Psychoactive Substance. . . . .	492	4.5	184	2.6	676	3.7
6	Assault (Homicide). . . . .	517	4.7	107	1.5	624	3.4
7	Diabetes Mellitus. . . . .	301	2.7	224	3.2	525	2.9
8	Cerebrovascular Diseases. . . . .	293	2.7	198	2.8	491	2.7
9	Intentional Self-harm (Suicide). . . . .	280	2.5	108	1.5	388	2.1
10	Chronic Liver Disease and Cirrhosis. . . . .	266	2.4	99	1.4	365	2.0
	All Other Causes . . . . .	2,467	22.3	1,720	24.2	4,187	23.1
	Total . . . . .	11,039	100.0	7,110	100.0	18,149	100.0



**Figure 1.** Number of Deaths from Selected Causes Age under 65, New York City, 1984-2003

The number of homicide deaths in New York City declined steadily between 1990 and 1998, and stayed between 600-700 since then. Suicide deaths declined slightly in the last two decades, from 486 in 1984 to 388 in 2003; suicide deaths peaked in 1989. The number of colorectal cancer deaths among age < 65 decedents also declined in the past two decades, from 580 to 456. The surge of accidental deaths in 2001 was caused by the Flight 587 air crash. The Ninth Revision of the International Classification of Diseases (ICD-9) was used to code causes of death in 1979-1998. ICD-10 was implemented in 1999. The comparability ratios for the ICD-9 to ICD-10 conversion are listed in Table 4. All reported WTC deaths are homicides and not included in this graph for the year 2001. See Figure 10 and 11 for comparable graphs for all ages, and Figure 5 for deaths due to HIV diseases.

Table 6.

**Leading Causes of Death\* in Specified Ethnic Groups by Sex  
New York City, 2003**

Rank	Puerto Rican	Male		Female		All	
		Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart. . . . .	739	28.3	827	35.2	1,566	31.6
2	Malignant Neoplasms. . . . .	525	20.1	466	19.9	991	20.0
3	Human Immunodeficiency Virus (HIV) Disease. . . . .	213	8.2	110	4.7	323	6.5
4	Diabetes Mellitus. . . . .	118	4.5	149	6.3	267	5.4
5	Influenza and Pneumonia. . . . .	101	3.9	129	5.5	230	4.6
6	Chronic Lower Respiratory Diseases. . . . .	81	3.1	80	3.4	161	3.2
7	Use of or Poisoning by Psychoactive Substance . . . . .	112	4.3	42	1.8	154	3.1
8	Cerebrovascular Diseases. . . . .	80	3.1	73	3.1	153	3.1
9	Chronic Liver Disease and Cirrhosis. . . . .	74	2.8	33	1.4	107	2.2
10	Accidents Except Poisoning by Psychoactive Substance. . . . .	61	2.3	37	1.6	98	2.0
	All Other Causes . . . . .	506	19.4	401	17.1	907	18.3
	Total . . . . .	2,610	100.0	2,347	100.0	4,957	100.0
Rank	Other Hispanic	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart. . . . .	533	25.7	584	33.0	1,117	29.1
2	Malignant Neoplasms. . . . .	431	20.8	435	24.6	866	22.5
3	Influenza and Pneumonia. . . . .	73	3.5	98	5.5	171	4.4
4	Human Immunodeficiency Virus (HIV) Disease. . . . .	113	5.4	54	3.0	167	4.3
5	Accidents Except Poisoning by Psychoactive Substance. . . . .	119	5.7	37	2.1	156	4.1
6	Cerebrovascular Diseases. . . . .	67	3.2	80	4.5	147	3.8
7	Diabetes Mellitus. . . . .	70	3.4	70	4.0	140	3.6
8	Assault (Homicide). . . . .	90	4.3	18	1.0	108	2.8
9	Use of or Poisoning by Psychoactive Substance . . . . .	87	4.2	17	1.0	104	2.7
10	Chronic Lower Respiratory Diseases. . . . .	52	2.5	39	2.2	91	2.4
	All Other Causes . . . . .	439	21.2	339	19.1	778	20.2
	Total. . . . .	2,074	100.0	1,771	100.0	3,845	100.0
Rank	Asian and Pacific Islander	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart. . . . .	456	31.6	395	35.3	851	33.2
2	Malignant Neoplasms. . . . .	429	29.8	305	27.2	734	28.6
3	Cerebrovascular Diseases. . . . .	73	5.1	72	6.4	145	5.7
4	Influenza and Pneumonia. . . . .	77	5.3	50	4.5	127	5.0
5	Diabetes Mellitus. . . . .	51	3.5	50	4.5	101	3.9
6	Accidents Except Poisoning by Psychoactive Substance. . . . .	34	2.4	31	2.8	65	2.5
7	Chronic Lower Respiratory Diseases. . . . .	40	2.8	24	2.1	64	2.5
8	Intentional Self-harm (Suicide). . . . .	28	1.9	16	1.4	44	1.7
9	Essential Hypertension and Hypertensive Renal Disease. . . . .	19	1.3	16	1.4	35	1.4
10	Congenital Malformations, Deformations. . . . .	13	0.9	10	0.9	23	0.9
	All Other Causes. . . . .	222	15.4	151	13.5	373	14.6
	Total. . . . .	1,442	100.0	1,120	100.0	2,562	100.0
Rank	Non-Hispanic White	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart. . . . .	6,275	44.0	8,118	49.4	14,393	46.9
2	Malignant Neoplasms. . . . .	3,534	24.8	3,938	24.0	7,472	24.3
3	Influenza and Pneumonia. . . . .	651	4.6	817	5.0	1,468	4.8
4	Chronic Lower Respiratory Diseases. . . . .	417	2.9	497	3.0	914	3.0
5	Cerebrovascular Diseases. . . . .	324	2.3	488	3.0	812	2.6
6	Diabetes Mellitus. . . . .	320	2.2	300	1.8	620	2.0
7	Accidents Except Poisoning by Psychoactive Substance. . . . .	325	2.3	213	1.3	538	1.8
8	Use of or Poisoning by Psychoactive Substance . . . . .	283	2.0	72	0.4	355	1.2
9	Nephritis, Nephrotic Syndrome and Nephrosis . . . . .	131	0.9	144	0.9	275	0.9
10	Intentional Self-harm (Suicide). . . . .	186	1.3	83	0.5	269	0.9
	All Other Causes. . . . .	1,823	12.8	1,766	10.7	3,589	11.7
	Total. . . . .	14,269	100.0	16,436	100.0	30,705	100.0
Rank	Non-Hispanic Black	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Diseases of Heart. . . . .	2,139	30.6	2,881	36.8	5,020	33.9
2	Malignant Neoplasms. . . . .	1,506	21.5	1,777	22.7	3,283	22.1
3	Human Immunodeficiency Virus (HIV) Disease. . . . .	536	7.7	310	4.0	846	5.7
4	Diabetes Mellitus. . . . .	256	3.7	413	5.3	669	4.5
5	Influenza and Pneumonia. . . . .	249	3.6	329	4.2	578	3.9
6	Cerebrovascular Diseases. . . . .	218	3.1	318	4.1	536	3.6
7	Chronic Lower Respiratory Diseases. . . . .	202	2.9	177	2.3	379	2.6
8	Assault (Homicide). . . . .	307	4.4	62	0.8	369	2.5
9	Essential Hypertension and Hypertensive Renal Disease. . . . .	99	1.4	182	2.3	281	1.9
10	Use of or Poisoning by Psychoactive Substance . . . . .	190	2.7	90	1.1	280	1.9
	All Other Causes. . . . .	1,289	18.4	1,298	16.6	2,587	17.4
	Total. . . . .	6,991	100.0	7,837	100.0	14,828	100.0

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

Totals may not equal 100% due to rounding. Decedents of other, two or more races, and unknown ethnicities are not shown.

\*Beginning January 1, 1999 all causes were coded using ICD-10. See Table 4 for comparability ratios.

Table 6a.

**Leading Causes of Death\* in Specified Ethnic Groups by Sex  
Age under 65, New York City, 2003**

Rank	Puerto Rican	Male		Female		All	
		Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms. . . . .	221	16.6	195	24.9	416	19.7
2	Diseases of Heart. . . . .	225	16.9	130	16.6	355	16.8
3	Human Immunodeficiency Virus (HIV) Disease. . . . .	212	15.9	105	13.4	317	15.0
4	Use of or Poisoning by Psychoactive Substance . . . . .	108	8.1	41	5.2	149	7.1
5	Diabetes Mellitus. . . . .	45	3.4	40	5.1	85	4.0
6	Chronic Liver Disease and Cirrhosis. . . . .	55	4.1	20	2.6	75	3.5
7	Accidents Except Poisoning by Psychoactive Substance. . . . .	51	3.8	20	2.6	71	3.4
8	Viral Hepatitis . . . . .	56	4.2	13	1.7	69	3.3
9	Cerebrovascular Diseases. . . . .	37	2.8	21	2.7	58	2.7
10	Assault (Homicide). . . . .	44	3.3	6	0.8	50	2.4
	All Other Causes . . . . .	277	20.8	191	24.4	468	22.1
	Total . . . . .	1,331	100.0	782	100.0	2,113	100.0
Rank	Other Hispanic	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms. . . . .	186	15.3	211	34.8	397	21.8
2	Diseases of Heart. . . . .	188	15.5	73	12.0	261	14.3
3	Human Immunodeficiency Virus (HIV) Disease. . . . .	107	8.8	52	8.6	159	8.7
4	Accidents Except Poisoning by Psychoactive Substance. . . . .	105	8.7	26	4.3	131	7.2
5	Assault (Homicide). . . . .	89	7.3	18	3.0	107	5.9
6	Use of or Poisoning by Psychoactive Substance . . . . .	85	7.0	17	2.8	102	5.6
7	Cerebrovascular Diseases. . . . .	33	2.7	21	3.5	54	3.0
8	Diabetes Mellitus. . . . .	36	3.0	15	2.5	51	2.8
9	Intentional Self-harm (Suicide). . . . .	41	3.4	9	1.5	50	2.7
10	Chronic Liver Disease and Cirrhosis. . . . .	35	2.9	4	0.7	39	2.1
	All Other Causes . . . . .	308	25.4	161	26.5	469	25.8
	Total. . . . .	1,213	100.0	607	100.0	1,820	100.0
Rank	Asian and Pacific Islander	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms. . . . .	175	32.2	138	45.0	313	36.8
2	Diseases of Heart. . . . .	114	21.0	37	12.1	151	17.7
3	Cerebrovascular Diseases. . . . .	34	6.3	10	3.3	44	5.2
4	Accidents Except Poisoning by Psychoactive Substance. . . . .	19	3.5	13	4.2	32	3.8
5	Intentional Self-harm (Suicide). . . . .	21	3.9	10	3.3	31	3.6
6	Diabetes Mellitus. . . . .	16	2.9	13	4.2	29	3.4
7	Congenital Malformations, Deformations. . . . .	13	2.4	9	2.9	22	2.6
8	Assault (Homicide). . . . .	14	2.6	4	1.3	18	2.1
9	Influenza and Pneumonia. . . . .	9	1.7	5	1.6	14	1.6
10	Mental Disorders due to Use of Alcohol . . . . .	13	2.4	-	0.0	13	1.5
	All Other Causes. . . . .	116	21.3	68	22.1	184	21.6
	Total. . . . .	544	100.0	307	100.0	851	100.0
Rank	Non-Hispanic White	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms. . . . .	1,056	27.4	1,054	44.4	2,110	33.9
2	Diseases of Heart. . . . .	960	24.9	411	17.3	1,371	22.0
3	Use of or Poisoning by Psychoactive Substance . . . . .	278	7.2	71	3.0	349	5.6
4	Accidents Except Poisoning by Psychoactive Substance. . . . .	177	4.6	62	2.6	239	3.8
5	Human Immunodeficiency Virus (HIV) Disease. . . . .	171	4.4	63	2.7	234	3.8
6	Intentional Self-harm (Suicide). . . . .	139	3.6	64	2.7	203	3.3
7	Diabetes Mellitus. . . . .	86	2.2	50	2.1	136	2.2
8	Chronic Liver Disease and Cirrhosis. . . . .	95	2.5	37	1.6	132	2.1
9	Chronic Lower Respiratory Diseases. . . . .	61	1.6	56	2.4	117	1.9
10	Cerebrovascular Diseases. . . . .	68	1.8	44	1.9	112	1.8
	All Other Causes. . . . .	760	19.7	462	19.5	1,222	19.6
	Total. . . . .	3,851	100.0	2,374	100.0	6,225	100.0
Rank	Non-Hispanic Black	Deaths	Percent	Deaths	Percent	Deaths	Percent
1	Malignant Neoplasms. . . . .	652	18.1	777	28.0	1,429	22.4
2	Diseases of Heart. . . . .	697	19.4	539	19.4	1,236	19.4
3	Human Immunodeficiency Virus (HIV) Disease. . . . .	513	14.3	298	10.7	811	12.7
4	Assault (Homicide). . . . .	301	8.4	55	2.0	356	5.6
5	Use of or Poisoning by Psychoactive Substance . . . . .	181	5.0	89	3.2	270	4.2
6	Diabetes Mellitus. . . . .	102	2.8	101	3.6	203	3.2
7	Cerebrovascular Diseases. . . . .	108	3.0	94	3.4	202	3.2
8	Accidents Except Poisoning by Psychoactive Substance. . . . .	117	3.3	59	2.1	176	2.8
9	Chronic Lower Respiratory Diseases. . . . .	75	2.1	47	1.7	122	1.9
10	Influenza and Pneumonia. . . . .	65	1.8	54	1.9	119	1.9
	All Other Causes. . . . .	789	21.9	664	23.9	1,453	22.8
	Total. . . . .	3,600	100.0	2,777	100.0	6,377	100.0

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

Totals may not equal 100% due to rounding. Decedents of other and unknown ethnicities are not shown.

\*Beginning January 1, 1999 all causes were coded using ICD-10. See Table 4 for comparability ratios.







**Table 8. Deaths and Death Rates per 100,000 Population from Selected Causes\* by Community District of Residence, New York City, 2003 (Continued)**

Community District	Population 2000 Census	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 & Accidental Poisoning		Accidents Except Drug Poisoning		Intentional Self-harm (Suicide)		Assault*** (Homicide)		Events of Undetermined Intent	
		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
Queens	2,229,379	13,852	6.2	6,690	300.1	3,027	135.8	150	6.7	468	21.0	405	18.2	367	16.5	106	4.8	397	17.8	165	7.4	283	12.7	98	4.4	130	5.8	33	1.5
Astoria, Long Island City (01)	211,220	1,065	5.0	527	249.5	241	114.1	15	7.1	25	11.8	27	12.8	27	12.8	13	6.2	20	9.5	24	11.4	29	13.7	5	2.4	8	3.8	5	2.4
Sunnyside, Woodside (02)	109,920	538	4.9	229	208.3	134	121.9	11	10.0	19	17.3	16	14.6	13	11.8	4	3.6	9	8.2	8	7.3	10	9.1	6	5.5	5	4.5	1	0.9
Jackson Heights (03)	169,083	823	4.9	368	217.6	181	107.0	14	8.3	51	30.2	23	13.6	28	16.6	9	5.3	22	13.0	6	3.5	23	13.6	4	2.4	10	5.9	2	1.2
Elmhurst, Corona (04)	167,005	702	4.2	319	191.0	159	95.2	3	1.8	26	15.6	27	16.2	13	7.8	6	3.6	15	9.0	3	1.8	18	10.8	8	4.8	12	7.2	4	2.4
Ridgewood, Glendale (05)	165,911	1,210	7.3	604	364.1	251	151.3	6	3.6	46	27.7	27	16.3	37	22.3	12	7.2	23	13.9	17	10.2	34	20.5	4	2.4	3	1.8	5	3.0
Rego Park, Forest Hills (06)	115,967	962	8.3	536	462.2	219	188.8	1	0.9	32	27.6	23	19.8	20	17.2	4	3.4	24	20.7	3	2.6	9	7.8	7	6.0	-	-	1	0.9
Flushing (07)	242,952	1,718	7.1	904	372.1	368	151.5	8	3.3	53	21.8	56	23.0	48	19.8	8	3.3	36	14.8	15	6.2	26	10.7	14	5.8	6	2.5	3	1.2
Fresh Meadows, Briarwood (08)	146,594	1,009	6.9	473	322.7	232	158.3	11	7.5	35	23.9	29	19.8	23	15.7	4	2.7	37	25.2	8	5.5	23	15.7	5	3.4	6	4.1	1	0.7
Woodhaven (09)	141,608	683	4.8	302	213.3	147	103.8	7	4.9	22	15.5	31	21.9	17	12.0	11	7.8	32	22.6	8	5.6	20	14.1	7	4.9	5	3.5	4	2.8
Howard Beach (10)	127,274	761	6.0	345	271.1	174	136.7	12	9.4	20	15.7	21	16.5	22	17.3	10	7.9	32	25.1	17	13.4	19	14.9	6	4.7	3	2.4	1	0.8
Bayside (11)	116,404	729	6.3	368	316.1	179	153.8	4	3.4	26	22.3	22	18.9	20	17.2	6	5.2	13	11.2	2	1.7	12	10.3	7	6.0	4	3.4	2	1.7
Jamaica, St. Albans (12)	223,602	1,545	6.9	632	282.6	328	146.7	35	15.7	42	18.8	62	27.7	33	14.8	13	5.8	79	35.3	27	12.1	28	12.5	7	3.1	35	15.7	3	1.3
Queens Village (13)	196,284	962	4.9	400	203.8	236	120.2	10	5.1	37	18.9	28	14.3	19	9.7	5	2.5	30	15.3	14	7.1	21	10.7	9	4.6	18	9.2	-	-
The Rockaways (14)	106,686	1,137	10.7	681	638.3	173	162.2	13	12.2	33	30.9	13	12.2	47	44.1	1	0.9	25	23.4	13	12.2	11	10.3	9	8.4	15	14.1	1	0.9
Staten Island	443,728	3,499	7.9	1,580	356.1	829	186.8	41	9.2	232	52.3	92	20.7	154	34.7	22	5.0	96	21.6	26	5.9	56	12.6	29	6.5	14	3.2	7	1.6
Port Richmond (01)	162,609	1,294	8.0	544	334.5	281	172.8	30	18.4	100	61.5	33	20.3	61	37.5	14	8.6	40	24.6	12	7.4	25	15.4	9	5.5	11	6.8	4	2.5
Willowbrook, South Beach (02)	127,071	1,159	9.1	553	435.2	259	203.8	10	7.9	89	70.0	28	22.0	55	43.3	5	3.9	32	25.2	8	6.3	11	8.7	4	3.1	-	-	2	1.6
Tottenville (03)	152,908	1,045	6.8	483	315.9	289	189.0	1	0.7	43	28.1	31	20.3	38	24.9	2	1.3	24	15.7	6	3.9	20	13.1	16	10.5	3	2.0	1	0.7

Note: Borough populations, which are county census figures, do not equal the sum of the community district populations, which are based on service delivery areas. See the Technical Notes for a discussion of the number, construction and names of community districts. Non-residents and residence unknown are not shown.

\* Beginning January 1, 1999 all causes were coded using ICD-10. See Technical Notes for cause-of-death coding.

\*\* Deaths include events to non-residents.

\*\*\* In 2002 and earlier years, deaths from legal interventions were included in Homicide. Comparisons with previous years should be made with caution.

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

Table 9.

**Deaths by Place of Death  
New York City, 1993 - 2003**

Place of Death	1993*	1994	1995	1996	1997	1998	1999	2000	2001**	2002	2003
Home.....	13,943	12,822	12,973	12,197	11,800	11,647	11,911	11,163	11,150	10,944	10,843
Hospital											
Voluntary.....	39,682	39,103	39,609	37,288	34,612	33,911	34,825	34,208	33,418	33,565	33,307
Proprietary.....	2,638	2,520	1,928	1,837	1,672	1,460	1,198	842	845	740	737
Municipal.....	8,845	8,231	7,710	7,046	6,158	5,716	5,784	5,598	5,534	5,362	5,277
Other Government.....	1,213	1,172	1,053	959	925	812	847	866	790	715	689
Nursing Home.....	4,564	5,110	5,551	5,753	5,746	5,880	6,475	6,632	6,621	6,735	6,790
Other Specified Place.....	2,523	2,080	1,945	1,704	1,593	1,584	1,430	1,530	1,860	1,590	1,570
Total.....	73,408	71,038	70,769	66,784	62,506	61,010	62,470	60,839	60,218	59,651	59,213

\* Numbers for "Other Specified Place" are corrected from previous Summaries. \*\*World Trade Center disaster deaths are not included in 2001.

Table 10.

**Deaths by Decedent Ancestry and Borough of Residence  
New York City, 2003\***

Ancestry	Total	Borough of Residence					Non-Residents	Residence Unknown
		Manhattan	Bronx	Brooklyn	Queens	Staten Island		
Puerto Rican.....	4,957	1,048	1,923	1,292	422	104	147	21
Dominican.....	1,185	471	338	172	165	6	32	1
Colombian.....	259	31	12	24	171	4	17	-
Ecuadorian.....	297	38	57	52	133	4	12	1
Mexican.....	220	39	47	58	46	9	19	2
Cuban.....	442	155	70	61	119	12	25	-
Other Hispanic.....	1,442	274	371	391	299	26	60	21
African-American.....	11,078	2,282	2,430	3,692	2,066	192	369	47
American.....	11,122	2,617	1,174	2,814	2,609	895	991	22
Guyanese.....	489	8	49	211	206	1	14	-
Haitian.....	501	30	15	277	146	5	27	1
Jamaican.....	663	25	209	327	73	3	24	2
Trinidadian.....	313	25	13	210	44	6	15	-
All Other North, Central and South American	887	76	118	459	172	15	44	3
English.....	291	71	21	34	77	45	43	-
German.....	1,245	244	116	122	540	93	127	3
Irish.....	2,514	273	320	436	865	347	265	8
Italian.....	5,935	362	671	1,923	1,539	1,027	401	12
Polish.....	1,280	166	123	483	371	62	74	1
Russian.....	1,119	124	64	628	231	41	26	5
Other European.....	2,845	450	208	958	927	158	138	6
Asian Indian.....	196	16	11	18	101	14	34	2
Bangladeshi.....	58	4	7	13	30	1	3	-
Chinese.....	1,525	482	32	458	490	27	35	1
Filipino.....	175	32	8	23	82	10	19	1
Korean.....	262	12	9	13	188	14	26	-
Pakistani.....	79	1	5	31	33	2	7	-
Other Asian.....	402	71	32	101	136	16	44	2
Jewish or Hebrew.....	1,519	171	121	835	212	31	144	5
Other & Not Stated.....	5,913	1,083	1,092	1,280	1,359	329	579	191
Total.....	59,213	10,681	9,666	17,396	13,852	3,499	3,761	358

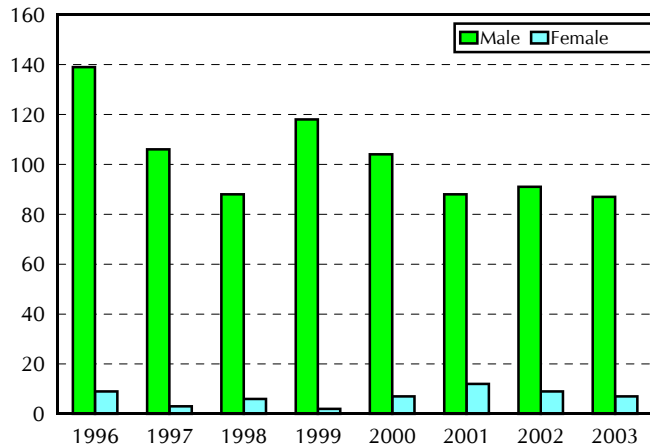
\* See Technical Notes for a discussion of race and ancestry.

Table 11.

**Selected Characteristics of Deaths Due to Fatal Occupational Injuries  
New York City, 2003**

Characteristic	All Deaths	Sex		Age Group				
		Male	Female	<25	25-34	35-44	45-54	55+
<b>Selected Events</b>								
Transportation incident.....	12	11	1	0	5	2	3	2
Assaults and violent acts.....	43	39	4	6	11	13	8	5
Homicide.....	32	29	3	4	10	8	8	2
Shooting.....	24	23	1	3	7	8	5	1
Falls.....	14	13	1	4	3	2	5	0
<b>Selected Industries*</b>								
Construction.....	23	23	0	4	7	6	5	1
Taxicabs.....	3	3	0	0	1	0	2	0
Grocery stores.....	7	7	0	1	0	3	3	0
Eating and drinking places.....	7	6	1	1	3	1	1	1
Police and fire protection.....	5	4	1	0	2	3	0	0
<b>Race / Ethnicity</b>								
White.....	37	35	2	4	8	7	9	9
Black.....	22	20	2	2	6	10	4	0
Hispanic.....	28	26	2	5	9	5	6	3
Asian.....	7	6	1	0	1	1	4	1
Total.....	94	87	7	11	24	23	23	13

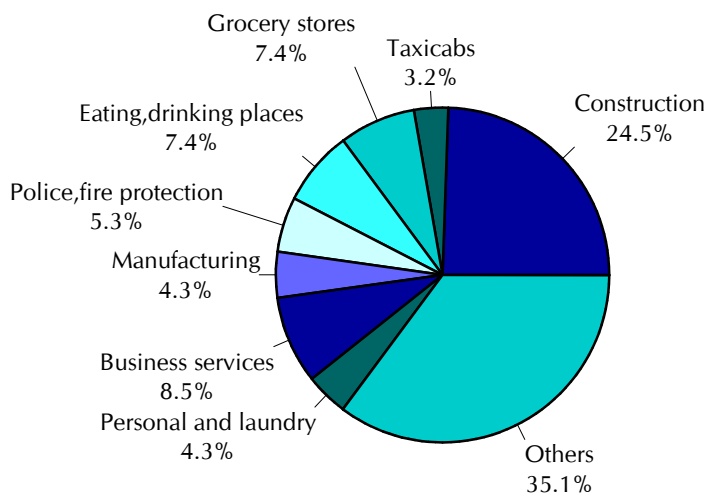
\* Beginning in 2003, coding for industries was changed from Standard Industrial Classification (SIC) to North American Industry Classification System (NAICS). See Technical Notes.



**Figure 2. Fatal Occupational Injuries by Sex  
New York City, 1996-2003**

Fatal occupational injuries dropped to about 100 deaths during the past three years. Males have a much higher percentage of fatal injuries than females, accounting for about 90% of the overall occupational injury deaths.

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



**Figure 3. Fatal Occupational Injuries  
by Selected Industries  
New York City, 2003**

One out of four fatal occupational injuries in New York City were in the construction industry in 2003. This industry recorded the highest number of fatal work injuries among all industries in New York City and the nation. Business services, eating and drinking places, and grocery stores were the industries that also had high numbers of fatal occupational injuries.

All fatal occupational injuries that occurred in grocery stores, taxicabs, and personal and laundry services were homicides; all but one fatal occupational injury that occurred in eating and drinking places were homicides.

Table 12.

**Deaths by Decedent Birthplace and Borough of Residence  
New York City, 2003**

Birthplace	Total	Borough of Residence					Non-Residents	Residence Unknown
		Manhattan	Bronx	Brooklyn	Queens	Staten Island		
Bangladesh.....	68	5	7	16	36	1	3	-
China.....	1,354	455	29	396	420	21	32	1
Colombia.....	263	31	11	24	174	4	19	-
Cuba.....	462	163	75	65	123	13	23	-
Dominican Republic.....	1,173	464	339	170	164	6	28	2
Ecuador.....	305	39	61	59	129	5	11	1
El Salvador.....	79	13	10	16	32	2	6	-
Germany.....	559	171	58	62	207	18	41	2
Guyana.....	639	18	60	256	283	4	17	1
Haiti.....	600	31	18	358	153	4	34	2
Honduras.....	106	23	35	27	15	1	5	-
India.....	211	19	8	21	106	15	40	2
Ireland.....	451	61	124	72	144	13	37	-
Israel.....	114	11	5	61	18	2	16	1
Italy.....	1,431	72	213	480	410	156	100	-
Jamaica.....	1,070	54	304	433	225	4	49	1
Korea.....	260	9	9	13	190	14	25	-
Mexico.....	192	32	43	55	39	9	14	-
Pakistan.....	60	2	4	26	22	1	5	-
Philippines.....	181	31	8	24	83	11	23	1
Poland.....	1,100	145	121	489	259	20	63	3
Puerto Rico.....	4,305	934	1,716	1,121	327	88	102	17
Russia.....	843	94	76	427	192	31	20	3
Trinidad and Tobago.....	501	39	31	293	104	6	27	1
Ukraine.....	914	54	15	694	116	21	12	2
United States.....	35,251	6,504	5,370	9,591	8,165	2,827	2,694	100
Other & Not Stated.....	6,721	1,207	916	2,147	1,716	202	315	218
Total.....	59,213	10,681	9,666	17,396	13,852	3,499	3,761	358

Table 13.

