

2003 Louisiana Vital Statistics Report



***Louisiana Department of Health and Hospitals
Office of Public Health
State Center for Health Statistics***

2003 LOUISIANA VITAL STATISTICS REPORT

Louisiana Department of Health and Hospitals
Office of Public Health

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INTRODUCTION

The mission of the State Center for Health Statistics (CHS) within the Louisiana Department of Health & Hospitals, Office of Public Health is to collect and distribute accurate, comprehensible information vital to informed decision making on matters concerning individual and community health. The goal of the *2003 Louisiana Vital Statistics Report* is to present and explain the health surveillance data collected on the state's vital event certificates. CHS welcomes your feedback on the usefulness and clarity of this report.

The *2003 Louisiana Vital Statistics Report* describes health status data collected on Louisiana's vital event certificates of Live Birth, Spontaneous Fetal Death (stillbirth), Induced Termination of Pregnancy (induced abortion), Death, Marriage, and Divorce. Data collected on these certificates are used to describe trends and current status in infant and maternal health and in the causes of death most prevalent in race, sex, and age groups. This basic surveillance of vital events is essential in identifying individual and community health concerns and in targeting and evaluating health education and service efforts.

This year's report contains eight chapters that describe vital event data and one chapter that presents supplemental information. The eight data chapters are "Summary of Vital Events", "Population", "Live Births", "Spontaneous Fetal Deaths", "Induced Terminations of Pregnancy", "Deaths", "Infant Mortality and Maternal Mortality", and "Marriage and Divorce". Each of these chapters contains text, tables, and charts describing state-level data.

The eight data chapters are followed by an ancillary chapter entitled "Technical Notes", which identifies data sources, describes data processing methods and assumptions, and provides a glossary of technical terms. A final section presents samples of various Certificates on which vital events are recorded for the State of Louisiana.

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OLDEST, YOUNGEST, ETC... IN 2003

Oldest Bride: 92 years	Youngest Bride: 12 years
Oldest Groom: 98 years	Youngest Groom: 15 years
Oldest Mother: 64 years	Highest Birth Order: 21
Oldest Father: 76 years	Largest Live Birth: 7110 grams
Oldest Female Decedent: 113 years	
Oldest Male Decedent: 110 years	

EACH DAY IN LOUISIANA IN 2003* THERE WERE ON AVERAGE:

<u>177 Live Births</u>	<u>116 Deaths</u>	1 Fetal Death
26 to teens aged 15 -19	31 from heart disease	2 Infant Deaths
84 to unmarried mothers	26 from cancer	29 Induced Terminations of Pregnancy
19 low weight births	7 from cerebrovascular disease	102 Marriages
54 cesarean sections	6 from unintentional injuries	
	5 from diabetes mellitus	
	3 from motor vehicle injuries	
	2 from homicide	

* Note that numbers are approximate averages, derived by dividing total numbers of each event by 365 (days in a standard year). Since all results are rounded down to the closest whole number, calculation of total events from these numbers may underestimate the true total.

LOUISIANA AND THE UNITED STATES IN 2003

Vital Event	Louisiana	U.S.*
Live Births		
Birth Rate per 1,000 population	14.4	14.1
Teen Birth Rate per 1,000 women aged 15 through 19	55.6	41.6
Percent of total births to Unmarried Women	47.5 %	34.6 %
Percent of total births with 1 st Trimester Entry into Prenatal Care	84.1 %	84.1 %
Percent of total births that were Low Weight (<2500 grams or 5lbs. 8oz.)	10.7 %	7.9 %
Percent of total births delivered by Cesarean method	31.7 %	27.5 %
Fetal Deaths		
Fetal Mortality Rate (20+ weeks gestation)	7.1	6.2
Deaths		
Age-Adjusted Death Rate per 100,000 (2000 Standard Population) for:		
Diseases of the Heart	271.8	232.3
Malignant Neoplasms	220.2	190.1
Cerebrovascular Diseases	59.9	54.2
Accidents	48.3	37.3
Diabetes Mellitus	40.6	25.6
Chronic Lower Respiratory Diseases	40.6	43.3
Alzheimer's Disease	28.9	21.4
Nephritis, Nephrotic Syndrome, and Nephrosis	25.0	14.4
Influenza and Pneumonia	22.0	22.0
Septicemia	19.2	11.6
Infant Mortality		
Infant Mortality Rate per 1,000 live births	9.3	6.8
Maternal Mortality		
Maternal Mortality Rate per 100,000 live births	18.6	12.1
Marriages		
Marriage Rate per 1,000 population	8.3	7.7
Divorces		
Divorce Rate per 1,000 population	3.4	3.8**
* U.S. Live Birth Data: National Center for Health Statistics, National Vital Statistics Report 54:2 (Sep. 2005).		
** U.S. Live Birth Data: National Center for Health Statistics, National Vital Statistics Report 54:20 (July. 2006).		

SUMMARY OF VITAL EVENTS IN 2003**POPULATION**

State population¹: 4,496,334

Louisiana has the 24th largest population among the fifty states.²

Percent of population in race group: 64.7% white, 33.2% black, 2.2% other race.

The national breakdown by race is 81.3% white, 13.1% black, and 5.6% other race.³

LIVE BIRTH

Number of births: 64,689

In 2003 the total number of births was 64,689 and 64,755 in 2002.

Birth Rate: 14.4 live births per 1,000 population

This is the lowest state birth rate in more than half a century.

Fertility Rate: 65.8 live births per 1,000 women aged 15-44 years

Following a high fertility rate of 80.7 in 1982, Louisiana's fertility rate declined steadily to 64.9 in 1996. Since 1996 the state's fertility rate has remained relatively stable around 66.1.

Number of births to teens aged 15-19 years: 9,452

In Louisiana, 14.6 % of the total live births were from mothers 15-19 years old.

Birth Rate in teens aged 15-19 years: 55.6 live births per 1,000 women aged 15-19

In Louisiana, the teen birth rate went slightly down compared to 57.8 in 2002.

Percent of births to unmarried mothers: 47.5% of total live births

This is a slight increase from the 2002 figure of 47.0%.

Percent of live births receiving prenatal care in the first trimester: 84.1% of total live births

The percent of live births receiving prenatal care in the first trimester has increased steadily during the 1990s.

Percent of live births less than 2500 grams: 10.7% of total live births

In recent years, Louisiana has seen a steady rise in the percentage of low birth weight babies, from 9.4% of total births in 1992.

Percent of live births delivered by cesarean section: 31.7% of total live births

Of all live births in Louisiana in 2003, 31.7% were primary or repeat cesarean deliveries.

SPONTANEOUS FETAL DEATH
 (State criteria: 20+ weeks gestation or 350+ grams weight)

Number of fetal deaths: 514

In comparison, there were 512 fetal deaths in Louisiana in 2002.

Fetal Mortality Rate³: 7.9 in 2003.

REPORTED INDUCED TERMINATION OF PREGNANCY

Number of reported induced terminations performed in Louisiana: 10,642

This is an increase of 191, from the 10,451 terminations reported in the state in 2002.

DEATH

Number of deaths: 42,297

In 2003 the total number of deaths was 42,297 and in 2002 the death count was 41,797.

Crude Death Rate: 940.7 deaths per 100,000 population

In 2003, the crude death rate was 940.7 deaths per 100,000 population.

Ten Leading Causes of Death - Crude and Age-Adjusted Death Rates

In Louisiana the ten leading causes of death and their associated rates are:

Cause of Death	Crude Rate Per 100,000 Population	Age-Adjusted Rate* per 100,000
Diseases of the Heart	271.8	271.8
Malignant Neoplasms	220.2	220.2
Cerebrovascular Disease	59.9	59.9
Accidents	48.3	48.3
Diabetes Mellitus	40.6	40.6
Chronic Lower Respiratory Diseases	40.6	40.6
Alzheimer's Disease	28.9	28.9
Nephritis, Nephrotic Syndrome, and Nephrosis	25.0	25.0
Influenza and Pneumonia	22.0	22.0
Septicemia	19.2	19.2

* The age-adjusted rate is based upon the 2000 Standard Population.

INFANT MORTALITY**Number of infant deaths: 604**

In 2003 there were 604 infant deaths and 661 in 2002.

Infant Mortality Rate: 9.3 infant deaths per 1,000 live births

In 2003 infant mortality rate was 9.3 and the rate for 2002 was 9.8.

MATERNAL MORTALITY**Number of Maternal Deaths: 12**

In Louisiana, the number of maternal deaths was 12 in 2003.

MARRIAGE AND DIVORCE**Number of Marriages: 37,288**

This is an increase of 743 marriages from the 36,545 marriages that occurred in 2002.

Number of Covenant Marriages: 408

This choice became available to Louisiana residents in August 1997.

Number of Divorces: 15,230

Divorce reports were submitted by all 64 Louisiana parishes in 2003.

¹ United States Census Bureau. "U.S. Bureau of the Census" <http://www.census.gov>

² Bridged-Race Postcensal Population Estimates 2003, U.S. Bureau of the Census.

³ Ibid.



INTRODUCTION

Use of Population Data in Vital Event Surveillance

Simple counts of information collected on vital certificates or forms are helpful in planning provisions for health services since they document the number of people who experience health events in a particular geographic area.

When questions concerning comparisons between population groups arise, however, simple counts are often misleading because they do not account for differences in the composition of the groups. For example, more people die in towns where the majority of the inhabitants are elderly than in towns with a majority of young adults, simply because older people die more often than younger people do. Solely relying on counts as a measure of the magnitude of the vital event would deceptively imply that the town with a greater majority of elderly people has an abnormally high occurrence of death. Statisticians calculate rates in order to address these and other concerns related to the comparison of groups within a population. Rates provide a way to relate the number of events that occurred to the population in which they occurred. They are calculated by dividing the number of events by the number of people in the group, then multiplying the quotient by an appropriate enlarging factor (typically 1,000 or 100,000) to provide an understandable integer. As is often the case, when the number of individuals in a group where the event occurred is not known, census population data are used to estimate the number.

Louisiana population figures provide a frame of reference for examining the vital events that occur within the resident population within a particular year. State population figures are used to calculate the overall rates at which births and deaths occur throughout the state.

Source of Data: 2003 estimate from United States Bureau of Census

For the years that fall between the ten-year census counts, intercensal population estimates are calculated by the United States Census Bureau. These estimates of yearly populations are based on determinations of the number of births, deaths, and migrations into and out of the state on an annual basis.

Detailed intercensal estimates for 2003 were calculated based on data provided by the U.S. Bureau of the Census in their Bridged-Race Postcensal Population Estimates 2003. Data from the same source were used in the calculation of rates in this report.

Population Estimates

The 2003 US Census estimate placed the number of Louisiana residents at 4,496,334. Historical estimates of the total Louisiana population are shown in Table 1.1.

Estimates grouped by sex, race, and age describe the population's composition and are used to calculate rates for comparison of vital events among population subgroups (Table 1.2). The approximately equivalent 2003 estimates were used for calculation.

Table 1.1: Population, Louisiana, 1945-2003

Year	Population	Year	Population	Year	Population
1945	2,429,000	1965	3,496,000	1985	4,408,118
1946	2,556,000	1966	3,550,000	1986	4,406,919
1947	2,579,000	1967	3,581,000	1987	4,344,148
1948	2,596,000	1968	3,603,000	1988	4,288,863
1949	2,634,000	1969	3,619,000	1989	4,252,894
1950	2,697,000	1970	3,644,637	1990	4,219,179
1951	2,769,000	1971	3,710,487	1991	4,240,150
1952	2,842,000	1972	3,761,646	1992	4,270,849
1953	2,866,000	1973	3,788,375	1993	4,284,749
1954	2,883,000	1974	3,820,109	1994	4,306,500
1955	2,946,000	1975	3,886,104	1995	4,327,978
1956	3,032,000	1976	3,950,605	1996	4,338,763
1957	3,115,000	1977	4,014,459	1997	4,351,390
1958	3,155,000	1978	4,068,579	1998	4,362,758
1959	3,208,000	1979	4,137,665	1999	4,372,035
1960	3,260,000	1980	4,205,900	2000	4,468,976
1961	3,287,000	1981	4,283,303	2001	4,470,368
1962	3,345,000	1982	4,352,608	2002	4,482,646
1963	3,377,000	1983	4,395,316	2003	4,496,334
1964	3,446,000	1984	4,400,477		

Source: U.S. Bureau of the Census

Table 1.2: Population by Gender, Race, and Age Groups 0-49, Louisiana, 2003

Gender	Race	Age Group (years)									
		0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49
Male	White	92,684	91,036	98,445	102,556	108,800	93,589	96,504	101,494	114,343	113,477
	Black	69,584	64,392	70,227	70,751	65,540	48,997	43,610	45,310	48,182	46,279
	Other	3,357	3,559	3,863	3,936	4,735	4,823	4,211	4,088	3,715	3,359
	Total	165,625	158,987	172,535	177,243	179,075	147,409	144,325	150,892	166,240	163,115
Female	White	88,763	86,777	93,001	96,969	105,976	90,468	95,027	100,650	115,212	112,650
	Black	66,851	62,805	67,538	69,390	68,394	55,751	50,203	53,766	57,331	54,793
	Other	3,189	3,426	3,630	3,598	4,399	4,292	4,173	3,842	3,816	3,562
	Total	158,803	153,008	164,169	169,957	178,769	150,511	149,403	158,258	176,359	171,005

Source: Bridged-Race Postcensal Population Estimates 2003, U.S. Bureau of the Census
 Calculated based on data provided by the U.S. Bureau of the Census

Table 1.2: Population by Gender, Race, and Age Groups 50-85+, Louisiana, 2003

Gender	Race	Age Group (years)									Total
		50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+		
Male	White	100,055	85,217	65,578	51,281	43,429	34,952	21,460	13,614	1,428,514	
	Black	38,736	27,571	19,696	15,500	11,869	8,740	5,579	4,317	704,880	
	Other	2,787	2,202	1,534	1,067	759	475	253	215	48,938	
	Total	141,578	114,990	86,808	67,848	56,057	44,167	27,292	18,146	2,182,332	
Female	White	101,360	87,969	70,889	58,072	55,123	48,851	37,426	33,464	1,478,647	
	Black	46,247	33,677	25,743	21,420	17,943	14,732	10,381	10,077	787,042	
	Other	3,129	2,340	1,568	1,143	941	586	345	334	48,313	
	Total	150,736	123,986	98,200	80,635	74,007	64,169	48,152	43,875	2,314,002	

Source: Bridged-Race Postcensal Population Estimates 2003, U.S. Bureau of the Census
 Calculated based on data provided by the U.S. Bureau of the Census

Subgroup estimates, expressed as a percentage of the total population, indicate that population compositions for Louisiana and the United States are very similar in the distribution of sex and age (Table 1.3). For both the state and the nation, the largest age group is 20-44 years, and the smallest age group is 85 years and above.

**Table 1.3: Percent* of Total Population by Gender and Age Group
Louisiana and United States, 2003**

	Gender	Age Group (years)						All Ages
		<5	5-19	20-44	45-64	65-84	85+	
LA	Male	3.7	11.3	17.5	11.3	4.3	0.4	48.5
	Female	3.5	10.8	18.1	12.1	5.9	1.0	51.5
	Both	7.2	22.1	35.6	23.4	10.3	1.4	100.0
US	Male	3.5	10.8	18.2	11.5	4.6	0.5	49.2
	Female	3.3	10.3	17.9	12.1	6.1	1.1	50.8
	Both	6.8	21.1	36.1	23.6	10.7	1.6	100.0

Source: Bridged-Race Postcensal Population Estimates 2003, U.S. Bureau of the Census
Calculated based on data provided by the U.S. Bureau of the Census

*Note: may not add to 100.0 due to rounding

Louisiana's population composition is distinct from that of the United States with regard to race (Table 1.4). Both race and sex distributions become more disparate as age increases.

Within age groups under 45 years, the percentages of men and women are nearly equal. In age groups 45 years of age and over, women increasingly outnumber men. Among those who reach the 85+ age group, there are almost three times as many women as men (Table 1.5).

**Table 1.4: Percent of Total Population by Race and Gender
Louisiana and United States, 2003**

Location	Gender	Race			Total
		White	Black	Other	
Louisiana	Male	31.8	15.7	1.1	48.5
	Female	32.9	17.5	1.1	51.5
	Both	64.7	33.2	2.2	100.0
United States	Male	40.2	6.3	2.7	49.2
	Female	41.1	6.9	2.9	50.8
	Both	81.3	13.1	5.6	100.0

Source: Bridged-Race Postcensal Population Estimates 2003, U.S. Bureau of the Census
Calculated based on data provided by the U.S. Bureau of the Census

**Table 1.5: Percent Distribution by Race and Gender, Within Age Groups 0-49
Louisiana, 2003**

Gender	Race	Age Group (years)									
		0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49
Male	White	28.6	29.2	29.2	29.5	30.4	31.4	32.9	32.8	33.4	34.0
	Black	21.4	20.6	20.9	20.4	18.3	16.4	14.8	14.7	14.1	13.9
	Other	1.0	1.1	1.1	1.1	1.3	1.6	1.4	1.3	1.1	1.0
	Total	51.1	51.0	51.2	51.0	50.0	49.5	49.1	48.8	48.5	48.8
Female	White	27.4	27.8	27.6	27.9	29.6	30.4	32.4	32.6	33.6	33.7
	Black	20.6	20.1	20.1	20.0	19.1	18.7	17.1	17.4	16.7	16.4
	Other	1.0	1.1	1.1	1.0	1.2	1.4	1.4	1.2	1.1	1.1
	Total	48.9	49.0	48.8	49.0	50.0	50.5	50.9	51.2	51.5	51.2

Table 1.5: Percent Distribution by Race and Gender, Within Age Groups 50-85+ Louisiana, 2003

Gender	Race	Age Group (years)								Total
		50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+	
Male	White	34.2	35.7	35.4	34.5	33.4	32.3	28.4	22.0	31.8
	Black	13.3	11.5	10.6	10.4	9.1	8.1	7.4	7.0	15.7
	Other	1.0	0.9	0.8	0.7	0.6	0.4	0.3	0.3	1.1
	Total	48.4	48.1	46.9	45.7	43.1	40.8	36.2	29.3	48.5
Female	White	34.7	36.8	38.3	39.1	42.4	45.1	49.6	54.0	32.9
	Black	15.8	14.1	13.9	14.4	13.8	13.6	13.8	16.2	17.5
	Other	1.1	1.0	0.8	0.8	0.7	0.5	0.5	0.5	1.1
	Total	51.6	51.9	53.1	54.3	56.9	59.2	63.8	70.7	51.5

Source: Bridged-Race Postcensal Population Estimates 2003, U.S. Bureau of the Census
 Calculated based on data provided by the U.S. Bureau of the Census

2003 population estimates for each of Louisiana's 64 parishes (counties) show the distribution of the total population across the state. Parish-level populations are shown in table 1.6.

Table 1.6: Population Counts by Parish Louisiana, 2003

Parish	2003 Parish Estimate	Parish	2003 Parish Estimate
Acadia	59,165	Madison	13,091
Allen	25,334	Morehouse	30,520
Ascension	81,388	Natchitoches	39,328
Assumption	23,291	Orleans	469,271
Avoyelles	42,287	Ouachita	148,112
Beauregard	33,190	Plaquemines	28,049
Bienville	15,580	Pointe Coupee	22,114
Bossier	102,088	Rapides	127,184
Caddo	254,216	Red River	9,556
Calcasieu	184,693	Richland	20,151
Caldwell	10,715	Sabine	23,635
Cameron	9,717	St. Bernard	66,172
Catahoula	10,717	St. Charles	48,351
Claiborne	16,428	St. Helena	10,500
Concordia	19,995	St. James	21,139
DeSoto	25,490	St. John	44,053
East Baton Rouge	416,881	St. Landry	89,128
East Carroll	9,005	St. Martin	49,294
East Feliciana	20,940	St. Mary	52,403
Evangeline	35,180	St. Tammany	202,203
Franklin	20,848	Tangipahoa	102,078
Grant	18,905	Tensas	6,252
Iberia	73,842	Terrebonne	106,823
Iberville	32,842	Union	22,330
Jackson	15,591	Vermilion	54,274
Jefferson	456,779	Vernon	51,959
Jefferson Davis	30,826	Washington	43,634
Lafayette	194,408	Webster	41,441
Lafourche	91,034	West Baton Rouge	21,738
LaSalle	14,349	West Carroll	12,208
Lincoln	42,882	West Feliciana	15,177
Livingston	99,109	Winn	16,453

Source: Louisiana Technical University, Research Division, July 2003.



LIVE BIRTHS

INTRODUCTION

Live birth is a product of conception that shows any sign of life after delivery, irrespective of the duration of pregnancy. Signs of life include breathing, heartbeat, pulsation of the umbilical cord, definite movement of voluntary muscles, or any other evidence of life, whether or not the umbilical cord has been cut or the placenta is attached. The terms "live birth" and "birth" are used interchangeably in this chapter.

Birth certificates serve as legal records of birth and identification. They also provide surveillance data used to monitor fertility trends, population composition and growth, and patterns in prenatal and postnatal conditions that affect the immediate and future health of newborns and mothers. Information monitored through birth surveillance includes adequacy of prenatal care, obstetric procedures, complications during delivery, method of delivery, and infant birthweight. Examination of surveillance data helps identify mothers and infants at high risk of poor outcomes and enables effective targeting of research, educational efforts, and services to reduce this risk.

Source of Data: Certificate of Live Birth

The birth section of this report is based on live births that occurred to Louisiana residents during the 2003 calendar year. The *Certificate of Live Birth* is the source document for these data. All original birth certificates are routed to the Vital Records Registry in New Orleans. Birth attendants, usually physicians or licensed midwives are responsible for recording the required information on birth certificates. Louisiana law requires that the birthing facility or attendant send the original birth record to the Vital Records Registry within fifteen days of the birth and that the identities of persons included in the birth registry are kept confidential.

Unless otherwise noted, all statistics reported here are for births to Louisiana residents, regardless of the state in which the birth occurred. The Vital Statistics Cooperative Program, a nationwide system of information interchange among all states and territories, makes possible the reporting of out-of-state births to Louisiana residents. As a result of the 1991 implementation of Louisiana's Electronic Birth Certificate (EBC) program, approximately 85% of all births are reported electronically by the hospital at which the birth occurred. Matching of infant death certificates with the corresponding birth certificates estimates that birth registration in Louisiana is approximately 97% complete.⁽¹⁾

BIRTH COUNTS AND RATES

Number of Births

In the year 2003, there were 64,689 live births to Louisiana residents (Figure 2.1, Table 2.1).

Crude Birth Rate

Changes in crude birth rates reflect changes in the number and age distribution of women of childbearing age. Because crude birth rates relate the number of live births to the total population in an area, without regard to the age or sex distribution of the population, they are useful in projecting population changes in the area.

Louisiana's 2003 crude birth rate was 14.4 live births per 1,000 population. The national rate was 14.1(Figure 2.2, Table 2.1) ⁽²⁾.

Figure 2.1: Number of Births and Crude Birth Rates, Louisiana, 1958-2003

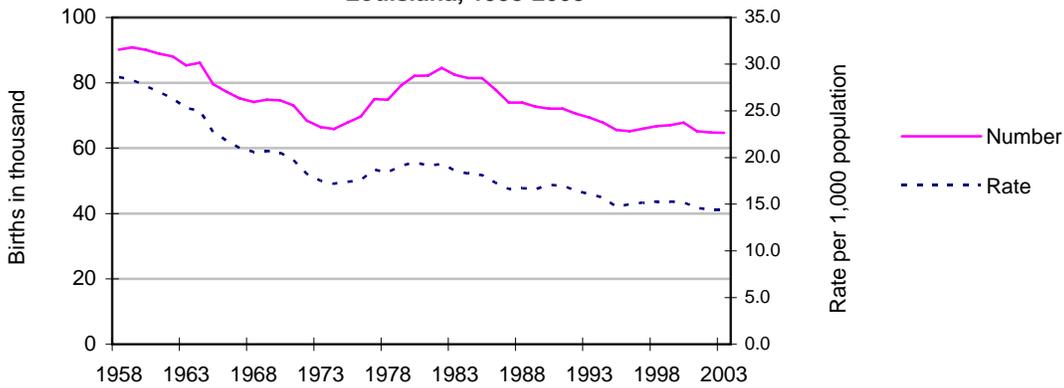
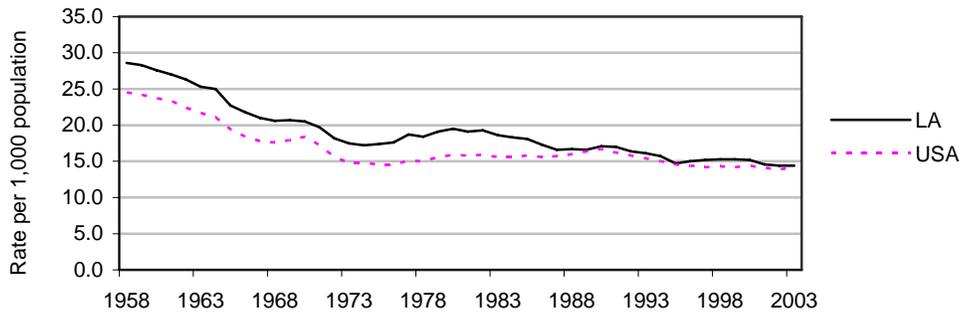


Figure 2.2: Crude Birth Rates, Louisiana and United States, 1958-2003



Source: Louisiana State Center for Health Statistics, National Center for Health Statistics.

Table 2.1: Number of Live Births, Crude Birth Rates, and Percent Changes, Louisiana and United States, 1984-2003

Year	Louisiana				United States			
	Number	% change from previous year	Rate ⁺	% change from previous year	Number	% change from previous year	Rate ⁺	% change from previous year
1984	81,428	-1.2	18.3	-1.6	3,669,141	0.8	15.6	0.0
1985	81,401	0.0	18.1	-1.1	3,760,561	0.8	15.8	1.3
1986	77,944	-4.2	17.3	-4.4	3,756,547	-0.1	15.6	-1.3
1987	73,952	-5.1	16.6	-4.0	3,809,394	1.4	15.7	0.6
1988	73,887	-0.1	16.7	0.6	3,909,510	2.6	16.0	1.9
1989	72,639	-1.7	16.6	-0.6	4,040,958	3.4	16.4	2.4
1990	72,121	-0.7	17.1	3.0	4,158,212	2.9	16.7	1.8
1991	72,080	-0.1	17.0	-0.6	4,110,907	-1.1	16.3	-2.5
1992	70,502	-2.2	16.4	-3.5	4,065,014	-1.1	15.9	-2.5
1993	69,328	-1.7	16.1	-1.8	4,000,240	-1.6	15.5	-2.6
1994	67,802	-2.2	15.7	-2.5	3,952,767	-1.2	15.2	-2.0
1995	65,574	-3.3	14.7	-6.4	3,899,589	-1.3	14.8	-2.7
1996	65,186	-0.6	15.0	2.0	3,891,494	-0.2	14.7	-0.7
1997	65,947	1.2	15.2	1.3	3,880,894	-0.3	14.5	-1.4
1998	66,773	1.3	15.3	0.7	3,941,553	1.6	14.6	0.7
1999	67,034	0.4	15.3	0.0	3,959,417	0.5	14.5	-0.7
2000	67,843	1.2	15.2	-0.7	4,058,814	2.5	14.4	-0.7
2001	65,193	-3.9	14.6	-3.9	4,025,933	-0.8	14.1	-2.1
2002	64,755	-0.7	14.4	-1.4	4,021,726	-0.1	13.9	-1.4
2003	64,689	-0.1	14.4	0.0	4,089,950	1.7	14.1	1.4

⁺Rate per 1,000 population.

Source: Louisiana State Center for Health Statistics, National Center for Health Statistics.

Fertility Rates

Fertility rates are based solely on women in their prime childbearing years, considered for calculation purposes to be 15-44 years of age. They are more useful than crude birth rates in controlling for differences in age-distribution among women who give birth and are useful for comparisons of fertility among age, racial, and socioeconomic groups. In the last half-century, Louisiana and the United States have followed a similar fertility pattern, with a trend toward declining fertility rates. In 2003, the Louisiana fertility rate was 65.8 and the United States rate was 66.1 births per 1,000 women aged 15-44 years. ⁽³⁾

**Table 2.2: Crude Birth Rates, Fertility Rates, and Age-Specific Birth Rates
Louisiana, 1984-2003**

Year	Crude Birth Rate [*]	Fertility Rate ¹	Age-Specific Birth Rate ² by Maternal Age Group								
			Less than 15 [*]	15-19	Less than 20	20-24	25-29	30-34	35-39	40-44	45-49 ^{**}
1984	18.3	76.5	2.4	71.6	38.6	130.8	116.5	64.9	22.3	4.2	0.3
1985	18.1	76.4	2.2	72.4	38.8	131.3	117.2	66.2	23.0	4.0	0.2
1986	17.3	73.3	2.4	68.0	36.8	128.7	114.3	64.1	23.0	4.0	0.2
1987	16.6	70.8	2.2	66.7	35.8	126.4	111.3	63.9	22.6	4.2	0.2
1988	16.7	72.2	2.2	68.4	36.2	129.8	116.0	65.8	23.8	4.4	0.2
1989	16.6	71.9	2.4	70.9	36.9	130.9	115.9	66.6	23.9	4.4	0.2
1990	17.1	71.6	2.4	74.7	38.5	132.7	114.7	66.0	25.6	4.1	0.2
1991	17.0	71.6	2.6	75.9	38.3	133.1	117.0	66.4	25.7	4.3	0.2
1992	16.4	70.1	2.3	75.9	38.0	129.7	114.6	66.9	24.8	4.2	0.2
1993	16.1	69.0	2.4	75.8	38.2	127.0	112.1	68.3	25.0	4.6	0.2
1994	15.7	67.6	2.3	74.4	37.8	122.4	110.1	69.9	25.6	4.9	0.1
1995	14.7	65.4	2.0	70.0	36.0	117.8	108.4	69.8	26.0	4.7	0.2
1996	15.0	64.9	2.2	67.0	35.4	118.2	107.2	71.3	26.7	5.1	0.2
1997	15.2	65.6	1.8	66.1	35.4	120.7	110.0	73.2	27.0	5.0	0.3
1998	15.3	66.6	1.9	65.2	35.4	124.4	111.2	74.3	28.6	4.7	0.2
1999	15.3	67.6	1.6	62.6	33.9	126.0	114.4	77.7	29.5	5.2	0.2
2000	15.2	67.4	1.6	62.0	32.8	132.5	111.3	75.4	28.6	5.2	0.2
2001	14.6	65.5	1.3	58.1	30.5	124.2	109.4	74.1	29.1	5.5	0.3
2002	14.4	65.3	1.5	57.8	30.3	120.7	107.8	74.7	29.1	5.5	0.2
2003	14.4	65.8	1.1	55.6	28.8	118.8	111.1	75.5	30.7	5.2	0.3

^{*} Rate per 1,000 population. ¹ Rate per 1,000 women aged 15-44. ² Rate per 1,000 women in age group. * Numerator = all live births to mothers under 15 years of age; Denominator = female population 10-14 years of age. ** Numerator = all live births to mothers 45 and older; Denominator = female population 45-49 years of age. Source: Louisiana State Center for Health Statistics.

MATERNAL PROFILE

Age of Mother

Reflecting a decrease in birth rates among women under 30 years of age, overall birth and fertility rates have declined in the state since the 1980s. For women between the ages of 30 and 39 years, however, the birth rates have increased, thus suggesting a preference among women in that age group to delay having children until the latter part of their childbearing years (see Tables 2.2 and 2.3). This behavior among women in their 30s is comparable to national trends in age-specific birth rates in the past decade.

**Table 2.3: First Birth Rates⁺ by Maternal Age
Louisiana and United States, 1994-2003**

Year	Maternal Age Group							15-44	15-44
	Less than 15 ⁺	15-19	20-24	25-29	30-34	35-39	40-44	Louisiana	United States
1994	2.3	55.0	54.6	35.3	15.1	4.2	0.7	27.2	27.5
1995	1.9	53.3	52.6	36.6	15.8	4.4	0.7	27.0	27.3
1996	2.1	50.8	52.0	36.9	16.9	4.4	0.8	26.7	26.8
1997	1.8	50.4	51.5	36.8	17.2	4.9	0.8	26.7	26.5
1998	1.8	50.0	51.9	35.8	17.5	5.3	0.7	26.8	26.4
1999	1.6	47.7	52.2	37.5	18.4	5.3	0.9	27.0	26.6
2000	1.6	47.4	53.9	31.9	18.6	6.1	0.9	26.5	26.5
2001	1.3	43.7	53.8	32.7	17.2	5.0	0.9	25.3	26.0
2002	1.5	43.9	52.7	33.3	17.6	5.1	1.0	25.5	25.8
2003	1.1	42.5	51.1	34.3	17.7	5.4	1.0	25.4	26.5

⁺ First birth per 1,000 women in specified age group. * Numerator = all live births to mothers under 15 years of age; Denominator = female population 10-14 years of age. Source: Louisiana State Center for Health Statistics, National Center for Health Statistics.

Birth Order

The **first-birth rate** measures the number of first births to mothers in a particular age group. The rate is calculated by dividing the number of first births to mothers in a particular age group by the total female population in that age group, then multiplying the quotient by 1,000. It is expressed as the number of first births per 1,000 women in that age group. First-birth rates are helpful in assessing changes over time in the age at which women begin bearing children.

Counts of 2003 live births by birth order are presented in the following table.

**Table 2.4: Number of Live Births by Birth Order, Age and Race of Mother
Louisiana, 2003**

Birth Order	Race	Total	Maternal Age Group									Percent of Live Births	Mean Age of Mother	Median Age of Mother
			Less than 15	15-19	20-24	25-29	30-34	35-39	40-44	45 & Older	Unk.			
ALL	ALL ⁺⁺⁺	64689	183	9452	21240	16716	11281	4851	909	54	****	100.0	25.7	24.4
	WHITE	37066	31	3899	10851	10423	7923	3317	586	34	****	57.3	26.7	25.7
	BLACK	26024	150	5444	10037	5825	2909	1348	291	19	****	40.2	24.1	22.5
1	ALL	25405	180	7362	9034	5077	2697	879	170	6	0	39.3	23.2	21.7
	WHITE	15292	31	3235	5340	3792	2107	663	121	****	0	23.6	24.4	23.0
	BLACK	9464	147	4038	3514	1092	458	168	44	****	0	14.6	21.2	19.8
2	ALL	20952	****	1742	7256	5887	4241	1576	238	9	0	32.4	26.4	25.6
	WHITE	12809	0	577	3782	3946	3208	1133	156	7	0	19.8	27.4	26.8
	BLACK	7613	****	1147	3357	1782	870	378	74	****	0	11.8	24.5	22.9
3	ALL	11194	0	302	3412	3451	2537	1271	207	14	0	17.3	27.7	26.8
	WHITE	6084	0	78	1339	1897	1722	903	135	10	0	9.4	29.0	28.6
	BLACK	4841	0	222	2031	1472	722	327	64	****	0	7.5	26.0	24.7
4	ALL	4358	0	34	1145	1431	1053	571	120	****	0	6.7	28.6	27.7
	WHITE	1970	0	****	316	604	610	358	75	****	0	3.0	30.2	29.8
	BLACK	2285	0	30	818	800	407	190	39	****	0	3.5	27.0	25.7
5	ALL	1526	0	5	291	506	393	245	76	10	0	2.4	29.8	28.8
	WHITE	528	0	0	58	119	175	125	46	5	0	0.8	32.0	31.7
	BLACK	971	0	5	232	383	203	117	26	5	0	1.5	28.5	27.0
6	ALL	648	0	****	71	223	182	133	33	5	0	1.0	30.8	29.8
	WHITE	202	0	0	5	40	64	71	19	****	0	0.3	33.7	33.7
	BLACK	433	0	****	66	181	111	59	13	****	0	0.7	29.4	28.5
7	ALL	284	0	0	12	86	84	79	20	****	0	0.4	32.3	31.8
	WHITE	75	0	0	****	9	25	28	11	****	0	0.1	34.8	34.7
	BLACK	206	0	0	11	76	58	50	9	****	0	0.3	31.3	30.6
8	ALL	124	0	0	****	30	45	33	14	0	0	0.2	33.2	32.6
	WHITE	33	0	0	0	****	6	14	9	0	0	0.1	36.4	35.9
	BLACK	87	0	0	****	26	37	17	5	0	0	0.1	31.9	30.8
9	ALL	68	0	0	0	7	24	24	13	0	0	0.1	35.1	34.9
	WHITE	14	0	0	0	0	****	6	7	0	0	0.0	39.3	39.7
	BLACK	54	0	0	0	7	23	18	6	0	0	0.1	34.1	33.6

⁺⁺⁺All Races contains white, black and other. **** Cells suppressed to protect confidentiality.
Source: Louisiana State Center for Health Statistics.