**Deaths by Decedent Birthplace and Age  
New York City, 2003**

Birthplace	Total	Age									Unknown
		< 15	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	
Bangladesh.....	68	-	3	4	5	7	22	16	10	1	-
China.....	1,354	-	3	17	32	83	112	288	429	390	-
Colombia.....	263	1	7	6	18	24	52	55	58	42	-
Cuba.....	462	-	1	2	11	28	39	107	148	126	-
Dominican Republic.....	1,173	8	28	46	88	145	178	255	257	168	-
Ecuador.....	305	3	11	21	25	26	45	67	54	53	-
El Salvador.....	79	1	4	6	10	11	11	11	13	12	-
Germany.....	559	-	2	3	2	13	33	61	151	294	-
Guyana.....	639	-	8	17	35	85	105	151	152	86	-
Haiti.....	600	1	7	12	38	92	90	129	126	105	-
Honduras.....	106	-	3	5	11	10	20	28	20	9	-
India.....	211	-	2	8	15	26	45	43	46	26	-
Ireland.....	451	-	1	2	5	5	32	72	101	233	-
Israel.....	114	3	-	3	8	23	16	26	17	18	-
Italy.....	1,431	1	1	1	9	33	89	204	412	681	-
Jamaica.....	1,070	4	20	34	58	116	165	212	252	209	-
Korea.....	260	1	-	5	13	33	51	43	65	49	-
Mexico.....	192	2	25	38	40	32	12	14	17	12	-
Pakistan.....	60	-	3	4	9	15	7	13	5	4	-
Philippines.....	181	2	3	3	10	7	38	34	39	45	-
Poland.....	1,100	-	6	3	13	46	49	57	303	623	-
Puerto Rico.....	4,305	3	16	45	174	453	812	1,016	1,024	762	-
Russia.....	843	-	4	3	18	27	63	102	195	431	-
Trinidad and Tobago.....	501	-	9	19	41	63	100	102	111	56	-
Ukraine.....	914	-	4	6	14	32	61	148	339	310	-
United States.....	35,251	1,037	462	748	1,726	3,184	4,137	5,788	9,179	8,990	-
Other & Not Stated.....	6,721	20	61	152	311	648	765	1,079	1,688	1,992	5
Total.....	59,213	1,087	694	1,213	2,739	5,267	7,149	10,121	15,211	15,727	5

**DEATHS DUE TO EXTERNAL CAUSES\* BY AGE AND SEX, NEW YORK CITY, 2003**

**Table 14. Accidents**

Type	All Ages	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		75+		Unknown	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Total	1,198	12	11	9	2	9	6	25	14	58	14	100	26	109	27	117	56	83	44	79	46	156	195	-	-
Motor Vehicle																									
Injury to pedestrian	189	2	1	3	1	3	-	3	3	3	4	14	7	16	4	15	7	20	9	17	8	25	24	-	-
Injury to pedal cyclist	11	-	-	-	-	-	-	-	-	3	-	1	-	1	-	3	1	1	-	1	-	-	-	-	-
Injury to occupant	68	-	-	-	-	-	1	3	4	7	1	21	1	10	1	5	1	4	1	3	1	2	2	-	-
Other motor vehicle accidents	116	-	2	-	-	-	1	9	4	17	6	21	7	7	-	7	6	6	4	8	3	4	4	-	-
Railway (includes subway)	18	-	-	-	-	1	-	1	-	3	-	1	1	2	-	7	1	1	-	-	-	-	-	-	-
Other land transport accidents	14	-	-	-	-	2	-	-	-	2	-	3	-	2	-	2	1	1	-	1	-	-	-	-	-
Water transport	12	-	-	-	-	-	-	-	-	1	-	2	-	4	2	3	-	-	-	-	-	-	-	-	-
Other transport accidents	13	-	-	-	-	-	-	-	-	1	-	1	-	3	3	2	1	1	1	-	-	-	-	-	-
Fall	414	3	2	-	-	1	1	4	-	6	2	13	3	21	2	35	6	22	15	28	18	103	129	-	-
Firearm discharge	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Drowning and submersion	12	-	-	-	-	-	-	-	1	2	-	3	-	1	1	1	1	-	-	1	1	-	-	-	-
Smoke, fire and flames	108	2	1	4	1	1	2	1	1	1	-	6	4	8	6	5	8	9	6	7	7	7	21	-	-
Poisoning by psychoactive substances	51	-	-	-	-	-	-	-	-	3	1	3	2	12	4	10	8	2	1	2	1	1	1	-	-
Poisoning by other noxious substances	22	-	1	-	-	-	-	-	1	2	-	5	-	3	2	3	-	1	1	3	-	-	-	-	-
Exposure to excessive natural heat	6	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	1	-	1	1	-	-	1	-	-
Exposure to excessive natural cold	26	-	-	-	-	-	-	4	-	3	-	-	-	3	-	5	2	5	-	3	-	-	1	-	-
Other nontransport accidents	116	5	4	2	-	-	1	-	-	4	-	5	1	15	2	13	12	10	5	4	7	14	12	-	-

**Table 15. Intentional Self-harm (Suicide)**

Method	All Ages	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		75+		Unknown	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Total	484	-	-	-	-	-	1	14	4	30	6	65	21	61	26	57	27	53	23	31	13	36	15	1	-
Poisoning by noxious substances	73	-	-	-	-	-	-	1	1	1	-	3	7	11	10	4	14	6	5	1	4	3	2	-	-
Hanging, strangulation and suffocation	144	-	-	-	-	-	1	5	2	8	2	25	8	22	4	19	3	14	5	7	3	10	6	-	-
Drowning and submersion	13	-	-	-	-	-	-	1	-	4	-	3	-	-	-	1	-	1	-	2	-	1	-	-	-
Firearm discharge	82	-	-	-	-	-	-	3	-	7	3	17	1	8	2	10	1	12	-	10	-	8	-	-	-
Sharp or blunt object	25	-	-	-	-	-	-	-	-	-	-	2	-	4	1	5	1	4	1	1	2	4	-	-	-
Jumping from high place	115	-	-	-	-	-	-	4	1	8	1	12	3	13	9	11	4	11	11	8	3	8	7	1	-
Jumping or lying before moving object	24	-	-	-	-	-	-	-	-	2	-	1	2	2	-	5	4	5	-	2	-	1	-	-	-
Other and unspecified means	8	-	-	-	-	-	-	-	-	-	-	2	-	1	-	2	-	-	1	-	1	1	-	-	-

Continued on next page.

DEATHS DUE TO EXTERNAL CAUSES\* BY AGE AND SEX, NEW YORK CITY, 2003 (CONTINUED)

Table 16. Assault (Homicide) and Legal Intervention

Method	All Ages	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		75+		Unknown	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Total	667	10	11	1	4	1	2	70	8	136	18	168	27	79	18	44	13	18	6	13	6	5	8	1	-
Poisoning by noxious substances	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Hanging, strangulation and suffocation	35	3	2	-	-	-	-	-	3	1	3	2	3	1	7	2	2	1	1	2	1	-	1	-	-
Drowning and submersion	5	1	2	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Firearm discharge	397	2	-	1	-	-	-	50	3	111	7	130	10	40	3	22	4	5	2	2	2	-	2	1	-
Smoke, fire and flames	17	1	1	-	1	-	1	1	-	2	2	1	-	-	2	1	-	1	-	1	-	2	-	-	-
Sharp or blunt object	114	-	-	-	2	1	1	12	1	17	2	23	9	15	3	10	2	6	1	4	1	1	3	-	-
Pushing from high place	4	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-
Neglect, abandonment & other maltreatment	7	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other and unspecified means	68	-	2	-	-	-	-	5	1	4	2	4	3	15	3	9	5	5	2	3	2	1	2	-	-
Sequelae (Late effects)	9	-	-	-	-	-	-	-	-	1	-	3	-	3	-	-	-	-	-	1	-	1	-	-	-
Legal intervention, all	10	-	-	-	-	-	-	2	-	-	-	4	-	4	-	-	-	-	-	-	-	-	-	-	-

Note: Legal intervention includes 9 deaths from firearm discharge. See Technical Notes on External Causes of Death.

Table 17. Events of Undetermined Intent

Method	All Ages	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		75+		Unknown	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Total	189	20	10	-	1	-	-	2	-	3	-	20	5	30	11	33	12	13	8	7	4	5	4	1	-
Poisoning by noxious substances	22	-	-	-	-	-	-	-	-	-	-	2	1	6	3	3	5	1	1	-	-	-	-	-	-
Drowning and submersion	14	-	-	-	-	-	-	-	-	2	-	5	-	3	1	1	-	1	-	1	-	-	-	-	-
Firearm discharge	3	-	-	-	-	-	-	-	-	1	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-
Smoke, fire and flames	3	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1	-	-	-	-	-	-	-	-
Sharp or blunt object	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Falling from high place	5	-	-	-	-	-	-	-	-	-	-	2	-	-	2	1	-	-	-	-	-	-	-	-	-
Other and unspecified means	141	20	10	-	1	-	-	1	-	-	-	10	3	21	5	27	6	10	7	6	4	5	4	1	-

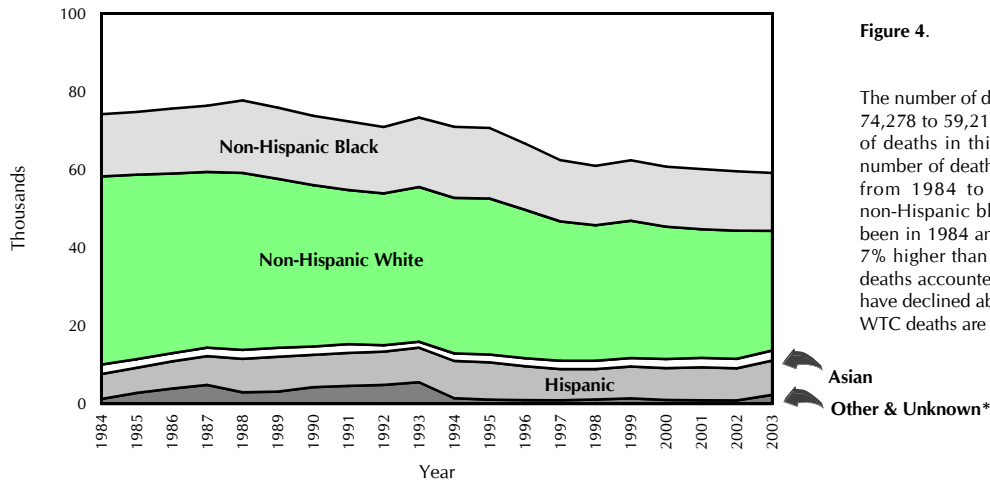
Table 18. Complications of Medical and Surgical Care

Method	All Ages	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		75+		Unknown	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Complications of medical and surgical care	37	-	-	-	-	-	-	1	1	-	-	-	3	3	-	3	1	3	7	3	4	2	6	-	-

Table 19. Firearms (All Causes)

Method	All Ages	0-4		5-9		10-14		15-19		20-24		25-34		35-44		45-54		55-64		65-74		75+		Unknown	
		Male	Female	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)	493	2	-	1	-	1	-	55	3	119	10	151	11	52	5	34	5	17	2	12	2	8	2	1	-

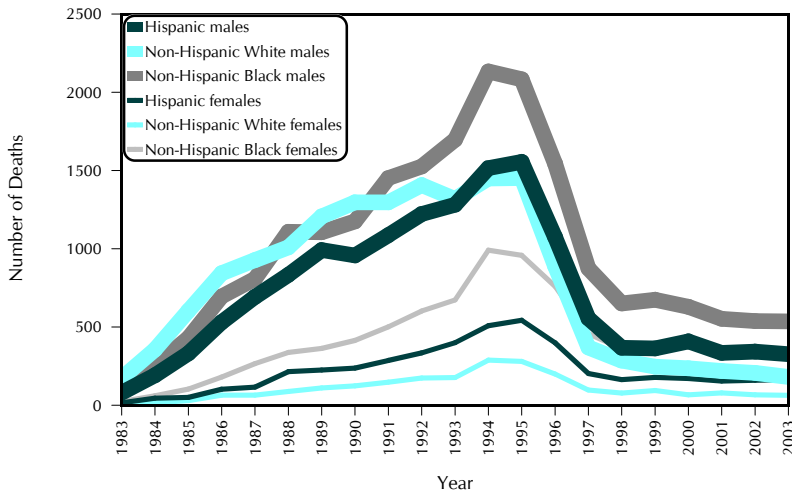
\* Beginning January 1, 1999 all causes were coded using ICD-10. See Technical Notes for detailed descriptions of ICD-10.



**Figure 4.** Deaths by Ethnic Group of Decedents  
New York City, 1984-2003

The number of deaths from 1984 to 2003 declined 19%, from 74,278 to 59,215, and declined 23% from the peak number of deaths in this period, 77,817 in 1988. However, the number of deaths among Hispanics was about 38% greater from 1984 to 2003. The number of deaths among non-Hispanic blacks was a little lower in 2003 than it had been in 1984 and the number of deaths among Asians was 7% higher than it had been in 1984. Non-Hispanic white deaths accounted for most of the overall deaths. Its deaths have declined about one third since 1984. WTC deaths are not included in this graph for the year 2001.

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



**Figure 5.** Deaths Due to HIV Disease  
by Sex and Selected Ethnic Group  
New York City, 1983-2003

The number of deaths due to HIV disease decreased 3.3% from 2002 to 2003 to 1,656, comparable to the 1985 level before it peaked at 7,102 in 1994. The number of deaths among all ethnic groups decreased from 2002 to 2003, except Hispanic females. The effect of changes between ICD- 9 and ICD-10, implemented in 1999, can be determined by using the comparability ratio of 1.08. See Technical Notes for a discussion of HIV disease and AIDS as a cause of death and Cause of Death coding.

Table 20.

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

AGE GROUP/ETHNIC GROUP	ALL											1983-1993	1994	1995	
	1983-1993	1994	1995	1996	1997	1998	1999	2000	2001	2002*	2003				
ALL AGES	Total	38,690	7,102	7,046	4,998	2,625	1,978	2,020	1,961	1,774	1,713	1,656	31,556	5,267	5,240
	Puerto Rican	6,416	1,474	1,514	1,105	571	381	404	413	369	359	323	4,973	1,075	1,082
	Other Hispanic	3,808	550	584	368	187	150	137	166	121	144	167	3,225	441	473
	Asian & Pacific Islander	259	36	54	27	20	12	13	13	8	14	8	232	31	52
	Other White	11,446	1,738	1,732	1,088	466	363	341	303	298	274	245	10,440	1,449	1,452
	Other Black	13,890	3,124	3,041	2,303	1,331	1,013	1,032	1,008	911	872	846	10,364	2,133	2,083
	Other & Unknown	2,871	180	121	107	50	59	93	58	67	50	67	2,322	138	98
UNDER 1	Total	242	31	14	13	5	2	1	3	1	1	1	122	11	12
	Puerto Rican	36	5	-	1	-	-	-	-	-	-	-	22	2	-
	Other Hispanic	27	-	1	-	-	-	-	-	1	1	-	14	-	1
	Asian & Pacific Islander	1	-	-	-	-	-	-	-	-	-	-	1	-	-
	Other White	31	8	3	5	-	1	-	-	-	-	-	20	3	3
	Other Black	132	16	9	6	5	1	1	3	-	-	1	59	6	7
	Other & Unknown	15	2	1	1	-	-	-	-	-	-	-	6	-	1
1-14	Total	554	96	113	92	36	15	18	7	6	5	9	284	51	53
	Puerto Rican	100	19	20	16	8	3	-	1	-	-	-	50	13	9
	Other Hispanic	68	8	8	7	3	-	3	-	-	2	1	37	5	4
	Asian & Pacific Islander	4	1	1	-	-	-	-	-	-	-	-	2	1	-
	Other White	70	15	34	21	3	3	4	2	1	-	1	36	6	19
	Other Black	274	51	49	45	21	9	11	3	5	3	7	144	25	21
	Other & Unknown	38	2	1	3	1	-	-	1	-	-	-	15	1	-
15-24	Total	716	92	72	33	23	20	21	22	24	20	18	465	53	38
	Puerto Rican	168	19	16	9	5	2	2	2	3	6	1	107	9	7
	Other Hispanic	83	12	9	5	2	1	1	2	2	3	4	64	8	5
	Asian & Pacific Islander	3	1	2	-	-	-	-	-	-	-	1	1	1	2
	Other White	118	11	13	4	2	2	1	1	1	2	-	80	8	8
	Other Black	289	48	30	12	13	13	17	17	18	9	12	179	27	15
	Other & Unknown	55	1	2	3	1	2	-	-	-	-	-	34	-	1
25-34	Total	11,186	1,514	1,538	936	434	314	252	233	194	140	123	8,538	1,002	1,028
	Puerto Rican	2,248	336	367	220	95	55	56	55	31	24	20	1,662	215	237
	Other Hispanic	1,261	139	134	77	38	31	23	29	20	15	15	1,021	109	110
	Asian & Pacific Islander	51	7	16	5	5	2	2	1	1	1	-	44	5	16
	Other White	2,902	364	366	180	78	52	32	21	17	13	10	2,526	279	282
	Other Black	3,937	640	634	442	210	166	132	120	117	83	75	2,686	377	366
	Other & Unknown	787	28	21	12	8	8	7	7	8	4	3	599	17	17
35-44	Total	16,754	3,238	3,119	2,134	1,099	778	767	695	638	624	568	13,980	2,408	2,308
	Puerto Rican	2,651	676	647	448	253	151	167	152	142	131	114	2,125	513	466
	Other Hispanic	1,497	224	241	152	79	69	58	60	40	62	60	1,307	179	192
	Asian & Pacific Islander	118	14	14	10	7	3	3	6	4	4	3	111	12	14
	Other White	5,050	835	812	496	216	160	152	121	118	101	85	4,667	696	682
	Other Black	6,205	1,402	1,356	988	527	375	353	339	309	312	281	4,760	939	917
	Other & Unknown	1,233	87	49	40	17	20	34	17	25	14	25	1,010	69	37
45-54	Total	6,613	1,543	1,599	1,313	734	595	669	706	629	641	640	5,866	1,255	1,312
	Puerto Rican	935	323	347	306	156	119	133	140	133	125	127	782	249	269
	Other Hispanic	626	106	123	79	45	33	29	55	32	41	58	563	91	101
	Asian & Pacific Islander	60	10	14	6	4	4	2	3	1	6	4	56	9	14
	Other White	2,281	360	369	293	127	112	111	117	109	116	103	2,180	325	337
	Other Black	2,176	702	705	594	385	307	357	367	329	327	322	1,811	547	552
	Other & Unknown	535	42	41	35	17	20	37	24	25	26	26	474	34	39
55 & OVER	Total	2,625	588	591	477	294	254	292	295	282	282	296	2,301	487	489
	Puerto Rican	278	96	117	105	54	51	46	63	60	73	61	225	74	94
	Other Hispanic	246	61	68	48	20	16	23	20	26	20	29	219	49	60
	Asian & Pacific Islander	22	3	7	6	4	3	6	3	2	3	-	17	3	6
	Other White	994	145	135	89	40	33	41	41	52	42	46	931	132	121
	Other Black	877	265	258	216	170	142	161	159	133	138	148	725	212	205
	Other & Unknown	208	18	6	13	6	9	15	9	9	6	12	184	17	3

Note: For 1983-1986, only AIDS was recognized as a cause of death and coded 279.1; from 1987 through 1998, AIDS was coded 042 and other HIV diseases were coded 043-044. Under ICD-10, beginning in 1999, HIV disease is coded to B20-B24. In 1982, 30 deaths were attributed to AIDS.

Tables showing deaths due to AIDS alone for 1983-1996 can be found in the Vital Statistics Summaries for 1987-1996.

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

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



New York City, 1983-2003

MALE								FEMALE											
1996	1997	1998	1999	2000	2001	2002	2003	1983-1993	1994	1995	1996	1997	1998	1999	2000	2001	2002*	2003	
3,616	1,850	1,358	1,372	1,333	1,166	1,138	1,100	7,134	1,835	1,806	1,382	775	620	648	628	608	575	556	
784	401	253	265	285	240	239	213	1,443	399	432	321	170	128	139	128	129	120	110	
290	154	114	98	123	95	104	113	583	109	111	78	33	36	39	43	26	40	54	
23	16	10	11	11	7	11	8	27	5	2	4	4	2	2	2	1	3	-	
888	369	285	247	236	219	207	181	1,006	289	280	200	97	78	94	67	79	67	64	
1,543	874	651	674	629	552	538	536	3,526	991	958	760	457	362	358	379	359	334	310	
88	36	45	77	49	53	39	49	549	42	23	19	14	14	16	9	14	11	18	
7	2	1	1	1	1	-	-	120	20	2	6	3	1	-	2	-	1	1	
-	-	-	-	-	-	-	-	14	3	-	1	-	-	-	-	-	-	-	
-	-	-	-	-	1	-	-	13	-	-	-	-	-	-	-	-	1	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	-	1	-	-	-	-	-	11	5	-	1	-	-	-	-	-	-	-	
2	2	-	1	1	-	-	-	73	10	2	4	3	1	-	2	-	-	1	
1	-	-	-	-	-	-	-	9	2	-	-	-	-	-	-	-	-	-	
48	20	7	10	3	2	3	3	270	45	60	44	16	8	8	4	4	2	6	
9	5	2	-	-	-	-	-	50	6	11	7	3	1	-	1	-	-	-	
2	2	-	2	-	-	2	-	31	3	4	5	1	-	1	-	-	1	-	
-	-	-	-	-	-	-	-	2	-	1	-	-	-	-	-	-	-	-	
13	2	1	2	2	1	-	1	34	9	15	8	1	2	2	-	-	-	-	
22	10	4	6	1	1	1	2	130	26	28	23	11	5	5	2	4	2	5	
2	1	-	-	-	-	-	-	23	1	1	1	-	-	-	1	-	-	-	
15	12	8	7	8	9	11	7	251	39	34	18	11	12	14	14	15	9	11	
3	3	-	-	1	-	3	1	61	10	9	6	2	2	2	1	3	3	-	
2	2	1	-	-	1	2	2	19	4	4	3	-	-	1	2	1	1	2	
-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	
3	2	1	-	-	-	2	-	38	3	5	1	-	1	1	1	1	-	-	
6	5	5	7	7	8	4	3	110	21	15	6	8	8	10	10	10	5	9	
1	-	1	-	-	-	-	-	21	1	1	2	1	1	-	-	-	-	-	
619	277	183	151	133	102	72	76	2,648	512	510	317	157	131	101	100	92	68	47	
148	61	29	34	30	15	10	12	586	121	130	72	34	26	22	25	16	14	8	
56	28	19	15	23	17	10	12	240	30	24	21	10	12	8	6	3	5	3	
3	5	1	1	-	1	1	-	7	2	-	2	-	1	1	-	-	-	-	
125	56	38	20	13	8	8	8	376	85	84	55	22	14	12	8	9	5	2	
276	122	90	76	62	58	41	43	1,251	263	268	166	88	76	56	58	59	42	32	
11	5	6	5	5	3	2	1	188	11	4	1	3	2	2	2	5	2	2	
1,517	754	498	489	456	387	383	330	2,774	830	811	617	345	280	278	239	251	241	238	
318	175	100	103	103	84	83	65	526	163	181	130	78	51	64	49	58	48	49	
121	63	52	42	40	27	41	32	190	45	49	31	16	17	16	20	13	21	28	
9	6	3	3	6	4	3	3	7	2	-	1	1	-	-	-	-	1	-	
396	165	118	104	95	80	67	55	383	139	130	100	51	42	48	26	38	34	30	
646	336	211	209	198	171	179	156	1,445	463	439	342	191	164	144	141	138	133	125	
27	9	14	28	14	21	10	19	223	18	12	13	8	6	6	3	4	4	6	
1,019	549	461	474	499	443	455	451	747	288	287	294	185	134	195	207	186	186	189	
229	120	83	88	102	98	86	91	153	74	78	77	36	36	45	38	35	39	36	
67	42	28	22	44	27	32	45	63	15	22	12	3	5	7	11	5	9	13	
5	3	4	2	3	-	6	4	4	1	-	1	1	-	-	-	1	-	-	
264	107	99	82	94	86	93	77	101	35	32	29	20	13	29	23	23	23	26	
421	262	230	250	234	211	215	216	365	155	153	173	123	77	107	133	118	112	106	
33	15	17	30	22	21	23	18	61	8	2	2	2	3	7	2	4	3	8	
391	236	200	240	233	222	214	232	324	101	102	86	58	54	52	62	60	68	64	
77	37	39	40	49	43	57	44	53	22	23	28	17	12	6	14	17	16	17	
42	17	14	17	16	22	17	22	27	12	8	6	3	2	6	4	4	3	7	
6	2	2	5	2	2	1	-	5	-	1	-	2	1	1	1	-	2	-	
83	37	27	39	32	44	37	40	63	13	14	6	3	6	2	9	8	5	6	
170	137	111	125	126	103	98	116	152	53	53	46	33	31	36	33	30	40	32	
13	6	7	14	8	8	4	10	24	1	3	-	-	2	1	1	1	2	2	

Table 21.

## Characteristics of Decedents with Selected Causes of Death, New York City, 2003

Cause of Death	Total	Race/Ethnic Group*												Sex, Marital Status, and Age							
		Puerto Rican		Other Hispanic		Asian		Non-Hispanic White		Non-Hispanic Black		Other & Unknown		Male		Never Married		Age Under 20		Age 65 or Over	
		Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
All Causes.....	59,213	4,957	8.4	3,845	6.5	2,562	4.3	30,705	51.9	14,828	25.0	2,316	3.9	28,606	48.3	13,049	22.0	1,342	2.3	41,059	69.3
HIV Disease.....	1,656	323	19.5	167	10.1	8	0.5	245	14.8	846	51.1	67	4.0	1,100	66.4	1,011	61.1	16	1.0	63	3.8
Cancer of Colon, Rectum and Anus.....	1,638	139	8.5	86	5.3	72	4.4	896	54.7	399	24.4	46	2.8	777	47.4	273	16.7	1	0.1	1,182	72.2
Cancer of Trachea, Bronchus and Lung, Male.....	1,738	115	6.6	83	4.8	116	6.7	976	56.2	384	22.1	64	3.7	1,738	100.0	282	16.2	0	0.0	1,136	65.4
Cancer of Trachea, Bronchus and Lung, Female.....	1,436	71	4.9	52	3.6	50	3.5	876	61.0	346	24.1	41	2.9	0	0.0	214	14.9	1	0.1	998	69.5
Cancer of Breast, Female.....	1,249	75	6.0	77	6.2	46	3.7	656	52.5	350	28.0	45	3.6	0	0.0	245	19.6	0	0.0	674	54.0
Cancer of Prostate.....	788	47	6.0	57	7.2	24	3.0	380	48.2	261	33.1	19	2.4	788	100.0	93	11.8	0	0.0	700	88.8
Chronic Liver Disease & Cirrhosis.....	520	107	20.6	52	10.0	13	2.5	207	39.8	116	22.3	25	4.8	361	69.4	144	27.7	0	0.0	155	29.8
Mental & Behavior Disorder Due to Use of Alcohol.....	294	41	13.9	35	11.9	14	4.8	110	37.4	78	26.5	16	5.4	245	83.3	103	35.0	1	0.3	41	13.9
Use & Accidental Poisoning Psychoactive Substance.....	960	154	16.0	104	10.8	6	0.6	355	37.0	280	29.2	61	6.4	728	75.8	485	50.5	13	1.4	25	2.6
Motor Vehicle Accidents.....	384	35	9.1	67	17.4	31	8.1	151	39.3	88	22.9	12	3.1	265	69.0	173	45.1	40	10.4	102	26.6
Accidental Falls.....	414	35	8.5	36	8.7	23	5.6	236	57.0	70	16.9	14	3.4	236	57.0	88	21.3	11	2.7	278	67.1
Other Accidents, Excluding Accidental Poisoning.....	349	28	8.0	53	15.2	11	3.2	151	43.3	91	26.1	15	4.3	223	63.9	141	40.4	37	10.6	91	26.1
Intentional Self-harm (Suicide).....	484	25	5.2	54	11.2	44	9.1	269	55.6	73	15.1	19	3.9	348	71.9	241	49.8	19	3.9	95	19.6
Assault (Homicide)**.....	657	53	8.1	108	16.4	21	3.2	85	12.9	369	56.2	21	3.2	536	81.6	469	71.4	105	16.0	32	4.9
Events of Undetermined Intent.....	189	17	9.0	18	9.5	13	6.9	78	41.3	43	22.8	20	10.6	134	70.9	96	50.8	33	17.5	20	10.6
All Other Causes.....	46,457	3,692	7.9	2,796	6.0	2,070	4.5	25,034	53.9	11,034	23.8	1,831	3.9	21,127	45.5	8,991	19.4	1,065	2.3	35,467	76.3

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

\*\*\* In 2002 and earlier years, deaths from legal interventions were included in Homicide. Comparisons with previous years should be made with caution. See Table 4 or Table 16 for number of deaths from legal interventions.

See Technical Notes and Special Note on Multiple Race for the impact of change.