Race of Mother

Of the 64,689 births to Louisiana residents, 37,066 (57.3%) were to white mothers, 26,024 (40.2%) to black mothers, and 1,599 (2.5%) to mothers of other races (Table 2.5).

Table 2.5: Number of Live Births by Maternal Age and Race Louisiana 2003

Race	Maternal Age Group										
	Less than 15	15-19	Under 20	20-24	25-29	30-34	35-39	40-44	45 & older	All ages (Excluding Unknown)	
All Races	183	9452	9635	21240	16716	11281	4851	909	54	64689	64686
White	31	3899	3930	10851	10423	7923	3317	586	34	37066	37064
Black	150	5444	5594	10037	5825	2909	1348	291	19	26024	26023
Other	****	109	111	352	468	449	186	32	****	1599	1599

**** Cells suppressed to protect confidentiality. Source: Louisiana State Center for Health Statistics.

Table 2.6: Crude Birth Rates⁺, Fertility Rates¹, and Age-Specific Birth Rates² by Maternal Race Louisiana, 2003

Race	Crude Rates ⁺	Fertility Rates ¹	Age-Specific Birth Rates ² by Maternal Age Group								
			Less than 15 ³	15-19	Under 20	20-24	25-29	30-34	35-39	40-44	45-49 ⁴
All Races	14.4	65.8	1.1	55.6	28.8	118.8	111.1	75.5	30.7	5.2	0.3
White	12.7	61.3	0.3	40.2	57.1	102.4	115.2	83.4	33.0	5.1	0.3
Black	17.4	73.3	2.2	78.5	73.3	146.8	104.5	57.9	25.1	5.1	0.3
Other	1.6	66.3	0.1	3.0	4.9	80.0	10.9	10.8	4.8	0.8	0.0

⁺ Rate per 1,000 population.

¹ Rate per 1,000 women aged 15-44.

² Rate per 1,000 women in corresponding age group.

³ Numerator = all live births to mothers under 15 years of age; denominator = female population 10-14 years of age.

⁴ Numerator = all live births to mothers 45 -54; denominator = female population 45-49 years of age.

Source: Louisiana State Center for Health Statistics.

Teen and Pre-Teen Births

A **teen birth** is defined as a birth to a woman aged 13 to 19 years of age. A **pre-teen birth** is a birth to a woman younger than 13 years old. Despite an overall decrease in teen and pre-teen birth rates over the last two decades, teenage and pre-teenage pregnancies continue to present challenges to health initiatives nationwide. Most pre-teen and teen births are unintended, and the educational attainment of mothers younger than 20 years of age is limited. In addition to the social repercussions, pre-teen and teen pregnancy and childbearing have important health consequences for the young mother as well as her baby: mothers under 20 years of age are less likely to receive timely prenatal care and pre-teens and teens are more likely to smoke during pregnancy than women over 20 years of age. These factors, combined with the fact that pre-teenage and teenage mothers are less likely to finish high school, contribute to the high proportion of women living in poverty who first gave birth during adolescence.

There were 9,635 live births to Louisiana residents under the age of 20 years in the year 2003 (see Table 2.5 above). As in the United States overall, birth rates in Louisiana for the 15-19 years age group have been declining during the 1990s and continued to fall until 2001. The teenage birth rate for the state dropped to 55.6 per 1,000 in 2003, while the rate for the United States decreased to 41.6 the same year (Table 2.7).

Table 2.7: Teenage Birth Rates¹ (maternal age group 15-19 years), Louisiana and United States, 1994-2003

Year	Louisiana	U.S
1994	74.4	58.9
1995	70.0	56.8
1996	67.0	54.4
1997	66.1	52.3
1998	65.2	51.1
1999	62.6	49.6
2000	62.0	47.7
2001	56.7	45.3
2002	57.8	43.0
2003	55.6	41.6

¹Rate per 1,000 women in corresponding age group.
Sources: Louisiana State Center for Health Statistics.
National Vital Statistics Report, Vol.54, No.2, September 8, 2005.

The birth rates for women aged 15-19 from different races are presented in Table 2.8.

Table 2.8: Teens and Pre-Teens: Age-specific Birth Rates⁺ by Maternal Race, Louisiana, 2003

Maternal Age Group	Maternal Race		
	White	Black	Other
Less than 15	0.3	2.2	--
15-17	17.6	48.0	17.7
18-19	73.0	120.6	49.1
15-19	40.2	78.5	30.3

⁺ Rate per 1,000 women in race and age group.
-- Count is less than 20, making the calculated rate unreliable.
Source: Louisiana State Center for Health Statistics.

Relative to mothers of all ages, teenage and pre-teenage mothers were less likely to enter prenatal care within the first trimester of pregnancy (Table 2.9).

Table 2.9: Teens and Pre-Teens: Number and Percents of Live Births to Mothers Entering Prenatal Care in the First Trimester, by Maternal Race, Louisiana, 2003

Maternal Age Group	Maternal Race					
	White		Black		All Races ^{***}	
	Number	Percent ⁺	Number	Percent ⁺	Number	Percent ⁺
Less than 15	25	80.6	70	46.7	97	53.0
15	71	70.3	165	56.5	238	60.1
16	198	78.3	361	57.5	564	63.4
17	514	78.0	682	67.3	1212	71.3
18	1000	80.8	1075	68.1	2090	73.6
19	1317	79.9	1375	71.1	2722	75.0
15-19	3100	79.5	3658	67.2	6826	72.2

⁺ Percent of live births entering prenatal care in first trimester in age and race group.
^{***}All Races includes white, black and other.
Source: Louisiana State Center for Health Statistics.

Teenagers and pre-teenagers were also more likely to give birth to low birthweight infants, with 13.0% of live births to women 15 -19 years of age being low birthweight (Table 2.10).

Table 2.10: Teens and Pre-Teens: Number and Percent of Live Births Under 2500 Grams by Maternal Race and Selected Age, Louisiana, 2003

Maternal Age	Maternal Race					
	White		Black		All Races ⁺⁺⁺	
	Number	Percent ⁺	Number	Percent ⁺	Number	Percent ⁺
Less than 15	****	12.9	28	18.7	32	17.5
15	13	12.9	57	19.5	70	17.7
16	29	11.5	102	16.2	132	14.8
17	68	10.3	151	14.9	219	12.9
18	122	9.9	238	15.1	360	12.7
19	145	8.8	295	15.3	444	12.2
15-19	377	9.7	843	15.5	1225	13.0

⁺ Percent of live births <2500 grams in age group and race group. ⁺⁺⁺All Races includes white, black and other.
^{****} Cells suppressed to protect confidentiality. Source: Louisiana State Center for Health Statistics.

Education

Three-quarters (77.8%) of Louisiana’s live births in 2003 occurred to mothers with at least a high school education. When examined by race, 69.4% of black infants, and 83.4% of white infants, were born to mothers with at least a high school level education (Table 2.11).

Table 2.11: Number and Percent of Live Births by Maternal Education and Race Louisiana, 2003

Education Level	Maternal Race							
	White		Black		Other		All Races ⁺⁺⁺	
	Number	Percent ⁺	Number	Percent ⁺	Number	Percent ⁺	Number	Percent ⁺
No high school	1215	3.3	917	3.5	110	6.9	2242	3.5
Some high school	4905	13.2	7019	27.0	218	13.6	12142	18.8
High school graduate	12593	34.0	10441	40.1	523	32.7	23557	36.4
Some college	7824	21.1	5247	20.2	287	17.9	13358	20.6
College graduate	10490	28.3	2376	9.1	461	28.8	13327	20.6
Known Total	37027	100.0	26000	100.0	1599	100.0	64626	100.0

⁺ May not sum to 100% due to rounding.
⁺⁺⁺All Races includes white, black and other. Source: Louisiana State Center for Health Statistics.

Marital Status

There were 30,742 live births (47.5%) to unmarried mothers in Louisiana in 2003. Very young mothers were the most likely to be unmarried, with 99.5% of all mothers under the age of 15 being unmarried (Table 2.12).

Table 2.12: Percent⁺ of Live Births to Unmarried Mothers by Maternal Age and Race Louisiana, 2003

Maternal Race	Maternal Age Group							
	Less than 15	15-19	20-24	25-29	30-34	35-39	40 & Older	All Ages
All Races	99.5	87.9	62.0	34.0	19.7	19.8	21.5	47.5
White	96.8	75.8	41.8	17.2	9.8	11.0	12.4	28.4
Black	100.0	96.8	84.3	65.2	47.8	43.2	41.0	76.0
Other	100.0	78.0	49.4	19.9	13.6	6.5	--	26.9

-- Count is less than 20, making the calculated rate unreliable.

⁺ Percent of live births in the specified maternal age group. Source: Louisiana State Center for Health Statistics.

Table 2.13: Percent⁺ of Live Births to Unmarried Mothers by Maternal Age Louisiana and the United States, 1999-2003

Year	Louisiana: Maternal Age Group								United States: Maternal Age Group							
	Less than 15	15-19	20-24	25-29	30-34	35-39	40 & Older	All Ages	Less than 15	15-19	20-24	25-29	30-34	35-39	40 & Older	All Ages
1999	99.6	84.7	57.5	27.4	18.5	19.8	22.1	44.8	96.5	78.7	48.5	22.9	14.0	14.4	16.5	33.0
2000	98.9	85.2	59.2	29.0	17.9	20.3	21.8	45.6	96.5	78.8	49.5	23.5	14.0	14.5	16.8	33.2
2001	99.1	86.7	60.5	30.5	18.5	19.1	24.0	46.3	96.3	78.9	50.4	24.4	14.3	14.4	17.1	33.5
2002	99.2	86.7	61.7	31.7	18.4	19.9	22.1	47.0	97.0	80.0	51.6	25.3	14.6	14.5	17.3	34.0
2003	99.5	87.9	62.0	34.0	19.7	19.8	21.7	47.5	97.1	81.3	53.2	26.4	15.1	14.8	17.9	34.6

**Percent of live births in the specified maternal age group. Sources: Louisiana State Center for Health Statistics, National Center for Health Statistics.

Prenatal Care

Racial differences with regard to the entry into prenatal care were observed in both Louisiana and the United States.

Table 2.14: Percent of Live Births to Women Entering Prenatal Care in the 1st Trimester of Pregnancy by Maternal Race Louisiana and United States, 2003

Maternal Race	Louisiana	United States
All Races ⁺⁺⁺	84.1	84.1
White	90.1	85.7
Black	75.5	75.9

⁺⁺⁺All Races includes white, black and other.

Sources: Louisiana State Center for Health Statistics. National Center for Health Statistics.

Table 2.15: Percent of Women Delivering Live Births Receiving Adequate Prenatal Care by Maternal Age and Race, Louisiana, 2003

Maternal Race	Maternal Age Group								
	All Ages	Less than 15	15-19	20-24	25-29	30-34	35-39	40-44	45+
All Races ⁺⁺⁺	80.1	47.0	67.2	75.8	85.5	88.7	86.3	83.0	67.9
White	86.8	67.7	75.5	82.7	90.3	92.1	90.4	89.6	75.8
Black	70.3	42.0	61.5	68.2	77.0	79.6	76.0	68.6	52.6

Sources: Louisiana State Center for Health Statistics.

In Louisiana, adequacy of prenatal care is measured by a *modified Kessner index* (see Technical Notes). This index defines prenatal care as adequate if the first prenatal visit occurred in the first trimester of pregnancy, and if the total number of visits was appropriate to the gestational age of the baby at birth. However, because these measures assess neither the quality nor the content of prenatal care, they must be recognized only as estimates of the actual adequacy of the care received.

Table 2.16: Percents of Live Births to Women Entering Prenatal Care in the First Trimester of Pregnancy, Louisiana and the United States, 1994-2003

Year	Louisiana	United States
1994	79.2	80.2
1995	80.7	81.3
1996	81.1	81.9
1997	81.3	82.5
1998	82.3	82.8
1999	82.9	83.2
2000	83.3	83.2
2001	83.2	83.4
2002	83.7	83.7
2003	84.1	84.1

Sources: Louisiana State Center for Health Statistics, National Center for Health Statistics.

Note: Women with multiple births are counted once. In 2003, 63,674 women in Louisiana had at least one live birth.
 ***All races include white, black, and other. Source: Louisiana State Center for Health Statistics.

In Louisiana, the percentage of live births to mothers entering prenatal care in the first trimester has increased steadily since the early 1990s (Table 2.17), a trend that has been noticed in the United States as well.

Table 2.17: Percents⁺ of Live Births by Initiation of Prenatal Care, Maternal Age, and Maternal Race Louisiana, 2003

Maternal Age Group	Trimester of Prenatal Care Initiation											
	No Care			First Trimester			Second Trimester			Third Trimester		
	All Races ⁺⁺⁺	White	Black	All Races ⁺⁺⁺	White	Black	All Races ⁺⁺⁺	White	Black	All Races ⁺⁺⁺	White	Black
Under 20	1.9	0.9	2.6	72.0	79.7	66.8	22.2	16.8	25.8	3.9	2.6	4.9
20-24	1.5	0.7	2.3	80.5	86.4	73.9	15.7	11.5	20.4	2.3	1.4	3.3
25-29	1.1	0.4	2.3	88.9	92.9	81.8	8.7	5.9	13.5	1.3	0.7	2.4
30-34	1.0	0.4	3.0	91.6	94.8	83.3	6.3	4.3	11.7	1.0	0.6	2.0
35-39	1.5	0.6	3.8	90.2	93.7	80.9	7.4	5.2	13.4	0.9	0.5	1.9
40 & Older	1.9	0.8	4.2	85.8	92.2	72.2	10.6	6.5	19.3	1.7	0.5	4.2
All Ages	1.4	0.6	2.5	84.1	90.1	75.5	12.5	8.3	18.7	2.0	1.1	3.2

⁺Percent of live births in specified maternal age and race group.
⁺⁺⁺All Races includes white, black and other. Source: Louisiana State Center for Health Statistics.

In Louisiana, blacks were less likely than whites to enter into prenatal care in the first trimester, as shown in Table 2.18.

Table 2.18: Rates⁺ of Selected Medical Risk Factors for Complications of Pregnancy by Maternal Race and Age Louisiana, 2003

Risk Factor	All Ages			All Races ⁺⁺⁺		Risk Factor	All Ages			All Races ⁺⁺⁺	
	All Races ⁺⁺⁺	White	Black	Less than 20	35 & Older		All Races ⁺⁺⁺	White	Black	Less than 20	35 & Older
Hypertension, pregnancy associated	32.1	32.8	31.7	35.6	34.3	Rh sensitization	2.9	4.0	1.6	1.8	3.5
Anemia (HCT <30 / HGB <10)	28.8	23.2	37.4	36.5	19.9	Previous infant >=4000 Grams	2.8	3.8	1.5	0.2	6.3
Diabetes	16.2	17.2	14.4	5.2	32.5	Uterine bleeding	2.5	2.8	2.2	2.3	2.5
Hydramnios / Oligohydramnios	9.8	7.9	12.5	13.0	8.4	Incompetent cervix	1.8	1.3	2.6	-	3.3
Hypertension, chronic	8.4	5.8	12.3	1.7	21.1	Cardiac disease	1.7	2.0	1.3	-	-
Previous preterm infant or small for gestational age	6.5	5.8	7.7	2.6	9.1	Acute or chronic lung disease	1.1	1.1	-	-	-
Eclampsia	6.4	3.4	11.1	9.4	5.5	Renal Disease	0.4	-	-	-	-
Genital Herpes	4.8	5.1	4.5	4.2	4.9	Hemoglobinopathy	-	-	-	-	-

⁺Rate per 1000 mothers who had one or more live births during the calendar year. - indicates a count that is less than 20, making the calculated rate unreliable.
⁺⁺⁺All Races includes white, black and other. Source: Louisiana State Center for Health Statistics.

Medical Risk Factors for Complications of Pregnancy

The birth attendant records medical risk factors on the birth certificate by checking any of 16 listed risk factors, or by specifying “other” or “none”. Multiple risk factors can be recorded on a birth certificate.

Medical risk factors reported on the birth certificate differed somewhat by age, with very young mothers and older mothers reporting the highest rates of medical risks.