**Table 22. Life Expectancy at Specified Ages by Sex and Ethnic Group, New York City, 1990 and 2000**

Exact Age	Male							
	1990				2000*			
	Total	Hispanic	Non-Hispanic White	Non-Hispanic Black	Total	Hispanic	Non-Hispanic White	Non-Hispanic Black
0	67.7	70.5	70.0	60.0	74.5	76.1	74.9	69.1
1	67.6	70.0	70.1	60.3	74.0	75.4	74.5	69.0
5	63.8	66.2	66.2	56.5	70.1	71.4	70.6	65.1
10	58.8	61.2	61.3	51.6	65.2	66.5	65.7	60.2
15	53.9	56.3	56.4	46.7	60.2	61.5	60.8	55.3
20	49.4	51.7	51.6	42.4	55.4	56.6	55.9	50.6
25	45.0	47.4	46.9	38.3	50.7	51.9	51.2	46.1
30	40.7	43.4	42.3	34.4	46.0	47.1	46.4	41.6
35	36.7	39.8	38.1	30.9	41.3	42.5	41.7	37.2
40	33.1	36.5	34.1	28.0	36.8	37.9	37.1	32.9
45	29.4	33.2	30.1	25.0	32.4	33.6	32.7	28.8
50	25.7	29.6	26.2	21.8	28.3	29.5	28.5	25.2
55	22.1	26.1	22.3	18.8	24.4	25.6	24.4	21.8
60	18.6	22.5	18.7	15.9	20.6	21.8	20.5	18.4
65	15.4	19.1	15.3	13.2	17.0	18.2	16.9	15.3
70	12.4	16.1	12.2	10.9	13.8	14.9	13.6	12.6
75	9.7	13.2	9.5	8.8	10.8	12.0	10.6	10.2
80	7.3	10.5	7.1	7.0	8.2	9.4	7.9	8.2
85	5.5	8.2	5.2	5.4	6.1	7.3	5.7	6.6

Exact Age	Female							
	1990				2000*			
	Total	Hispanic	Non-Hispanic White	Non-Hispanic Black	Total	Hispanic	Non-Hispanic White	Non-Hispanic Black
0	77.0	81.7	77.9	72.2	80.2	82.6	80.4	76.5
1	76.9	81.2	77.9	72.5	79.7	81.9	79.9	76.2
5	73.1	77.4	74.0	68.7	75.8	77.9	76.0	72.3
10	68.1	72.4	69.1	63.9	70.8	72.9	71.1	67.4
15	63.2	67.5	64.1	58.9	65.9	68.0	66.1	62.4
20	58.3	62.6	59.2	54.1	61.0	63.0	61.2	57.5
25	53.5	57.9	54.3	49.4	56.1	58.1	56.4	52.7
30	48.8	53.2	49.5	44.8	51.2	53.2	51.4	47.9
35	44.2	48.7	44.8	40.6	46.4	48.4	46.6	43.3
40	39.8	44.2	40.1	36.5	41.7	43.7	41.8	38.8
45	35.3	39.6	35.5	32.4	37.1	39.1	37.2	34.4
50	30.9	35.2	31.0	28.3	32.6	34.5	32.6	30.3
55	26.6	30.9	26.6	24.3	28.3	30.0	28.2	26.3
60	22.6	26.6	22.6	20.6	24.1	25.7	23.9	22.4
65	18.8	22.6	18.7	17.3	20.1	21.5	19.9	18.8
70	15.2	18.8	15.1	14.2	16.4	17.7	16.1	15.5
75	12.0	15.3	11.8	11.4	12.9	14.1	12.6	12.5
80	9.0	11.9	8.7	8.8	9.7	10.8	9.4	9.8
85	6.4	8.8	6.2	6.5	7.0	7.9	6.7	7.3

Note: Three year (1999-2001) death data are used to estimate 2000 life expectancy to smooth the outcome. Life expectancy figures for 1990 are recalculated by using same methodology as 2000 and therefore the numbers are slightly different from the 1999 and earlier reports. See Technical Notes.

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

**Table 22a.**

**Years of Potential Life Lost (YPLL) Before Age 75  
By Sex and By Selected Causes of Death, New York City, 2003**

Cause of Death	YPLL		
	Male	Female	All
Malignant neoplasms	61,446	63,821	125,267
Trachea, bronchus and lung	14,176	10,599	24,775
Breast	56	14,463	14,519
Colon, rectum and anus	6,290	5,410	11,700
Cervix uteri	.	3,131	3,131
Diseases of heart	58,645	34,241	92,886
HIV disease	30,339	17,269	47,608
Use of or poisoning by psychoactive substance	22,916	7,246	30,162
Assault (Homicide)	23,749	4,858	28,607
Accidents except poisoning by psychoactive substance	18,564	6,769	25,333
Motor vehicle	8,198	3,172	11,370
Diabetes mellitus	7,562	6,155	13,717
Intentional self-harm (Suicide)	9,915	3,609	13,524
Cerebrovascular diseases	7,700	5,601	13,301
Influenza and pneumonia	6,014	4,491	10,505
Chronic lower respiratory diseases	5,959	3,986	9,945
Chronic liver disease and cirrhosis	6,281	2,377	8,658
Mental and behavioral disorders due to use of alcohol	5,527	1,092	6,619
All other causes	74,983	57,917	132,900
<b>Total</b>	<b>339,600</b>	<b>219,432</b>	<b>559,032</b>

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

See Technical Notes for detailed calculation.

**Figure 6. Years of Potential Life Lost (YPLL) Before Age 75 by Sex, New York City , 2003**

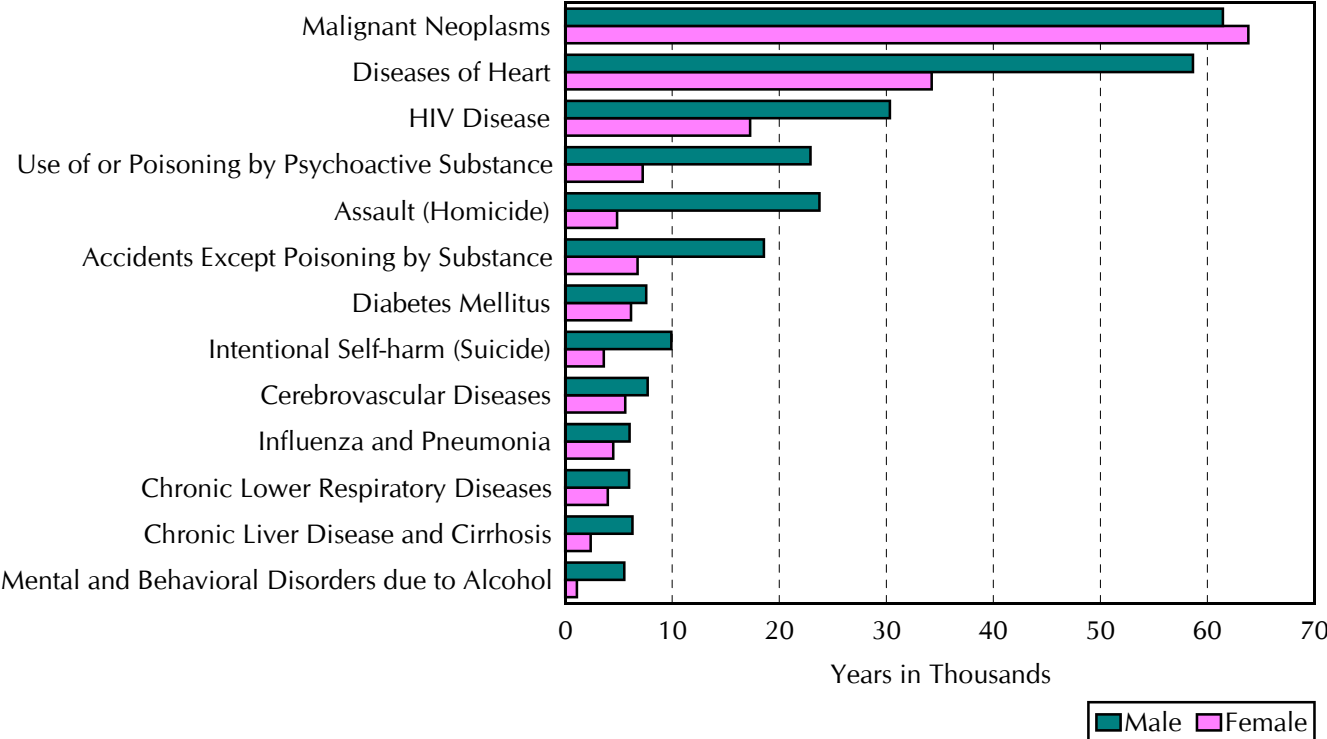


Table 23.

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

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

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

Table 24.

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

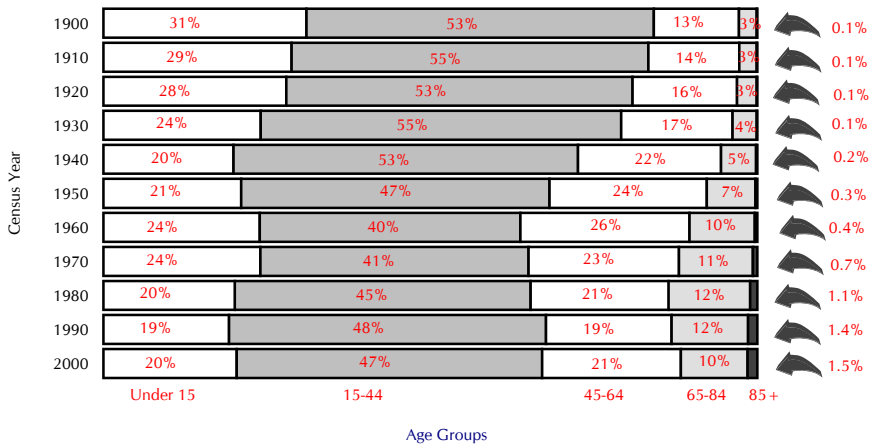
Cause of Death	See Note									See Note	
	1901-1903	1909-1911	1919-1920	1929-1931	1939-1941	1949-1951	1959-1961	1969-1971	1979-1981	1989-1991	1999-2001**
All causes	2,324.2	1,934.1	1,691.4	1,449.0	1,128.1	885.8	813.3	771.1	549.3	606.6	799.6
Influenza and pneumonia	302.8	260.8	301.7	178.6	60.3	30.7	36.4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

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

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

\* Data are not available or not applicable.

\*\* For 1999-2001 rates are adjusted only for age. A 2000 US standard population is used to calculate age-adjusted death rates. WTC deaths are not included. See Technical Notes.

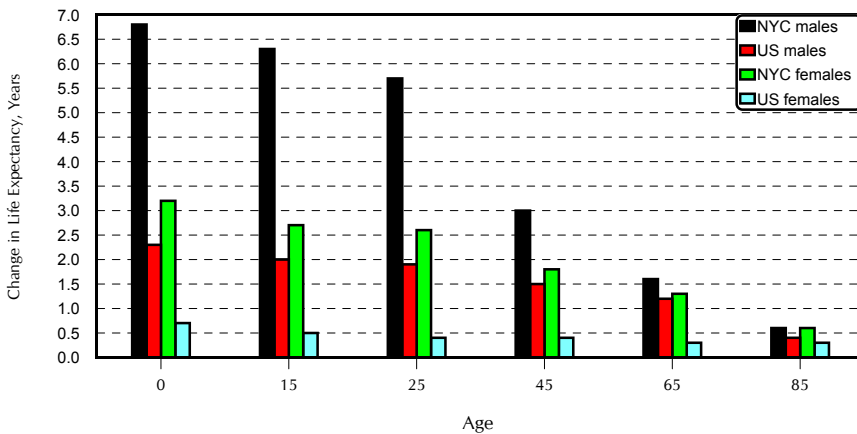
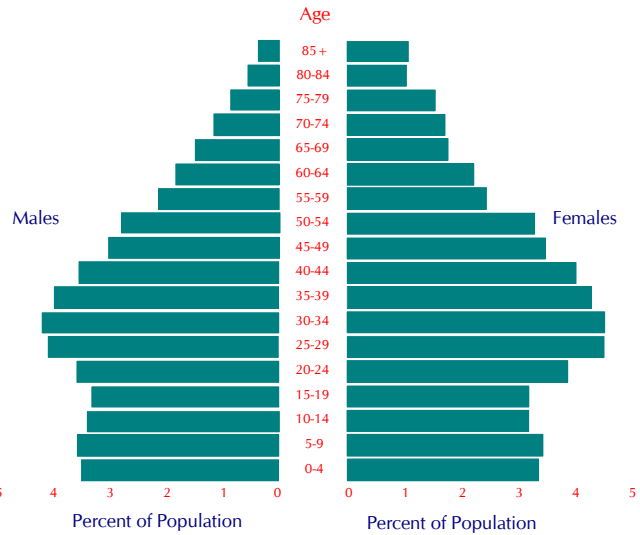


**Figure 7.** Age Composition of the Population New York City, 1900-2000

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

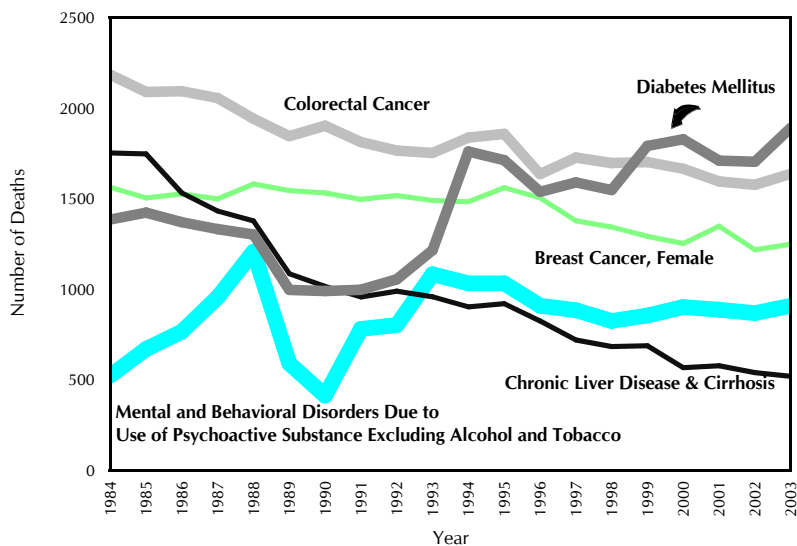
**Figure 8.** Age-Sex Composition of the Population New York City, 2000

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



**Figure 9.** Changes in Life Expectancy at Selected Ages by Sex, 1990 and 2000 New York City and United States

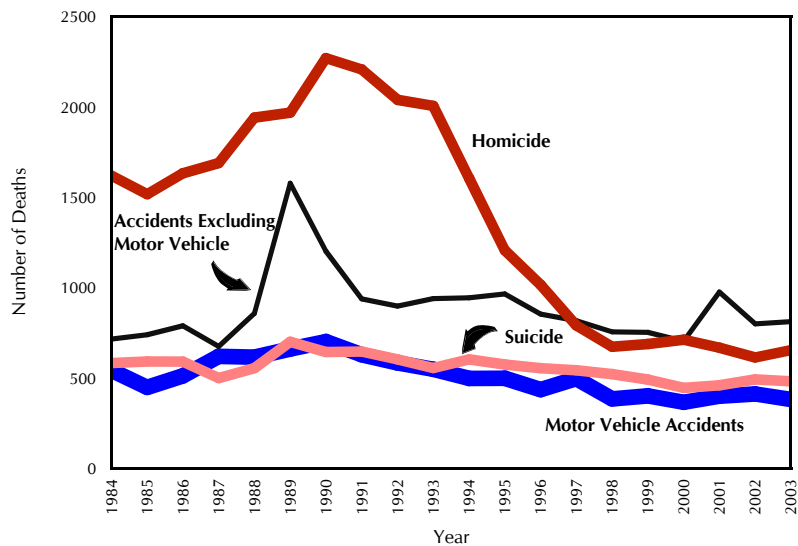
Between 1990 and 2000, in contrast to the prior decade, life expectancy for male New York City residents at birth, at ages 15 and 25 increased substantially. The increases are 6.8, 6.3, and 5.7 years respectively. Contributing factors include declines in infant mortality, HIV, and homicide deaths. Life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



**Figure 10.** Number of Deaths from Selected Natural Causes New York City, 1984-2003

The number of colorectal cancer deaths declined in the past two decades, from 2,184 to 1,638. The number of women who died from breast cancer stayed at the 1,500 level until 1997 when the number started to decrease. In 2002 the number was 1,249. The number of chronic liver disease and cirrhosis deaths had a steady decline except during 1984 and 1985. Deaths from diabetes mellitus declined in the 1980s, but had a surge in the early 1990s, and have stayed at that level for the past several years until 2002. In 2003 diabetes mellitus deaths increased about 11% from 2002.

The Ninth Revision of the International Classification of Diseases (ICD-9) was used to code causes of death in 1979-1998. ICD-10 was implemented in 1999. The comparability ratios for the ICD-9 to ICD-10 conversion are listed in Table 4.



**Figure 11.** Number of Deaths from Selected External Causes New York City, 1984-2003

The number of homicide deaths in New York City declined steadily between 1990 and 1998, and has stayed at about 700 or under since then. Overall, homicide deaths dropped about two-thirds since they peaked in 1990. Suicide deaths declined slightly in the last two decades, from 584 in 1984 to 484 in 2003; suicide deaths peaked in 1989. Motor vehicle accident deaths declined from 704 in 1990 to 384 in 2003.

The surge of accidental deaths in 2001 was caused by the Flight 587 air crash. 265 deaths from the crash are included in the total of accidental deaths.

The Ninth Revision of the International Classification of Diseases (ICD-9) was used to code causes of death in 1979-1998. ICD-10 was implemented in 1999. The comparability ratios for the ICD-9 to ICD-10 conversion are listed in Table 4.

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



Table 25.

## Deaths and Crude Death Rates per 100,000 Population from

Cause (ICD-10 Codes (1) )	ANNUAL											
	1901-1905	1906-1910	1911-1915	1916-1920	1921-1925	1926-1930	1931-1935	1936-1940	1941-1945	1946-1950	1951-1955	1952-1955
Infant deaths (under 1 year) . . . . .	15,611	16,609	14,060	12,004	8,895	7,662	5,521	4,079	3,828	4,298	3,882	4,021
Rate per 1,000 live births. . . . .	120.8	115.2	100.0	88.2	68.9	61.0	52.0	39.8	30.3	26.8	24.5	24.6
Neonatal deaths (under 28 days) . . . . .	**	**	5,143	4,894	4,309	3,892	3,152	2,631	2,764	3,298	2,989	3,032
Rate per 1,000 live births. . . . .	**	**	37.4	36.0	33.0	31.0	29.7	25.7	21.9	20.5	18.9	18.5
Early neonatal deaths (under 7 days) . . . . .	**	**	**	**	**	**	**	2,110	2,338	2,845	2,604	2,713
Rate per 1,000 live births. . . . .	**	**	**	**	**	**	**	20.5	18.5	17.7	16.4	16.6
Fetal deaths 28 weeks gestation & over. . . . .	**	**	**	**	**	**	**	2,589	2,709	2,902	2,441	2,310
Ratio per 1,000 live births. . . . .	**	**	**	**	**	**	**	25.3	21.4	18.1	15.4	14.1
Perinatal mortality ratio (2) . . . . .	**	**	**	**	**	**	**	44.7	39.1	35.1	31.3	30.2
Pregnancy, childbirth and the puerperium (O00-O99) . . . . .	**	**	**	**	**	**	**	**	**	**	**	**
Rate per 100,000 live births. . . . .	694	745	694	664	689	651	608	372	255	178	115	102
Maternal causes *** (A34,O00-O95,O98-O99) . . . . .	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
Human immunodeficiency virus disease (B20-B24) (3) . . . . .	**	**	**	**	**	**	**	**	**	**	**	**
Rate. . . . .	2,621	3,334	4,256	4,993	6,229	7,637	9,062	11,257	13,169	14,627	15,556	16,553
Malignant neoplasms (C00-C97) . . . . .	69.2	74.5	84.3	90.9	100.9	113.9	127.6	152.9	173.3	188.2	196.0	210.6
Rate. . . . .	**	**	**	**	**	**	**	**	**	828	847	1,021
Trachea, bronchus and lung, male (C33-C34) . . . . .	**	**	**	**	**	**	**	**	**	21.9	22.2	27.0
Rate. . . . .	**	**	**	**	**	**	**	**	**	220	179	228
Trachea, bronchus and lung, female (C33-C34) . . . . .	**	**	**	**	**	**	**	**	**	5.5	4.4	5.6
Rate. . . . .	**	**	**	**	**	**	**	**	**	1,429	1,476	1,517
Breast, female (C50) . . . . .	**	**	**	**	**	**	**	**	**	35.9	36.4	37.3
Rate. . . . .	520	690	916	1,063	1,284	1,624	2,140	2,787	3,131	3,423	1,583	1,644
Diabetes mellitus (E10-E14) . . . . .	13.7	15.4	18.1	19.4	20.8	24.2	30.1	37.9	41.2	44.0	19.9	20.9
Rate. . . . .	5,954	9,148	12,699	14,792	18,114	21,815	23,706	25,711	30,886	32,539	36,206	37,724
Major cardiovascular diseases (I00-I78) . . . . .	157.3	204.5	251.5	269.3	293.3	325.5	333.8	349.2	406.6	418.7	456.3	479.9
Rate. . . . .	2,593	1,790	970	834	719	723	1,333	3,846	3,611	3,710	5,099	5,688
Cerebrovascular disease (I60-I69) . . . . .	68.4	40.0	19.2	15.2	11.6	10.8	20.2	52.2	47.5	47.7	64.3	72.4
Rate. . . . .	10,425	10,985	10,528	17,136	8,935	9,989	8,205	5,337	3,453	3,014	2,469	2,664
Influenza & Pneumonia (J10-J18) . . . . .	275.4	245.6	208.5	312.0	144.7	149.0	115.5	72.5	45.5	38.8	31.2	33.9
Rate. . . . .	3,224	2,307	1,458	1,407	689	622	594	536	492	424	450	461
Other respiratory (J00-J06, J20-J99) . . . . .	85.2	51.6	38.9	25.6	11.2	9.3	8.4	7.3	6.5	5.5	5.7	5.9
Rate. . . . .	814	1,076	900	500	338	413	584	922	1,052	1,500	1,500	1,440
Chronic liver disease & cirrhosis (K70, K73-K74) . . . . .	21.5	24.1	17.8	9.1	5.5	6.2	8.2	12.5	13.8	17.5	19.2	18.3
Rate. . . . .	5,752	5,600	5,499	5,676	4,108	3,411	3,608	3,675	3,081	2,574	570	556
Nephritis,nephrosis,etc. (N00-N07, N17-N19, N25-N27) . . . . .	151.9	125.2	108.9	103.4	50.9	50.8	50.9	40.6	40.6	33.1	7.2	7.1
Rate. . . . .	**	**	**	**	**	**	**	**	**	**	**	81
Use of psychoactive substance (F11-F16, F18-F19) . . . . .	**	**	**	**	**	**	**	**	**	**	**	1.0
Rate. . . . .	**	**	**	**	**	**	**	**	**	**	**	**
Accidental drug poisoning (X40-X42, X44) . . . . .	**	**	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
Motor vehicle accidents (4) . . . . .	**	**	**	**	**	**	**	1,546	1,823	1,941	1,699	1,568
Rate. . . . .	**	**	**	**	**	**	**	21.0	24.0	25.0	21.4	19.9
Home accidents . . . . .	3,521	3,549	3,516	3,426	3,138	3,574	3,205	3,107	3,091	3,255	2,707	2,450
Other accidents (Rest of V01-X59, Y85-Y86) . . . . .	93.0	79.3	69.3	62.4	50.8	53.3	45.1	42.2	40.7	41.9	34.3	31.2
Rate. . . . .	761	825	686	742	842	1,163	1,369	1,191	907	930	863	649
Intentional self-harm (Suicide) (X60-X84, Y87.0) . . . . .	20.1	18.4	17.2	13.5	13.6	17.4	19.3	16.2	11.9	12.0	10.9	8.3
Rate. . . . .	143	247	293	271	334	405	522	351	265	362	318	340
Assault (Homicide) (X85-Y09, Y87.1) . . . . .	3.8	5.5	5.8	4.9	5.4	6.0	7.4	4.5	3.5	4.7	4.0	4.3
Rate. . . . .	**	**	**	**	**	**	**	**	**	**	**	**
Events of undetermined intent (Y10-Y34, Y87.2, Y89.9) . . . . .	**	**	**	**	**	**	**	**	**	**	**	**
Rate. . . . .	**	**	**	**	**	**	**	**	**	**	**	**
Alzheimer's disease (G30) . . . . .	**	**	**	**	**	**	**	**	**	**	**	**
Rate. . . . .	**	**	**	**	**	**	**	**	**	**	**	**
Asthma (J45-J46) . . . . .	**	**	**	**	**	**	**	**	**	**	**	**
Rate. . . . .	**	**	**	**	**	**	**	**	**	**	**	**

(1) Numbers following causes are codes of the International Classification of Diseases, Tenth Revision. Comparability ratios in bold are changed from preliminary ones.

(2) Perinatal mortality ratio: see rates and ratios section for a definition.

(3) AIDS was first reported as a cause of death in 1982, and coded 279.1 until 1986. From 1987 through 1998, HIV infections were coded 042-044. Under ICD-10, beginning in 1999, HIV disease is coded to B20-B24. See the Technical Notes for a discussion of HIV disease and AIDS as the cause of death.

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

(5) Data for 1982-1985.

(6) Rate less than 0.05.

\* World Trade Center (WTC) deaths are not included in 2001. See 2002 Annual Summary's Special Section on WTC deaths in 2002 Summary of Vital Statistics for detailed statistics.

\*\* Data are not available or not applicable.

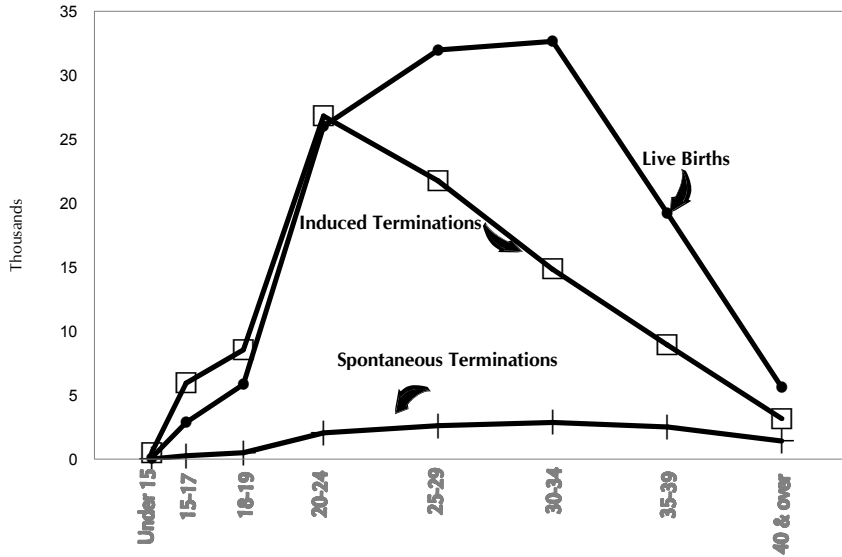
\*\*\* Excludes deaths occurring more than 42 days after the termination of pregnancy and includes obstetrical tetanus (ICD-10 codes: A34, O00-O95, O98-O99).

In 2000-2002 Summary, the codes was mistakenly labeled as "A34, O00-O96,O98-O99" in this Table. See Technical Notes for detailed description of maternal death.

Rates for intercensal years are not adjusted for intercensal population changes.

**Selected Causes, New York City, 1901-2003\***

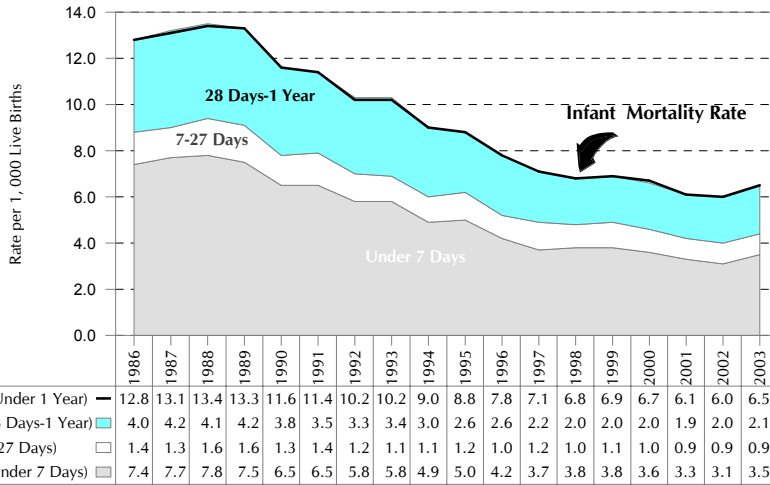
AVERAGE																Comparability Ratio
1956-1960	1961-1965	1966-1970	1971-1975	1976-1980	1981-1985	1986-1990	1991-1995	1996	1997	1998	1999	2000	2001*	2002	2003	
4,290	4,333	3,477	2,312	1,875	1,624	1,691	1,339	992	881	843	848	839	760	742	807	
25.7	26.2	23.6	19.9	17.4	14.4	12.8	10.0	7.8	7.1	6.8	6.9	6.7	6.1	6.0	6.5	
3,220	3,226	2,602	1,714	1,333	1,097	1,159	912	656	605	593	606	583	524	497	542	
19.3	19.5	17.7	14.8	12.3	9.7	8.8	6.8	5.2	4.9	4.8	4.9	4.6	4.2	4.0	4.4	
2,909	2,922	2,351	1,480	1,131	927	972	753	528	459	475	474	455	409	379	432	
17.4	17.7	16.0	12.8	10.5	8.2	7.4	5.6	4.2	3.7	3.8	3.8	3.6	3.3	3.1	3.5	
2,362	2,276	1,885	1,288	835	719	698	686	580	507	505	490	507	444	460	410	
14.1	13.8	12.8	11.1	7.7	6.4	5.3	5.1	4.6	4.1	4.1	4.0	4.0	3.6	3.7	3.3	
31.1	31.0	28.4	23.6	18.1	14.5	12.6	10.6	8.7	7.8	7.9	7.8	7.6	6.9	6.8	6.7	
**	**	**	**	**	**	**	**	**	**	**	**	26	34	43	32	29
												21.0	27.1	34.7	26.0	23.3
107	109	73	36	28	33	29	26	22	17	16	24	30	41	32	22	
64.1	66.0	49.6	31.1	25.9	29.2	22.3	19.2	17.3	13.8	12.9	19.4	23.9	33.1	26.0	17.7	
824	624	432	235	141	125	174	135	46	44	33	37	37	30	26	26	<b>0.94</b>
10.6	8.0	5.5	3.1	2.0	1.7	2.4	1.8	0.6	0.6	0.5	0.5	0.5	0.4	0.3	0.3	
52	43	39	32	22	35	55	34	21	11	19	12	7	3	4	8	<b>0.70</b>
0.7	0.6	0.5	0.4	0.3	0.5	0.8	0.5	0.3	0.2	0.3	0.2	0.1	0.0	0.0	0.1	
**	**	**	**	**	768 (5)	3,703	6,257	4,998	2,625	1,978	2,020	1,961	1,774	1,713	1,656	<b>1.08</b>
					10.7	50.9	83.2	68.3	35.8	27.0	27.6	24.5	22.2	21.4	20.7	
16,869	17,398	17,814	17,315	16,549	15,889	15,612	15,191	14,591	14,194	14,454	14,334	14,100	14,041	13,742	13,826	<b>1.01</b>
216.1	222.1	226.3	226.3	228.7	222.3	214.7	201.9	199.3	193.8	197.4	195.8	176.1	175.3	171.6	172.6	
1,157	1,294	1,890	2,434	2,387	2,217	2,201	2,083	1,967	1,859	1,849	1,782	1,790	1,746	1,708	1,738	<b>0.98</b>
30.9	34.8	51.0	68.1	71.0	66.7	64.4	60.6	57.2	54.1	53.8	51.8	47.2	46.0	45.0	45.8	
261	303	474	777	970	1,169	1,315	1,426	1,420	1,333	1,472	1,467	1,390	1,426	1,413	1,436	<b>0.99</b>
6.4	7.4	11.4	19.1	25.0	30.6	33.9	36.7	36.6	34.3	37.9	37.8	33.0	33.8	33.5	34.1	
1,573	1,694	1,787	1,723	1,622	1,533	1,537	1,510	1,504	1,378	1,344	1,292	1,253	1,348	1,218	1,249	<b>1.01</b>
38.7	41.3	42.9	42.3	41.9	40.1	39.6	38.9	38.7	35.5	34.6	33.3	29.7	32.0	28.9	29.6	
1,581	1,789	1,867	2,064	1,547	1,436	1,198	1,348	1,538	1,590	1,548	1,791	1,827	1,710	1,704	1,891	<b>1.02</b>
20.3	22.9	23.7	27.0	21.4	20.1	16.5	17.9	21.0	21.7	21.1	24.5	22.8	21.4	21.3	23.6	
38,988	39,943	41,981	40,639	37,978	37,818	33,527	32,074	30,995	29,642	28,755	29,157	28,101	27,407	27,638	26,992	<b>1.00</b>
499.5	510.2	532.4	531.1	524.8	529.1	461.0	426.4	423.3	404.8	392.7	398.2	350.9	342.2	345.1	337.1	
6,013	6,174	6,277	5,433	4,174	3,194	2,927	2,256	2,114	2,119	1,998	2,101	1,960	1,887	1,854	1,855	<b>1.05</b>
77.0	78.9	79.7	71.0	57.7	44.7	40.2	30.0	28.9	28.9	27.3	28.7	24.5	23.6	23.2	23.2	
3,459	3,394	3,562	3,164	3,000	2,740	3,354	2,810	2,702	2,618	2,680	2,474	2,267	2,505	2,508	2,692	<b>0.70</b>
44.3	43.4	45.2	41.4	41.5	38.3	46.1	37.4	36.9	35.8	36.6	33.8	28.3	31.3	31.3	33.6	
651	960	1,425	1,627	1,583	1,941	2,507	1,943	1,951	1,933	1,993	2,195	2,054	2,118	2,092	2,013	
8.3	12.3	18.1	21.3	21.9	27.2	34.5	25.8	26.6	26.4	27.2	30.0	25.6	26.4	26.1	25.1	
1,858	2,386	2,936	2,440	2,185	1,789	1,289	946	825	720	684	689	568	578	540	520	<b>1.03</b>
23.8	30.5	37.3	31.9	30.2	25.0	17.7	12.6	11.3	9.8	9.3	9.4	7.1	7.2	6.7	6.5	
573	509	447	372	381	383	816	311	296	378	413	882	853	800	711	635	<b>1.26</b>
7.3	6.5	5.7	4.9	5.3	5.4	11.2	4.1	4.0	5.2	5.6	12.0	10.7	10.0	8.9	7.9	
96	263	551	677	414	573	787	947	909	885	825	855	902	887	869	909	
1.2	3.4	7.0	8.8	5.7	8.0	10.8	12.6	12.4	12.1	11.3	11.7	11.3	11.1	10.9	11.4	
**	**	**	**	**	1	143	49	36	19	18	26	30	22	36	51	
					(6)	2.0	0.7	0.5	0.3	0.2	0.4	0.4	0.3	0.4	0.6	
655	714	887	834	606	477	624	554	438	499	387	404	368	402	414	384	<b>0.95</b>
8.4	9.1	11.3	10.9	8.4	6.7	8.6	7.4	6.0	6.8	5.3	5.5	4.6	5.0	5.2	4.8	
1,095	951	871	755	525	486	589	508	479	432	390	**	**	**	**	**	
14.0	12.1	11.1	9.9	7.3	6.8	8.1	6.8	6.5	5.9	5.3						
2,091	1,947	1,730	1,239	926	812	880	394	341	369	350	729	676	956	766	763	
26.8	24.9	22.0	16.2	12.8	11.4	12.1	5.2	4.7	5.0	4.8	10.0	8.4	11.9	9.6	9.5	
711	908	680	641	711	603	600	599	557	545	524	494	448	462	495	484	<b>1.00</b>
9.1	11.6	8.6	8.4	9.8	8.4	8.3	8.0	7.6	7.4	7.2	6.7	5.6	5.8	6.2	6.0	
366	592	992	1,663	1,700	1,763	1,902	1,815	1,018	793	675	690	714	670	616	657	<b>1.00</b>
4.7	7.6	12.6	21.7	23.5	24.7	26.2	24.1	13.9	10.8	9.2	9.4	8.9	8.4	7.7	8.2	
**	**	946	1,062	699	696	504	161	153	159	135	153	155	206	261	189	
		10.9	13.9	9.7	9.7	6.9	2.0	2.1	2.2	1.8	2.1	1.9	2.6	3.3	2.4	
**	**	**	**	**	**	**	84	77	74	82	132	211	172	230	249	<b>1.58</b>
							1.2	1.1	1.0	1.1	1.8	2.6	2.1	2.9	3.1	
**	**	**	**	**	**	**	269	273	235	250	244	213	215	205	205	<b>0.89</b>
							3.7	3.7	3.2	3.4	3.3	2.7	2.7	2.6	2.6	



**Figure 12.** Live Births, Induced Terminations and Spontaneous Terminations of Pregnancy by Age of Woman, New York City, 2003

Over 227,000 pregnancy outcomes were reported in New York City in 2003. About 55% were live births, 40% were induced terminations, and the remainder were spontaneous terminations (fetal deaths). The proportion of pregnancies ending in an induced termination is the highest among younger women, and stabilizes at around 30% at age 30. For women under the age of 25, the pregnancy outcome is more likely to be an induced termination than a live birth or spontaneous termination.

The number of induced and spontaneous terminations reported to the Department of Health and Mental Hygiene depends to some extent on active surveillance, notwithstanding that all terminations, not just those of a certain gestational age or weight, are required to be reported.



**Figure 13.** Infant, Neonatal and Post-neonatal Mortality Rates, New York City, 1986-2003

The New York City Infant Mortality Rate increased from an historical low of 6.0 in 2002 to 6.5 deaths per 1,000 live births in 2003. Deaths in the early neonatal period after birth (under seven days) were 3.5 per 1,000 live births. Late neonatal (seven to twenty-seven days), and post-neonatal deaths (28 days to under one year) IMR stayed at about the same level as 2002. From 1986 to 2003, the rates of both early neonatal deaths and post-neonatal deaths declined by about half, while the rate for late neonatal deaths declined by more than 30 percent.

Table 26.

**Live Births, Spontaneous and Induced Terminations of Pregnancy  
by Borough of Residence and Age of Woman  
New York City, 2003**

Borough of Residence / Pregnancy Outcome	Total	Age of Woman								Unknown or Not Stated
		Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40 & Over	
NEW YORK CITY	227,552	664	9,078	14,887	54,897	56,350	50,355	30,689	10,202	430
Live Births	124,345	122	2,869	5,840	26,021	31,984	32,655	19,241	5,612	1
Spontaneous Terminations	12,387	24	269	500	2,061	2,618	2,867	2,518	1,424	106
Induced Terminations	90,820	518	5,940	8,547	26,815	21,748	14,833	8,930	3,166	323
MANHATTAN	34,651	99	1,257	1,997	7,077	7,626	8,711	5,805	2,029	50
Live Births	20,403	19	413	785	3,083	4,265	6,272	4,172	1,393	1
Spontaneous Terminations	1,700	2	34	51	191	317	426	405	258	16
Induced Terminations	12,548	78	810	1,161	3,803	3,044	2,013	1,228	378	33
BRONX	43,933	178	2,515	3,802	12,724	11,160	7,614	4,533	1,331	76
Live Births	21,189	35	935	1,621	5,723	5,620	4,176	2,449	630	-
Spontaneous Terminations	2,481	4	98	141	580	576	475	385	202	20
Induced Terminations	20,263	139	1,482	2,040	6,421	4,964	2,963	1,699	499	56
BROOKLYN	72,269	206	2,845	4,828	19,053	18,730	14,846	8,607	2,996	158
Live Births	39,182	30	905	1,999	9,868	10,704	9,048	5,082	1,546	-
Spontaneous Terminations	4,115	13	80	170	750	897	949	779	434	43
Induced Terminations	28,972	163	1,860	2,659	8,435	7,129	4,849	2,746	1,016	115
QUEENS	49,482	124	1,677	2,997	11,560	13,053	11,228	6,525	2,221	97
Live Births	27,344	31	494	1,114	5,687	7,914	7,206	3,821	1,077	-
Spontaneous Terminations	2,462	3	46	114	388	550	559	503	287	12
Induced Terminations	19,676	90	1,137	1,769	5,485	4,589	3,463	2,201	857	85
STATEN ISLAND	9,194	17	315	497	1,698	2,329	2,531	1,393	403	11
Live Births	5,909	4	87	206	859	1,624	1,949	959	221	-
Spontaneous Terminations	739	1	6	19	97	152	200	173	87	4
Induced Terminations	2,546	12	222	272	742	553	382	261	95	7
NON-RESIDENTS	17,743	39	452	738	2,716	3,400	5,380	3,782	1,208	28
Live Births	10,313	3	35	115	801	1,855	4,004	2,756	744	-
Spontaneous Terminations	879	1	4	4	54	126	258	271	156	5
Induced Terminations	6,551	35	413	619	1,861	1,419	1,118	755	308	23
RESIDENCE UNKNOWN	280	1	17	28	69	52	45	44	14	10
Live Births	5	-	-	-	-	2	-	2	1	-
Spontaneous Terminations	11	-	1	1	1	-	-	2	-	6
Induced Terminations	264	1	16	27	68	50	45	40	13	4

Table 27.

**Spontaneous Terminations of Pregnancy by Gestation and Age of Woman  
New York City, 2003**

Gestation in Weeks	Total	Age of Woman								Unknown or Not Stated
		Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40 & Over	
Total	12,387	24	269	500	2,061	2,618	2,867	2,518	1,424	106
Under 13	8,381	19	145	300	1,294	1,713	1,960	1,804	1,092	54
13-15	1,218	2	36	62	255	280	262	202	108	11
16-19	874	1	34	32	150	191	215	187	59	5
20-27	804	-	22	56	164	171	186	136	65	4
28 & Over	410	-	18	21	78	110	87	58	38	-
Not Stated	700	2	14	29	120	153	157	131	62	32

**Table 28. Live Births, Spontaneous Terminations of 28 Weeks Gestation and Over and Induced Terminations of Pregnancy by Boroughs of Residence and Occurrence  
New York City, 2003**

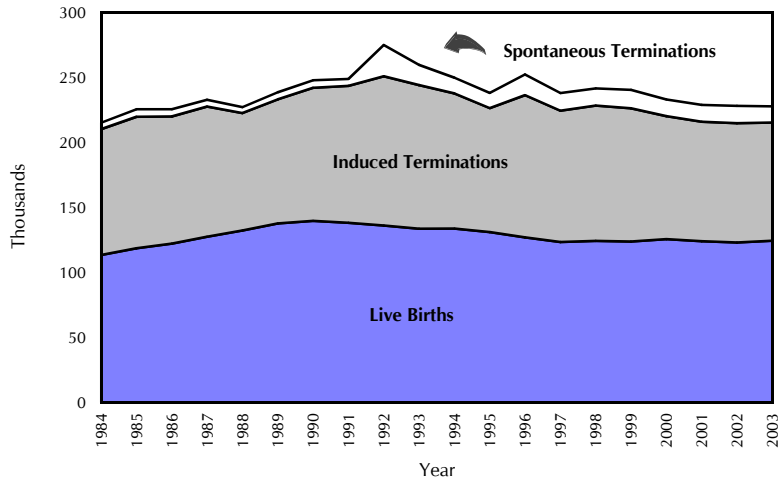
Borough of Residence / Pregnancy Outcome	Total	Borough of Occurrence				
		Manhattan	Bronx	Brooklyn	Queens	Staten Island
NEW YORK CITY	215,575	81,388	28,062	51,903	47,253	6,969
Live Births	124,345	43,066	17,310	32,135	25,165	6,669
Spontaneous Terminations	410	109	84	129	71	17
Induced Terminations	90,820	38,213	10,668	19,639	22,017	283
MANHATTAN	33,011	30,795	1,085	550	564	17
Live Births	20,403	19,672	433	175	109	14
Spontaneous Terminations	60	57	2	1	-	-
Induced Terminations	12,548	11,066	650	374	455	3
BRONX	41,542	14,989	25,254	468	813	18
Live Births	21,189	4,830	15,992	161	191	15
Spontaneous Terminations	90	12	77	1	-	-
Induced Terminations	20,263	10,147	9,185	306	622	3
BROOKLYN	68,302	16,458	305	45,728	4,757	1,054
Live Births	39,182	7,402	124	29,227	1,388	1,041
Spontaneous Terminations	148	18	2	119	5	4
Induced Terminations	28,972	9,038	179	16,382	3,364	9
QUEENS	47,098	8,232	254	2,617	35,944	51
Live Births	27,344	4,985	123	1,559	20,626	51
Spontaneous Terminations	78	14	-	4	60	-
Induced Terminations	19,676	3,233	131	1,054	15,258	-
STATEN ISLAND	8,470	1,483	36	1,443	116	5,392
Live Births	5,909	261	6	490	34	5,118
Spontaneous Terminations	15	-	-	3	-	12
Induced Terminations	2,546	1,222	30	950	82	262
NON-RESIDENTS	16,883	9,361	1,096	1,021	4,970	435
Live Births	10,313	5,915	629	523	2,816	430
Spontaneous Terminations	19	8	3	1	6	1
Induced Terminations	6,551	3,438	464	497	2,148	4
RESIDENCE UNKNOWN	269	70	32	76	89	2
Live Births	5	1	3	-	1	-
Spontaneous Terminations	0	-	-	-	-	-
Induced Terminations	264	69	29	76	88	2

**Table 29. Induced Terminations of Pregnancy by Selected Characteristics and Age of Woman  
New York City, 2003**

	Total	Age of Woman								
		Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40 & Over	Not Stated
Induced Termination of Pregnancy, All	90,820	518	5,940	8,547	26,815	21,748	14,833	8,930	3,166	323
Ethnic Group										
Hispanic	29,953	194	2,113	3,120	9,715	7,304	4,328	2,379	705	95
Asian and Pacific Islander	5,341	9	164	358	1,299	1,285	1,136	736	318	36
White Non-Hispanic	9,779	31	454	713	2,536	2,297	1,869	1,276	571	32
Black Non-Hispanic	41,961	258	2,915	3,992	12,246	9,990	6,879	4,131	1,403	147
Other	597	2	31	54	169	147	95	70	28	1
Not Stated	3,189	24	263	310	850	725	526	338	141	12
Marital Status										
Married	14,431	8	73	241	2,113	3,702	3,954	2,988	1,268	84
Not Married	74,571	504	5,761	8,156	24,271	17,601	10,543	5,743	1,803	189
Not Stated	1,818	6	106	150	431	445	336	199	95	50
Gestation Age										
6 Weeks or Less	27,638	81	1,217	2,013	7,999	7,199	5,033	2,865	1,129	102
7 - 8 Weeks	29,635	119	1,580	2,480	8,562	7,360	5,193	3,180	1,055	106
9 - 10 Weeks	14,051	86	1,007	1,485	4,214	3,310	2,173	1,319	414	43
11 - 12 Weeks	7,020	54	692	868	2,189	1,518	910	576	192	21
13 - 15 Weeks	4,766	54	537	659	1,493	936	593	350	125	19
16 - 20 Weeks	4,919	79	571	688	1,535	905	546	418	162	15
21 or More Weeks	2,005	43	291	285	614	343	232	133	55	9
Not Stated	786	2	45	69	209	177	153	89	34	8
Type of Termination Procedures										
Suction Curettage	70,250	323	4,206	6,268	20,524	17,183	11,856	7,168	2,482	240
Sharp Curettage / D+C	3,190	20	191	276	897	818	523	308	140	17
Dilatation and Evacuation	10,600	157	1,273	1,485	3,304	1,954	1,245	837	311	34
Intrauterine Instillation	28	-	2	3	1	10	4	7	1	-
Hysterotomy / Hysterectomy	2	-	-	-	-	-	-	1	1	-
Medical (Non-Surgical)	6,108	13	226	462	1,922	1,616	1,110	533	204	22
Other	40	-	1	3	7	8	7	9	4	1
Not Stated	602	5	41	50	160	159	88	67	23	9

**Table 29a. Induced Terminations of Pregnancy by Woman's Marital Status, Age, and Ethnic Group  
New York City, 1994 - 2003**

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<b>Marital Status (percent)</b>										
Married . . . . .	22.0	20.0	19.9	19.1	19.3	17.9	16.4	15.8	15.8	15.9
Not Married . . . . .	76.6	77.6	74.4	78.2	78.3	79.3	81.0	81.6	82.2	82.1
Unknown . . . . .	1.5	2.4	5.7	2.7	2.4	2.9	2.6	2.6	2.0	2.0
<b>Age of Woman</b>										
< 15 . . . . .	821	669	786	696	704	672	601	564	506	518
15-19 . . . . .	17,804	16,481	18,571	17,056	16,922	16,525	15,497	14,999	14,706	14,487
20-24 . . . . .	31,090	27,678	31,155	28,804	29,736	29,857	27,799	27,100	27,076	26,815
25-29 . . . . .	25,850	23,571	27,452	24,868	25,504	24,758	22,502	21,549	21,790	21,748
30-34 . . . . .	16,938	15,699	18,375	17,078	17,662	17,337	15,735	15,376	15,285	14,833
35-39 . . . . .	8,624	8,351	9,829	9,312	9,938	9,875	9,193	8,981	8,989	8,930
40+ . . . . .	2,485	2,434	2,871	2,796	3,156	3,138	2,953	2,922	3,126	3,166
Unknown . . . . .	288	322	334	316	360	172	186	301	322	323
<b>Ethnic Group</b>										
Hispanic . . . . .	29,462	26,698	29,253	28,965	31,895	32,826	31,118	29,684	30,098	29,953
Asian and Pacific Islander . . . . .	3,183	3,279	4,112	4,317	5,198	4,969	4,873	4,977	5,097	5,341
Non-Hispanic, White . . . . .	14,646	12,712	14,598	12,037	12,365	11,833	10,438	10,220	9,903	9,779
Non-Hispanic, Black . . . . .	54,245	48,117	52,026	47,072	48,799	48,245	45,150	44,213	43,912	41,961
Other . . . . .	657	790	523	469	713	749	532	603	526	597
Unknown . . . . .	1,707	3,609	8,861	8,066	5,012	3,712	2,355	2,095	2,264	3,189
<b>Total . . . . .</b>	<b>103,900</b>	<b>95,205</b>	<b>109,373</b>	<b>100,926</b>	<b>103,982</b>	<b>102,334</b>	<b>94,466</b>	<b>91,792</b>	<b>91,800</b>	<b>90,820</b>



**Figure 14.** Number of Live Births, Induced Terminations and Spontaneous Terminations  
New York City, 1984-2003

The number of live births increased in the 1980s and reached a peak in 1990 during last two decades. Since then the number has declined slightly. The number of Induced terminations had a similar pattern except its peak was 1992. The number of spontaneous terminations also peaked in 1992.

The number of induced and spontaneous terminations reported to the Department of Health and Mental Hygiene depends to some extent on active surveillance, notwithstanding that all terminations, not just those of a certain gestational age or weight, are required to be reported. Increased active surveillance caused an increase in the number of spontaneous terminations reported, beginning in 1992.

Table 30.

**Live Births by Ancestry of Mother and Borough of Residence  
New York City, 2003**

Ancestry of Mother	Total	Borough of Residence						
		Manhattan	Bronx	Brooklyn	Queens	Staten Island	Non-Residents	Residence Unknown
Total	124,345	20,403	21,189	39,182	27,344	5,909	10,313	5
Puerto Rican	10,172	1,430	4,582	2,115	1,163	468	413	1
Dominican	9,993	3,016	3,968	1,331	1,361	62	255	–
Colombian	1,454	130	87	113	1,009	35	80	–
Ecuadorian	3,414	297	436	665	1,907	39	70	–
Mexican	7,446	1,027	1,653	2,218	2,069	411	67	1
Cuban	278	81	51	33	52	14	47	–
Other Hispanic	7,002	552	1,089	2,504	2,347	179	331	–
African-American	16,562	2,039	4,268	6,510	2,568	573	602	2
American	5,422	1,544	185	1,898	466	295	1,034	–
Guyanese	2,384	28	226	864	1,187	16	63	–
Haitian	1,745	73	43	1,087	403	12	127	–
Jamaican	2,727	76	754	1,116	631	21	129	–
Trinidadian	1,785	49	98	1,002	572	23	41	–
Other North, Central and South American	2,832	219	284	1,839	315	37	138	–
English	933	490	18	146	65	25	189	–
German	2,035	669	50	316	302	198	500	–
Irish	3,417	804	154	466	569	456	968	–
Italian	5,456	708	233	897	743	1,660	1,215	–
Polish	1,431	245	22	458	376	102	228	–
Russian	2,246	545	40	844	359	111	347	–
Other European	5,512	1,343	393	1,530	1,001	383	862	–
Asian Indian	2,018	224	92	163	1,182	90	267	–
Bangladeshi	1,493	49	208	331	891	5	9	–
Chinese	6,803	1,858	106	2,378	1,984	111	366	–
Filipino	971	136	89	116	412	70	148	–
Korean	1,033	227	22	66	571	21	126	–
Pakistani	1,302	51	66	576	486	41	82	–
Other Asian	3,863	738	243	1,339	1,057	181	305	–
Jewish or Hebrew	7,393	725	74	4,959	518	135	982	–
Other and Not Stated	5,223	1,030	1,655	1,302	778	135	322	1

Note: See Technical Notes for a discussion of race, ancestry and ethnicity.

Table 31.

**Live Births by Mother's Ethnic Group and Age  
New York City, 2003**

Ethnic Group	Total	Age of Mother								
		Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40 & Over	Not Stated
Total	124,345	122	2,869	5,840	26,021	31,984	32,655	19,241	5,612	1
Puerto Rican	10,172	27	598	995	3,001	2,428	1,856	1,022	245	–
Other Hispanic	29,587	48	1,071	2,049	8,124	8,183	6,125	3,176	811	–
Asian and Pacific Islander	16,577	–	37	215	2,688	5,161	5,336	2,490	649	1
Non-Hispanic White	38,018	2	149	528	5,260	8,704	12,675	8,135	2,565	–
Non-Hispanic Black	29,646	44	1,007	2,039	6,895	7,436	6,580	4,331	1,314	–
Other	134	1	3	4	13	43	32	29	9	–
Not Stated	211	–	4	10	40	29	51	58	19	–

Note: See Technical Notes for a discussion of race, ancestry and ethnicity.



Table 32.

**Selected Characteristics of Live Births and Spontaneous Terminations of Pregnancy  
28 Weeks Gestation and Over by Age of Mother, New York City, 2003**

	Total	Age of Mother								
		Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40 & Over	Not Stated
Total Live Births .....	124,345	122	2,869	5,840	26,021	31,984	32,655	19,241	5,612	1
Sex										
Male .....	63,791	60	1,562	3,001	13,358	16,324	16,695	9,852	2,939	-
Female .....	60,554	62	1,307	2,839	12,663	15,660	15,960	9,389	2,673	1
Birth Order This Child (Live Births Only)										
First .....	55,660	120	2,643	4,694	14,745	13,511	12,443	5,844	1,659	1
Second .....	38,029	2	219	992	8,032	10,247	10,676	6,183	1,678	-
Third .....	17,732	-	7	139	2,486	4,907	5,344	3,851	998	-
Fourth .....	6,875	-	-	14	580	2,075	2,135	1,584	487	-
Fifth .....	2,911	-	-	1	134	814	952	723	287	-
Sixth or higher .....	3,138	-	-	-	44	430	1,105	1,056	503	-
Weight at Delivery in Grams										
Under 500 .....	151	-	6	7	17	37	45	27	12	-
500-999 .....	856	3	28	38	164	196	223	155	49	-
1000-1499 .....	1,005	1	22	35	187	213	272	186	89	-
1500-1999 .....	2,089	2	44	100	336	489	537	401	180	-
2000-2499 .....	6,476	6	211	352	1,289	1,483	1,670	1,060	404	1
2500-2999 .....	23,564	29	689	1,368	5,433	5,833	5,678	3,463	1,071	-
3000-3499 .....	48,705	63	1,197	2,445	10,808	12,798	12,386	7,045	1,963	-
3500-3999 .....	31,993	18	568	1,232	6,208	8,481	9,017	5,097	1,372	-
4000-4499 .....	8,225	-	94	231	1,388	2,131	2,439	1,539	403	-
4500-4999 .....	1,136	-	8	30	170	289	348	230	61	-
5000 & over .....	144	-	2	2	21	34	39	38	8	-
Not stated .....	1	-	-	-	-	-	1	-	-	-
Plurality										
Single .....	119,917	120	2,831	5,759	25,451	31,082	31,292	18,218	5,163	1
Twin .....	4,153	2	38	81	549	854	1,249	956	424	-
Triplet .....	263	-	-	-	17	48	114	59	25	-
Quadruplet .....	12	-	-	-	4	-	-	8	-	-
Quintuplet .....	0	-	-	-	-	-	-	-	-	-
Apgar Score at 5 Minutes *										
6 or less .....	1,044	1	36	57	194	231	272	193	60	-
7 .....	1,010	6	30	51	227	244	255	138	59	-
8 .....	4,845	6	115	265	915	1,101	1,236	873	334	-
9 .....	110,520	99	2,525	5,155	23,350	28,707	28,975	16,888	4,820	1
10 .....	6,769	10	158	305	1,305	1,654	1,886	1,121	330	-
Not stated .....	157	-	5	7	30	47	31	28	9	-
Place of Birth										
Home .....	443	1	6	18	71	105	120	93	29	-
Voluntary Hospital, Private Service .....	63,358	23	536	1,183	8,338	15,290	20,969	13,044	3,975	-
Voluntary Hospital, General Service .....	37,600	64	1,444	2,955	11,082	10,337	7,143	3,610	964	1
Municipal Hospital .....	22,454	31	867	1,667	6,434	6,119	4,297	2,412	627	-
Birthing Center .....	360	3	11	12	73	94	94	61	12	-
Other .....	130	-	5	5	23	39	32	21	5	-
Attendant										
Physician .....	112,521	102	2,423	5,017	22,509	28,694	30,363	18,074	5,338	1
Certified Nurse Midwife .....	11,469	18	428	795	3,418	3,195	2,229	1,129	257	-
Other .....	355	2	18	28	94	95	63	38	17	-
Financial Coverage										
Medicaid .....	63,620	91	2,296	4,720	19,080	17,649	11,924	6,184	1,675	1
HMO .....	19,276	12	247	498	2,687	4,648	6,256	3,820	1,108	-
Third Party .....	38,385	14	230	424	3,573	8,956	13,758	8,763	2,667	-
Self .....	2,927	5	91	186	656	690	689	457	153	-
Not stated .....	137	-	5	12	25	41	28	17	9	-
First Visit for Prenatal Care										
First Trimester (1-3 months) .....	88,222	52	1,487	3,417	16,886	22,592	24,794	14,806	4,188	-
Second Trimester (4-6 months) .....	25,520	37	907	1,655	6,513	6,746	5,602	3,050	1,009	1
Late (7-9 months) .....	6,790	25	322	499	1,757	1,704	1,415	823	245	-
No Care .....	752	3	45	74	198	154	140	112	26	-
Not stated .....	3,061	5	108	195	667	788	704	450	144	-
Marital Status of Mother										
Not Married .....	52,890	120	2,731	4,972	16,074	13,442	8,857	5,151	1,542	1
Married .....	71,455	2	138	868	9,947	18,542	23,798	14,090	4,070	-
Years of Education										
None .....	406	-	6	15	80	134	92	63	16	-
1-11 .....	27,475	122	2,511	2,917	7,951	6,569	4,403	2,335	667	-
12 .....	37,205	-	344	2,329	10,274	10,153	8,015	4,776	1,313	1
13 & over .....	58,797	-	1	561	7,628	15,013	20,020	11,988	3,586	-
Not stated .....	462	-	7	18	88	115	125	79	30	-
Birthplace of Mother										
United States other than Puerto Rico .....	56,791	84	1,860	3,349	12,228	12,601	14,956	9,002	2,711	-
Puerto Rico .....	2,052	6	94	158	543	486	409	276	80	-
Foreign .....	64,900	30	888	2,295	13,115	18,759	17,157	9,863	2,792	1
Not stated .....	602	2	27	38	135	138	133	100	29	-
Spontaneous Terminations of Pregnancy, 28 weeks & Over										
Total .....	410	-	18	21	78	110	87	58	38	0
Sex										
Male .....	201	-	8	11	37	58	42	26	19	-
Female .....	160	-	8	8	31	42	32	25	14	-
Undetermined .....	49	-	2	2	10	10	13	7	5	-
Weight at Delivery in Grams										
Under 500 .....	22	-	1	1	7	6	4	2	1	-
500-999 .....	31	-	1	2	4	5	8	6	5	-
1000-1499 .....	38	-	1	4	4	10	8	8	3	-
1500-1999 .....	43	-	1	2	12	15	8	4	1	-
2000-2499 .....	51	-	3	5	9	19	6	3	6	-
2500 & over .....	122	-	10	2	20	33	27	19	11	-
Not stated .....	103	-	1	5	22	22	26	16	11	-

\* In 2001 and earlier years, the 1 minute Apgar Score was presented, although it was incorrectly labeled as "Apgar Score at 5 Minutes".