Table 2.19: Counts¹ of Medical Risk Factors for Complications of Pregnancy by Maternal Age and Race Louisiana, 2003

Medical Risk Factor	Race	Total	Maternal Age Group													
			Less than 15	15	16	17	18	19	15-19	20-24	25-29	30-34	35-39	40-44	45 +	Unk.
No medical risk factor noted	All	47438	104	258	596	1193	2028	2667	6742	15909	12312	8320	3429	595	27	0
	White	28548	17	73	197	491	951	1288	3000	8577	8050	6056	2435	397	16	0
	Black	17631	85	183	392	684	1060	1346	3665	7045	3892	1905	854	175	10	0
	Other	1259	****	****	7	18	17	33	77	287	370	359	140	23	****	0
Anemia (HCT<30/HGB <10)	All	1833	5	15	26	61	111	131	344	624	470	277	91	21	****	0
	White	844	****	****	6	22	41	44	117	259	235	160	56	14	****	0
	Black	959	****	11	20	38	69	86	224	359	225	108	33	7	0	0
	Other	30	0	0	0	****	****	****	****	6	10	9	****	0	0	0
Cardiac disease	All	107	0	****	****	****	****	****	11	34	27	23	9	****	0	0
	White	72	0	****	0	****	****	****	6	25	16	18	5	****	0	0
	Black	33	0	0	****	****	****	****	5	7	11	5	****	****	0	0
	Other	****	0	0	0	0	0	0	0	****	0	0	0	0	0	0

Table 2.19 continues on the next page.

**Table 2.19: Counts¹ of Medical Risk Factors for Complications of Pregnancy by Maternal Age and Race (Continued)
Louisiana, 2003**

Medical Risk Factor	Race	Total	Maternal Age Group														Unk.
			Less than 15	15	16	17	18	19	15-19	20-24	25-29	30-34	35-39	40-44	45 +		
Acute or chronic lung disease	All	71	0	0	****	****	****	5	13	21	22	11	****	****	0	0	
	White	39	0	0	0	0	****	****	6	8	14	9	****	0	0	0	
	Black	32	0	0	****	****	****	****	7	13	8	****	****	****	0	0	
	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Diabetes	All	1028	0	0	****	10	14	24	50	204	306	283	144	39	****	0	
	White	628	0	0	0	6	8	13	27	122	184	179	89	25	****	0	
	Black	369	0	0	****	****	6	11	23	82	114	90	48	12	0	0	
	Other	31	0	0	0	0	0	0	0	0	8	14	7	****	0	0	
Genital herpes	All	304	0	0	****	10	14	12	40	81	93	62	25	****	0	0	
	White	187	0	0	****	****	****	8	19	41	56	49	19	****	0	0	
	Black	114	0	0	****	6	10	****	21	40	35	12	6	0	0	0	
	Other	****	0	0	0	0	0	0	0	0	****	****	0	0	0	0	
Hydramnios/Oligohydramnios	All	624	****	****	16	27	36	40	123	194	173	85	37	8	****	0	
	White	289	0	****	****	7	12	20	41	81	93	50	19	****	****	0	
	Black	319	****	****	15	17	24	20	79	110	72	33	18	****	****	0	
	Other	16	0	0	0	****	0	0	****	****	8	****	0	0	0	0	
Hemoglobinopathy	All	12	0	0	****	****	****	0	5	0	****	****	****	0	0	0	
	White	6	0	0	0	****	****	0	****	0	****	****	0	0	0	0	
	Black	6	0	0	****	0	0	0	****	0	****	****	****	0	0	0	
	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hypertension, chronic	All	533	0	0	****	****	6	6	16	88	172	137	94	23	****	0	
	White	213	0	0	0	****	****	****	****	30	80	55	34	9	****	0	
	Black	314	0	0	****	****	****	5	12	57	90	80	59	14	****	0	
	Other	6	0	0	0	0	0	0	0	****	****	****	****	0	0	0	
Hypertension, pregnancy associated	All	2040	7	17	37	45	98	136	333	620	511	374	159	34	****	0	
	White	1196	****	****	9	18	45	61	135	338	338	262	104	17	****	0	
	Black	813	6	15	27	27	52	75	196	273	167	103	50	17	****	0	
	Other	31	0	0	****	0	****	0	****	9	6	9	5	0	0	0	
Eclampsia	All	409	8	****	12	11	21	34	82	144	81	63	26	5	0	0	
	White	123	0	0	****	****	****	10	15	38	26	31	9	****	0	0	
	Black	285	8	****	11	10	18	24	67	106	54	32	17	****	0	0	
	Other	****	0	0	0	0	0	0	0	0	****	0	0	0	0	0	
Incompetent cervix	All	114	****	0	****	0	****	****	8	29	32	25	16	****	0	0	
	White	47	0	0	0	0	****	0	****	15	12	7	9	****	0	0	
	Black	66	****	0	****	0	****	****	6	14	20	17	7	****	0	0	
	Other	****	0	0	0	0	0	0	0	0	0	****	0	0	0	0	
Previous infant >= 4000 grams	All	179	0	0	0	0	0	****	****	36	59	46	26	9	****	0	
	White	137	0	0	0	0	0	****	****	19	44	40	22	9	****	0	
	Black	38	0	0	0	0	0	0	0	16	14	****	****	0	0	0	
	Other	****	0	0	0	0	0	0	0	****	****	****	0	0	0	0	
Previous preterm or small for gestational age infant	All	413	0	****	****	****	7	13	25	141	121	74	41	11	0	0	
	White	213	0	0	0	****	****	****	7	60	68	47	24	7	0	0	
	Black	196	0	****	****	****	5	9	18	80	51	26	17	****	0	0	
	Other	****	0	0	0	0	0	0	0	****	****	****	0	0	0	0	
Renal Disease	All	28	****	****	0	0	5	0	6	9	8	****	****	0	0	0	
	White	19	****	****	0	0	****	0	5	5	5	****	0	0	0	0	
	Black	9	0	0	0	0	****	0	****	****	****	0	****	0	0	0	
	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rh Sensitization	All	185	****	0	0	****	****	9	16	59	47	42	17	****	****	0	
	White	144	****	0	0	****	****	5	8	44	34	39	15	****	****	0	
	Black	40	0	0	0	****	****	****	8	15	12	****	****	0	0	0	
	Other	****	0	0	0	0	0	0	0	0	****	0	0	0	0	0	

Table 2.19 continues on the next page

**Table 2.19: Counts¹ of Medical Risk Factors for Complications of Pregnancy by Maternal Age and Race (Continued)
Louisiana, 2003**

Medical Risk Factor	Race	Total	Maternal Age Group													
			Less than 15	15	16	17	18	19	15-19	20-24	25-29	30-34	35-39	40-44	45 +	Unk.
Uterine bleeding	All	162	****	****	****	****	8	6	20	54	46	26	9	5	0	0
	White	103	0	****	****	****	****	****	11	31	29	22	7	****	0	0
	Black	57	****	****	0	****	****	****	9	23	16	****	****	****	0	0
	Other	****	0	0	0	0	0	0	0	0	****	0	0	****	0	0
Other	All	10931	60	106	216	380	545	638	1885	3490	2694	1697	891	195	19	0
	White	4919	11	19	38	118	171	215	561	1363	1336	995	533	108	12	0
	Black	5793	49	86	178	256	367	411	1298	2084	1298	651	323	83	7	0
	Other	219	0	****	0	6	7	12	26	43	60	51	35	****	0	0
Unknown medical risk factor	All	75	0	0	0	****	****	****	7	17	12	11	16	6	****	****
	White	51	0	0	0	0	****	****	****	10	11	6	12	****	****	****
	Black	23	0	0	0	****	****	****	****	6	****	5	****	****	****	****
	Other	****	0	0	0	0	0	0	0	****	0	0	0	0	0	0

¹This is a duplicated count. More than one medical risk factor was noted on some birth certificates. **** Cells suppressed to protect confidentiality. 63,674 women had at least one live birth during the calendar year. Source: Louisiana State Center for Health Statistics.

Tobacco and Alcohol Use during Pregnancy

Usage of tobacco and alcohol during pregnancy, as reported by the mother at the time of birth, is recorded on the birth certificate. Because this information depends on the mother’s recall, it may be subject to inaccuracy.

**Table 2.20: Use of Tobacco and Alcohol during Pregnancy by Maternal Age and Race
Louisiana, 2003**

Substance Usage	Race	Total	Maternal Age Group													
			Less than 15	15	16	17	18	19	15-19	20-24	25-29	30-34	35-39	40-44	45 +	Unk.
No tobacco use	All	57271	177	375	819	1548	2507	3173	8422	18360	14903	10238	4341	784	46	0
	White	31589	28	85	202	536	967	1304	3094	8744	9112	7122	2952	507	30	0
	Black	24185	148	287	609	987	1517	1831	5231	9296	5348	2687	1211	249	15	0
	Other	1497	****	****	8	25	23	38	97	320	443	429	178	28	****	0
Tobacco use	All	6291	6	19	58	143	299	423	942	2583	1488	779	387	102	****	0
	White	4805	****	15	47	120	252	333	767	1979	1103	610	278	64	****	0
	Black	1412	****	****	11	21	44	83	163	577	370	157	104	36	****	0
	Other	74	****	0	0	****	****	7	12	27	15	12	5	****	0	0
Unknown tobacco use	All	112	0	****	0	****	6	****	12	32	23	16	17	6	****	****
	White	71	0	****	0	0	****	****	7	19	17	9	11	****	****	****
	Black	40	0	0	0	****	****	****	5	12	6	7	6	****	****	****
	Other	****	0	0	0	0	0	0	0	****	0	0	0	0	0	0
No alcohol use	All	63362	183	395	875	1690	2802	3589	9351	20907	16354	10956	4684	877	50	0
	White	36288	31	101	248	655	1215	1632	3851	10710	10197	7694	3207	567	31	0
	Black	25505	150	291	619	1008	1561	1912	5391	9850	5700	2822	1294	280	18	0
	Other	1569	****	****	8	27	26	45	109	347	457	440	183	30	****	0
Alcohol use	All	207	0	0	****	****	5	7	15	38	42	61	42	9	0	0
	White	112	0	0	****	****	5	5	12	15	20	38	23	****	0	0
	Black	93	0	0	****	0	0	****	****	23	21	22	19	5	0	0
	Other	****	0	0	0	0	0	0	0	****	****	****	0	0	0	0
Unknown alcohol use	All	105	0	0	0	****	5	****	10	30	18	16	19	6	****	****
	White	65	0	0	0	****	****	****	5	17	15	9	11	****	****	****
	Black	39	0	0	0	****	****	****	5	12	****	7	8	****	****	****
	Other	****	0	0	0	0	0	0	0	****	0	0	0	0	0	0

Note: Based on a count of women giving birth rather than the total number of live births. 63,674 women had at least one live birth during 2003. **** Cells suppressed to protect confidentiality. Source: Louisiana State Center for Health Statistics.

NEWBORN PROFILE

Gender

Louisiana's **male/female birth ratio** was 1.046, which means that 1,046 males were born for every 1,000 females. By race, the male/female ratios were 1.042 for whites, 1.053 for blacks, and 1.037 for other races (Table 2.21).

Table 2.21: Counts of Live Births by Infant Gender and Maternal Race Louisiana, 2003

Infant Gender	Maternal Race			Total
	White	Black	Other	
Male	18912	13346	814	33072
Female	18154	12678	785	31617
Ratio (M:F)	1.042	1.053	1.037	1.046

Source: Louisiana State Center for Health Statistics.

Birthweight

A **low birthweight** infant is defined as an infant weighing less than 2500 grams (5 pounds, 8 ounces) at birth. Mortality and morbidity are increased among infants born at term whose birth weights are at or below the third percentile for their gestational age.⁽⁴⁾ Preterm infants who have a lower than normal birth weight are at higher risk of experiencing neurological problems, respiratory and gastrointestinal disorders, developmental problems, and slowed growth.⁽⁵⁾

Low birthweight has been linked to several preventable factors, including lack of prenatal care, maternal smoking, use of alcohol and other drugs, and pregnancy before the age of 18 years. Other risk factors for low birthweight include low socioeconomic level, low maternal weight gain, low pregnancy weight, first birth status, female sex, short maternal stature, prior low birthweight births, maternal illnesses, fetal infections, and a variety of metabolic and genetic disorders. Low birthweight infants who survive are more likely than normal weight infants to have brain damage, lung and liver disease, developmental problems, subnormal growth, and other adverse health conditions. The effects of low birthweight follow these infants throughout life, increasing their likelihood of physical, intellectual and behavioral difficulties.⁽⁶⁾ Over time, higher proportions of low birthweight infants are enrolled in special education classes relative to their normal birthweight counterparts.⁽⁷⁾

The percentages of live births weighing less than 2500 grams in Louisiana and the United States from 1994 to 2003 are presented in Table 2.22.

Table 2.22: Percent of Live Births Less Than 2500 Grams Louisiana and United States 1994-2003

Year	Louisiana	United States
1994	9.6	7.3
1995	9.7	7.3
1996	9.9	7.4
1997	10.2	7.5
1998	10.1	7.6
1999	10.0	7.6
2000	10.6	7.6
2001	10.5	7.7
2002	10.5	7.8
2003	10.7	7.9

Sources: Louisiana State Center for Health Statistics, National Center for Health Statistics

Table 2.23: Percent⁺ of Live Births Less Than 2500 Grams by Maternal Race, Louisiana and United States, 2003

Location	Maternal Race		
	All Races ⁺⁺⁺	White	Black
Louisiana	10.7	7.7	15.0
United States	7.9	6.9	13.4

⁺Percent of live births in specified race group. ⁺⁺⁺All races include White, Black and Other.
Source: Louisiana State Center for Health Statistics.

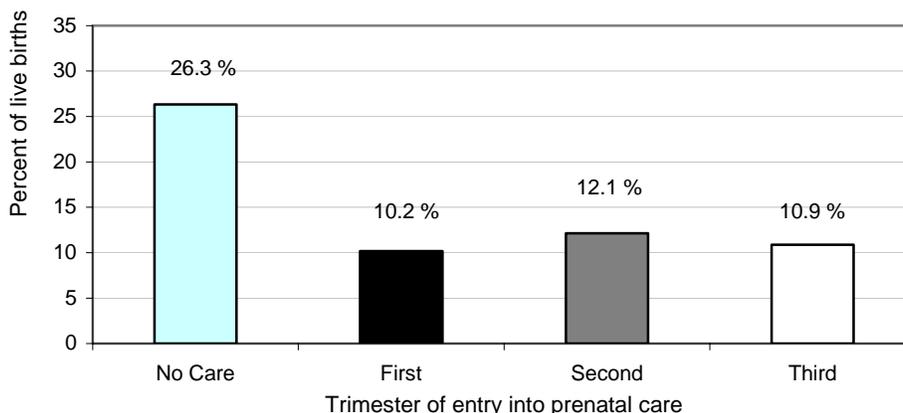
Table 2.24: Percent⁺ of Live Births Less than 2500 Grams by Maternal Age and Race, Louisiana, 2003

Race	Maternal Age Group								
	Less than 15	15-19	20-24	25-29	30-34	35-39	40-44	40 and over	All Ages
All Races ⁺⁺⁺	17.5	13.0	10.8	9.4	9.8	11.2	13.9	14.1	10.7
White	12.9	9.7	7.5	6.9	7.9	7.9	9.9	9.8	7.7
Black	18.7	15.5	14.4	13.9	15.3	19.5	21.3	22.3	15.0

⁺Percent of live births in specified age and race group. ⁺⁺⁺All Races includes White, Black and Other.
Source: Louisiana State Center for Health Statistics.

The prevalence of low birthweight births to mothers who had no prenatal care was 26.3%; more than double that of births to mothers with prenatal care beginning in the first, second or third trimesters. Among mothers who received prenatal care, mothers who entered prenatal care in the second or third trimester had higher percentages of low birth weights than the mothers who entered prenatal care in the first trimester (Figure 2.3).

Fig 2.3: Percent of Live Births Less than 2500 grams by Trimester of Entry into Prenatal Care, Louisiana, 2003



Source: Louisiana State Center for Health Statistics.

Infants weighing less than 1500 grams at birth (3 lbs. 5 oz.) are considered to be **very low birthweight** and are at much greater risk of mortality and long-term disability than higher weight infants. Although recent medical advances have greatly reduced the risk of death for smaller infants, the risk of early death for a very low birthweight infant is about 65 times that of infants who weigh at least 500 grams. ⁽⁸⁾

Of all births to Louisiana residents in 2003, 2.2% of infants weighed less than 1500 grams. By comparison, 1.4% of infants born nationwide were very low birthweight. ⁽⁹⁾ As with low birthweight infants, the frequency of very low birthweight babies differed by race. Black mothers gave birth to very low birthweight infants almost three times as frequently as white mothers

did, at 3.5% compared with 1.2%, respectively (Table 2.25).

Table 2.25: Percent⁺ of Live Births Less than 1500 Grams by Maternal Age and Race, Louisiana, 2003

Race	Maternal Age Group								
	Less than 15	15-19	20-24	25-29	30-34	35-39	40-44	40 and over	All Ages
All Races ⁺⁺⁺	2.7	2.4	2.1	2.1	2.0	2.3	3.5	3.9	2.2
White	3.2	1.2	1.1	1.2	1.3	1.3	3.6	3.9	1.2
Black	2.7	3.3	3.2	3.7	4.2	5.0	3.8	4.5	3.5

⁺Percent of live births in specified age and race group. ⁺⁺⁺All Races includes White, Black and Other. Source: Louisiana State Center for Health Statistics.

Table 2.26: Number of Live Births by Live Birth Order and Birthweight Louisiana, 2003

Birth Order	Total	Birthweight in Grams								Weight Unknown	Less than 2500	Percent of Total Live Births
		999 and less	1000-1999	2000-2499	2500-2999	3000-3499	3500-3999	4000-4499	4500 and over			
ALL	64689	752	1952	4211	13953	25319	14676	3323	490	13	6915	10.69
1	25405	336	753	1607	5740	10084	5550	1180	152	****	2696	10.61
2	20952	202	534	1193	4200	8353	5144	1160	164	****	1929	9.21
3	11194	122	334	783	2366	4308	2543	632	105	****	1239	11.07
4	4358	51	171	343	1015	1632	892	214	39	****	565	12.96
5	1526	21	83	144	342	549	305	68	14	0	248	16.25
6	648	7	36	68	152	218	131	30	6	0	111	17.13
7	284	8	20	34	72	84	44	19	****	0	62	21.83
8	124	****	8	16	30	32	25	11	****	0	25	20.16
9	68	0	5	8	16	19	12	****	****	0	13	19.12
Unk.	68	****	****	5	11	21	17	****	0	6	10	14.71

**** Cells suppressed to protect confidentiality. Source: Louisiana State Center for Health Statistics.

Table 2.27: Number and Percent⁺ of Live Births by Infant Birthweight, Infant Gender, and Maternal Race Louisiana, 2003

Weight in Grams	All Races		White				Black				Other			
			Male		Female		Male		Female		Male		Female	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under 500	177	0.27	30	0.16	20	0.11	77	0.58	49	0.39	****	0.12	0	0.00
500-749	288	0.45	33	0.17	43	0.24	109	0.82	97	0.77	5	0.61	****	0.13
750-999	287	0.44	46	0.24	51	0.28	90	0.67	97	0.77	****	0.25	****	0.13
1000-1499	647	1.00	116	0.61	115	0.63	219	1.64	183	1.44	6	0.74	8	1.02
1500-1999	1305	2.02	245	1.30	296	1.63	350	2.62	389	3.07	15	1.84	10	1.27
2000-2499	4211	6.51	836	4.42	1033	5.69	957	7.17	1280	10.10	47	5.77	58	7.39
2500-2999	13953	21.57	2958	15.64	3825	21.07	3097	23.21	3735	29.46	139	17.08	199	25.35
3000-3499	25319	39.14	7128	37.69	7542	41.54	5155	38.63	4790	37.78	356	43.73	348	44.33
3500-3999	14676	22.69	5714	30.21	4207	23.17	2690	20.16	1735	13.69	193	23.71	137	17.45
4000-4499	3323	5.14	1559	8.24	902	4.97	512	3.84	283	2.23	48	5.90	19	2.42
4500 and over	490	0.76	244	1.29	116	0.64	87	0.65	37	0.29	****	0.25	****	0.51
Unknown	13	0.02	****	0.02	****	0.02	****	0.02	****	0.02	0	0.00	0	0.00
Total	64689	100.00	18912	100.00	18154	100.00	13346	100.00	12678	100.00	814	100.00	785	100.00

⁺Percents may not add to 100 due to rounding. **** Cells suppressed to protect confidentiality. Source: Louisiana State Center for Health Statistics.

**Table 2.28: Number of Live Births by Birthweight, Maternal Age, and Maternal Race
Louisiana, 2003**

Maternal Age Group and Race	Total	Birthweight in Grams											Unknown
		499 and less	500-749	750-999	1000-1499	1500-1999	2000-2499	2500-2999	3000-3499	3500-3999	4000-4499	4500 and over	
ALL ⁺⁺⁺	64689	177	288	287	647	1305	4211	13953	25319	14676	3323	490	13
Under 15	183	0	****	****	****	****	23	49	68	28	6	0	0
15-19	9452	24	44	64	96	215	782	2596	3650	1669	278	33	****
20-24	21240	67	84	88	203	431	1420	4903	8636	4383	897	121	7
25-29	16716	48	86	63	148	300	929	3310	6627	4097	968	137	****
30-34	11281	22	40	49	117	211	671	2037	4271	2986	756	121	0
35-39	4851	13	27	16	57	117	315	875	1737	1273	350	69	****
40-44	909	****	****	5	20	25	69	175	309	225	65	9	0
45 and older	54	0	0	****	5	****	****	8	21	13	****	0	0
Not Stated	****	0	0	0	0	0	0	0	0	****	****	0	0
White	37066	50	76	97	231	541	1869	6783	14670	9921	2461	360	7
Under 15	31	0	****	0	0	****	****	5	17	****	****	0	0
15-19	3899	****	6	11	24	65	267	925	1553	852	172	20	0
20-24	10851	17	20	16	62	158	541	2181	4480	2686	611	76	****
25-29	10423	14	28	30	55	128	462	1778	4160	2924	734	107	****
30-34	7923	10	11	30	49	126	403	1230	3020	2335	610	99	0
35-39	3317	****	8	6	26	57	163	560	1218	943	282	51	****
40-44	586	****	****	****	12	6	31	99	206	168	48	7	0
45 and older	34	0	0	0	****	0	0	5	16	9	****	0	0
Not Stated	****	0	0	0	0	0	0	0	0	****	****	0	0
Black	26024	126	206	187	402	739	2237	6832	9945	4425	795	124	6
Under 15	150	0	****	****	****	****	21	43	50	25	****	0	0
15-19	5444	20	37	53	70	149	514	1642	2041	801	103	13	****
20-24	10037	49	64	72	135	265	856	2651	4011	1613	273	44	****
25-29	5825	34	56	32	91	165	431	1433	2247	1095	213	28	0
30-34	2909	12	28	18	64	83	239	708	1064	548	124	21	0
35-39	1348	11	17	9	31	57	138	285	434	287	62	16	****
40-44	291	0	****	****	8	15	36	68	93	51	15	****	0
45 and older	19	0	0	****	****	****	****	****	5	****	****	0	0
Not Stated	****	0	0	0	0	0	0	0	0	****	0	0	0

⁺⁺⁺All Races includes White, Black and Other. **** Cells suppressed to protect confidentiality. Source: Louisiana State Center for Health Statistics.

Gestational Age

Gestational age is the interval between the first day of the mother's last normal menstrual period and the date of birth. Gestational age is recorded on the birth certificate by the person attending the birth, who uses several different methods to estimate gestational age, including computing the interval between the first day of the mother's last menstrual period (LMP) and the date of birth, or determining a clinical estimate based on examination of the newborn. Standardized methods of measurement for determination of gestational age are difficult, especially among at-risk pregnancies in which minimal or no prenatal ascertainment have been made.

Louisiana birth certificates record both the "Date Last Normal Menses Began" and the "Clinical Estimate of Gestation". LMP is subject to error from imperfect maternal recall or misidentification of the last normal menstrual period because of post-conception bleeding, delayed ovulation, or intervening early miscarriage. Therefore, the attendant's clinical estimate of gestation is used to determine gestational age in this report.

A birth is considered **preterm** if the gestational age at delivery is less than 37 weeks. In 2003, there were 109 infants for whom no estimate of gestational age was recorded.

Table 2.29: Number and Percent of Pre-Term Live Births (Less Than 37 Weeks) by Maternal Age and Race Louisiana, 2003

Maternal Race	Maternal Age Group													
	Less than 20		20-24		25-29		30-34		35-39		40 & older		All Ages	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All Races ^{***}	1339	13.9	2615	12.3	2023	12.1	1465	13.0	676	14.0	155	16.3	8273	12.8
White	456	11.6	1061	9.8	1040	10.0	897	11.3	379	11.5	82	13.4	3915	10.6
Black	875	15.7	1518	15.2	935	16.1	527	18.2	267	20.0	68	22.3	4190	16.2

^{***}All Races includes White, Black and Other. Source: Louisiana State Center for Health Statistics.

Multiple Births

Out of 64,689 live births to Louisiana residents in 2003, 62,615 (96.8%) were single deliveries, 1,950 (3.0%) were twins, 111 (0.2%) were triplets, 8 were quadruplets and 5 were quintuplets.

Apgar Score

The **Apgar score** is a composite measure of the physical health of an infant shortly after birth. It is assessed at one and five minutes after birth, and is used to predict the infant’s chances of survival.

Five easily identifiable characteristics – heart rate, respiratory effort, muscle tone, reflex irritability, and color – are each assessed on a scale of zero to two, with two being optimal.

The Apgar score is the sum of these scores; a score of seven or higher (to a maximum of ten) indicates the infant is in good physical condition. As the *five-minute score* is generally considered to be a better predictor of survival, it is the score reported here. In 2003, 162 births in Louisiana (0.25%) did not have a recorded *five-minute* Apgar score.

Out of 64,689 live births, 98.34% (63,615) infants had a *five-minute* Apgar score of at least 7.

Table 2.30: Number and Percent of Births with Five-Minute Apgar Score Below Normal by Maternal Race, Louisiana, 2003

	Maternal Race			
	White	Black	Other	All Races ^{***}
Number	333	559	20	912
Percent	0.9	2.2	1.3	1.4

^{***}All Races includes White, Black and Other. Source: Louisiana State Center for Health Statistics.

Table 2.31: Number and Percent of Births with Five-Minute Apgar Scores Below Normal by Maternal Age, Louisiana, 2003

	Maternal Age						
	Less than 20	20-24	25-29	30-34	35-39	40 & older	All Ages
Number	172	297	232	123	72	16	912
Percent	1.8	1.4	1.4	1.1	1.5	1.7	1.4

Source: Louisiana State Center for Health Statistics.

Congenital Anomalies

Congenital anomalies are recorded on the birth certificate by checking any of 22 listed anomalies, or by specifying “none” or “other”. More than one anomaly can be checked on a birth certificate. Because these events occur so infrequently, rates have been calculated for categories of anomalies. In the year 2003, there were 617 birth certificates with at least one congenital anomaly reported. A total of 678 congenital anomalies were reported (Table 2.33).

Table 2.32: Counts¹ of Abnormal Conditions of the Newborn by Maternal Age and Race Louisiana, 2003

Condition	Race	Total	Maternal Age													45 & older	Unknown
			Less than 15	15	16	17	18	19	15-19	20-24	25-29	30-34	35-39	40-44			
None	All	61470	169	374	836	1600	2689	3440	8939	20223	15906	10729	4599	859	46	0	
	White	35515	27	96	237	627	1181	1576	3717	10416	10002	7603	3165	557	28	0	
	Black	24414	140	275	591	946	1482	1821	5115	9467	5455	2696	1253	271	17	0	
	Other	1541	****	****	8	27	26	43	107	340	449	430	181	31	****	0	
Anemia (HCT < 39/HGB < 13)	All	26	****	0	****	****	****	****	5	****	10	****	****	****	0	0	
	White	11	****	0	0	0	0	****	****	****	****	****	****	****	0	0	
	Black	15	0	0	****	****	****	****	****	****	6	0	****	0	0	0	
	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Birth injury	All	20	0	0	0	0	****	****	****	****	9	****	****	****	0	0	
	White	12	0	0	0	0	0	****	****	****	6	****	****	0	0	0	
	Black	8	0	0	0	0	****	****	****	****	****	****	0	****	0	0	
	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Fetal alcohol syndrome	All	****	0	0	0	0	****	0	****	****	0	****	0	0	0	0	
	White	****	0	0	0	0	****	0	****	0	0	****	0	0	0	0	
	Black	****	0	0	0	0	0	0	0	****	0	****	0	0	0	0	
	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hyaline membrane disease/Respiratory distress syndrome	All	278	****	****	****	6	18	16	45	77	75	53	23	****	0	0	
	White	157	****	****	****	****	7	9	21	40	48	29	15	****	0	0	
	Black	119	0	****	****	****	11	7	24	36	27	23	8	****	0	0	
	Other	****	0	0	0	0	0	0	0	****	0	****	0	0	0	0	
Meconium aspiration syndrome	All	50	0	0	0	****	****	****	10	18	14	6	****	****	0	0	
	White	26	0	0	0	****	****	****	6	8	8	****	0	0	0	0	
	Black	23	0	0	0	****	****	****	10	5	****	****	****	0	0	0	
	Other	****	0	0	0	0	0	0	0	0	****	0	0	0	0	0	
Assisted Ventilation less than 30 minutes	All	427	****	****	9	12	11	34	67	145	94	78	36	5	****	0	
	White	268	0	0	****	5	8	19	36	93	63	50	22	****	****	0	
	Black	148	****	****	5	7	****	14	30	51	28	24	12	****	0	0	
	Other	11	0	0	0	0	0	****	****	****	****	****	****	0	0	0	
Assisted Ventilation 30 minutes or more	All	522	****	5	10	13	27	23	78	161	141	98	35	****	****	0	
	White	252	****	****	5	****	12	****	25	69	67	66	21	****	0	0	
	Black	266	****	****	5	11	15	18	52	90	74	32	13	****	****	0	
	Other	****	0	0	0	0	0	****	****	****	0	0	****	0	0	0	
Seizures	All	36	****	****	0	0	0	****	****	6	13	7	****	****	0	0	
	White	20	****	0	0	0	0	****	****	****	9	****	****	****	0	0	
	Black	16	0	****	0	0	0	****	****	****	****	****	****	0	0	0	
	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other	All	2130	8	17	33	74	104	118	346	680	543	362	160	28	****	0	
	White	919	****	****	7	23	31	40	103	249	261	194	92	16	****	0	
	Black	1170	7	15	26	51	73	77	242	424	267	153	66	11	0	0	
	Other	41	0	0	0	0	0	****	****	7	15	15	****	****	0	0	
Unknown	All	93	0	0	0	****	****	7	13	21	14	14	18	7	****	****	
	White	56	0	0	0	****	****	****	5	12	9	8	13	5	****	****	
	Black	35	0	0	0	****	****	5	8	7	5	6	5	****	****	****	
	Other	****	0	0	0	0	0	0	0	****	0	0	0	0	0	0	

¹This is a duplicated count. More than one condition was noted on some birth certificates. **** Cells suppressed to protect confidentiality. Source: Louisiana State Center for Health Statistics.

Table 2.33: Counts¹ of Congenital Anomalies by Type of Anomaly and Maternal Age Louisiana, 2003

Congenital Anomaly	Total	Maternal Age Group								
		Less than 15	15-19	20-24	25-29	30-34	35-39	40-44	45 & older	Unknown
Total	678	***	118	223	177	94	53	8	***	0
Anencephalus	***	0	***	0	***	***	0	***	0	0
Spina bifida / Meningocele	33	0	***	9	7	9	***	***	0	0
Hydrocephalus	12	0	***	***	5	***	***	***	0	0
Microcephalus	***	0	***	0	***	0	0	***	0	0
Other central nervous system anomalies	8	0	***	***	***	***	0	0	0	0
Heart malformations	42	0	5	14	15	5	***	0	***	0
Other circulatory/ Respiratory anomalies	44	0	7	14	11	8	***	0	0	0
Rectal atresia / Stenosis	***	0	***	0	0	0	0	0	0	0
Tracheo esophageal fistula / Esophageal atresia	***	0	***	***	***	0	0	0	0	0
Omphalocele / Gastroschisis	12	0	***	5	***	0	***	0	0	0
Other gastrointestinal anomalies	9	0	***	***	***	***	***	0	0	0
Malformed genitalia	11	0	***	5	***	***	***	0	0	0
Renal agenesis	5	0	0	***	***	0	***	0	0	0
Other urogenital anomalies	21	0	***	***	6	6	***	0	0	0
Cleft lip / Palate	29	0	***	13	7	5	***	0	0	0
Polydactyly / Syndactyly / Adactyly	40	***	8	14	11	***	***	0	0	0
Club foot	14	0	***	5	***	***	***	0	0	0
Diaphragmatic hernia	5	0	***	***	0	***	***	0	0	0
Other musculoskeletal / Integumental anomalies	28	0	***	10	11	***	***	***	0	0
Down's syndrome	19	0	0	5	5	***	5	0	***	0
Other chromosomal anomalies	66	0	10	19	20	11	6	0	0	0
Other congenital anomalies	268	***	62	95	63	29	15	***	0	0

¹This is a duplicated count. More than one congenital anomaly was noted on some birth certificates. 617 infants had at least one congenital anomaly.
 *** Cells suppressed to protect confidentiality.

DELIVERY CHARACTERISTICS: MEDICAL PROCEDURES, COMPLICATIONS, AND FACILITIES

Obstetric Procedures

The attendant at birth records obstetric procedures on the birth certificate by checking any of 6 procedures performed, or by specifying “none” or “other”. More than one procedure can be checked on a birth certificate (Table 2.35).

The number of women who have no obstetric procedure performed during delivery has decreased in recent years.

Table 2.34: Number and Rates⁺ of Obstetric Procedures by Maternal Age and Race Louisiana, 2003

Obstetric Procedure	All Ages						All Races ⁺⁺			
	All Races ⁺⁺⁺		White		Black		Less than 20		35 & Older	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
None	2707	42.6	1306	35.9	1333	52.1	396	41.5	262	46.3
Electronic Fetal Monitoring	55400	871.2	32872	902.8	21181	827.2	8129	851.3	4985	880.3
Ultrasound	39921	627.8	23597	648.1	15299	597.5	5770	604.3	3663	646.8
Induction Of Labor	13256	208.5	8806	241.8	4142	161.8	2016	211.1	1016	179.4
Stimulation Of Labor	8386	131.9	4832	132.7	3319	129.6	1404	147.0	627	110.7
Tocolysis	458	7.2	257	7.1	193	7.5	70	7.3	41	7.2
Amniocentesis	213	3.3	141	3.9	66	2.6	20	2.1	80	14.1
Other	1490	23.4	497	13.6	951	37.1	284	29.7	113	20.0

⁺Rate per 1,000 mothers who had one or more live births during the calendar year. ⁺⁺⁺All races include White, Black and Other. 63674 women had at least one live birth during the calendar year. Live birth was 64,689 in 2003.