Table 33.

**Selected Characteristics of Live Births and Spontaneous Terminations of Pregnancy  
28 Weeks Gestation and Over by Mother's Ethnic Group, New York City, 2003**

	Total	Ethnic Group of Mother						Other	Not Stated
		Puerto Rican	Other Hispanic	Asian	Other White	Other Black			
Total Live Births . . . . .	124,345	10,172	29,587	16,577	38,018	29,646	134	211	
Sex									
Male . . . . .	63,791	5,206	15,104	8,650	19,536	15,104	77	114	
Female . . . . .	60,554	4,966	14,483	7,927	18,482	14,542	57	97	
Birth Order This Child (Live Births Only)									
First . . . . .	55,660	4,279	12,251	8,511	17,857	12,596	68	98	
Second . . . . .	38,029	2,948	9,720	5,633	11,147	8,481	37	63	
Third . . . . .	17,732	1,671	5,027	1,770	4,605	4,623	17	19	
Fourth . . . . .	6,875	689	1,730	446	1,890	2,103	8	9	
Fifth . . . . .	2,911	333	505	142	953	966	2	10	
Sixth or Higher . . . . .	3,138	252	354	75	1,566	877	2	12	
Weight at Delivery in Grams									
Under 500 . . . . .	151	10	28	17	19	71	-	6	
500-999 . . . . .	856	88	156	66	140	394	-	12	
1000-1499 . . . . .	1,005	121	208	101	205	365	-	5	
1500-1999 . . . . .	2,089	208	392	232	531	714	4	8	
2000-2499 . . . . .	6,476	599	1,268	895	1,667	2,027	13	7	
2500-2999 . . . . .	23,564	2,054	5,114	3,773	5,998	6,555	33	37	
3000-3499 . . . . .	48,705	3,956	11,978	7,004	14,550	11,080	52	85	
3500-3999 . . . . .	31,993	2,427	8,109	3,648	11,265	6,482	23	39	
4000-4499 . . . . .	8,225	600	2,018	739	3,175	1,677	8	8	
4500-4999 . . . . .	1,136	95	286	93	414	244	1	3	
5000 & over . . . . .	144	14	30	9	54	37	-	-	
Not stated . . . . .	1	-	-	-	-	-	-	1	
Plurality									
Single . . . . .	119,917	9,866	28,898	16,111	36,060	28,655	132	195	
Twin . . . . .	4,153	292	662	431	1,805	945	2	16	
Triplet . . . . .	263	14	27	35	145	42	-	-	
Quadruplet . . . . .	12	-	-	-	8	4	-	-	
Quintuplet . . . . .	0	-	-	-	-	-	-	-	
Apgar Score at 5 Minutes *									
6 or less . . . . .	1,044	108	215	79	173	452	1	16	
7 . . . . .	1,010	117	207	95	212	375	-	4	
8 . . . . .	4,845	503	1,098	446	1,338	1,436	9	15	
9 . . . . .	110,520	8,708	26,478	15,189	33,906	25,967	119	153	
10 . . . . .	6,769	720	1,560	755	2,376	1,335	5	18	
Not stated . . . . .	157	16	29	13	13	81	-	5	
Place of Birth									
Home . . . . .	443	30	60	15	147	180	1	10	
Voluntary Hospital, Private Service . . . . .	63,358	4,250	6,443	7,956	33,156	11,336	89	128	
Voluntary Hospital, General Service . . . . .	37,600	3,760	13,802	5,518	3,421	10,994	33	72	
Municipal Hospital . . . . .	22,454	2,062	9,188	3,050	1,140	7,004	10	-	
Birthing Center . . . . .	360	57	71	19	131	80	1	1	
Other . . . . .	130	13	23	19	23	52	-	-	
Attendant									
Physician . . . . .	112,521	9,000	25,417	15,466	35,388	26,948	119	183	
Certified Nurse Midwife . . . . .	11,469	1,114	4,072	1,082	2,584	2,579	14	24	
Other . . . . .	355	58	98	29	46	119	1	4	
Financial Coverage									
Medicaid . . . . .	63,620	6,028	22,106	8,994	7,982	18,375	55	80	
HMO . . . . .	19,276	1,412	2,918	2,664	8,200	4,014	26	42	
Third Party . . . . .	38,385	2,508	3,929	4,457	20,909	6,460	47	75	
Self . . . . .	2,927	213	610	439	907	743	5	10	
Not stated . . . . .	137	11	24	23	20	54	1	4	
First Visit for Prenatal Care									
First Trimester (1-3 months) . . . . .	88,222	7,281	19,700	10,974	31,383	18,659	92	133	
Second Trimester (4-6 months) . . . . .	25,520	1,996	7,103	4,122	5,178	7,053	34	34	
Late (7-9 months) . . . . .	6,790	474	2,009	930	928	2,435	5	9	
No Care . . . . .	752	83	169	52	76	371	-	1	
Not stated . . . . .	3,061	338	606	499	453	1,128	3	34	
Marital Status of Mother									
Not Married . . . . .	52,890	7,162	18,563	3,239	4,065	19,684	45	132	
Married . . . . .	71,455	3,010	11,024	13,338	33,953	9,962	89	79	
Years of Education									
None . . . . .	406	1	125	68	46	156	-	10	
1-11 . . . . .	27,475	3,716	11,474	3,455	2,190	6,591	26	23	
12 . . . . .	37,205	2,951	9,300	4,922	9,628	10,282	52	70	
13 & over . . . . .	58,797	3,490	8,624	7,979	26,096	12,517	56	35	
Not stated . . . . .	462	14	64	153	58	100	-	73	
Birthplace of Mother									
United States other than Puerto Rico . . . . .	56,791	8,155	5,263	918	26,935	15,398	40	82	
Puerto Rico . . . . .	2,052	1,914	110	-	15	13	-	-	
Foreign . . . . .	64,900	64	24,138	15,607	10,945	14,021	94	31	
Not stated . . . . .	602	39	76	52	123	214	-	98	
Spontaneous Terminations of Pregnancy, 28 weeks & Over									
Total . . . . .	410	30	92	44	79	158	0	7	
Sex									
Male . . . . .	201	17	37	16	41	87	-	3	
Female . . . . .	160	11	41	22	30	53	-	3	
Undetermined . . . . .	49	2	14	6	8	18	-	1	
Weight at Delivery in Grams									
Under 500 . . . . .	22	3	7	-	2	9	-	1	
500-999 . . . . .	31	2	4	8	5	11	-	1	
1000-1499 . . . . .	38	4	7	6	2	19	-	-	
1500-1999 . . . . .	43	1	9	7	6	18	-	2	
2000-2499 . . . . .	51	4	12	3	12	20	-	-	
2500 & over . . . . .	122	10	30	9	25	46	-	2	
Not stated . . . . .	103	6	23	11	27	35	-	1	

\* In 2001 and earlier years, the 1 minute Apgar Score was presented, although it was incorrectly labeled as "Apgar Score at 5 Minutes".

Table 34.

Live Births by Selected Characteristics and Infant Deaths  
by Health Center District of Residence, New York City, 2003

Health Center District	Live Births Rate*		Percent of Total Live Births with Specified Characteristics									Infant Mortality (Under 1 Year)		Neonatal Mortality (Under 28 Days)	
			Mother's Ancestry		Foreign Born Mother	First Live Birth	Under 2,500 Grams	Late or No Prenatal Care	Mother Not Married	On Medicaid	Number	Rate**	Number	Rate**	
			Puerto Rican	Other Hispanic											
NEW YORK CITY	124,345	15.5	8.2	23.8	52.2	44.8	8.5	6.1	42.5	51.2	807	6.5	542	4.4	
MANHATTAN	20,403	13.3	7.0	25.0	45.9	53.3	8.3	4.9	37.2	43.4	97	4.8	65	3.2	
Central Harlem	1,909	15.4	8.5	16.4	37.5	40.0	11.1	10.3	72.4	74.1	14	7.3	8	4.2	
East Harlem	1,993	14.6	20.9	31.0	42.2	45.8	8.4	7.6	59.0	62.8	10	5.0	6	3.0	
Kips Bay-Yorkville	3,085	12.8	0.8	4.7	31.2	62.8	8.7	1.4	5.9	3.9	7	2.3	4	1.3	
Lower East Side	3,016	12.4	10.3	9.1	59.6	53.5	6.7	5.1	32.3	55.9	19	6.3	15	5.0	
Lower West Side	3,568	11.5	3.1	8.2	38.6	66.2	7.4	3.0	15.9	15.5	10	2.8	9	2.5	
Riverside	2,564	12.6	5.7	15.3	33.8	55.6	8.7	3.6	25.0	24.5	6	2.3	4	1.6	
Washington Heights	4,265	15.3	6.1	71.8	65.8	43.5	8.2	6.0	62.6	75.0	31	7.3	19	4.5	
BRONX	21,189	15.9	21.6	34.4	51.0	42.6	9.5	6.6	67.0	67.4	183	8.6	120	5.7	
Fordham-Riverdale	4,152	15.7	18.0	43.1	56.8	43.5	8.8	5.7	58.9	62.2	34	8.2	24	5.8	
Morrisania	3,279	19.5	20.7	34.3	51.3	38.3	9.8	7.2	73.7	74.5	29	8.8	15	4.6	
Mott Haven	2,392	17.2	31.3	40.3	41.6	40.2	9.4	9.7	77.8	78.3	19	7.9	12	5.0	
Pelham Bay	2,882	11.8	14.5	13.2	53.4	50.5	10.1	5.9	64.7	62.8	25	8.7	19	6.6	
Tremont	4,400	20.4	19.7	44.6	55.0	38.9	9.0	5.9	73.6	69.2	45	10.2	27	6.1	
Westchester	4,084	13.5	27.5	26.1	44.4	44.9	10.2	6.1	57.9	61.9	31	7.6	23	5.6	
BROOKLYN	39,182	15.9	5.4	17.5	52.0	41.9	8.4	6.1	43.1	58.6	247	6.3	160	4.1	
Bay Ridge	3,916	14.4	3.4	14.6	62.1	43.0	6.4	2.6	21.3	48.9	11	2.8	9	2.3	
Bedford	3,701	16.1	2.9	7.7	47.3	42.3	10.2	9.0	63.7	67.6	35	9.5	21	5.7	
Brownsville	4,760	15.8	7.6	10.7	49.3	39.9	11.7	10.1	68.2	67.8	42	8.8	32	6.7	
Bushwick	3,628	18.7	13.3	51.0	54.9	37.5	8.8	8.5	71.1	77.6	27	7.4	13	3.6	
Flatbush	8,241	15.3	1.7	10.8	59.9	41.0	8.8	7.0	38.9	52.9	47	5.7	33	4.0	
Fort Greene	2,176	14.3	7.1	17.5	34.5	45.8	10.9	6.3	54.5	56.0	24	11.0	15	6.9	
Gravesend	3,798	12.3	4.2	14.0	63.2	50.6	7.3	3.9	24.7	48.0	17	4.5	9	2.4	
Red Hook-Gowanus	1,443	12.9	8.6	12.1	29.5	57.7	7.4	2.7	30.6	30.8	5	3.5	3	2.1	
Sunset Park	4,386	22.4	5.0	25.2	55.4	39.6	6.4	2.6	30.5	64.0	27	6.2	17	3.9	
Williamsburg-Greenpoint	3,133	19.5	7.1	18.3	28.5	33.5	5.5	4.4	24.9	59.4	12	3.8	8	2.6	
QUEENS	27,344	12.3	4.3	32.0	71.4	45.6	8.0	8.7	42.0	55.0	150	5.5	108	3.9	
Astoria-Long Island City	3,315	12.3	4.1	37.3	74.2	51.6	6.7	9.6	40.0	60.9	13	3.9	9	2.7	
Corona	6,154	16.8	2.0	62.4	87.1	45.0	6.6	11.7	52.7	76.3	39	6.3	26	4.2	
Flushing	4,432	8.9	3.1	17.8	71.9	46.4	6.6	4.9	23.4	43.0	9	2.0	8	1.8	
Jamaica East	4,363	11.5	2.8	12.3	62.3	43.1	11.6	9.9	53.4	51.2	45	10.3	35	8.0	
Jamaica West	5,608	13.3	7.1	26.2	63.8	42.0	9.8	8.9	44.6	49.8	28	5.0	18	3.2	
Maspeth-Forest Hills	3,472	11.8	7.0	25.1	63.6	48.8	6.5	5.5	30.1	40.1	16	4.6	12	3.5	
RICHMOND	5,909	13.3	7.9	12.5	31.2	40.9	7.9	2.9	27.3	26.5	31	5.2	26	4.4	
NON-RESIDENTS	10,313	-	4.0	8.2	29.2	43.2	8.8	2.2	10.7	8.8	96	9.3	60	5.8	
RESIDENCE UNKNOWN	5	-	-	-	-	-	-	-	-	-	3	-	3	-	

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

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

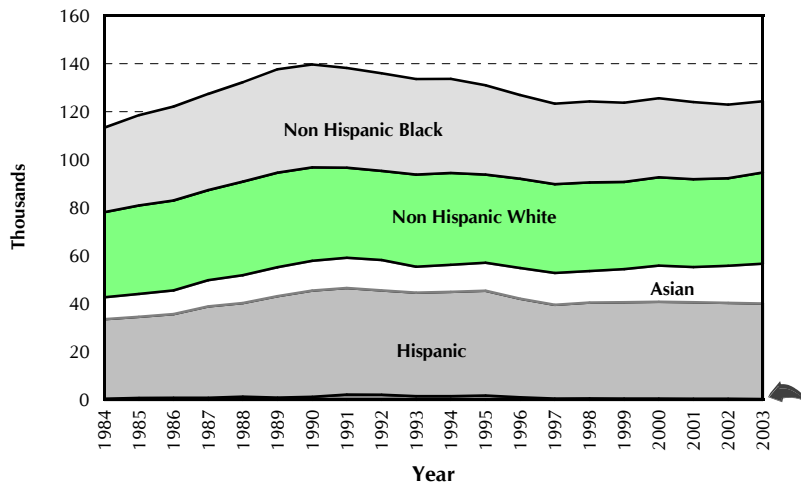
Table 35.

Live Births by Selected Characteristics and Mother's Ancestry  
New York City, 2003

Ancestry of Mother	Live Births	Percent of Live Births with Specified Characteristics							Teenage Mother*
		Foreign Born Mother	First Live Birth	Under 2,500 Grams	Late or No Prenatal Care	Mother Not Married	On Medicaid		
Total	124,345	52.2	44.8	8.5	6.1	42.5	51.2	7.1	
Puerto Rican	10,172	0.6	42.1	10.1	5.5	70.4	59.3	15.9	
Dominican	9,993	79.1	40.8	7.9	6.7	63.6	71.7	10.5	
Colombian	1,454	81.4	50.6	7.8	8.6	50.9	57.3	6.6	
Ecuadorian	3,414	89.9	39.7	5.0	10.2	54.4	77.9	7.5	
Mexican	7,446	96.0	39.0	5.7	8.2	72.1	90.9	13.6	
Cuban	278	25.5	52.9	7.2	3.2	36.3	31.7	7.9	
Other Hispanic	7,002	68.0	43.3	7.6	5.9	59.1	65.7	10.4	
African-American	16,562	11.0	44.0	13.3	8.0	75.7	60.6	14.7	
American	5,422	3.5	48.0	9.1	2.9	16.3	20.1	3.0	
Guyanese	2,384	96.0	42.4	15.0	7.4	41.3	49.6	4.0	
Haitian	1,745	88.9	44.7	10.4	9.5	44.1	58.3	2.3	
Jamaican	2,727	94.9	41.9	9.7	10.1	66.0	61.8	7.6	
Trinidadian	1,785	95.6	47.3	11.0	11.0	56.1	62.8	6.8	
Other North, Central and South American	2,832	91.7	43.7	10.3	9.0	54.2	56.5	4.8	
English	933	21.0	58.1	5.9	1.3	7.1	2.9	0.2	
German	2,035	12.2	57.1	6.8	1.9	11.9	8.0	1.1	
Irish	3,417	10.2	50.9	6.6	1.8	11.2	7.1	1.0	
Italian	5,456	6.6	48.6	7.1	1.3	13.2	9.0	1.8	
Polish	1,431	55.8	54.5	5.6	3.4	15.0	28.2	1.6	
Russian	2,246	62.9	53.8	7.3	2.4	14.4	19.6	1.4	
Other European	5,512	54.1	52.6	6.2	3.4	11.9	22.8	1.6	
Asian Indian	2,018	93.4	53.5	10.5	5.2	11.6	37.1	1.5	
Bangladeshi	1,493	99.9	38.1	11.6	9.2	16.5	77.1	2.1	
Chinese	6,803	94.1	52.7	4.8	3.6	23.0	61.4	1.1	
Filipino	971	87.3	54.9	8.8	5.8	18.8	25.3	0.9	
Korean	1,033	91.7	59.5	4.8	4.5	12.7	35.5	0.6	
Pakistani	1,302	97.8	44.5	9.6	13.0	7.8	70.9	2.0	
Other Asian	3,863	89.1	49.1	6.8	6.2	13.1	46.2	3.6	
Jewish or Hebrew	7,393	66.8	60.1	9.9	5.4	7.3	60.0	4.8	
Other & Not Stated	5,223	77.5	39.4	9.0	11.7	35.7	59.1	2.5	

Note: See Technical Notes for a discussion of race, ancestry and ethnicity.

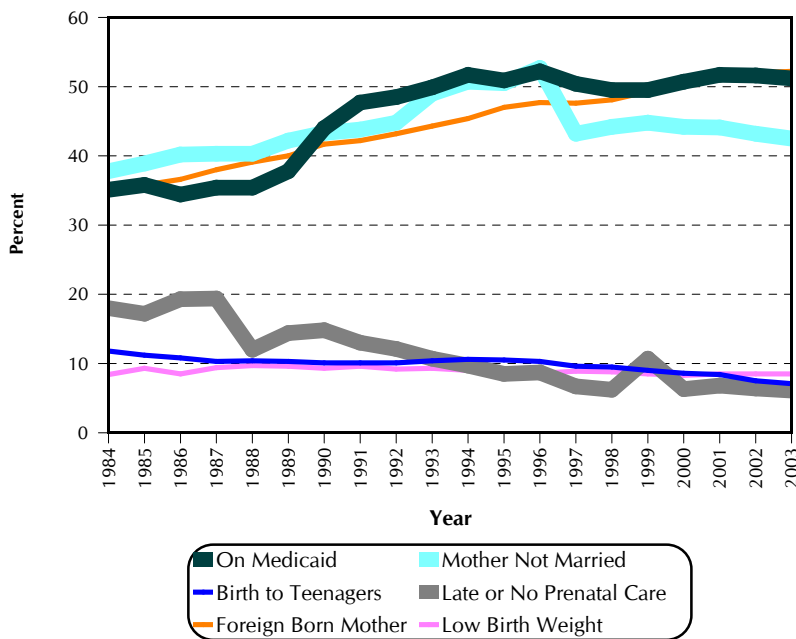
\* Teenage mother is defined as a mother whose age is under 20 years old.



**Figure 15. Live Births by Mother's Ethnic Group  
New York City, 1984-2003**

The total number of live births registered in New York City rose about 23%, from 113,332 in 1984 to 139,630 in 1990, the highest number since 1970. After 1990, live births declined 11%. Since 1990, there were more births to Hispanic women than to women of any other ethnic group although births to Puerto Rican women declined. Births to both non-Hispanic black and non-Hispanic white women peaked in 1989; by 2003 births to non-Hispanic white mothers declined 3%, and to non-Hispanic black mothers declined 31%. From 1984 to 2003, births to Asian and Pacific Islander women increased 82%, while the population of Asian and Pacific Islanders increased from about 230,000 in 1980 to over 489,000 in 1990 and 827,000 in 2000, a 2.6 fold increase.

Other & Unknown



**Figure 16. Percent of Live Births with Specified Characteristics, New York City, 1984-2003**

The percent of live births to foreign born mothers increased steadily in the last two decades, from 34.7 in 1984 to 52.2 in 2003, reflecting the inflow of new immigrants. The percent of mothers on Medicaid when they delivered their babies surged during the late 80s and early 90s. The percent of late or no prenatal care had a downward trend, from 18.0 in 1984 to 6.1 in 2003. Percent of mothers not married when they delivered a baby increased from 1984 to 1996. Note that the method used to compute mother's marital status was changed in 1997. As a result, unmarried mothers declined 19.2% in a sample tested by using both old and new methods. See the Special Note On Mother's Marital Status, Summary of Vital Statistics, 1997, pp.32-33. The percent of mothers not married decreased again since 1999, largely due to the decline of teenage mothers who are more likely to be not married.

Table 36.

Live Births by Selected Characteristics and Infant Deaths  
by Community District of Residence, New York City, 2003

Community District	Live Births	Rate*	Percent of Total Live Births with Specified Characteristics								Infant Mortality (Under 1 Year)		Neonatal Mortality (Under 28 Days)	
			Mother's Ancestry		Foreign Born Mother	First Live Birth	Under 2,500 Grams	Late or No Prenatal Care	Mother Not Married	On Medicaid	Number	Rate**	Number	Rate**
			Puerto Rican	Other Hispanic										
NEW YORK CITY	124,345	15.5	8.2	23.8	52.2	44.8	8.5	6.1	42.5	51.2	807	6.5	542	4.4
Manhattan	20,294	13.2	7.0	24.8	45.9	53.3	8.3	4.9	37.1	43.3	96	4.7	64	3.2
Battery Park, Tribeca (01)	565	16.4	0.5	6.5	37.9	69.0	6.7	2.3	10.3	6.9	-	-	-	-
Greenwich Village, SOHO (02)	842	9.0	1.0	5.8	39.0	65.1	7.7	1.9	12.6	14.1	3	3.6	3	3.6
Lower East Side (03)	2,403	14.6	12.3	9.7	68.2	50.2	6.3	5.6	38.2	70.0	17	7.1	13	5.4
Chelsea, Clinton (04)	834	9.5	8.2	15.1	39.6	64.4	7.2	5.2	29.4	26.9	6	7.2	6	7.2
Midtown Business District (05)	496	11.3	2.4	8.5	45.6	70.0	7.1	5.0	17.3	18.1	2	4.0	-	-
Murray Hill (06)	1,271	9.3	1.3	6.1	36.5	67.4	7.8	2.7	8.0	5.7	3	2.4	2	1.6
Upper West Side (07)	2,869	13.8	4.1	10.7	29.9	60.2	8.0	2.4	16.2	13.8	3	1.0	2	0.7
Upper East Side (08)	2,851	13.1	1.4	4.7	29.2	61.2	9.1	1.3	6.9	5.1	6	2.1	5	1.8
Manhattanville (09)	1,548	13.9	6.6	50.3	58.6	42.3	9.9	7.3	61.7	70.9	11	7.1	6	3.9
Central Harlem (10)	1,669	15.6	8.0	16.4	39.4	40.0	10.7	10.6	72.1	74.5	13	7.8	7	4.2
East Harlem (11)	1,812	15.4	23.6	34.8	41.9	41.1	9.0	8.8	72.0	75.9	10	5.5	6	3.3
Washington Heights (12)	3,128	15.0	6.2	75.3	67.4	44.7	7.9	5.6	60.3	73.5	22	7.0	14	4.5
Bronx	21,298	16.0	21.6	34.5	51.0	42.6	9.5	6.5	66.9	67.4	184	8.6	121	5.7
Mott Haven (01)	1,648	20.1	32.6	39.1	40.5	40.3	9.3	9.7	78.8	79.3	15	9.1	11	6.7
Hunts Point (02)	859	18.3	32.2	41.9	44.5	41.0	8.8	9.3	75.6	77.4	6	7.0	3	3.5
Morrisania (03)	1,276	18.6	24.1	25.8	39.0	38.3	12.1	7.0	78.0	72.5	13	10.2	6	4.7
Concourse, Highbridge (04)	2,969	21.3	16.0	42.3	61.0	37.4	8.5	6.6	70.8	74.4	27	9.1	13	4.4
University/Morris Heights (05)	2,549	19.9	17.2	47.2	58.7	38.6	9.6	6.2	72.4	67.6	22	8.6	11	4.3
East Tremont (06)	1,392	18.4	31.0	35.3	41.2	41.0	8.8	5.7	76.6	64.2	16	11.5	13	9.3
Fordham (07)	2,511	17.8	18.5	46.6	60.3	43.0	8.7	6.5	64.2	71.8	20	8.0	12	4.8
Riverdale (08)	1,168	11.5	11.6	39.9	49.9	47.2	8.8	4.2	42.0	44.5	11	9.4	10	8.6
Unionport, Soundview (09)	2,694	16.0	28.2	28.2	45.2	43.4	10.4	7.1	64.3	67.6	19	7.1	14	5.2
Throgs Neck (10)	956	8.2	27.7	15.5	32.9	49.0	10.3	3.3	48.8	46.8	4	4.2	3	3.1
Pelham Parkway (11)	1,356	12.2	20.4	24.0	52.4	47.3	8.8	5.7	49.9	56.9	9	6.6	7	5.2
Williamsbridge (12)	1,919	12.9	11.9	10.0	56.6	51.8	10.6	6.1	68.8	65.8	22	11.5	18	9.4
Brooklyn	39,182	15.9	5.4	17.5	52.0	41.9	8.4	6.1	43.1	58.6	247	6.3	160	4.1
Williamsburg, Greenpoint (01)	3,133	19.5	7.1	18.3	28.5	33.5	5.5	4.4	24.9	59.4	12	3.8	8	2.6
Fort Green, Brooklyn Heights (02)	1,100	11.2	4.8	11.8	29.3	55.8	10.1	4.4	40.6	39.0	8	7.3	6	5.5
Bedford Stuyvesant (03)	2,169	15.1	7.6	17.4	34.3	41.1	10.6	8.9	72.7	73.7	25	11.5	15	6.9
Bushwick (04)	2,186	20.9	13.7	61.2	55.7	37.1	8.8	7.7	73.5	82.7	17	7.8	10	4.6
East New York (05)	2,819	16.3	12.2	26.8	50.1	38.1	10.9	10.1	68.8	69.6	24	8.5	17	6.0
Park Slope (06)	1,446	13.9	8.4	11.5	28.6	55.5	7.5	2.4	29.6	26.6	9	6.2	7	4.8
Sunset Park (07)	2,362	19.7	9.3	43.1	74.9	45.1	7.9	2.7	47.9	74.8	13	5.5	9	3.8
Crown Heights North (08)	1,521	15.8	3.7	8.2	46.7	45.0	10.7	8.9	64.5	63.6	20	13.1	12	7.9
Crown Heights South (09)	1,823	17.5	1.5	7.0	60.6	41.3	9.1	8.8	50.4	63.9	8	4.4	6	3.3
Bay Ridge (10)	1,657	13.5	3.3	12.3	60.3	46.2	6.8	1.8	18.5	43.1	5	3.0	4	2.4
Bensonhurst (11)	2,160	12.5	3.3	13.9	69.3	46.2	7.4	3.2	22.3	47.5	9	4.2	6	2.8
Borough Park (12)	4,337	23.4	1.3	10.4	42.3	32.7	5.0	3.2	14.5	52.6	16	3.7	9	2.1
Coney Island (13)	1,204	11.3	8.1	21.7	61.0	59.0	8.9	6.6	37.1	64.3	9	7.5	4	3.3
Flatbush, Midwood (14)	2,798	16.6	1.8	16.3	64.6	41.0	9.3	7.0	39.3	56.6	15	5.4	11	3.9
Sheepshead Bay (15)	2,019	12.6	1.9	9.1	63.4	46.2	6.3	3.2	17.6	38.8	4	2.0	3	1.5
Brownsville (16)	1,433	16.8	8.5	9.8	33.2	38.0	12.2	11.9	78.9	77.1	11	7.7	4	2.8
East Flatbush (17)	2,415	14.6	1.6	5.1	70.4	43.6	10.9	10.0	65.4	67.8	19	7.9	13	5.4
Canarsie (18)	2,594	13.3	3.0	5.3	55.4	42.5	9.6	6.2	40.9	43.3	23	8.9	16	6.2
Queens	27,344	12.3	4.3	32.0	71.4	45.6	8.0	8.7	42.0	55.0	150	5.5	108	3.9
Astoria, Long Island City (01)	2,348	11.1	4.9	33.3	70.2	51.7	7.5	9.8	39.5	59.5	9	3.8	6	2.6
Sunnyside, Woodside (02)	1,528	13.9	2.0	44.3	83.7	50.3	5.8	9.8	41.8	66.1	6	3.9	4	2.6
Jackson Heights (03)	2,739	16.2	2.3	70.9	85.4	45.0	6.4	11.8	55.9	75.7	14	5.1	8	2.9
Elmhurst, Corona (04)	2,971	17.8	1.8	57.6	89.4	44.7	6.6	11.5	50.9	77.3	24	8.1	18	6.1
Ridgewood, Glendale (05)	2,062	12.4	10.3	33.1	57.3	44.3	7.0	6.0	37.0	48.9	9	4.4	6	2.9
Rego Park, Forest Hills (06)	1,236	10.7	1.9	12.4	71.8	54.9	5.7	4.0	18.6	24.8	6	4.9	5	4.0
Flushing (07)	2,391	9.8	2.6	22.3	79.0	47.6	6.0	5.5	28.7	52.7	2	0.8	2	0.8
Fresh Meadows, Briarwood (08)	1,726	11.8	4.3	14.1	69.2	44.5	7.4	5.2	23.1	40.3	4	2.3	4	2.3
Woodhaven (09)	2,044	14.4	8.2	33.3	73.5	43.4	9.1	8.0	41.0	48.8	11	5.4	4	2.0
Howard Beach (10)	1,534	12.1	7.5	19.2	65.9	43.3	9.6	8.8	39.7	42.7	6	3.9	6	3.9
Bayside (11)	715	6.1	3.2	13.1	62.4	45.0	5.0	3.9	14.3	25.7	1	1.4	1	1.4
Jamaica, St. Albans (12)	3,015	13.5	2.9	17.7	60.7	43.2	11.2	10.5	58.8	55.3	26	8.6	20	6.6
Queens Village (13)	1,740	8.9	2.8	10.1	65.2	42.8	12.1	8.7	44.1	44.9	25	14.4	19	10.9
The Rockaways (14)	1,288	12.1	6.4	19.0	39.8	38.6	11.9	10.6	54.7	55.0	7	5.4	5	3.9
Staten Island	5,909	13.3	7.9	12.5	31.2	40.9	7.9	2.9	27.3	26.5	31	5.2	26	4.4
Port Richmond (01)	2,532	15.6	11.8	20.7	39.7	38.9	8.8	4.3	43.4	41.5	16	6.3	16	6.3
Willowbrook, South Beach (02)	1,442	11.3	6.7	8.9	36.3	43.3	8.2	2.4	18.8	22.2	8	5.5	5	3.5
Tottenville (03)	1,909	12.5	3.7	4.5	16.2	41.5	6.3	1.4	12.4	10.2	7	3.7	5	2.6

\*Rate per 1,000 population.

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

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

Table 37.

**Live Births by Mother's Birthplace and Borough of Residence  
New York City, 2003**

Birthplace	Borough of Residence						Non-Residents	Residence Unknown
	Total	Manhattan	Bronx	Brooklyn	Queens	Staten Island		
Bangladesh	1,515	50	211	333	906	6	9	-
China	5,568	1,554	83	2,127	1,550	62	192	-
Colombia	1,282	97	73	108	912	26	66	-
Cuba	72	19	12	11	10	4	16	-
Dominican Republic	8,218	2,290	3,344	1,285	1,090	45	164	-
Ecuador	3,238	262	381	667	1,850	29	49	-
El Salvador	757	59	99	134	405	4	56	-
Germany	263	115	8	75	28	6	31	-
Guyana	2,569	33	242	928	1,281	20	65	-
Haiti	1,732	54	40	1,136	374	9	119	-
Honduras	829	78	337	206	154	37	17	-
India	1,626	158	58	134	996	73	207	-
Ireland	277	42	27	22	121	2	63	-
Israel	1,123	169	32	630	152	44	96	-
Italy	291	69	14	74	48	41	45	-
Jamaica	3,396	82	940	1,423	757	33	161	-
Korea	937	182	18	60	552	21	104	-
Mexico	7,406	975	1,579	2,342	2,050	405	54	1
Pakistan	1,277	50	61	569	479	46	72	-
Philippines	860	105	83	96	392	63	121	-
Poland	771	30	11	340	297	53	40	-
Puerto Rico	2,052	264	973	474	204	64	73	-
Russia	998	103	10	528	228	61	68	-
Trinidad and Tobago	2,113	57	125	1,213	641	29	48	-
Ukraine	728	48	15	513	53	50	49	-
United States	56,791	10,616	9,198	18,236	7,566	3,993	7,180	2
Other & Not Stated	17,656	2,842	3,215	5,518	4,248	683	1,148	2
Total	124,345	20,403	21,189	39,182	27,344	5,909	10,313	5

Table 38.

**Live Births by Mother's Birthplace and Age of Mother  
New York City, 2003**

Birthplace	Total	Age						Unknown
		<20	20-24	25-29	30-34	35-39	40+	
Bangladesh	1,515	33	346	577	406	115	38	-
China	5,568	60	1,158	1,958	1,554	672	165	1
Colombia	1,282	65	257	313	321	241	85	-
Cuba	72	-	5	16	18	23	10	-
Dominican Republic	8,218	646	1,966	2,331	1,920	1,084	271	-
Ecuador	3,238	222	846	850	760	437	123	-
El Salvador	757	39	183	247	181	86	21	-
Germany	263	4	24	39	88	90	18	-
Guyana	2,569	81	469	740	701	453	125	-
Haiti	1,732	33	246	432	487	369	165	-
Honduras	829	72	214	209	180	126	28	-
India	1,626	23	248	612	518	187	38	-
Ireland	277	2	11	39	116	86	23	-
Israel	1,123	35	211	366	314	159	38	-
Italy	291	2	8	46	115	88	32	-
Jamaica	3,396	236	680	846	783	649	202	-
Korea	937	3	30	249	468	152	35	-
Mexico	7,406	956	2,471	2,233	1,198	449	99	-
Pakistan	1,277	22	254	425	358	173	45	-
Philippines	860	8	84	174	312	218	64	-
Poland	771	20	119	296	207	96	33	-
Puerto Rico	2,052	258	543	486	409	276	80	-
Russia	998	15	151	351	295	139	47	-
Trinidad and Tobago	2,113	133	478	560	460	359	123	-
Ukraine	728	11	91	257	257	95	17	-
United States	56,791	5,293	12,228	12,601	14,956	9,002	2,711	-
Other & Not Stated	17,656	559	2,700	4,731	5,273	3,417	976	-
Total	124,345	8,831	26,021	31,984	32,655	19,241	5,612	1

**Table 39.**

**Live Births to Teenagers by Selected Characteristics and Infant Deaths  
by Health Center District of Residence, New York City, 2003**

Health Center District	Live Births to Teenagers	Percent of Total Live Births	Percent of Teenage Live Births with Specified Characteristics								Infant Mortality (Under 1 Year)		Neonatal Mortality (Under 28 Days)	
			Mother's Ancestry		Foreign Born Mother	First Live Birth	Under 2,500 Grams	Late or No Prenatal Care	Mother Not Married	On Medicaid	Number	Rate*	Number	Rate*
			Puerto Rican	Other Hispanic										
NEW YORK CITY	8,831	7.1	18.3	35.9	36.4	84.4	9.7	11.0	88.6	80.5	75	8.5	48	5.4
MANHATTAN	1,217	6.0	18.6	48.4	35.7	83.1	9.7	12.1	91.9	90.4	14	11.5	8	6.6
Central Harlem	220	11.5	10.5	17.7	18.2	85.5	9.5	14.1	94.5	87.3	3	13.6	2	9.1
East Harlem	206	10.3	23.3	49.5	41.3	81.1	9.7	13.6	90.8	94.2	1	4.9	1	4.9
Kips Bay-Yorkville	32	1.0	12.5	6.3	15.6	96.9	12.5	3.1	90.6	84.4	-	-	-	-
Lower East Side	116	3.8	42.2	22.4	25.9	86.2	12.1	12.9	91.4	81.9	1	8.6	1	8.6
Lower West Side	79	2.2	21.5	27.8	25.3	84.8	7.6	24.1	93.7	94.9	1	12.7	1	12.7
Riverside	98	3.8	29.6	36.7	21.4	82.7	9.2	11.2	95.9	86.7	-	-	-	-
Washington Heights	466	10.9	12.0	77.7	50.0	80.9	9.4	9.0	90.3	92.7	8	17.2	3	6.4
BRONX	2,591	12.2	32.8	32.9	30.3	84.1	9.5	8.1	92.2	80.1	24	9.3	16	6.2
Fordham-Riverdale	436	10.5	29.1	43.1	39.9	82.3	9.6	8.3	89.4	76.8	4	9.2	3	6.9
Morrisania	470	14.3	30.6	30.9	26.8	83.4	9.8	8.7	92.8	80.4	2	4.3	1	2.1
Mott Haven	367	15.3	40.3	32.2	24.3	80.9	9.5	10.4	95.4	87.5	3	8.2	2	5.4
Pelham Bay	318	11.0	23.9	13.8	31.1	89.0	8.8	6.9	93.4	83.6	2	6.3	2	6.3
Tremont	589	13.4	31.7	40.4	32.1	84.6	10.2	6.3	92.0	71.8	10	17.0	5	8.5
Westchester	411	10.1	40.9	29.2	26.0	85.4	8.8	8.8	91.0	85.6	3	7.3	3	7.3
BROOKLYN	2,934	7.5	11.8	28.3	36.0	84.2	10.0	10.9	85.9	83.4	21	7.2	14	4.8
Bay Ridge	124	3.2	12.1	41.9	58.9	82.3	8.1	4.8	71.0	83.1	1	8.1	1	8.1
Bedford	406	11.0	4.4	9.4	25.9	87.9	7.9	13.5	94.6	85.7	2	4.9	1	2.5
Brownsville	560	11.8	13.0	12.0	22.1	82.9	12.9	14.1	97.1	83.0	6	10.7	4	7.1
Bushwick	436	12.0	17.4	51.1	36.0	80.5	11.0	13.1	93.8	85.3	3	6.9	1	2.3
Flatbush	500	6.1	3.4	20.0	47.8	87.4	9.0	12.2	84.6	82.2	3	6.0	3	6.0
Fort Greene	191	8.8	16.2	24.6	20.9	79.1	11.0	9.9	91.6	86.4	3	15.7	2	10.5
Gravesend	226	6.0	14.2	31.4	49.1	81.9	10.6	7.1	54.0	77.0	1	4.4	-	-
Red Hook-Gowanus	79	5.5	27.8	32.9	30.4	75.9	7.6	5.1	88.6	89.9	-	-	-	-
Sunset Park	241	5.5	11.6	55.6	57.7	88.0	8.7	3.7	72.2	78.8	-	-	-	-
Williamsburg-Greenpoint	171	5.5	19.9	42.1	25.7	87.7	8.8	8.8	76.6	86.5	2	11.7	2	11.7
QUEENS	1,639	6.0	7.7	48.5	50.3	85.2	9.0	15.9	86.9	75.1	12	7.3	7	4.3
Astoria-Long Island City	204	6.2	9.3	63.2	57.8	86.3	5.4	18.6	82.8	85.3	4	19.6	3	14.7
Corona	463	7.5	3.2	83.8	72.8	84.4	7.3	17.3	85.7	85.1	-	-	-	-
Flushing	98	2.2	11.2	48.0	40.8	85.7	9.2	10.2	80.6	66.3	-	-	-	-
Jamaica East	368	8.4	3.5	14.9	28.5	84.5	11.7	16.0	93.5	66.6	5	13.6	4	10.9
Jamaica West	385	6.9	13.0	29.9	44.4	86.0	11.7	16.6	86.2	67.3	2	5.2	-	-
Maspeth-Forest Hills	121	3.5	15.7	50.4	44.6	86.0	4.1	8.3	86.0	77.7	1	8.3	-	-
RICHMOND	297	5.0	18.9	25.6	27.6	88.6	9.1	4.0	87.2	61.6	3	10.1	3	10.1
NON-RESIDENTS	153	1.5	9.8	16.3	20.9	89.5	14.4	11.1	72.5	46.4	1	-	-	-
RESIDENCE UNKNOWN	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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

**Table 40.**

**Live Births to Teenagers by Selected Characteristics, New York City, 1990-2003**

	Year													
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Total Live Births	139,630	138,148	136,002	133,583	133,662	131,009	126,901	123,313	124,252	123,739	125,563	124,023	122,937	124,345
Percent to Teenagers	10.1	10.1	10.1	10.4	10.6	10.5	10.3	9.6	9.5	9.0	8.6	8.4	7.5	7.1
Births to Teenagers	14,131	13,999	13,795	13,848	14,156	13,713	13,020	11,793	11,789	11,145	10,800	10,386	9,240	8,831
Percent of Births with Specified Characteristics:														
Puerto Rican	27.5	27.0	25.9	25.6	23.4	22.2	22.3	22.2	22.5	21.3	19.6	18.1	18.4	18.3
Other Hispanic	17.2	19.1	20.8	21.6	23.8	28.2	27.2	27.2	28.7	30.7	32.8	35.0	34.0	35.9
Foreign Born Mother	24.6	26.0	26.9	27.9	28.6	30.8	31.3	32.5	32.1	33.5	35.1	36.5	36.4	36.4
First Live Birth	78.7	77.4	78.2	77.9	77.5	78.2	80.2	81.5	81.8	82.2	82.9	84.4	84.0	84.4
Under 2,500 Grams	10.9	11.5	10.4	11.1	10.7	10.6	9.7	10.8	10.3	10.3	9.7	10.1	10.4	9.7
Prenatal Care in First 6 Months of Pregnancy	60.2	64.0	65.6	66.1	69.5	71.3	71.7	67.3	68.8	69.8	77.7	80.7	83.2	85.6
Not Married	82.4	83.1	84.2	88.1	89.8	89.3	90.8	87.3	88.6	89.0	89.1	88.1	88.4	88.6
On Medicaid	74.2	78.0	79.2	79.4	80.6	78.6	81.5	80.2	78.5	77.7	79.3	81.7	80.1	80.5
Infant Mortality Rate*	13.1	13.6	11.0	11.9	9.9	12.3	9.4	9.5	7.5	8.5	8.3	7.4	9.2	8.5

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

**Table 41.**

**Live Births to Teenagers by Selected Characteristics and Infant Deaths  
by Community District of Residence, New York City, 2003**

Community District	Percent of Live Births		Percent of Live Births with Specified Characteristics								Infant Mortality (Under 1 Year)		Neonatal Mortality (Under 28 Days)	
			Mother's Ancestry		Foreign Born	First Live Birth	Under 2,500 Grams	Late or No Prenatal Care	Mother Not Married	On Medicaid	Number	Rate*	Number	Rate*
			Puerto Rican	Other Hispanic										
NEW YORK CITY	8,831	7.1	18.3	35.9	36.4	84.4	9.7	11.0	88.6	80.5	74	8.4	48	5.4
Manhattan	1,213	5.9	18.6	48.2	35.5	83.0	9.7	12.1	92.0	90.4	14	11.5	8	6.6
Battery Park, Tribeca (01)	1	0.2	-	-	-	100.0	-	-	-	-	-	-	-	-
Greenwich Village, SOHO (02)	8	1.0	-	50.0	50.0	62.5	-	-	75.0	87.5	-	-	-	-
Lower East Side (03)	111	4.6	42.3	23.4	27.0	85.6	12.6	12.6	91.9	82.9	1	9.0	1	9.0
Chelsea, Clinton (04)	36	4.3	27.8	22.2	27.8	77.8	8.3	27.8	97.2	97.2	1	27.8	1	27.8
Midtown Business District (05)	28	5.6	25.0	25.0	14.3	96.4	7.1	28.6	96.4	96.4	-	-	-	-
Murray Hill (06)	5	0.4	20.0	-	20.0	100.0	-	-	60.0	40.0	-	-	-	-
Upper West Side (07)	67	2.3	28.4	40.3	22.4	83.6	7.5	11.9	95.5	89.6	-	-	-	-
Upper East Side (08)	33	1.2	18.2	6.1	12.1	93.9	15.2	3.0	93.9	84.8	-	-	-	-
Manhattanville (09)	156	10.1	16.0	59.0	44.2	80.1	12.8	13.5	93.6	89.7	2	12.8	-	-
Central Harlem (10)	191	11.4	10.5	18.8	20.4	85.3	8.9	13.6	94.8	87.4	3	15.7	2	10.5
East Harlem (11)	233	12.9	21.0	45.1	36.9	82.0	9.9	14.2	91.0	93.6	1	4.3	1	4.3
Washington Heights (12)	344	11.0	12.2	80.8	49.1	81.4	8.4	7.6	89.8	93.0	6	17.4	3	8.7
Bronx	2,595	12.2	32.8	33.0	30.3	84.2	9.5	8.1	92.2	80.1	24	9.2	16	6.2
Mott Haven (01)	270	16.4	41.5	30.7	23.3	81.5	8.1	11.1	94.8	87.8	3	11.1	2	7.4
Hunts Point (02)	127	14.8	40.2	35.4	29.1	83.5	9.4	8.7	96.1	84.3	-	-	-	-
Morrisania (03)	199	15.6	31.2	20.6	18.1	84.4	9.0	9.0	93.5	76.4	1	5.0	-	-
Concourse, Highbridge (04)	374	12.6	28.1	41.2	36.1	81.3	9.6	7.5	92.5	81.6	3	8.0	1	2.7
University/Morris Heights (05)	338	13.3	29.6	43.2	35.5	85.2	10.7	6.5	91.1	68.0	6	17.8	3	8.9
East Tremont (06)	215	15.4	40.5	29.8	20.0	79.1	12.6	7.4	92.6	65.6	2	9.3	2	9.3
Fordham (07)	279	11.1	26.9	44.8	43.0	84.9	8.6	7.2	90.0	83.9	4	14.3	3	10.8
Riverdale (08)	69	5.9	20.3	58.0	44.9	87.0	14.5	10.1	84.1	84.1	-	-	-	-
Unionport, Soundview (09)	297	11.0	39.7	30.6	27.3	86.2	9.1	9.4	93.9	85.5	2	6.7	2	6.7
Throgs Neck (10)	77	8.1	46.8	13.0	16.9	84.4	6.5	5.2	85.7	85.7	-	-	-	-
Pelham Parkway (11)	110	8.1	30.9	30.9	33.6	81.8	8.2	8.2	82.7	84.5	1	9.1	1	9.1
Williamsbridge (12)	240	12.5	23.3	10.0	29.6	91.7	8.8	7.1	95.8	84.2	2	8.3	2	8.3
Brooklyn	2,934	7.5	11.8	28.3	36.0	84.2	10.0	10.9	85.9	83.4	21	7.2	14	4.8
Williamsburg, Greenpoint (01)	171	5.5	19.9	42.1	25.7	87.7	8.8	8.8	76.6	86.5	2	11.7	2	11.7
Fort Green, Brooklyn Heights (02)	74	6.7	14.9	28.4	24.3	75.7	9.5	4.1	87.8	87.8	-	-	-	-
Bedford Stuyvesant (03)	296	13.6	12.8	16.9	17.6	85.8	10.1	12.8	94.9	86.5	3	10.1	2	6.8
Bushwick (04)	271	12.4	16.2	59.0	37.3	79.7	10.7	10.7	94.8	90.4	1	3.7	1	3.7
East New York (05)	362	12.8	17.1	28.2	27.9	82.6	12.2	14.1	94.5	79.3	4	11.0	3	8.3
Park Slope (06)	72	5.0	30.6	31.9	23.6	83.3	5.6	2.8	88.9	88.9	-	-	-	-
Sunset Park (07)	183	7.7	18.0	67.8	60.7	83.6	9.3	3.3	85.2	86.3	1	5.5	1	5.5
Crown Heights North (08)	153	10.1	5.2	11.1	24.8	85.0	7.8	13.7	94.8	83.0	2	13.1	1	6.5
Crown Heights South (09)	136	7.5	1.5	7.4	43.4	88.2	8.1	14.0	93.4	87.5	-	-	-	-
Bay Ridge (10)	44	2.7	6.8	36.4	56.8	88.6	11.4	2.3	63.6	86.4	-	-	-	-
Bensonhurst (11)	67	3.1	9.0	40.3	58.2	68.7	10.4	4.5	70.1	82.1	-	-	-	-
Borough Park (12)	155	3.6	2.6	29.7	54.2	88.4	6.5	7.1	43.9	65.8	-	-	-	-
Coney Island (13)	115	9.6	20.0	43.5	45.2	84.3	10.4	9.6	59.1	87.0	1	8.7	-	-
Flatbush, Midwood (14)	160	5.7	5.0	34.4	51.9	86.9	10.6	13.1	89.4	85.0	3	18.8	3	18.8
Sheepshead Bay (15)	104	5.2	7.7	16.3	59.6	81.7	7.7	5.8	46.2	65.4	-	-	-	-
Brownsville (16)	205	14.3	13.2	8.8	12.2	81.5	13.2	19.0	98.5	87.3	2	9.8	-	-
East Flatbush (17)	221	9.2	3.2	4.1	44.3	90.5	11.3	13.1	96.8	86.4	-	-	-	-
Canarsie (18)	145	5.6	4.1	9.0	32.4	83.4	9.7	11.0	92.4	75.2	2	13.8	1	6.9
Queens	1,639	6.0	7.7	45.8	50.3	85.2	9.0	15.9	86.9	75.1	12	7.3	7	4.3
Astoria, Long Island City (01)	159	6.8	10.7	59.7	57.2	86.2	6.9	18.9	83.6	86.8	3	18.9	3	18.9
Sunnyside, Woodside (02)	67	4.4	3.0	80.6	64.2	89.6	1.5	16.4	83.6	80.6	1	14.9	-	-
Jackson Heights (03)	239	8.7	3.3	82.0	68.6	84.9	5.9	16.3	83.7	84.5	-	-	-	-
Elmhurst, Corona (04)	209	7.0	3.8	84.7	76.6	83.3	9.1	18.2	88.0	86.1	-	-	-	-
Ridgewood, Glendale (05)	92	4.5	18.5	55.4	42.4	88.0	3.3	9.8	89.1	81.5	1	10.9	-	-
Rego Park, Forest Hills (06)	20	1.6	-	25.0	55.0	70.0	10.0	5.0	65.0	65.0	-	-	-	-
Flushing (07)	58	2.4	13.8	50.0	48.3	82.8	13.8	10.3	79.3	74.1	-	-	-	-
Fresh Meadows, Briarwood (08)	49	2.8	10.2	36.7	36.7	87.8	4.1	4.1	77.6	59.2	-	-	-	-
Woodhaven (09)	117	5.7	16.2	34.2	55.6	89.7	12.0	12.0	77.8	67.5	2	17.1	-	-
Howard Beach (10)	97	6.3	7.2	36.1	59.8	82.5	11.3	21.6	86.6	56.7	-	-	-	-
Bayside (11)	7	1.0	14.3	57.1	28.6	85.7	-	42.9	100.0	85.7	-	-	-	-
Jamaica, St. Albans (12)	307	10.2	4.6	17.3	30.3	83.4	11.4	16.6	93.8	68.7	4	13.0	3	9.8
Queens Village (13)	100	5.7	3.0	15.0	29.0	89.0	11.0	16.0	92.0	59.0	1	10.0	1	10.0
The Rockaways (14)	118	9.2	15.3	19.5	20.3	85.6	13.6	16.9	94.1	73.7	-	-	-	-
Staten Island	297	5.0	18.9	25.6	27.6	88.6	9.1	4.0	87.2	61.6	3	10.1	3	10.1
Port Richmond (01)	225	8.9	19.6	31.1	30.2	88.0	9.8	4.4	89.3	67.1	2	8.9	2	8.9
Willowbrook, South Beach (02)	46	3.2	21.7	10.9	17.4	89.1	6.5	-	84.8	54.3	-	-	-	-
Tottenville (03)	26	1.4	7.7	3.8	23.1	92.3	7.7	7.7	73.1	26.9	1	38.5	1	38.5

\*Rate per 1,000 live births.

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



Table 42.

## Live Births and Infant Deaths by Birth Weight, Ethnic Group\*, and Age, New York City, 2003

Birth Weight in Grams	Live Births							Infant Deaths																	
								Total					Age Under 28 Days					Age Under 7 Days							
	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Other/ Unk.		Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Other/ Unk.	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Other/ Unk.						
Less than 500.....	151	38	19	71	17	6	134	37	15	62	14	6	127	36	15	58	12	6	125	36	15	56	12	6	
500-999.....	856	244	140	394	66	12	292	80	48	139	16	9	236	67	41	109	11	8	184	50	35	82	9	8	
1000-1499.....	1,005	329	205	365	101	5	39	15	3	18	3	-	21	7	2	10	2	-	16	3	2	9	2	-	
1500-1999.....	2,089	600	531	714	232	12	53	18	7	20	8	-	36	11	5	12	8	-	20	8	4	6	2	-	
2000-2499.....	6,476	1,867	1,667	2,027	895	20	47	14	13	17	1	2	24	9	7	6	1	1	17	6	6	4	1	-	
Less than 2500.....	10,577	3,078	2,562	3,571	1,311	55	565	164	86	256	42	17	444	130	70	195	34	15	362	103	62	157	26	14	
2500-2999.....	23,564	7,168	5,998	6,555	3,773	70	51	22	7	19	3	-	25	12	5	6	2	-	19	9	4	4	2	-	
3000-3499.....	48,705	15,934	14,550	11,080	7,004	137	85	30	17	29	8	1	31	8	9	9	5	-	22	6	5	8	3	-	
3500-3999.....	31,993	10,536	11,265	6,482	3,648	62	35	10	5	15	4	1	13	3	2	5	2	1	9	2	2	3	1	1	
4000-4499.....	8,225	2,618	3,175	1,677	739	16	12	6	-	6	-	-	6	3	-	3	-	-	4	2	-	2	-	-	
4500-4999.....	1,136	381	414	244	93	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5000 & over.....	144	44	54	37	9	-	1	-	-	1	-	-	1	-	-	1	-	-	-	-	-	-	-	-	
2500 & over.....	113,767	36,681	35,456	26,075	15,266	289	184	68	29	70	15	2	76	26	16	24	9	1	54	19	11	17	6	1	
Not stated.....	1	-	-	-	-	1	1	-	-	-	-	1	1	-	-	-	-	-	1	1	-	-	-	-	1
Unmatched**.....	-	-	-	-	-	-	57	13	31	10	1	2	21	5	13	2	-	1	15	4	10	1	-	-	
Total.....	124,345	39,759	38,018	29,646	16,577	345	807	245	146	336	58	22	542	161	99	221	43	18	432	126	83	175	32	16	

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

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

Table 43.

## Infant Mortality Rates\* by Birth Weight, Ethnic Group, and Age, New York City, 2003

Birth Weight in Grams	Total					Age Under 28 Days					Age Under 7 Days				
	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.	Total	Hispanic	Non-H White	Non-H Black	Asian & P.I.
Less than 500.....	887.4	**	**	**	**	841.1	**	**	**	**	827.8	**	**	**	**
500-999.....	341.1	327.9	342.9	352.8	**	275.7	274.6	292.9	276.6	**	215.0	204.9	250.0	208.1	**
1000-1499.....	38.8	45.6	14.6	49.3	29.7	20.9	21.3	9.8	27.4	19.8	15.9	9.1	9.8	24.7	19.8
1500-1999.....	25.4	30.0	13.2	28.0	34.5	17.2	18.3	9.4	16.8	34.5	9.6	13.3	7.5	8.4	8.6
2000-2499.....	7.3	7.5	7.8	8.4	1.1	3.7	4.8	4.2	3.0	1.1	2.6	3.2	3.6	2.0	1.1
Less than 2500.....	53.4	53.3	33.6	71.7	32.0	42.0	42.2	27.3	54.6	25.9	34.2	33.5	24.2	44.0	19.8
2500-2999.....	2.2	3.1	1.2	2.9	0.8	1.1	1.7	0.8	0.9	0.5	0.8	1.3	0.7	0.6	0.5
3000-3499.....	1.7	1.9	1.2	2.6	1.1	0.6	0.5	0.6	0.8	0.7	0.5	0.4	0.3	0.7	0.4
3500-3999.....	1.1	0.9	0.4	2.3	1.1	0.4	0.3	0.2	0.8	0.5	0.3	0.2	0.2	0.5	0.3
4000-4499.....	1.5	2.3	-	3.6	-	0.7	1.1	-	1.8	-	0.5	0.8	-	1.2	-
4500-4999.....	-	-	-	-	**	-	-	-	-	**	-	-	-	-	**
5000 & over.....	6.9	**	**	**	**	6.9	**	**	**	**	-	**	**	**	**
2500 & over.....	1.6	1.9	0.8	2.7	1.0	0.7	0.7	0.5	0.9	0.6	0.5	0.5	0.3	0.7	0.4
Total.....	6.5	6.2	3.8	11.3	3.5	4.4	4.0	2.6	7.5	2.6	3.5	3.2	2.2	5.9	1.9

\* Rate per 1,000 live births. Births and deaths included here were registered in 2003 and do not represent a true birth cohort. \*\* Rate not computed where base is less than 100.

Note: Quality assurance has reduced the number of infant death certificates with unknown race compared to previous years, thereby increasing the number of deaths reported in each weight-ethnic group and the mortality rate. See Technical Notes for a fuller discussion.

Table 44.

## Infant Deaths by Ethnic Group and Cause by Sex and Age, New York City, 2003

	Comparability Ratio**	Total	MALE			FEMALE		
			Under 7 Days	7 to 27 Days	28 Days & Over	Under 7 Days	7 to 27 Days	28 Days & Over
Total.....		807	242	64	146	190	46	119
Ethnic Group*								
Hispanic.....		245	64	22	50	62	13	34
Non-Hispanic, White.....		146	52	11	25	31	5	22
Non-Hispanic, Black.....		336	99	25	61	76	21	54
Asian and Pacific Islanders.....		58	14	6	9	18	5	6
Other and not stated.....		22	13	–	1	3	2	3
Cause of Death (ICD-10 Codes)								
# Human Immunodeficiency Virus disease (B20-B24).....	<b>0.97</b>	1	–	–	–	–	–	1
# Diseases of the Circulatory System (I00-I99).....	<b>0.66</b>	15	1	1	2	–	1	10
# Influenza and Pneumonia (J10-J18).....	<b>0.73</b>	5	–	–	4	–	–	1
# Newborn Affected by Maternal Complications of Pregnancy (P01).....	<b>1.05</b>	14	10	1	–	2	1	–
# Newborn Affected by Complications of Placenta, Cord and Membranes (P02).....	<b>1.02</b>	21	9	2	1	7	1	1
# Short Gestation and Low Birth Weight (P07).....	1.11	144	64	8	12	46	6	8
# Intrauterine Hypoxia and Birth Asphyxia (P20-P21).....	<b>1.32</b>	12	4	–	1	5	2	–
# Respiratory Distress of Newborn (P22).....	<b>0.87</b>	45	22	5	1	13	3	1
# Pulmonary Hemorrhage Originating in the Perinatal Period (P26).....	<b>1.53</b>	11	2	1	–	7	1	–
# Atelectasis (P28.0-P28.1).....	<b>2.22</b>	7	3	1	–	3	–	–
##Other Respiratory Conditions Originating in the Perinatal Period (P23-P28).....		15	1	2	6	1	1	4
##Cardiovascular Disorders Originating in the Perinatal Period (P29).....		131	62	8	8	47	4	2
##Infections Specific to the Perinatal Period (P35-P39).....	<b>1.15</b>	29	7	9	2	5	5	1
# Neonatal Hemorrhage (P50-P52, P54).....	<b>1.31</b>	17	7	1	1	4	4	–
# Necrotizing Enterocolitis of Newborn (P77).....	<b>1.19</b>	15	1	6	2	1	3	2
Remainder of Conditions Originating in the Perinatal Period (Rest of P00-P99).....		16	5	2	–	8	1	–
# Congenital Malformations, Deformations (Q00-Q99).....	<b>0.93</b>	156	35	13	31	37	11	29
Congenital Malformations of Heart (Q20-Q24).....	<b>1.01</b>	51	6	6	14	8	5	12
# Sudden Infant Death Syndrome (R95).....	<b>1.06</b>	25	1	–	15	–	–	9
All Other Diseases (Rest of A00-R99).....		81	4	3	38	2	1	33
##External Causes (V01-Y89).....	<b>1.00</b>	47	4	1	22	2	1	17

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

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

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

\*\* The comparability ratio represents the net effects of changing from ICD-9 to ICD-10 for the selected cause or group of causes. See Technical Notes for a detailed description. The comparability ratios in bold are changed from preliminary ones.