Table 2.35: Number[†] of Obstetric Procedures by Maternal Age and Race Louisiana, 2003

Obstetric Procedure	Race	Total	Maternal Age													45 & Older	Unk.
			Less than 15	15	16	17	18	19	15-19	20-24	25-29	30-34	35-39	40-44			
None	All	2707	14	22	42	67	106	145	382	948	654	447	216	42	****	0	
	White	1306	****	5	7	24	39	68	143	377	355	275	130	20	****	0	
	Black	1333	11	17	34	42	66	74	233	554	280	151	81	22	****	0	
	Other	68	0	0	****	****	****	****	6	17	19	21	5	0	0	0	
Amniocentesis	All	213	0	****	****	****	10	5	20	43	38	32	58	21	****	0	
	White	141	0	****	0	0	6	****	8	16	26	25	46	19	****	0	
	Black	66	0	****	****	****	****	****	12	27	10	6	9	****	0	0	
	Other	6	0	0	0	0	0	0	0	0	****	****	****	0	0	0	
Electronic Fetal Monitoring	All	55400	138	327	713	1447	2423	3081	7991	18055	14420	9811	4168	774	43	0	
	White	32872	23	88	214	588	1085	1430	3405	9617	9268	7081	2930	521	27	0	
	Black	21181	113	238	493	835	1316	1611	4493	8147	4757	2357	1074	225	15	0	
	Other	1347	****	****	6	24	22	40	93	291	395	373	164	28	****	0	
Induction of Labor	All	13256	23	69	197	376	590	761	1993	4451	3533	2240	857	151	8	0	
	White	8806	6	19	70	183	319	425	1016	2763	2547	1731	641	99	****	0	
	Black	4142	17	50	125	180	264	324	943	1607	902	433	188	47	5	0	
	Other	308	0	0	****	13	7	12	34	81	84	76	28	5	0	0	
Stimulation of labor	All	8386	23	66	121	255	429	510	1381	2855	2124	1376	527	95	5	0	
	White	4832	****	20	32	105	190	218	565	1496	1347	979	379	60	****	0	
	Black	3319	20	46	87	143	231	286	793	1313	702	336	123	30	****	0	
	Other	235	0	0	****	7	8	6	23	46	75	61	25	5	0	0	
Tocolysis	All	458	****	****	7	14	13	32	69	156	117	74	32	6	****	0	
	White	257	0	0	****	****	6	15	26	74	73	53	24	5	****	0	
	Black	193	****	****	6	10	7	16	42	79	42	19	8	****	****	0	
	Other	8	0	0	0	0	0	****	****	****	****	****	0	0	0	0	
Ultrasound	All	39921	114	219	518	1016	1692	2211	5656	12861	10489	7138	3068	568	27	0	
	White	23597	21	60	164	408	794	997	2423	6825	6698	5100	2127	387	16	0	
	Black	15299	92	156	350	594	884	1186	3170	5823	3497	1734	815	158	10	0	
	Other	1025	****	****	****	14	14	28	63	213	294	304	126	23	****	0	
Other	All	1490	8	16	33	49	83	95	276	519	370	204	90	22	****	0	
	White	497	0	****	****	7	21	17	48	150	149	98	42	10	0	0	
	Black	951	8	15	31	42	62	78	228	354	211	94	45	10	****	0	
	Other	42	0	0	0	0	0	0	0	15	10	12	****	****	0	0	
Unknown	All	86	0	0	0	****	5	****	10	16	17	13	18	6	****	****	
	White	54	0	0	0	0	****	****	****	11	13	6	12	****	****	****	
	Black	31	0	0	0	****	****	****	6	****	****	7	6	****	****	****	
	Other	****	0	0	0	0	0	0	0	****	0	0	0	0	0	0	

[†]This is a duplicated count. More than one procedure was noted on some birth certificates. 63,674 women had at least one live birth during the calendar year. **** Cells suppressed to protect confidentiality. Source: Louisiana State Center for Health Statistics.

Complications of Labor and/or Delivery

Complications of labor and/or delivery are recorded on the birth certificate by checking any of 15 listed complications, or specifying “none” or “other”. More than one complication can be recorded on a birth certificate.

Among the 63,674 women who had at least one live birth in 2003, no complications of labor and/or delivery were recorded in 48,299 cases (75.9%).

Table 2.36: Number¹ and Rates⁺ of Complications of Labor and/or Delivery by Maternal Race and Age Louisiana, 2003

Complication	All Ages						All Races ⁺⁺⁺			
	All Races ⁺⁺⁺		White		Black		Under 20		35 & Older	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
No complication noted	48299	759.7	28067	771.1	19044	743.7	6991	732.2	4301	759.8
Meconium, moderate / Heavy	1715	27.0	773	21.2	894	34.9	314	32.9	134	23.7
Fetal distress	1642	25.8	910	25.0	708	27.6	303	31.7	142	25.1
Breech / Malpresentation	1361	21.4	870	23.9	452	17.7	154	16.1	179	31.6
Cephalopelvic disproportion	877	13.8	571	15.7	286	11.2	190	19.9	60	10.6
Precipitous labor (< 3 hours)	655	10.3	197	5.4	442	17.3	78	8.2	63	11.1
Premature rupture of membrane	624	9.8	284	7.8	320	12.5	109	11.4	61	10.8
Dysfunctional labor	490	7.7	283	7.8	202	7.9	112	11.7	36	6.4
Febrile (> 100 °F)	452	7.1	208	5.7	229	8.9	128	13.4	27	4.8
Abruptio placenta	197	3.1	87	2.4	107	4.2	31	3.2	22	3.9
Prolonged labor (> 20 hours)	175	2.8	111	3.0	62	2.4	36	3.8	11	1.9
Cord prolapse	153	2.4	92	2.5	56	2.2	28	2.9	9	1.6
Placenta previa	114	1.8	80	2.2	30	1.2	5	0.5	20	3.5
Other excessive bleeding	107	1.7	60	1.6	44	1.7	20	2.1	8	1.4
Anesthetic complications	37	0.6	24	0.7	13	0.5	3	0.3	7	1.2
Seizures during labor	14	0.2	4	0.1	11	0.4	7	0.7	2	0.4

¹This is a duplicated count. More than one procedure was noted on some birth certificates. 63,674 women had at least one live birth during the calendar year.
⁺Rate per 1,000 mothers who had one or more live births during the calendar year. ⁺⁺⁺All Races includes White, Black and Other.
^{****} Cells suppressed to protect confidentiality. Source: Louisiana State Center for Health Statistics.

Table 2.37: Counts¹ of Complications of Labor and/or Delivery by Maternal Age and Race Louisiana, 2003

Complication	Race	Total	Maternal Age													Unk.
			Less than 15	15	16	17	18	19	15-19	20-24	25-29	30-34	35-39	40-44	45 & older	
No complication noted	All	48299	127	283	616	1214	2041	2710	6864	15876	12657	8474	3594	672	35	0
	White	28067	25	74	181	482	900	1230	2867	8169	7965	6049	2513	455	24	0
	Black	19044	102	207	428	713	1126	1445	3919	7460	4337	2083	941	192	10	0
	Other	1188	0	****	7	19	15	35	78	247	355	342	140	25	****	0
Febrile (>100 °F)	All	452	****	11	11	24	39	39	124	146	99	58	20	****	0	0
	White	208	****	****	****	6	13	16	38	64	52	37	15	****	0	0
	Black	229	****	10	9	18	25	23	85	76	43	18	****	****	0	0
	Other	15	0	0	0	0	****	0	****	6	****	****	****	0	0	0
Meconium, Moderate / Heavy	All	1715	10	20	36	47	87	114	304	607	403	257	111	22	****	0
	White	773	0	****	6	7	30	41	87	244	213	157	61	11	0	0
	Black	894	10	17	30	39	55	71	212	348	177	89	47	10	****	0
	Other	48	0	0	0	****	****	****	5	15	13	11	****	****	0	0
Premature rupture of membrane (>12 hours)	All	624	****	****	13	17	38	33	105	207	143	102	50	10	****	0
	White	284	****	****	****	6	14	13	35	91	67	53	32	****	****	0
	Black	320	****	****	12	11	24	20	70	107	72	44	17	5	****	0
	Other	20	0	0	0	0	0	0	0	9	****	5	****	****	0	0
Abruptio Placenta	All	197	****	****	****	****	9	12	30	59	50	35	18	****	0	0
	White	87	0	****	****	0	****	****	8	21	23	21	11	****	0	0
	Black	107	****	****	****	****	6	9	22	37	25	14	7	****	0	0
	Other	****	0	0	0	0	0	0	0	****	****	0	0	0	0	0

Table 2.37 continues on the next page.

Table 2.37: Counts¹ of Complications of Labor and/or Delivery by Maternal Age and Race (Continued)
Louisiana, 2003

Complication	Race	Total	Maternal Age														
			Less than 15	15	16	17	18	19	15-19	20-24	25-29	30-34	35-39	40-44	45 & older	Unk.	
Placenta previa	All	114	****	0	****	****	****	****	****	****	28	26	28	17	8	****	0
	White	80	0	0	****	0	****	****	****	****	18	15	23	14	6	****	0
	Black	30	****	0	0	0	0	0	0	0	9	11	****	****	****	****	0
	Other	****	0	0	0	****	0	0	0	****	****	0	****	****	0	0	0
Other excessive bleeding	All	107	****	****	****	****	5	8	19	38	29	12	7	****	0	0	
	White	60	0	****	****	****	****	6	12	20	18	7	****	****	0	0	
	Black	44	****	0	****	****	****	****	7	16	11	5	****	0	0	0	
	Other	****	0	0	0	0	0	0	0	****	0	0	****	0	0	0	
Seizures during labor	All	14	0	0	****	0	****	****	7	****	****	****	0	0	0	0	
	White	****	0	0	0	0	****	****	****	0	0	****	0	0	0	0	
	Black	11	0	0	****	0	****	****	5	****	****	0	0	0	0	0	
	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Precipitous labor (<3 hours)	All	655	****	****	9	12	23	26	74	254	168	94	50	13	0	0	
	White	197	0	****	0	****	6	7	18	63	57	41	15	****	0	0	
	Black	442	****	****	9	9	17	19	56	188	106	48	32	10	0	0	
	Other	16	0	0	0	0	0	0	0	****	5	5	****	0	0	0	
Prolonged labor (>20 hours)	All	175	0	****	6	****	8	15	35	55	43	31	8	****	****	0	
	White	111	0	0	****	****	****	9	19	34	28	24	5	****	0	0	
	Black	62	0	****	****	****	****	6	15	21	14	7	****	0	****	0	
	Other	****	0	0	****	0	0	0	****	0	****	0	0	0	0	0	
Dysfunctional labor	All	490	****	****	7	19	45	37	111	177	109	53	34	5	0	0	
	White	283	0	****	****	7	20	17	48	98	79	34	20	****	0	0	
	Black	202	****	****	****	12	25	20	63	77	27	19	14	****	0	0	
	Other	5	0	0	0	0	0	0	0	****	****	0	0	0	0	0	
Breech/ Malpresentation	All	1361	5	6	15	26	45	57	149	369	377	284	146	30	****	0	
	White	870	****	****	6	10	25	26	69	223	259	202	99	17	0	0	
	Black	452	****	****	9	16	20	31	80	138	112	63	41	13	****	0	
	Other	39	0	0	0	0	0	0	0	8	6	19	6	0	0	0	
Cephalopelvic disproportion	All	877	5	7	15	38	50	75	185	278	196	151	53	7	****	0	
	White	571	****	****	****	19	26	46	96	174	140	113	40	6	0	0	
	Black	286	****	6	11	19	24	29	89	101	48	31	11	****	****	0	
	Other	20	0	0	0	0	0	0	0	****	8	7	****	0	0		
Cord prolapse	All	153	0	0	****	6	****	15	27	52	42	25	6	****	0	0	
	White	92	0	0	0	****	****	7	9	31	27	19	6	0	0	0	
	Black	56	0	0	****	5	****	8	18	21	12	5	0	0	0	0	
	Other	5	0	0	0	0	0	0	0	0	****	****	0	****	0	0	
Anesthetic complications	All	37	0	0	0	0	****	****	****	10	9	9	****	****	0	0	
	White	24	0	0	0	0	0	****	****	5	9	7	****	0	0	0	
	Black	13	0	0	0	0	****	****	****	5	0	****	****	****	0	0	
	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Fetal distress	All	1642	6	12	29	56	88	115	300	569	378	247	124	17	****	0	
	White	910	****	6	9	24	38	60	137	305	222	161	74	10	0	0	
	Black	708	5	6	20	32	50	54	162	256	150	80	47	7	****	0	
	Other	24	0	0	0	0	0	****	****	8	6	6	****	0	0	0	

Table 2.37 continues on the next page.

**Table 2.37: Counts¹ of Complications of Labor and/or Delivery by Maternal Age and Race (Continued)
Louisiana, 2003**

Complication	Race	Total	Maternal Age													Unk.
			Less than 15	15	16	17	18	19	15-19	20-24	25-29	30-34	35-39	40-44	45 & older	
Other	All	9097	27	57	160	301	455	508	1481	2981	2249	1552	677	120	10	0
	White	5006	****	13	44	110	181	234	582	1544	1359	1020	429	63	6	0
	Black	3846	22	43	116	184	264	265	872	1378	822	473	221	54	****	0
	Other	245	****	****	0	7	10	9	27	59	68	59	27	****	0	0
Unknown	All	94	0	0	0	****	****	****	11	21	17	13	18	8	****	****
	White	64	0	0	0	****	****	****	5	14	14	8	13	6	****	****
	Black	29	0	0	0	****	****	****	6	6	****	5	5	****	****	****
	Other	****	0	0	0	0	0	0	0	****	0	0	0	0	0	0

¹This is a duplicated count. More than one procedure was noted on some birth certificates.
63,674 women had at least one live birth during the calendar year.

**** Cells suppressed to protect confidentiality. Source: Louisiana State Center for Health Statistics.

Method of Delivery

Final data for the year 2003 collected by the National Center for Health Statistics report that Louisiana had the third highest rate of cesarean deliveries in the country (31.7% of all live births), following Mississippi (32.5%) and New Jersey (33.1%).⁽¹⁰⁾ (Table 2.38 and Table 2.39).

**Table 2.38: Percent⁺ of Live Births by Cesarean Delivery by Maternal Age and Race
Louisiana, 2003**

Maternal Race	Maternal Age Group							All Ages
	Less than 20	20-24	25-29	30-34	35-39	40 & older		
All Races ^{***}	23.9	28.6	32.7	37.6	41.7	44.2	31.7	
White	25.3	28.9	32.9	37.4	41.0	43.0	32.8	
Black	23.0	28.3	32.6	38.7	43.3	46.4	30.3	

⁺Percents of live births in specified maternal age and race group (110 deliveries where method was not recorded are excluded).
^{***}All Races includes White, Black and Other. Source: Louisiana State Center for Health Statistics.

Table 2.39: Number¹ of Deliveries by Method of Delivery, and Maternal Age and Race Louisiana, 2003

Method	Race	Total	Maternal Age													
			Less than 15	15	16	17	18	19	15-19	20-24	25-29	30-34	35-39	40-44	45 & older	Unk.
Vaginal	All	40896	132	294	630	1207	1945	2502	6578	14089	10456	6558	2597	463	23	0
	White	22971	23	72	172	476	814	1108	2642	7124	6468	4615	1781	304	14	0
	Black	16898	108	219	453	713	1115	1364	3864	6721	3674	1665	715	143	8	0
	Other	1027	****	****	5	18	16	30	72	244	314	278	101	16	****	0
Vaginal / Forceps	All	984	****	****	23	29	64	67	187	334	229	150	68	13	****	0
	White	693	0	****	8	17	39	37	103	228	180	119	52	10	****	0
	Black	262	****	****	15	8	24	28	77	95	45	27	13	****	0	0
	Other	29	0	0	0	****	****	****	7	11	****	****	****	0	0	0
Vaginal / Forceps & Vacuum	All	24	0	0	0	0	****	****	5	7	5	****	****	****	0	0
	White	20	0	0	0	0	****	****	****	6	****	****	****	****	0	0
	Black	****	0	0	0	0	****	****	****	****	****	0	0	0	0	0
	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vaginal / Vacuum	All	1170	6	9	28	53	96	90	276	408	263	150	59	8	0	0
	White	691	****	****	7	17	45	42	114	228	187	111	46	****	0	0
	Black	449	****	6	21	33	50	46	156	172	70	32	11	****	0	0
	Other	30	0	0	0	****	****	****	6	8	6	7	****	****	0	0
Vaginal birth after previous C-Section	All	442	0	0	****	****	****	15	23	144	143	74	44	14	0	0
	White	185	0	0	0	0	****	****	****	37	58	47	29	10	0	0
	Black	247	0	0	****	****	****	12	19	104	80	26	14	****	0	0
	Other	10	0	0	0	0	0	0	0	****	5	****	****	0	0	0
Vaginal birth after previous C-Section / Forceps	All	17	0	0	0	0	0	0	0	****	8	6	****	****	0	0
	White	12	0	0	0	0	0	0	0	0	6	****	****	****	0	0
	Black	5	0	0	0	0	0	0	0	****	****	****	0	0	0	0
	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vaginal birth after Previous C-Section / Vacuum	All	8	0	0	0	****	0	****	****	****	****	****	0	0	0	0
	White	6	0	0	0	0	0	****	****	****	****	****	0	0	0	0
	Black	****	0	0	0	****	0	0	****	0	0	0	0	0	0	0
	Other	****	0	0	0	0	0	0	0	0	0	****	0	0	0	0
Primary C-Section	All	11283	41	84	181	346	567	723	1901	3619	2719	1908	890	188	17	0
	White	6749	6	24	59	137	272	377	869	2037	1788	1350	584	107	8	0
	Black	4264	34	60	119	207	289	339	1014	1529	847	487	267	77	9	0
	Other	270	****	0	****	****	6	7	18	53	84	71	39	****	0	0
Repeat C-Section	All	8493	0	0	6	30	98	175	309	2266	2527	2143	1047	192	9	0
	White	4957	0	0	****	6	36	59	102	1027	1500	1469	719	132	8	0
	Black	3341	0	0	5	24	61	113	203	1212	985	597	292	51	****	0
	Other	195	0	0	0	0	****	****	****	27	42	77	36	9	0	0
Unknown	All	357	****	****	8	23	35	25	95	106	63	37	37	11	****	****
	White	181	0	0	****	****	14	11	30	54	40	20	27	6	****	****
	Black	166	****	****	6	20	20	13	63	50	20	15	9	5	****	****
	Other	10	0	0	0	0	****	****	****	****	****	****	****	0	0	0

**** Cells suppressed to protect confidentiality. ¹ 63,674 women had at least one live birth during the calendar year. Source: Louisiana State Center for Health Statistics.