Table 45. Live Births, Infant Deaths and Infant Mortality Rate (IMR) by Mother's Birthplace, New York City, 2003

Birthplace	Live Births	Infant Deaths	IMR
Dominican Republic	8,218	48	5.8
Mexico	7,406	28	3.8
China	5,568	20	3.6
Jamaica	3,396	35	10.3
Ecuador	3,238	11	3.4
Guyana	2,569	20	7.8
Trinidad and Tobago	2,113	10	4.7
Haiti	1,732	15	8.7
India	1,626	5	3.1
Bangladesh	1,515	6	4.0
Colombia	1,282	10	7.8
Pakistan	1,277	8	6.3
Israel	1,123	2	1.8
Russia	998	2	2.0
Korea	937	–	–
Philippines	860	4	4.7
Honduras	829	4	4.8
Poland	771	2	2.6
Nigeria	768	2	2.6
El Salvador	757	3	4.0
Ghana	750	7	9.3
Ukraine	728	2	2.7
United Kingdom	639	6	9.4
Peru	598	2	3.3
Puerto Rico	2,052	17	8.3
United States	56,791	387	6.8
All Others and Unknown	15,804	151	–
New York City Total	124,345	807	6.5

Table 46.

**Live Births, Infant and Maternal Mortality by Mother's Ethnic Group  
New York City, 1987 - 2003**

Mother's Ethnic Group (1)	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002**	2003
<b>Live Births, Total</b> . . . . .	127,386	132,226	137,673	139,630	138,148	136,002	133,583	133,662	131,009	126,901	123,313	124,252	123,739	125,563	124,023	122,937	124,345
Puerto Rican . . . . .	18,625	18,822	19,248	19,327	18,851	17,856	16,568	15,182	13,895	12,925	12,947	13,056	12,184	11,615	10,846	10,678	10,172
Other Hispanic . . . . .	19,372	20,145	23,013	24,912	25,564	25,556	26,571	28,298	29,717	28,114	26,108	26,793	27,887	28,695	29,310	29,229	29,587
Asian and Pacific Islander . . . . .	10,926	11,597	12,051	12,394	12,602	12,688	10,742	11,268	11,647	12,782	13,226	13,132	13,768	15,106	14,662	15,396	16,577
Other White . . . . .	37,558	38,992	39,362	38,906	37,464	37,102	38,403	38,203	36,711	37,215	37,006	36,957	36,369	36,752	36,581	36,445	38,018
Other Black . . . . .	40,020	41,356	43,069	42,844	41,486	40,662	39,768	39,195	37,217	34,798	33,500	33,675	32,960	32,879	32,123	30,690	29,646
Other & Unknown . . . . .	885	1,314	930	1,247	2,181	2,138	1,531	1,516	1,822	1,067	526	639	571	516	501	499	345
<b>Infant Deaths (Under 1 Year) (2) Total</b> . . . . .	1,673	1,770	1,827	1,620	1,575	1,390	1,366	1,207	1,155	992	881	843	848	839	760	742	807
Puerto Rican . . . . .	240	241	257	238	211	194	178	120	146	112	96	85	95	98	74	83	81
Other Hispanic . . . . .	182	186	219	195	187	170	196	174	197	164	141	129	156	140	151	150	164
Asian and Pacific Islander . . . . .	65	79	93	67	76	73	61	57	57	56	51	49	55	59	46	39	58
Other White . . . . .	350	353	321	300	278	227	244	223	204	197	189	201	167	165	154	148	146
Other Black . . . . .	802	891	911	797	777	676	646	598	522	448	385	363	350	366	322	311	336
Other & Unknown . . . . .	34	20	26	23	46	50	41	35	29	15	19	16	25	11	13	11	22
<b>Infant Mortality Rate (3) Total</b> . . . . .	13.1	13.4	13.3	11.6	11.4	10.2	10.2	9.0	8.8	7.8	7.1	6.8	6.9	6.7	6.1	6.0	6.5
Puerto Rican . . . . .	12.9	12.8	13.4	12.3	11.2	10.9	10.7	7.9	10.5	8.7	7.4	6.5	7.8	8.4	6.8	7.8	8.0
Other Hispanic . . . . .	9.4	9.2	9.5	7.8	7.3	6.7	7.4	6.1	6.6	5.8	5.4	4.8	5.6	4.9	5.2	5.1	5.5
Asian and Pacific Islander . . . . .	5.9	6.8	7.7	5.4	6.0	5.8	5.7	5.1	4.9	4.4	3.9	3.7	4.0	3.9	3.1	2.5	3.5
Other White . . . . .	9.3	9.1	8.2	7.7	7.4	6.1	6.4	5.8	5.6	5.3	5.1	5.4	4.6	4.5	4.2	4.1	3.8
Other Black . . . . .	20.0	21.5	21.2	18.6	18.7	16.6	16.2	15.3	14.0	12.9	11.5	10.8	10.6	11.1	10.0	10.1	11.3
<b>Neonatal Deaths (Under 28 Days) Total</b> . . . . .	1,139	1,232	1,253	1,091	1,089	941	917	804	811	656	605	593	606	583	524	497	542
Puerto Rican . . . . .	157	159	172	155	138	138	108	67	113	72	60	60	74	59	54	59	51
Other Hispanic . . . . .	134	133	153	136	136	120	136	122	143	113	107	92	113	94	112	106	110
Asian and Pacific Islander . . . . .	42	59	60	44	45	50	38	42	44	35	37	34	39	45	29	26	43
Other White . . . . .	251	264	238	222	201	157	177	158	146	139	130	139	120	119	102	100	99
Other Black . . . . .	535	602	610	518	533	436	425	389	342	283	257	252	236	257	215	196	221
<b>Neonatal Mortality Rate (3) Total</b> . . . . .	8.9	9.3	9.1	7.8	7.9	6.9	6.9	6.0	6.2	5.2	4.9	4.8	4.9	4.6	4.2	4.0	4.4
Puerto Rican . . . . .	8.4	8.4	8.9	8.0	7.3	7.7	6.5	4.4	8.1	5.6	4.6	4.6	6.1	5.1	5.0	5.5	5.0
Other Hispanic . . . . .	6.9	6.6	6.6	5.5	5.3	4.7	5.1	4.3	4.8	4.0	4.1	3.4	4.1	3.3	3.8	3.6	3.7
Asian and Pacific Islander . . . . .	3.8	5.1	5.0	3.6	3.6	3.9	3.5	3.7	3.8	2.7	2.8	2.6	2.8	3.0	2.0	1.7	2.6
Other White . . . . .	6.7	6.8	6.0	5.7	5.4	4.2	4.6	4.1	4.0	3.7	3.5	3.8	3.3	3.2	2.8	2.7	2.6
Other Black . . . . .	13.4	14.6	14.2	12.1	12.8	10.7	10.7	9.9	9.2	8.1	7.7	7.5	7.2	7.8	6.7	6.4	7.5
<b>Maternal Causes, Total *</b> . . . . .	28	26	29	35	24	30	20	29	26	22	17	16	24	30	41	31	22
Puerto Rican . . . . .	2	2	4	1	4	2	2	4	3	1	1	1	1	-	2	-	1
Other Hispanic . . . . .	4	6	2	4	2	3	2	5	7	4	2	2	3	7	7	6	1
Asian and Pacific Islander . . . . .	6	1	1	1	-	1	-	2	1	1	1	1	1	1	-	-	1
Other White . . . . .	3	2	2	2	2	6	-	6	-	4	2	2	6	2	4	7	3
Other Black . . . . .	8	15	20	25	15	16	14	12	14	11	11	10	12	20	27	17	16
<b>Maternal Mortality Ratio (4) Total</b> . . . . .	22.0	19.7	21.1	25.1	17.4	22.1	15.0	21.7	19.8	17.3	13.8	12.9	19.4	23.9	33.1	25.2	17.7
Puerto Rican . . . . .	10.7	10.6	20.8	5.2	21.2	11.2	12.1	26.3	21.6	7.7	7.7	7.7	8.2	-	18.4	-	9.8
Other Hispanic . . . . .	20.6	29.8	8.7	16.1	7.8	11.7	7.5	17.7	23.6	14.2	7.7	7.5	10.8	24.4	23.9	20.5	3.4
Asian and Pacific Islander . . . . .	54.9	8.6	8.3	8.1	-	7.9	-	17.7	8.6	7.8	7.6	7.6	7.3	6.6	-	-	6.0
Other White . . . . .	8.0	5.1	5.1	5.1	5.3	16.2	-	15.7	-	10.7	5.4	5.4	16.5	5.4	10.9	19.2	7.9
Other Black . . . . .	20.0	36.3	46.4	58.4	36.2	39.3	35.2	30.6	37.6	31.6	32.8	29.7	36.4	60.8	84.1	55.4	54.0

\* Includes deaths while pregnant or within 42 days of termination. See Technical Notes.

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

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

Those of other ancestries are classified as Other White, Other Black, Other and Unknown based on race. See Technical Notes for a discussion of race, ancestry and ethnicity.

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

(3) Rate per 1,000 live births.

(4) Ratio per 100,000 live births.

Table 47.

## Cases of Reportable Diseases, New York City, 1940-2003

Year	Tuberculosis	Measles	Rubella	West Nile Virus**	Pertussis	Meningococcal Meningitis	Scarlet Fever	Encephalitis	Hepatitis A	Hepatitis B	Syphilis		Gonorrhea	
											Total	Primary & Secondary		
1940	9,005	10,496	988		5,775	48	13,569	28			30,178	3,113	14,639	
1941-1945	8,608	24,890	7,360		5,706	705	8,111	42			25,773	4,124	13,955	
1946-1950	7,862	17,348	2,442		2,574	145	3,579	55			24,144	2,686	21,522	
1951-1955	7,002	20,025	3,956		1,726	135	2,253	256			22,046	685	12,468	
1956-1960	5,472	18,170	3,893		966	73	2,125	197			15,124	1,242	13,270	
1961-1965	4,427	12,279	5,744		253	58	1,442	172			19,052	3,259	23,005	
1966	3,663	8,381	1,036		206	56	799	146			13,724	2,364	29,679	
1967	3,542	529	1,030		179	65	731	61			13,918	1,987	27,373	
1968	3,224	2,445	3,074		122	90	732	61			13,204	2,172	32,637	
1969	2,951	5,033	1,185		149	88	891	57			11,439	2,630	36,729	
1970	2,590	1,154	685		163	90	513	35			10,362	3,780	36,783	
1971	2,572	3,819	626		55	60	614	19			11,642	3,854	38,472	
1972	2,275	447	271		79	44	445	11			10,390	4,106	48,414	
1973	2,101	965	502		77	37	708	26			7,334	3,256	45,467	
1974	2,022	651	173		75	26	402	17			7,593	3,184	42,071	
1975	2,151	170	193		40	32	463	14			7,236	2,864	39,981	
1976	2,151	497	163		43	51	609	20			6,832	2,494	40,589	
1977	1,605	804	336		47	64	583	20		566	4,749	1,881	39,302	
1978	1,307	405	152		54	88	271	30		499	493	5,567	2,060	40,208
1979	1,530	859	290		44	91	312	17		386	488	6,680	2,552	40,034
1980	1,514	1,210	105		30	110	319	15		364	562	5,906	2,387	43,699
1981	1,582	108	55		25	91	464	20		606	879	6,878	2,568	45,859
1982	1,594	49	36		53	104	583	21		689	1,117	7,296	2,602	46,960
1983	1,651	72	87		61	89	454	14		507	1,327	6,822	2,473	46,117
1984	1,629	113	111		20	75	427	9		560	1,528	6,796	2,285	48,032
1985	1,843	181	184		26	70	409	18		N.A.	N.A.	6,947	2,157	58,532
1986	2,223	944	2		10	81	N.A.	21		N.A.	N.A.	6,465	2,111	69,998
1987	2,197	449	3		15	57	206	8		172	1,213	10,472	4,452	84,022
1988	2,317	57	7		11	66	81	6		368	1,307	11,966	5,042	52,404
1989	2,545	135	16		19	50	108	9		502	1,418	13,748	4,362	40,533
1990	3,520	1,108	4		21	79	175	12		791	674	16,195	4,265	35,236
1991	3,673	1,909	2		22	30	325	5		1,283	440	14,895	3,133	28,945
1992	3,811	68	0		24	28	258	9		883	439	13,439	2,246	21,709
1993	3,235	19	22		116	40	267	5		1,028	472	10,476	1,129	18,477
1994	2,995	15	1		223	40	335	11		942	544	7,640	626	19,246
1995	2,445	5	6		36	54	211	8		1,008	494	7,577	362	16,361
1996	2,053	12	5		62	56	164	4		619	495	5,670	138	12,998
1997	1,730	13	25		42	57	218	14		920	460	4,889	97	14,556
1998	1,558	0	17		12	35	527	14		575	415	4,503	82	12,100
1999	1,460	3	6	46	7	59	310	143		412	305	3,682	130	12,207
2000	1,332	13	8	14	11	46	350	178		550	571	2,661	117	11,669
2001	1,261	7	6	9	6	42	481	172		454	666	3,267	282	12,614
2002	1,084	6	2	29	5	31	881	211		453	704	3,444	434	12,811
2003	1,140	5	2	30	28	45	994	169		447	208*	3,767	531	13,468

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

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

\* The way of counting hepatitis B during 2003 was changed so that the cases counted are newly-acquired cases of hepatitis B. The numbers are probable or definite new cases.

\*\* In the 1999 West Nile viral disease data, both hospitalized cases (n=44) and milder illness cases (n=2) are included. Beginning in 2000, only hospitalized cases of West Nile encephalitis or aseptic meningitis are included. There were 5 WNV deaths in 2003. See Table 4.

Source of data: Bureaus of Communicable Disease, Immunization, and Tuberculosis Control, New York City Department of Health and Mental Hygiene.

Table 48. Incidence of AIDS By Sex, Major Risk Group, and Year of Diagnosis, New York City, 1980-2003\*

Sex/Risk Group	1980-1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<b>Male</b>														
Sex with Men	16,018	2,861	3,216	3,571	3,562	2,726	1,964	1,436	1,110	1,076	1,161	1,031	911	1,082
Injection Drug Use History (IDU)	12,793	3,507	4,283	4,890	4,373	3,517	2,649	1,899	1,311	1,198	1,116	742	491	495
Heterosexual Transmission	649	211	322	450	713	940	870	725	712	584	576	454	337	285
Perinatal	464	89	103	115	85	66	64	37	13	21	17	16	11	1
Other	230	28	33	38	57	53	40	32	32	12	20	29	4	9
Unknown/Under Investigation	723	291	340	451	658	936	1,037	944	623	741	1,289	1,277	1,175	1,252
Total	30,877	6,987	8,297	9,515	9,448	8,238	6,624	5,073	3,801	3,632	4,179	3,549	2,929	3,124
<b>Female</b>														
Injection Drug Use History (IDU)	3,603	1,262	1,505	1,741	1,590	1,358	1,042	795	562	473	485	339	192	205
Heterosexual Transmission	1,635	597	801	1,108	1,182	1,208	1,105	981	765	674	725	585	431	465
Perinatal	440	78	98	115	127	65	46	40	23	19	20	22	18	2
Other	140	14	25	24	30	38	40	30	27	15	22	19	5	15
Unknown/Under Investigation	284	112	146	188	255	360	420	437	428	447	784	791	741	816
Total	6,102	2,063	2,575	3,176	3,184	3,029	2,653	2,283	1,805	1,628	2,036	1,756	1,387	1,503

\* The risk groups were changed from 2002 to separate "Perinatal" and "Unknown/Under Investigation" from "Other" category.

Note: To be classified as having AIDS, an HIV-infected person must meet CDC case-surveillance criteria. These include the presence of opportunistic illness and CD4+ lymphocyte count below 200. For further information telephone the HIV Epidemiology Program, (212) 442-3388.

Figures include reports through June 2004. Data for recent years are incomplete due to reporting lag.

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

**Table 49. Marriages, Births, Deaths, and Infant Deaths by Month and Average per Day  
New York City, 2003**

MONTHS	NUMBER				AVERAGE PER DAY			
	MARRIAGES	BIRTHS	DEATHS	INFANT DEATHS	MARRIAGES	BIRTHS	DEATHS	INFANT DEATHS
January	4,389	10,457	5,425	69	142	337	175	2.2
February	4,282	9,432	5,068	65	153	337	181	2.3
March	4,943	10,316	4,962	69	159	333	160	2.2
April	5,405	9,843	4,679	72	180	328	156	2.4
May	5,557	10,404	4,795	53	179	336	155	1.7
June	5,740	10,191	4,775	60	191	340	159	2.0
July	5,901	10,977	4,753	84	190	354	153	2.7
August	5,839	10,787	4,776	68	188	348	154	2.2
September	5,460	11,011	4,612	65	182	367	154	2.2
October	5,178	10,562	4,878	70	167	341	157	2.3
November	3,968	9,936	4,778	68	132	331	159	2.3
December	4,439	10,429	5,712	64	143	336	184	2.1
Total	61,101	124,345	59,213	807	167	341	162	2.2

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

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

Rank	GIRLS											
	1898	1928	1948	1980	1985	1990	1995	1999	2000	2001	2002	2003
1	Mary	Mary	Linda	Jennifer	Jennifer	Stephanie	Ashley	Ashley	Ashley	Ashley	Ashley	Emily
2	Catherine	Marie	Mary	Jessica	Jessica	Jessica	Jessica	Samantha	Samantha	Kayla	Emily	Ashley
3	Margaret	Annie	Barbara	Melissa	Christina	Ashley	Amanda	Emily	Kayla	Samantha	Kayla	Kayla
4	Annie	Margaret	Patricia	Nicole	Stephanie	Jennifer	Samantha	Sarah	Emily	Emily	Brianna	Sarah
5	Rose	Catherine	Susan	Michelle	Melissa	Amanda	Stephanie	Nicole	Brianna	Jessica	Samantha	Samantha
6	Marie	Gloria	Kathleen	Elizabeth	Nicole	Samantha	Jennifer	Kayla	Sarah	Brianna	Sarah	Brianna
7	Esther	Helen	Carol	Lisa	Elizabeth	Nicole	Nicole	Jessica	Jessica	Nicole	Nicole	Isabella
8	Sarah	Teresa	Nancy	Christina	Amanda	Christina	Sarah	Brianna	Nicole	Sarah	Jessica	Nicole
9	Frances	Joan	Margaret	Tiffany	Danielle	Melissa	Michelle	Amanda	Michelle	Destiny	Michelle	Rachel
10	Ida	Barbara	Diane	Maria	Lauren	Michelle	Emily	Jennifer	Amanda	Michelle	Isabella	Jessica

Rank	BOYS											
	1898	1928	1948	1980	1985	1990	1995	1999	2000	2001	2002	2003
1	John	John	Robert	Michael	Michael	Michael	Michael	Michael	Michael	Michael	Michael	Michael
2	William	William	John	David	Christopher	Christopher	Christopher	Justin	Justin	Justin	Justin	Justin
3	Charles	Joseph	James	Jason	Daniel	Jonathan	Kevin	Matthew	Christopher	Christopher	Daniel	Daniel
4	George	James	Michael	Joseph	David	Anthony	Daniel	Christopher	Matthew	Daniel	Matthew	Matthew
5	Joseph	Richard	William	Christopher	Anthony	David	Jonathan	Joseph	Daniel	Matthew	Christopher	Christopher
6	Edward	Edward	Richard	Anthony	Joseph	Daniel	Joseph	Daniel	Anthony	Joseph	Joseph	Anthony
7	James	Robert	Joseph	John	Jonathan	Joseph	Anthony	Anthony	Joshua	Anthony	Anthony	David
8	Louis	Thomas	Thomas	Daniel	Jason	Matthew	Matthew	David	David	David	Joshua	Joshua
9	Francis	George	Stephen	Robert	John	John	David	Kevin	Joseph	Joshua	Nicholas	Joseph
10	Samuel	Louis	David	James	Robert	Andrew	Justin	Joshua	Kevin	Kevin	David	Kevin

**Table 51. Most Popular Baby Names by Sex and Mother's Ethnic Group  
New York City, 2003**

Rank	GIRLS				BOYS			
	HISPANIC	BLACK	WHITE	ASIAN & P.I.	HISPANIC	BLACK	WHITE	ASIAN & P.I.
1	Ashley	Kayla	Sarah	Michelle	Justin	Justin	Michael	Kevin
2	Emily	Brianna	Olivia	Rachel	Christopher	Joshua	Joseph	Jason
3	Samantha	Jada	Julia	Emily	Kevin	Elijah	Daniel	Justin
4	Kayla	Destiny	Emily	Tiffany	Angel	Isaiah	Matthew	Ryan
5	Brianna	Aaliyah	Isabella	Kelly	Daniel	Michael	Nicholas	Andrew
6	Stephanie	Imani	Rachel	Ashley*	Anthony	Christopher	David	Eric
7	Jennifer	Ashley	Emma	Jessica*	Brandon	Jaden	Jacob	Matthew
8	Melanie	Jasmine	Sophia	Sarah	David*	Brandon	Ryan	Ivan
9	Nicole	Nia	Esther	Sophia	Joshua*	Jordan	Alexander	Daniel
10	Destiny	Shania	Nicole	Amy	Michael	Anthony	Benjamin	Andy*
				Sabrina	Luis			William*

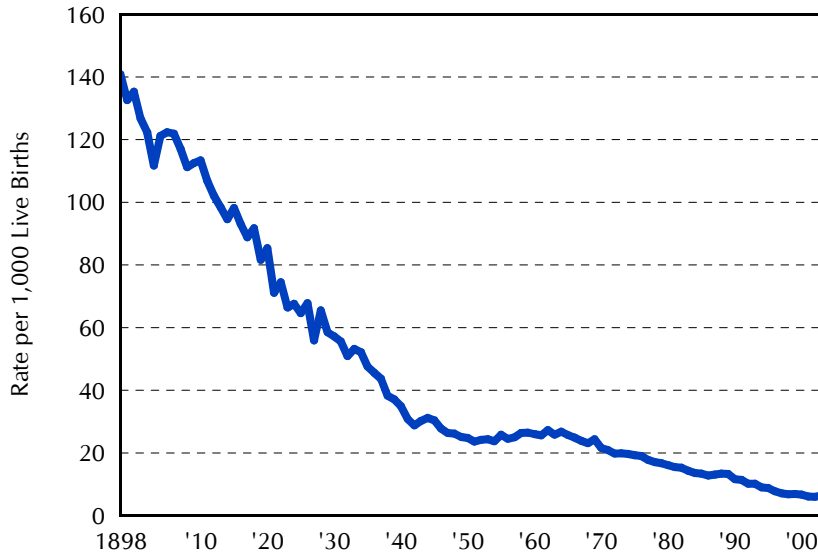
\* Tied ranks.

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

Mothers of other and unknown ethnicities not shown. See the Technical Notes for a discussion of race, ancestry and ethnicity.

**Table 52. Live Births by Borough and Institution, New York City, 2003**

Borough and Institution	Births
<b>Manhattan</b>	
Allen Pavilion . . . . .	2,414
Bellevue Hospital Center . . . . .	2,051
Beth Israel Medical Center . . . . .	3,644
Columbia Presbyterian Medical Center . . . . .	3,941
Elizabeth Seton Childbearing Center . . . . .	142
Harlem Hospital Center . . . . .	1,041
Lenox Hill Hospital . . . . .	4,092
Metropolitan Hospital Center . . . . .	2,067
Mount Sinai Hospital . . . . .	4,443
NYU Downtown Hospital . . . . .	2,445
NYU Hospital Center - Tisch Hospital . . . . .	4,643
New York Weill Cornell Medical Center . . . . .	5,820
St. Luke's - Roosevelt Hospital Center / Roosevelt Hospital Division. . . . .	3,593
St. Luke's - Roosevelt Hospital Center / St. Luke's Hospital Division. . . . .	974
St. Vincent's Hospital Manhattan . . . . .	1,719
Home . . . . .	37
<b>Bronx</b>	
Bronx Lebanon Hospital Center . . . . .	2,815
Jack D. Weiler Hospital of the Albert Einstein College of Medicine . . . . .	4,388
Jacobi Medical Center . . . . .	2,200
Lincoln Medical and Mental Health Center . . . . .	2,580
North Central Bronx Hospital . . . . .	1,747
Our Lady of Mercy Medical Center . . . . .	1,944
St. Barnabas Hospital . . . . .	1,466
Women's Health & Birthing Center . . . . .	160
Home . . . . .	10
<b>Brooklyn</b>	
Brookdale University Hospital and Medical Center . . . . .	1,903
Brooklyn Birthing Center . . . . .	55
Brooklyn Hospital Center . . . . .	2,879
Coney Island Hospital . . . . .	1,178
Interfaith Medical Center . . . . .	714
Kings County Hospital Center . . . . .	2,328
Kingsbrook Jewish Medical Center . . . . .	1
Long Island College Hospital . . . . .	2,731
Lutheran Medical Center . . . . .	3,818
Maimonides Medical Center . . . . .	6,233
New York Methodist Hospital . . . . .	4,544
St. Mary's Hospital . . . . .	551
University Hospital of Brooklyn . . . . .	1,433
Victory Memorial Hospital . . . . .	445
Woodhull Medical and Mental Health Center . . . . .	1,331
Wyckoff Heights Medical Center . . . . .	1,908
Home . . . . .	83
<b>Queens</b>	
Elmhurst Hospital Center . . . . .	4,307
Flushing Hospital Medical Center . . . . .	1,965
Jamaica Hospital Medical Center . . . . .	3,208
Long Island Jewish Medical Center . . . . .	5,934
New York Hospital Medical Center of Queens . . . . .	3,366
North Shore University Hospital at Forest Hills . . . . .	1,480
Queens Hospital Center . . . . .	1,756
St. John's Episcopal Hospital . . . . .	924
St. John's Queens Hospital . . . . .	2,198
Home . . . . .	27
<b>Staten Island</b>	
St. Vincent's Staten Island Hospital . . . . .	3,852
Staten Island University Hospital . . . . .	2,814
Home . . . . .	3
<b>New York City Total . . . . .</b>	<b>124,345</b>



**Figure 17.** Infant Mortality Rate  
New York City, 1898 - 2003

New York City took its present form in 1898 when its boundaries were extended to include all five boroughs: Manhattan, Bronx, Brooklyn, Queens and Staten Island. The infant mortality rate at that time is estimated at 136.7 deaths under one year of age per 1,000 live births, (Because of incomplete reporting of early neonatal deaths, this is almost certainly an underestimate.) Improvements in food and water safety in the earlier part of the twentieth century, and in access to medical care advances in recent years, have contributed to the decline to 6.5 deaths per 1,000 live births in 2003. 2003 infant mortality rate is about 8% higher than it was in 2002, when it was 6.0 deaths per 1,000 live births, an historical low.

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## 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 from the 2000 census, 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.

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

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

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

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

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

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

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

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

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

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

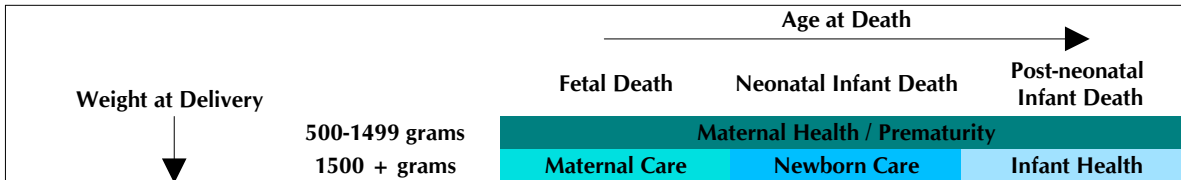
**Maternal Mortality Ratio** - The number of deaths due to complications of pregnancy, childbirth and the puerperium occurring within 42 days of delivery per 100,000 live births.



## Special Section A. Fetal - Infant Mortality (Perinatal Periods of Risk), 1999-2003

This special section presents a relatively new approach to analyzing fetal and infant mortality, Perinatal Periods of Risk (PPOR). It examines fetal and infant deaths by categorizing them into four groups based on age at death and birthweight. There are four "Periods of Risk": Maternal Health/Prematurity, Maternal Care, Newborn Care and Infant Health, the components of which are shown below.

**Figure A1. Components of Perinatal Periods of Risk**



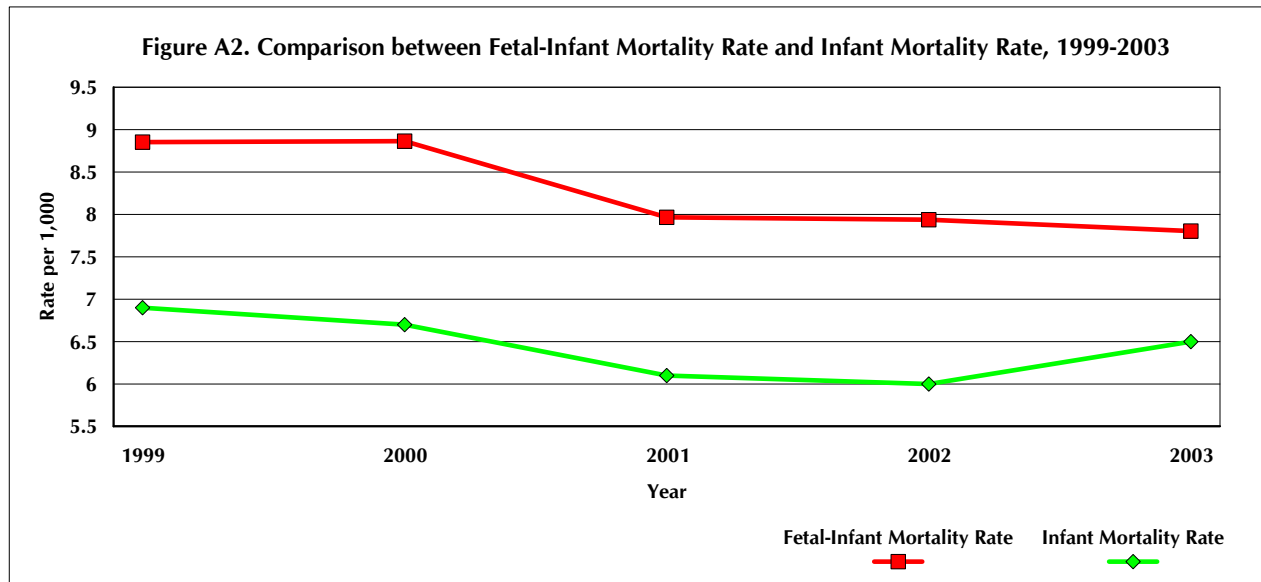
The table below presents numbers and rates of PPOR by year and ethnicity, which shows the disparity between non-Hispanic whites and non-Hispanic blacks, especially in the "Maternal Health/ Prematurity" component.

**Table A. Fetal-infant Mortality Rate (per 1,000) and Perinatal Periods of Risk Components by Year and Ethnicity, 1999-2003**

Year	Maternal Health/ Prematurity		Maternal Care		Newborn Care		Infant Health		Total fetal-infant Mortality	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1999	536	4.3	261	2.1	161	1.3	140	1.1	1,098	8.9
2000	544	4.3	277	2.2	136	1.1	159	1.3	1,116	8.9
2001	489	3.9	234	1.9	126	1.0	141	1.1	990	8.0
2002	459	3.7	235	1.9	131	1.1	153	1.2	978	7.9
2003	470	3.8	218	1.8	136	1.1	148	1.2	972	7.8
Ethnicity, 1999-2003	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Hispanic	707	3.5	365	1.8	240	1.2	241	1.2	1,553	7.7
Asian and Pacific Islander	180	2.4	108	1.4	62	0.8	45	0.6	395	5.2
Non-Hispanic White	394	2.1	246	1.3	157	0.9	124	0.7	921	5.0
Non-Hispanic Black	1176	7.4	485	3.1	221	1.4	327	2.1	2,209	13.9
Other or Unknown	41	-	21	-	10	-	4	-	76	-

Note: Fetal deaths that occur before 24 weeks, and fetal deaths or live births weighing less than 500 grams are not included in fetal-infant mortality.

The following Figure compares fetal-infant mortality (PPOR) rate with traditional infant mortality rate (IMR). The overall fetal-infant mortality rate is higher than IMR because it includes the number of fetal deaths with 24 weeks or more gestational age. Although IMR increased from 6.0 in 2002 to 6.5 in 2003, the fetal-infant mortality rate kept its downward trend, decreasing slightly from 7.9 in 2002 to 7.8 in 2003.



## Special Section B. Blackout, August 2003

This Special Section presents data on blackout-related deaths and also presents data on births nine months after the blackout of August 2003.

The largest blackout in U.S. history occurred on August 14, 2003 at 4:11 p.m. It affected a wide area from New York to Toronto to Detroit, and lasted over 29 hours. Power was fully restored in the City at 9:03 p.m. on August 15. During the period high temperatures were in the 90 degree (F) range.

Based on a review of death certificates, at least six deaths were caused by the power failure. Three deaths were caused by exposure to carbon monoxide fumes from emergency generators: one was work related inside a building, and two were on a boat docked in a marina. Another death was heat related, resulting from exposure to excessive heat on a subway train stalled in a tunnel. One death occurred due to the failure of a mechanical respirator at the person's home, and one death was caused by a myocardial infarction during a workplace stair descent evacuation.

The table on the right shows some demographic information about the decedents.

The chart below presents the number of births by week, January 2002 - October 2004. It shows no abnormal change in the number of births nine months after the blackout. This is consistent with the scientific literature; several citations are provided below.

### References on the effects of blackouts on births

Izenman, Alan J. Babies and the Blackout: The genesis of a misconception. *Social Science Research* 10, 1981: 282-299.

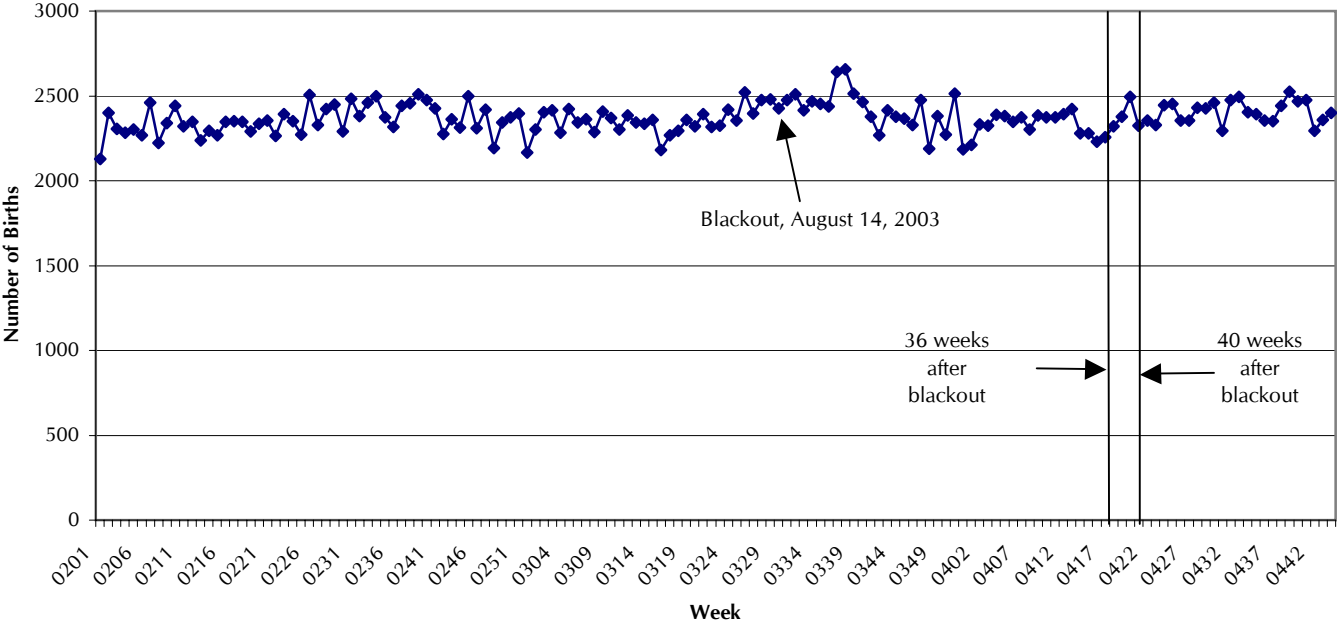
Menaker, Walter. Evidence for a drop in conceptions in the Big Blackout, *American Journal of Obstetrics and Gynecology* 107 (5), 1970: 804-806.

Udry, J. Richard. The Effect of the Great Blackout of 1965 on births in New York City, *Demography* 7 (3), August 1970: 325-327.

**Table B. Selected Data for Deaths Caused by Blackout, 2003**

	Sex		All
	Male	Female	
Borough of Residence			
Bronx	-	1	1
Brooklyn	1	-	1
Queens	2	2	4
Age of Decedents			
25-34	1	-	1
35-44	1	1	2
65-74	1	1	2
85 and over	-	1	1
Ethnicity			
Puerto Rican	1	-	1
White non-Hispanic	1	3	4
Other non-Hispanic	1	-	1
Cause of Death			
Diseases of heart	-	1	1
Exposure to excessive natural heat	1	-	1
Accidental poisoning by carbon monoxide	2	1	3
Other causes (respirator failure)	-	1	1
All Deaths	3	3	6

Figure B. Number of Births by Week, New York City, January 2002 - October 2004

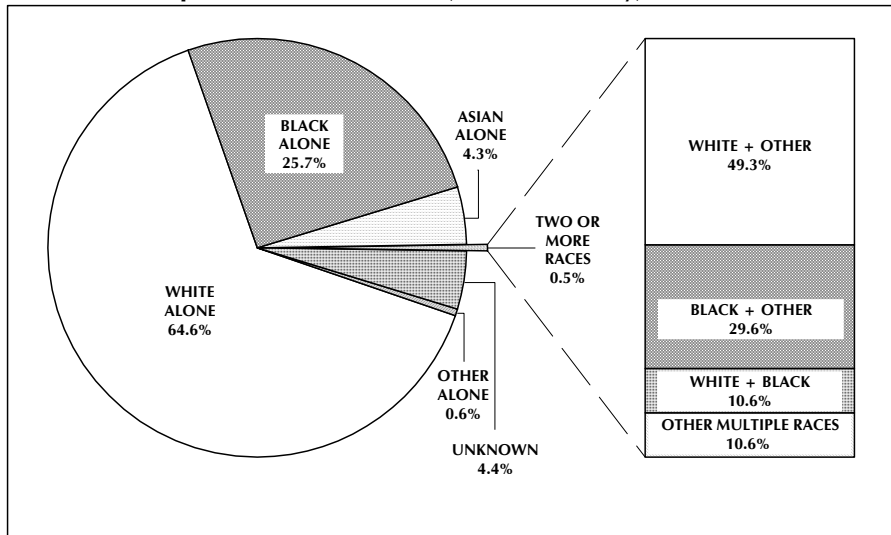


Note: 2004 numbers are preliminary.

## Special Note on Multiple-Race

The Death Certificate form of the New York City Department of Health and Mental Hygiene was revised effective January 1, 2003. One of the changes was in the collection of decedent's race, which is generally provided by the funeral director in consultation with the family. The number of categories was expanded and multiple races may be indicated. This change is consistent with the new U.S. Standard Certificate of Death, a model developed by the states and the National Center for Health Statistics. Instructions on the form indicate that the funeral director should "Check one or more [boxes] to indicate what the decedent considered himself or herself to be." Fifteen fields are used to record races of a decedent. See the following chart for a breakdown of Race and Multiple Races of Decedents in New York City for 2003.

### Race and Multiple Races of Decedents, New York City, 2003



The way race data is collected on the death certificate form has changed. Care should be taken when comparing 2003 data with that from previous years. The table below shows the impact of the change on Ethnicity.

### Ethnicity of Decedents by Sex and % Change, New York City, 2002 to 2003

ETHNICITY	MALE					FEMALE					ALL				
	#	%	#	%	%	#	%	#	%	%	#	%	#	%	%
Hispanic	4,398	15.3	4,684	16.4	7.0	3,849	12.5	4,118	13.5	8.0	8,247	13.8	8,802	14.9	7.5
Asian and Pacific Islander	1,364	4.7	1,442	5.0	6.2	1,063	3.4	1,120	3.7	6.4	2,427	4.1	2,562	4.3	6.3
White Non-Hispanic	15,239	53.0	14,269	49.9	-5.9	17,601	57.0	16,436	53.7	-5.7	32,840	55.1	30,705	51.9	-5.8
Black Non-Hispanic	7,213	25.1	6,991	24.4	-2.6	8,038	26.0	7,837	25.6	-1.6	15,251	25.6	14,828	25.0	-2.1
Other Non-Hispanic	35	0.1	131	0.5	276.1	28	0.1	105	0.3	278.6	63	0.1	236	0.4	277.4
Non-Hispanic of Two or More Races	N/A	N/A	137	0.5		N/A	N/A	112	0.4		N/A	N/A	249	0.4	
Unknown	499	1.7	952	3.3	91.7	324	1.0	879	2.9	173.9	823	1.4	1831	3.1	124.1
Total	28,748		28,606			30,903		30,607			59,651		59,213		

The above table illustrates an increase in Hispanic and Asian and Pacific Islander ethnicities, while White and Black ethnicities have declined. There is also a large increase in the number of Unknown ethnicities, perhaps caused by reporting problems with the new death certificate form.

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

- The number of marriages shown in Table 1 and in Table 49 is the number of marriage licenses issued by the City Clerk. Tables 22, 23, and 24 also use outside data sources; see Life Expectancy below.

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

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

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

In Table 1, the population figures for census years 1960, 1970, 1980, 1990, and 2000 are

census counts; for intercensal counts through 1989, straight-line interpolations are used, while the interpolation from 1990 to 2000 uses an exponential formula which assumes that the growth rate was the same through the decade:  $\text{pop}(t1)/\text{pop}(t0) = e^{rt}$  (where  $r$  is a constant growth rate and  $t$  is the interval).

### **LIFE EXPECTANCY, AGE SPECIFIC AND ADJUSTED DEATH RATES**

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

- 1990 Census MARS (modified for age, race, and sex) population and 1989-1991 mortality data were used to calculate 1990 life expectancy, average yearly age-sex-specific death rates for the three years (Table 23), and cause-specific average yearly age-sex-race adjusted death rates (Table 24). 2000 census population data and 1999-2001 mortality data were used to prepare these tables. Adjustment allows comparisons between rates to be made over time or between geographic areas by eliminating the effects of differences in the composition of the populations. For 1999-2001, cause-specific rates are adjusted only for age to avoid losing too much information from crude death rates. A new 2000 US standard population is used to calculate cause-specific age-adjusted death rates while for earlier years the 1940 standard US population was used. Since the Census Bureau has not produced MR (modified for race) 2000 data by single year of age, there is no change for life expectancy calculation and age-adjusted death rates.

- A change in the data used for the 1980 and 1990 calculations is noted in Tables 23 and 24 by a line separating these rates from those for earlier years. The calculations for 1980 and 1990 used information on all deaths occurring to New York City residents regardless of place of occurrence (obtained from the New York State Department of Health), whereas previous computations used all deaths occurring in New York City regardless of residence of the decedent. The data were also used to compute 1980 life expectancy tables to facilitate comparisons with 1990 figures. For 2000,

mortality data also include all New York City residents regardless of place of occurrence. Mortality data were obtained from NCHS, which may include more non-New York City occurrences than previous years when the data were obtained from New York State. Another line is drawn in Table 24 to show these differences, data source and standard population, between the 1999-2001 period and earlier years.

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

- Historical data on Hispanic ancestry and estimates of life expectancy should be used with caution. Before 1993, ancestry of decedents, which may indicate decedents' Hispanic ethnicity, was obtained from the medical certifier. Under-reporting of all ancestries, including Hispanic, was therefore possible. To overcome this problem, death certificates were revised in June 1993 to require funeral directors to provide the ancestry information, presumably from decedents' family members. Hispanic life expectancy may be overestimated because of the age distribution of Hispanics and because of immigration patterns. The age distribution of Hispanics is different from non-Hispanic whites and non-Hispanic blacks, with fewer Hispanics in the older age groups than other ethnic groups. This would cause an underestimate of Hispanic death rates and hence overestimate Hispanic life expectancy. An overestimate of Hispanic life expectancy would also occur if Hispanics moved out of the United States to die at a greater rate than other ethnic groups.

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

$$\text{YPLL} = 3[(\text{cutoff age} - i)] \times d_i$$

where  $i$  is the midpoint of the grouped year of age at death and  $d_i$  is the number of deaths at age  $i$ . YPLL can be calculated for specified causes of death.

**RACE, ANCESTRY, ETHNIC GROUP, AND BIRTHPLACE - Race in the 2000 Census** - The 2000 census permitted respondents to describe themselves and household members as being of more than

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

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

- In 1992, five additional codes for Asian and Pacific Islander races were added, following their introduction by NCHS: Asian Indian, Guamanian, Korean, Samoan and Vietnamese. Codes already in use included Chinese, Filipino, Hawaiian, Japanese and other.

- The ordered selection rules for ethnic group first assign Puerto Rican or other Hispanic ethnicities based on ancestry, regardless of race. Then, those of other ancestries are classified by race as Asian, non-Hispanic white, non-Hispanic black, other or unknown.

- In certain instances, the item birthplace is used to remove ambiguity in the race item.

- Persons whose race is black and whose ancestry is American are classified as being of African-American ancestry.

- Ancestry is defined by NCHS as the nationality, lineage, or country where the subject's ancestors were born before their arrival in the United States; if a religious group is reported, NCHS instructions are to ask for the country of origin or nationality. In New York City, enough certificates with ancestry reported as Jewish or Hebrew are received to warrant inclusion in these tables,

notwithstanding the religious meaning of the terms. An increase in 1999 of about 2,000 in the number of mothers reporting Hebrew or Jewish ancestry resulted from quality assurance discussions with several hospitals that included clarification of the meaning of ancestry. These hospitals replaced the general term American with individual information provided by the patients.

- As the city's immigrant population has increased in recent years, so has interest in birthplace as a demographic variable. Tables on birthplace of decedents and of mothers were added in 2000.

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

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

Deaths from cause "i" under ICD-10

Deaths from cause "i" under ICD-9

Therefore, comparability ratios measure the net effect of ICD-10 by cause of death. Using more than 2.3 million 1996 U.S. mortality records, comparability ratios were calculated and presented for selected causes of death by NCHS. Due to complications of coding and calculation, the whole procedure was split into two phases: preliminary and final. The preliminary comparability ratios were based on about 1.8 million death records and used in this Summary of Vital Statistics from 1999 to 2002. Recently, NCHS finalized the comparability ratio study. Consequently, comparability ratios are updated in Table 4, Table 25, and Table 44 of this publication. A detailed description of comparability ratio (ICD-9 to ICD-10) can be found on the NCHS website at the following link:

[http://www.cdc.gov/nchs/data/nvsr/nvsr49/nvsr49\\_02.pdf](http://www.cdc.gov/nchs/data/nvsr/nvsr49/nvsr49_02.pdf).

**HIV and AIDS Mortality** - In ICD-10, deaths due to HIV disease are not divided into AIDS

deaths and deaths due to other HIV infections, but are characterized by the resulting disease or condition. HIV deaths (ICD-10 codes B20-B24) are shown in Tables 4, 5, 6, 7, 8, 20, and 21, and Figure 6.

- From 1983 through 1986, AIDS and other HIV deaths were assigned code 279.1. In 1987, NCHS introduced code 042 for AIDS and 043-044 for other HIV deaths, and they were reported this way in Table 3 through 1998. Table 25 contains only AIDS deaths.

- A fuller discussion of the history of HIV coding can be found in the 1997 and 1998 Vital Statistics Summaries.

- The incidence data in Table 48 are provided by the New York City HIV Epidemiology Program. Their active surveillance system identifies persons diagnosed with AIDS, a reportable disease in New York State.

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

- Revised procedures at the Office of Chief Medical Examiner in 1989 led to a substantial portion of deaths related to drug use being classified as accidental drug poisonings. In prior years, virtually all such deaths were classified as due to drug dependence. New categories were added to various tables to maintain comparability with previously published vital statistics and are continued today. The poisoning codes are added to the natural cause codes in Tables 4, 5, 6, 7, 8, 21 and 25.

- A category of deaths due to accidents without the drug poisoning deaths is used for ranking leading causes and appears in Tables 5 and 6.

A fuller discussion of the history of drug death coding appears in the Vital Statistics Summaries of 1989 through 1998.

**Maternal Death and Maternal Mortality** - In ICD-10, the chapter Pregnancy, childbirth and

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the puerperium (codes O00-O99) includes codes for deaths occurring more than 42 days after the termination of the pregnancy, which did not exist in ICD-9. However, the definition of "maternal mortality" by the World Health Organization does not include these later deaths: included are deaths of a woman while pregnant or within 42 days of termination of pregnancy ... from any cause related to or aggravated by the pregnancy or its management ..." This includes ICD-10 codes O00-O95, O98-O99 and A34, obstetrical tetanus. Note also that the denominator of the maternal mortality rate is live births. Since the 2000 Vital Statistics Summary, new lines have been inserted in Table 4 and Table 25 to clarify the difference. In Table 4, Deaths by Cause, all deaths due to pregnancy, childbirth and the puerperium are shown (and are rankable) followed by the smaller group of "maternal" deaths. In Table 25, Deaths and Crude Death Rates ...1901-2002, the historical data are correctly relabeled "maternal causes" and a new category, pregnancy, childbirth and the puerperium, is shown beginning in 1999, with ICD-10. In Table 46, Live Births, ... 1986-2002, the difference between the two categories is noted in a footnote, and an error in the 1999 data is corrected. In Table 5, Leading Causes by age, the larger, rankable, cause group appears for age 25-34 in this 2002 Summary.

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

- Some homicides are considered justifiable and are reported as such by the New York City Police Department under the Uniform Crime Reporting System of the Federal Bureau of Investigation.

- Legal intervention as a cause of death is defined in ICD-10 as including injuries inflicted by police or other law-enforcing agents ... in the course of arresting or attempting to arrest ... and other legal action. In ICD-9, legal intervention was included in homicides. The number of deaths from legal intervention was kept in homicide counts for Table 7, Table 8, and Table 21 through 2002.

- Complications of medical and surgical care was included with accidents in ICD-9 and is now shown separately.

- All death certificates for external causes are

reported by the Office of Chief Medical Examiner. Deaths for which a cause has not been determined by the time the statistical file is closed are shown separately as pending final determination in Table 4; some of these pending deaths will be determined to be due to natural causes. The number has declined since 1989.

- The number of deaths classified as events of undetermined intent has declined since 1989, but they should be considered in analysis of deaths due to external causes.

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

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

**Fatal Occupational Injuries** - The Census of Fatal Occupational Injuries, which provides the data in Table 11, Figures 2, and Figure 3, is carried out according to a protocol developed by the Bureau of Labor Statistics (BLS) of the U.S. Department of Labor. Autopsy and other reports for deaths due to external causes (see above) are reviewed if the injury occurred at work. Definitions and terminology are those of BLS, which may differ from those generally used in vital statistics. In 2000, a new race/ethnicity variable was introduced. Beginning in 2003, coding for industries was changed from Standard Industrial Classification (SIC) to the North American Industry Classification System (NAICS). Because of the substantial differences between SIC and NAICS, the comparisons by industry with previous years are not encouraged.

**Infant Mortality** - The infant mortality rate consists of the number of infant deaths in New York City in a specified year divided by the number of live births in the city in the same year; some infants in the numerator were born

in the preceding year, and some in the denominator will die in the following year. The same definition applies to geographic subdivisions included in some tables.

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

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

**AGE OF DECEDENT** - For ages greater than one year, decedent's age is based on age at last birthday. For infants, actual age is used in minutes, hours, days or months. In previous editions of the Summary, if age were unknown it was coded to 65. Beginning with the 2001 Summary, unknown ages are not recoded. There were 16 decedents of unknown age, as shown in Table 3.

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

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

**MOTHER'S MARITAL STATUS** - New York City is prohibited by local law from recording mother's marital status on the record or report of birth. For purposes of statistical analysis and reporting, it was computed from other information on the birth certificate by coders using an algorithm developed by NCHS, and more recently an algorithm adapted to EBC. In 1996, a review of the results led to the conclusion that the number of non-marital births was being overestimated. A new method was implemented by an EBC change in 1997.

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

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

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

### INDUCED TERMINATIONS OF PREGNANCY -

Induced Terminations of Pregnancy generally require active surveillance and follow-up to insure complete reporting. As a result, some events from earlier years are included in each year's Vital Statistics Summary. In 1997, one facility was found to have failed to submit reports for over 11,000 1996 procedures. These reports, and about 500 from several other facilities, were reported in revised tables for 1996 pregnancy outcomes in the 1997 Vital

Statistics Summary. A discussion of the revised tables and the corrected data for all pregnancy outcomes can be found in the Technical Notes, 1997.

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

●There are 59 community districts, referred to by their borough and sequence number, compared to 30 health center districts, which have neighborhood names. Beginning with the 2003 Summary community district names are provided. The number of districts in each system by borough is shown below.

<u>Borough</u>	<u>HCD</u>	<u>CD</u>
Manhattan	7	12
Bronx	6	12
Brooklyn	10	18
Queens	6	14
Staten Island	1	3

There is no translation from one system to the other.

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

●The numbers of births and deaths to Manhattan and Bronx residents differ between

health center district tables and community district tables because the northernmost Manhattan neighborhood of Marble Hill is in Manhattan under the health center district organization and in the Bronx under the community district system. The population-based rates may change as well. For example, in 2002, 39 deaths were reassigned from Manhattan to the Bronx, as seen in Table 7 and Table 8: the Manhattan death rate for all causes changed from 7.0 per 1,000 population to 6.9, while the rate for the Bronx changed from 7.0 to 7.1 with the addition of the 39 deaths. Rates for the selected causes may change as well. For 2002 births, 118 events were reassigned, as shown in Table 34 and Table 36: the Manhattan birth rate did not change, while the Bronx rate increased from 15.9 to 16.0 per 1,000 population. Eleven births to teenagers were reassigned from Manhattan to the Bronx, seen in Tables 39 and 41: in Manhattan the percent of live births to teens decreased from 6.6 to 6.5, while in Bronx, the percent of live births to teens remained same, at 12.2.

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

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



Figure 18. Health Center Districts and Boroughs, New York City



Figure 19. Community Districts and Boroughs, New York City



## HIGHLIGHTS, 2003

**Births and Infant Deaths** - The number of live births registered in 2003 increased 1.1% to 124,345 from 122,937 in 2002. The number of births to teenagers continues to decline in total number, to 8,831, and as a percentage of all live births, to 7.1% (Table 39 - Table 41). This is the ninth year of consecutive decline and it mirrors national trends.

The infant mortality rate increased from 6.0 infant deaths (under one year of age) per 1,000 live births in 2002, an historical low, to 6.5 in 2003. A few Health Center Districts experienced large increases in infant mortality rate, such as Lower East Side, Mott Haven, and Corona.

**Deaths** - The number of deaths in New York City was 59,213 in 2003, another historical low. The death rate for the City stayed at 7.4 per 1,000 population, the same as last year. Mean age at death dropped 0.1 year, from 71.0 to 70.9.

The top three leading causes of death remained the same in 2003, in order: diseases of heart, malignant neoplasms, and influenza and pneumonia. The number of HIV deaths decreased again, from 1,713 in 2002 to 1,656 in 2003 and its rank dropped by 2, from 5th to 7th in top ten leading causes of death. Diabetes mellitus deaths became the 4th leading cause of death in 2003, up from 6th in 2002, and its number increased by 11%. Alzheimer's disease became the tenth leading cause of death in the 75-84, and 85 or over age groups for the first time. Deaths from assault (Homicide) in the 15-24 age group increased from 181 in 2002 to 230 in 2003 and remained a top leading cause of death in the 15-24 and 25-34 age groups.

The top three leading causes of death for age under 65 are malignant neoplasms, diseases of heart, and HIV disease, the same as in 2002.

**Multiple Race** - Beginning in 2003, more than one race could be reported with the implementation of a new death certificate form in New York City. A Special Note is included to summarize the impact of this change on race and ethnicity reporting for the decedents.

**Fetal-Infant Mortality** - Special Section A introduced

"Perinatal Periods of Risk", a new approach to measuring fetal-infant mortality. By that measure, the fetal-infant mortality rate per 1,000 live births and fetal deaths decreased slightly from 7.9 in 2002 to 7.8 in 2003, in contrast to the increase of infant mortality rate from 6.0 per 1,000 live births in 2002 to 6.5 in 2003.

**Induced Terminations of Pregnancy** - Reported induced terminations of pregnancy in 2003 were 90,820, about one thousand less than they were in 2002. However, the number of induced terminations reported to the Department of Health and Mental Hygiene depends to some extent on active surveillance. Any interpretations should be made with caution. The number of induced terminations of pregnancy by non-surgical procedures increased from 4,519 in 2002 to 6,108 in 2003, accounting for 6.7% of all procedure types reported. Accordingly, induced terminations of pregnancy by surgical procedures declined.

**Blackout** - The power disruption on August 14, 2003, caused blackouts from New York to Toronto to Detroit. Six deaths due to this power failure have been identified from death certificates in New York City. Special Section B presents some demographic information about those six decedents. It also includes a graph that shows no abnormal change in the number of births nine months later.

**New and Expanded Tables and Figures** - The following new tables and figures were added or expanded in the 2003 Summary of Vital Statistics:

- Table 3. Expanded to include age specific death rates and age adjusted death rates;
- Figure 2. Fatal occupational injuries by sex, 1996-2003;
- Figure 3. Fatal occupational injuries by selected industries, 2003;
- Table 21. Expanded to include counts and additional causes;
- Table 22a. Years of potential life lost (YPLL) before age 75 by sex and by selected causes of death, 2003;
- Figure 6. Years of potential life lost (YPLL) before age 75 by sex, 2003.



DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Bureau of Vital Statistics

Michael R. Bloomberg, Mayor  
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<http://www.nyc.gov/health>

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