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- (7) Hack M, Klein NK and Talyor HG, "Long-term developmental outcomes of low birthweight infants" The Future of Children, 5 (Spring 1995); 19-34.
- (8) National Center for Health Statistics, "Report of Final Natality Statistics, 1995" Monthly Vital Statistics Report 45:11 (June 1997):16.
- (9) National Center for Health Statistics, " Births: Final Data for 2003" National Vital Statistics Report 54:2 (Sep. 2005) :87.
- (10) National Center for Health Statistics, " Births: Final Data for 2003" National Vital Statistics Report 54:2 (Sep. 2005):85.



SPONTANEOUS FETAL DEATHS

INTRODUCTION

A **fetal death** is the death of a human fetus that occurs prior to its expulsion or extraction from its mother, irrespective of the duration of pregnancy. In Louisiana, a **spontaneous fetal death** (also referred to as stillbirth) is a fetal death that meets these criteria:

1. The fetus survived at least 20 weeks gestation or weighed at least 350 grams, and
2. The death was not the result of an induced termination of pregnancy.

Purpose of Spontaneous Fetal Death Surveillance

As with infant mortality, a high rate of fetal deaths reflects unfavorable environmental influences and/or the unavailability of medical care. Compared with infant mortality, however, the factors contributing to fetal deaths have been studied less, therefore limiting the understanding of their etiology. The depth and quality found in fetal death data is not as good as that of live birth data.

Fetal death surveillance is important in the evaluation of adverse reproductive outcomes and in the identification of factors that result in such deaths. The goal of fetal death surveillance is the identification of high-risk populations and the development of risk-reducing interventions.

Source of Data: Certificate of Fetal Death (Stillbirth)

Spontaneous fetal death information presented in this report is gathered from data recorded on the *Certificate of Fetal Death* for spontaneous fetal deaths that occurred among pregnant Louisiana residents during 2003. The 1992 Revision of the Model State Vital Statistics Act and Regulations indicates that fetal deaths of at least 20 weeks gestation or 350 grams should be reported to the Vital Records Registry within 5 days of delivery, or as otherwise directed by the State Registrar. A physician or coroner in consultation with the parent(s) completes information on the fetal death certificate.⁽¹⁾

Death statistics are compiled in accordance with World Health Organization (WHO) regulations, which require member nations to classify causes of death according to the current revision of the International Classification of Disease, Injuries, and Causes of Death (ICD). Fetal deaths that occurred in 2002 are coded in accordance with the tenth revision (ICD-10).

All of the causes of death described in this report are **underlying causes of death**, defined as the disease or injury that initiated the sequence of events leading to death. Secondary causes of death, which are also recorded on the death certificate, are not presented in this report.

The degree of registration completeness for spontaneous fetal deaths is unknown, but some under-registration is likely, especially for fetal deaths near 20 weeks gestation or less than 500 grams weight at delivery. However, reporting is believed to be relatively complete and more reliable for fetal deaths at a gestation of 28 weeks or more.

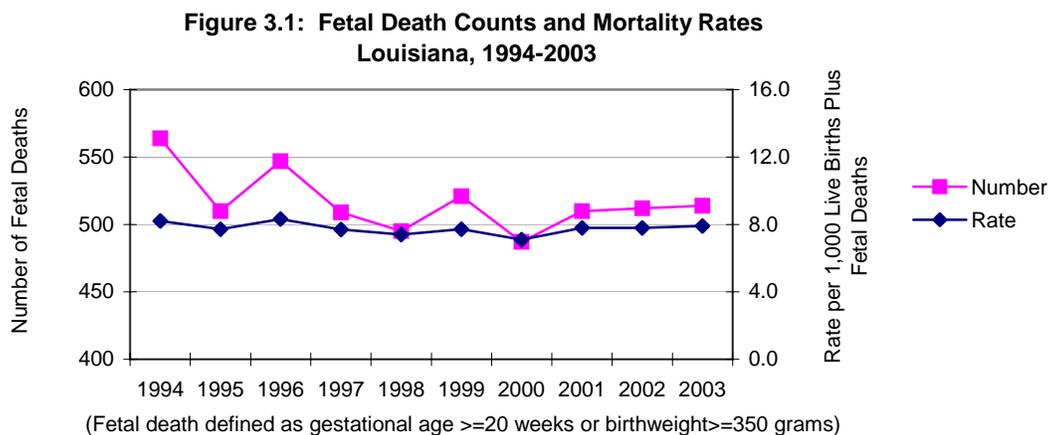
FETAL DEATH COUNTS AND RATES

In 2003, 541 fetal deaths were reported to the Vital Records Registry, with 514 of these deaths meeting Louisiana's definition⁽²⁾ of a spontaneous fetal death (i.e., the fetus survived at least 20 weeks gestation or weighed at least 350 grams).

Twenty-seven fetal deaths that failed to meet these criteria have been excluded from analysis. They are included, however, in Table 3.8: Causes of Fetal Deaths (page 53) and in the parish and region tables 19-A and 19-B on the web.

Louisiana's 2003 fetal mortality rate was 7.9 fetal deaths per 1,000 live births plus fetal deaths (Figure 3.1, Table 3.1).

Gestational ages reported for Louisiana fetal deaths occurring in 1995 or later are derived by using the National Center for Health Statistics' (NCHS' s) formula for the calculation of gestational age. This formula calculates gestational age by combining information collected in the "Date Last Normal Menses Began" and "Clinical Estimate of Gestation" sections of the Louisiana *Certificate of Fetal Death (Stillbirth)*. It also takes into account the fetal birthweight relative to gestational age.⁽³⁾ Prior to 1995, "Clinical Estimate of Gestation" was not recorded on Louisiana's fetal death certificates. Therefore, gestational ages reported for the years prior to 1995 are calculated by subtracting the "Date Last Normal Menses Began" from the "Date of Delivery", as recorded on the certificates. NCHS reports national fetal death information and uses only gestational age at least 20 weeks in its definition of fetal death. To facilitate comparison between Louisiana and the United States, fetal death data based on the NCHS definition are used in all Louisiana and United States data presentations.



**Table 3.1 Number and Rates of Fetal Deaths
Louisiana, 1994-2003**

Year	Number	Rate ⁺
1994	564	8.2
1995	510	7.7
1996	547	8.3
1997	509	7.7
1998	495	7.4
1999	521	7.7
2000	487	7.1
2001	510	7.8
2002	512	7.8
2003	514	7.9

⁺Rate per 1,000 live births plus fetal deaths. Fetal death defined as gestational age \geq 20 weeks or birthweight \geq 350 grams)

**Table 3.2 Fetal Mortality Rates
Louisiana and United States, 1994-2003**

Year	Louisiana ⁺	United States
1994	7.9	7.0
1995	7.4	7.0
1996	8.0	6.9
1997	7.5	6.8
1998	7.1	6.7
1999	7.5	6.7
2000	6.9	6.6
2001	7.6	6.5
2002	7.7	6.4
2003	7.1	6.2

⁺ Fetal death defined as (United States standards) gestational age \geq 20 weeks.

Note: Louisiana rates in this table will differ from those mentioned elsewhere in this section, since fetal death is defined here by United States standards, rather than Louisiana standards (gestational age \geq 20 weeks or birthweight \geq 350 grams), in order to allow for comparison with the national rates.

Source: Louisiana State Center for Health Statistics, National Center for Health Statistics

MATERNAL PROFILE

Race and Age of Mother

As with the overall fetal mortality rate, rates of fetal deaths by race in Louisiana have changed little over the past decade. Rates among blacks in the state have been consistently higher than those for whites from 1992 to 2003 but have been lower than corresponding national rates during the same period (Table 3.3 and 3.4).

**Table 3.3 Fetal Mortality Rates* by Maternal Race
Louisiana, 1994-2003**

Year	All Races ⁺⁺⁺		White		Black	
	Number	Rate	Number	Rate	Number	Rate
1994	564	8.2	223	5.9	336	11.6
1995	510	7.7	215	5.7	286	10.6
1996	547	8.3	236	6.3	300	11.2
1997	509	7.7	220	5.8	276	10.1
1998	495	7.4	203	5.3	269	9.7
1999	521	7.7	215	5.6	288	10.5
2000	487	7.1	217	5.7	263	9.2
2001	510	7.8	211	5.7	288	10.6
2002	512	7.8	209	5.7	296	11.0
2003	514	7.9	209	5.6	296	11.2

*Rate per 1,000 live births plus fetal deaths in race group.

Fetal death defined as gestational age ≥ 20 weeks or birthweight ≥ 350 grams

⁺⁺⁺ All Races includes white, black, other and unknown

Rates for whites in Louisiana during the past ten years have mirrored closely the corresponding national rates. Because of differences between state and national distributions of race, Louisiana's overall rates have been slightly higher than overall national rates during the past decade (Table 3.4).

**Table 3.4 Fetal Mortality Rates by Maternal Race
Louisiana and United States, 1994-2003**

Year	Louisiana			United States		
	All Races ⁺⁺⁺	White	Black	All Races ⁺⁺⁺	White	Black
1994	7.9	5.6	11.0	7.0	6.0	12.5
1995	7.4	5.5	10.2	7.0	5.9	12.7
1996	8.0	6.2	10.8	6.9	5.9	12.5
1997	7.5	5.8	9.8	6.8	5.8	12.5
1998	7.1	5.2	9.4	6.7	5.7	12.3
1999	7.5	5.4	10.2	6.7	5.7	12.6
2000	6.9	5.5	9.0	6.6	5.6	12.4
2001	7.6	5.6	10.2	6.5	5.5	12.1
2002	7.7	5.5	10.9	6.4	5.5	11.9
2003	7.9	5.6	11.2	6.2	4.9	11.6

*Rate per 1,000 live births plus fetal deaths. Fetal death defined as gestational age ≥ 20 weeks.

⁺⁺⁺ All Races includes white, black, other and unknown

Note: Louisiana rates in this table will differ from those listed in Table 3.2, given that fetal death is defined here by United States standards, rather than Louisiana standards.

Source: Louisiana State Center for Health Statistics, National Center for Health Statistics

Table 3.5 Fetal Mortality Counts and Rates[†] by Maternal Race and Age Louisiana, 2003

Race	Less than 20		20-24		25-29		30-34		35 & Older		All Ages	
	Num.	Rate	Num.	Rate	Num.	Rate	Num.	Rate	Num.	Rate	Num.	Rate
All Races ⁺⁺⁺	98	10.1	144	6.7	111	6.6	87	7.7	65	11.1	514	7.9
White	25	6.3	54	5.0	50	4.8	44	5.5	31	7.8	209	5.6
Black	73	12.9	89	8.8	57	9.7	41	13.9	32	18.9	296	11.2

[†]Rate per 1,000 live births plus fetal deaths. Fetal death defined as gestational age >=20 weeks or birthweight >=350 grams.

⁺⁺⁺ All Races includes white, black, other and unknown. All Ages contains age unknown.

Prenatal Care

Prenatal care is recognized as an important means of identifying women at high risk of adverse pregnancy outcomes, such as infant mortality and low birthweight, and providing appropriate medical, nutritional, and educational interventions to reduce their risk. Assessing the role of prenatal care in fetal mortality, however, is complicated by differences among women with regard to health and behavior, trimester of entry into prenatal care, and opportunity to obtain prenatal care because of shortened length of pregnancy. Furthermore, fetal death certificates include limited information on prenatal care and do not assess the quality of such care.

For the purpose of this report, “no prenatal care” is defined as reporting no prenatal visits during the pregnancy. “Any prenatal care” refers to live births for which the mother had at least one prenatal care visit (Table 3.6).

Table 3.6 Number and Rates[†] of Fetal Deaths by Prenatal Care Status and Race Louisiana, 2003

Race	No Care		Any Care	
	Number	Rate	Number	Rate
All Races ⁺⁺⁺	44	47.4	432	6.7
White	--	--	187	5.1
Black	34	48.9	237	9.3

[†]Rate of occurrence per 1,000 live births plus fetal deaths in specified group.

⁺⁺⁺ All Races includes white, black, other and unknown.

^{****} Cell suppressed to protect confidentiality.

--“ Indicates rate is unstable due to small number (<20) of fetal deaths

Fetal Death defined as gestational age >= 20 weeks or birthweight >= 350 grams

Review of fetal deaths in the year 2003 with regard to prenatal care by race and age resulted in counts smaller than 20, which are not sufficient to calculate stable rates.

Medical Risk Factors for Complications of Pregnancy

In 1994, Louisiana began collecting information describing medical risk factors for complications of pregnancy. Because reporting of medical conditions is believed to be incomplete for fetal deaths, caution should be exercised when evaluating these data.

Of the 514 fetal deaths reported in the year 2003, 242 (47.1%) reported no medical risk factors. Sixteen percent of pregnancies terminating in fetal death was associated with risk factors which were not pre-defined by the categories presented in this report (Table 3.7).

Table 3.7 Number of Fetal Deaths by Medical Risk Factors for Complications of Pregnancy and Maternal Race, Louisiana , 2003

Medical Risk Factor for Complications of Pregnancy	All Races ⁺⁺⁺	White	Black
No Medical Risk Factor Noted	242	111	125
Anemia (Hct <30 / Hgb <10)	42	13	29
Incompetent Cervix	22	6	16
Hydroamnios / Oligohydroamnios	20	8	12
Hypertension, Chronic	20	8	12
Hypertension, Pregnancy Associated	19	8	11
Diabetes	17	****	13
Previous Preterm Or Small For Gestational Age Infant	13	6	7
Uterine Bleeding	7	****	****
Previous Infant >=4000 Grams	****	****	****
Acute Or Chronic Lung Disease	****	****	****
Genital Herpes	****	****	0
Rh Sensitization	****	****	****
Renal Disease	****	0	****
Other	83	26	56

Fetal deaths defined as gestational age >=20 weeks or birthweight >=350grams

⁺⁺⁺ All Races includes white, black, other and unknown. **** Cell suppressed to protect confidentiality.

Tobacco and Alcohol Use during Pregnancy

At the time of delivery, women report on tobacco and alcohol use during the pregnancy. Although this information is derived from the fetal death certificate, it should be evaluated with caution because it is subject to error from inaccurate maternal recall. Additionally, both tobacco and alcohol usage are dichotomous categories which do not account for different levels of usage.

As examination of tobacco and alcohol use for 2003 resulted in small counts (less than 20), so data were not sufficient to calculate stable rates.

CAUSE OF FETAL DEATH

Given that several factors may contribute to fetal deaths, cause-of-death analyses are important for examining preventable risks. One major limitation of using the cause-of-death data from fetal death certificates is that many fetuses that die are not autopsied or otherwise evaluated, resulting in implausible or misclassified causes of death. Evaluations of fetuses also tend to report

cause of death in such a way that the fetus falls in a “catch-all” or non-specific category that prohibits in-depth analysis. For instance, 26.6% of the 541 fetal deaths reported in Louisiana in 2003 were classified under “Other conditions originating in the perinatal period.” Around 26.2% of the fetal deaths were classified under “Fetal death of unspecified cause”.

Fetal deaths described in this section include all fetal deaths reported to the Vital Records Registry in 2003, regardless of gestational age or birthweight.

The leading cause of fetal death was “Certain conditions originating in the perinatal period”, the most frequent of these being “fetus affected by complications of placenta, cord and membranes”.

Table 3.8 summarizes all fetal deaths reported to Louisiana in 2003 by cause, maternal age, and maternal race.

Table 3.8 Number and Ratio⁺ of Reported Fetal Deaths by Selected Causes of Death and Race of Mother, Louisiana, 2003

Cause of Death ICD-10 Code	Race	Ratio ⁺	All
All causes	ALL	836.3	541
	WHITE	609.7	226
	BLACK	1172	305
	OTHER	625.4	10
Certain infectious and parasitic diseases (A00-B99)	ALL	1.5	****
	WHITE	0	0
	BLACK	3.8	****
	OTHER	0	0
Congenital syphilis (A50)	ALL	1.5	****
	WHITE	0	0
	BLACK	3.8	****
	OTHER	0	0
In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48)	ALL	3.1	****
	WHITE	5.4	****
	BLACK	0	0
	OTHER	0	0
Certain conditions originating in the perinatal period (P00-P96)	ALL	763.7	494
	WHITE	539.6	200
	BLACK	1099	286
	OTHER	500.3	8
Fetus affected by maternal conditions that may be unrelated to present pregnancy (P00)	ALL	41.7	27
	WHITE	16.2	6
	BLACK	80.7	21
	OTHER	0	0
Fetus affected by maternal hypertensive disorders (P00.0)	ALL	35.6	23
	WHITE	10.8	****
	BLACK	73	19
	OTHER	0	0
Fetus affected by maternal renal and urinary tract diseases (P00.1)	ALL	1.5	****
	WHITE	0	0
	BLACK	3.8	****
	OTHER	0	0
Fetus affected by maternal injury (P00.5)	ALL	3.1	****
	WHITE	2.7	****
	BLACK	3.8	****
	OTHER	0	0

Table 3.8 continues on the next page.

Table 3.8 Number and Ratio⁺ of Reported Fetal Deaths by Selected Causes of Death and Race of Mother, Louisiana, 2003

Cause of Death ICD-10 Code	Race	Ratio ⁺	All
Fetus affected by other medical procedures and maternal conditions (P00.7-P00.8)	ALL	1.5	****
	WHITE	2.7	****
	BLACK	0	0
	OTHER	0	0
Fetus affected by maternal complications of pregnancy (P01)	ALL	115.9	75
	WHITE	72.8	27
	BLACK	184.4	48
	OTHER	0	0
Fetus affected by incompetent cervix (P01.0)	ALL	23.2	15
	WHITE	5.4	****
	BLACK	50	13
	OTHER	0	0
Fetus affected by premature rupture of membranes (P01.1)	ALL	75.7	49
	WHITE	59.4	22
	BLACK	103.8	27
	OTHER	0	0
Fetus affected by oligohydramnios (P01.2)	ALL	1.5	****
	WHITE	2.7	****
	BLACK	0	0
	OTHER	0	0
Fetus affected by multiple pregnancy (P01.5)	ALL	4.6	****
	WHITE	0	0
	BLACK	11.5	****
	OTHER	0	0
Fetus affected by other and unspecified maternal complications of pregnancy (P01.8-P01.9)	ALL	10.8	7
	WHITE	5.4	****
	BLACK	19.2	5
	OTHER	0	0
Fetus affected by complications of placenta, cord and membranes (P02)	ALL	233.4	151
	WHITE	210.4	78
	BLACK	269	70
	OTHER	187.6	****
Fetus affected by other forms of placental separation and hemorrhage (P02.1)	ALL	86.6	56
	WHITE	75.5	28
	BLACK	103.8	27
	OTHER	62.5	****
Fetus affected by other and unspecified morphological and functional abnormalities of placenta (P02.2)	ALL	21.6	14
	WHITE	27	10
	BLACK	15.4	****
	OTHER	0	0
Fetus affected by placental transfusion syndromes (P02.3)	ALL	9.3	6
	WHITE	10.8	****
	BLACK	0	0
	OTHER	125.1	****
Fetus affected by prolapsed cord (P02.4)	ALL	1.5	****
	WHITE	2.7	****
	BLACK	0	0
	OTHER	0	0
Fetus affected by other compression of umbilical cord (P02.5)	ALL	54.1	35
	WHITE	56.7	21
	BLACK	53.8	14
	OTHER	0	0
Fetus affected by other and unspecified conditions of umbilical cord (P02.6)	ALL	23.2	15
	WHITE	24.3	9
	BLACK	23.1	6
	OTHER	0	0

Table 3.8 continues on the next page.

Table 3.8 Number and Ratio⁺ of Reported Fetal Deaths by Selected Causes of Death and Race of Mother, Louisiana, 2003

Cause of Death ICD-10 Code	Race	Ratio ⁺	All
Fetus affected by chorioamnionitis (P02.7)	ALL	37.1	24
	WHITE	13.5	5
	BLACK	73	19
	OTHER	0	0
Fetus affected by noxious influences transmitted via placenta (P04)	ALL	10.8	7
	WHITE	0	0
	BLACK	26.9	7
	OTHER	0	0
Slow fetal growth and fetal malnutrition (P05)	ALL	1.5	****
	WHITE	0	0
	BLACK	3.8	****
	OTHER	0	0
Disorders related to short gestation and low birth weight, not elsewhere classified (P07)	ALL	85	55
	WHITE	40.5	15
	BLACK	153.7	40
	OTHER	0	0
Extremely low birth weight or extreme immaturity (P07.0,P07.2)	ALL	37.1	24
	WHITE	16.2	6
	BLACK	69.2	18
	OTHER	0	0
Other low birth weight and preterm (P07.1,P07.3)	ALL	47.9	31
	WHITE	24.3	9
	BLACK	84.5	22
	OTHER	0	0
Intrauterine hypoxia and birth asphyxia (P20-P21)	ALL	3.1	****
	WHITE	5.4	****
	BLACK	0	0
	OTHER	0	0
Intrauterine hypoxia, unspecified (P20.9)	ALL	3.1	****
	WHITE	5.4	****
	BLACK	0	0
	OTHER	0	0
Infections specific to the perinatal period (P35-P39)	ALL	12.4	8
	WHITE	8.1	****
	BLACK	19.2	5
	OTHER	0	0
Congenital viral hepatitis (P35.3)	ALL	1.5	****
	WHITE	0	0
	BLACK	3.8	****
	OTHER	0	0
Bacterial sepsis (P36)	ALL	3.1	****
	WHITE	5.4	****
	BLACK	0	0
	OTHER	0	0
Other infections specific to the perinatal period (P35.8-P35.9,P37.2-P37.9,P38-P39)	ALL	7.7	5
	WHITE	2.7	****
	BLACK	15.4	****
	OTHER	0	0
Transitory endocrine and metabolic disorders specific to fetus (P70-P74)	ALL	7.7	5
	WHITE	5.4	****
	BLACK	7.7	****
	OTHER	62.5	****
Syndrome of infant of a diabetic mother and neonatal diabetes mellitus (P70.0-P70.2)	ALL	7.7	5
	WHITE	5.4	****
	BLACK	7.7	****
	OTHER	62.5	****

Table 3.8 continues on the next page.

Table 3.8 Number and Ratio⁺ of Reported Fetal Deaths by Selected Causes of Death and Race of Mother, Louisiana, 2003

Cause of Death ICD-10 Code	Race	Ratio ⁺	All
Other conditions originating in the perinatal period (P80-P96)	ALL	222.6	144
	WHITE	161.9	60
	BLACK	307.4	80
	OTHER	250.2	****
Hydrops fetalis not due to hemolytic disease (P83.2)	ALL	3.1	****
	WHITE	5.4	****
	BLACK	0	0
	OTHER	0	0
Fetal death of unspecified cause (P95)	ALL	219.5	142
	WHITE	156.5	58
	BLACK	307.4	80
	OTHER	250.2	****
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	ALL	68	44
	WHITE	64.7	24
	BLACK	69.2	18
	OTHER	125.1	****
Congenital malformations of nervous system (Q00-Q07)	ALL	13.9	9
	WHITE	16.2	6
	BLACK	11.5	****
	OTHER	0	0
Anencephaly and similar malformations (Q00)	ALL	13.9	9
	WHITE	16.2	6
	BLACK	11.5	****
	OTHER	0	0
Congenital malformations of heart (Q20-Q24)	ALL	4.6	****
	WHITE	2.7	****
	BLACK	3.8	****
	OTHER	62.5	****
Congenital malformations of urinary system (Q60-Q64)	ALL	1.5	****
	WHITE	2.7	****
	BLACK	0	0
	OTHER	0	0
Cystic kidney disease (Q61)	ALL	1.5	****
	WHITE	2.7	****
	BLACK	0	0
	OTHER	0	0
Congenital malformations and deformations of musculoskeletal system, limbs and integument (Q65-Q85)	ALL	1.5	****
	WHITE	0	0
	BLACK	3.8	****
	OTHER	0	0
Other congenital malformations (Q86-Q89)	ALL	26.3	17
	WHITE	16.2	6
	BLACK	38.4	10
	OTHER	62.5	****
Multiple congenital malformations, not elsewhere classified (Q89.7)	ALL	24.7	16
	WHITE	13.5	5
	BLACK	38.4	10
	OTHER	62.5	****
All other congenital malformations (Q86-Q87, Q89.0-Q89.3, Q89.8-Q89.9)	ALL	1.5	****
	WHITE	2.7	****
	BLACK	0	0
	OTHER	0	0
Chromosomal abnormalities, not elsewhere classified (Q90-Q99)	ALL	20.1	13
	WHITE	27	10
	BLACK	11.5	****
	OTHER	0	0

Table 3.8 continues on the next page.

Table 3.8 Number and Ratio⁺ of Reported Fetal Deaths by Selected Causes of Death and Race of Mother, Louisiana, 2003

Cause of Death ICD-10 Code	Race	Ratio ⁺	All
Down's syndrome (Q90)	ALL	1.5	****
	WHITE	0	0
	BLACK	3.8	****
	OTHER	0	0
Edward's syndrome (Q91.0-Q91.3)	ALL	4.6	****
	WHITE	2.7	****
	BLACK	7.7	****
	OTHER	0	0
Patau's syndrome (Q91.4-Q91.7)	ALL	3.1	****
	WHITE	5.4	****
	BLACK	0	0
	OTHER	0	0
Other chromosomal abnormalities, not elsewhere classified (Q92-Q99)	ALL	10.8	7
	WHITE	18.9	7
	BLACK	0	0
	OTHER	0	0

+Ratio per 100,000 live births.

**** ***** Cell suppressed to protect confidentiality.

Note: Not all selected causes of death are listed in Table 3.8 as some did not contain any counts. The complete list of selected causes for Table 3.8 may be found in the "Technical Notes Section".

References:

⁽¹⁾ National Center for Health Statistics, Model State Vital Statistics Act and Regulations (1992 Revision):8.

⁽²⁾ National Center for Health Statistics, "State definitions and reporting requirements for live births, fetal deaths and induced terminations of pregnancy"(1997 Revision):28.

⁽³⁾ National Center for Health Statistics, "Instruction Manual Part 12" (1993):33-35.



INDUCED TERMINATIONS OF PREGNANCY

INTRODUCTION

Purpose of Induced Termination of Pregnancy Surveillance

An **induced termination (abortion)** is the intentional interruption of a pregnancy with the objective of preventing a live birth. Abortion surveillance provides information that is useful in identifying population groups experiencing unintended pregnancies, and in targeting pregnancy prevention programs.

Source of Data: Report of Induced Termination of Pregnancy

Induced termination information presented in this report is gathered from data recorded on the *Report of Induced Termination of Pregnancy* forms that were filed for abortions performed in Louisiana in the 2003 calendar year. State law requires that the attending physician report each induced termination of pregnancy he/she performs to the Vital Records Registry in New Orleans within 15 days of the procedure.

No accurate counts of the number of terminations among Louisiana residents are available. Counts used in this chapter represent terminations that occurred in Louisiana, and include out-of-state residents who obtained induced terminations in Louisiana.

Induced Termination Counts

There were 10,642 induced terminations of pregnancy reported in Louisiana in 2003. The age group encompassing women 20-24 years is historically the group with the highest number of abortions; in 2003, women in this age group accounted for more than one-third (36.6%) of all abortions (Table 4.1).

Table 4.1 Counts of Induced Terminations of Pregnancy by Age Group Occurring in Louisiana, 1994-2003

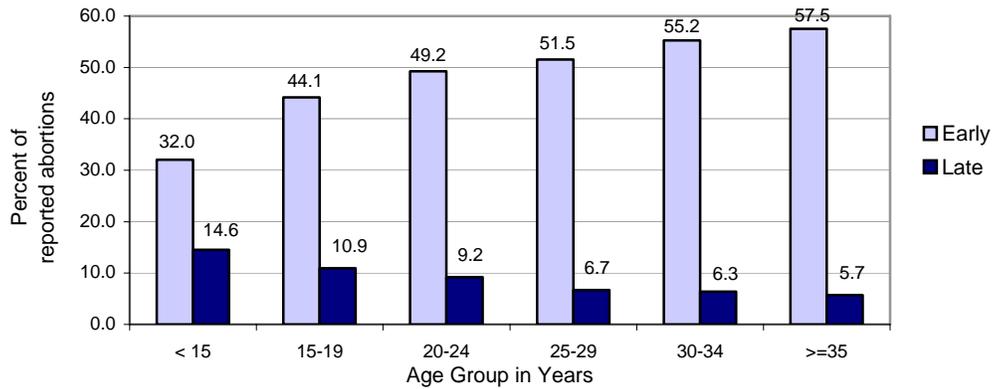
Year	Total	Age Groups in Years								
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 & Older	Unknown
1994	12154	169	2500	4215	2505	1517	929	257	17	45
1995	11491	141	2333	3895	2428	1468	936	226	11	53
1996	11884	143	2489	4083	2553	1417	876	262	16	45
1997	11739	147	2285	4087	2650	1375	849	265	22	59
1998	11351	120	2238	3818	2538	1386	829	262	13	147
1999	12008	103	2234	4253	2761	1435	903	236	13	70
2000	11384	115	2045	4133	2618	1364	800	238	7	64
2001	10932	85	1868	4001	2611	1378	700	238	13	38
2002	10451	97	1765	3794	2430	1325	728	224	18	70
2003	10642	103	1767	3899	2475	1356	692	266	12	72

Source: Louisiana State Center for Health Statistics.

An **early abortion** is performed at or before 8 weeks gestation, while a **late abortion** is performed at or after 16 weeks gestation. In 2003, there were 5,358 early abortions reported in Louisiana, which accounted for 50.3% of all abortions reported.

The 879 reported late abortions comprised 8.3% of the total reported (Table 4.3). Younger women (under age 20 years) were more likely to obtain late abortions than older women (over 20 years) were. (Figure 4.1 and Table 4.3).

Figure 4.1: Percent of Women Obtaining Early* or Late Abortions by Age Group, Occurring in Louisiana, 2003**



* Early abortion: performed at or before 8 weeks gestation
 ** Late abortion: performed at or after 16 weeks gestation

The suction procedure was used in 87.8% of reported abortions in Louisiana in 2003 (Table 4.2).

Table 4.2 Induced Terminations of Pregnancy by Weeks of Gestation and Type of Procedure, Occurring in Louisiana, 2003

Weeks of Gestation	Total	Curettage		Hysterectomy	Dilation and Evacuation	Other	Unknown
		Suction	Sharp				
All	10642	9347	15	****	337	791	150
8 & under	5358	4506	7	0	31	731	83
9	1172	1143	****	0	12	0	16
10	944	921	****	0	5	****	16
11	670	658	****	0	****	0	8
12	465	447	****	0	8	****	6
13	488	479	0	0	****	****	****
14	280	269	0	0	6	****	****
15	228	224	****	0	****	0	****
16	165	118	0	****	43	0	****
17	118	85	0	0	31	****	0
18	97	54	0	0	38	****	****
19	125	74	0	0	49	0	****
20	99	71	0	0	25	****	****
21 & over	275	187	0	****	81	****	****
Unknown	158	111	0	0	****	43	****

Source: Louisiana State Center for Health Statistics. **** Count is greater than 0 and less than 5. Some procedures, including Intrauterine Instillation (Saline, Prostaglandin) and Hysterotomy were not included in the table as their count was 0.

Table 4.3 Number of Induced Terminations of Pregnancy by Weeks of Gestation, Age, Race, and Marital Status Occurring in Louisiana, 2003

Weeks of Gestation	Race	Total	Age Groups in Years									Marital Status		
			Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 & Older	Unk.	Married	Unmarried	Unknown
All	All	10642	103	1767	3899	2475	1356	692	266	12	72	683	4513	5446
	White	4316	35	753	1560	900	575	334	132	****	23	375	2060	1881
	Black & Other	5623	61	882	2086	1431	695	313	108	7	40	228	1985	3410
	Unknown	703	7	132	253	144	86	45	26	****	9	80	468	155
8 & Under	All	5358	33	780	1920	1275	749	382	170	6	43	379	2258	2721
	White	2333	10	377	840	476	320	196	94	****	17	212	1104	1017
	Black & Other	2759	23	369	986	739	386	167	65	****	22	129	1000	1630
	Unknown	266	0	34	94	60	43	19	11	****	****	38	154	74
9	All	1172	9	191	386	292	169	94	24	****	****	79	518	575
	White	484	****	91	151	107	81	41	10	0	0	47	253	184
	Black & Other	599	6	81	210	162	76	44	14	****	****	19	203	377
	Unknown	89	0	19	25	23	12	9	0	0	****	13	62	14
10	All	944	11	153	382	211	104	62	17	0	****	60	432	452
	White	329	5	60	133	64	43	20	****	0	0	23	177	129
	Black & Other	554	5	82	222	139	56	36	10	0	****	28	210	316
	Unknown	61	****	11	27	8	5	6	****	0	0	9	45	7
11	All	670	11	134	252	154	73	29	13	0	****	28	260	382
	White	249	5	60	88	45	26	17	6	0	****	13	108	128
	Black & Other	366	6	60	147	94	42	10	5	0	****	9	112	245
	Unknown	55	0	14	17	15	5	****	****	0	0	6	40	9
12	All	465	5	106	167	99	53	23	9	0	****	26	214	225
	White	189	****	44	61	41	24	12	****	0	0	18	89	82
	Black & Other	247	****	54	95	55	28	10	****	0	****	6	102	139
	Unknown	29	0	8	11	****	****	****	****	0	****	****	23	****
13	All	488	5	86	180	121	57	26	6	****	6	17	158	313
	White	163	****	26	60	41	21	9	****	0	****	8	65	90
	Black & Other	298	****	53	114	76	31	16	****	****	****	8	74	216
	Unknown	27	****	7	6	****	5	****	****	0	****	****	19	7
14	All	280	6	57	104	66	27	12	6	0	****	14	78	188
	White	107	0	25	33	26	11	8	****	0	****	7	37	63
	Black & Other	158	5	29	65	37	14	****	****	0	****	5	34	119
	Unknown	15	****	****	6	****	****	0	0	0	0	****	7	6
15	All	228	****	49	94	45	19	12	****	****	0	9	80	139
	White	80	****	21	29	16	5	5	****	0	0	7	34	39
	Black & Other	137	****	26	60	27	12	7	****	****	0	****	38	98
	Unknown	11	0	****	5	****	****	0	0	0	0	****	8	****
16	All	165	****	40	76	28	12	6	****	0	0	****	57	107
	White	56	****	12	28	8	****	****	****	0	0	****	29	26
	Black & Other	103	****	28	44	18	9	****	0	0	0	0	23	80
	Unknown	6	0	0	****	****	0	0	0	0	0	0	5	****

Table 4.3 Number of Induced Terminations of Pregnancy by Weeks of Gestation, Age, Race, and Marital Status Occurring in Louisiana, 2003

Weeks of Gestation	Race	Total	Age Groups in Years								Marital Status			
			Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 & Older	Unk.	Married	Unmarried	Unknown
17	All	118	****	24	48	26	10	6	0	****	****	8	56	54
	White	43	****	7	19	5	6	****	0	****	0	5	21	17
	Black & Other	61	****	13	25	16	****	****	0	0	****	****	24	35
	Unknown	14	0	****	****	5	0	****	0	0	0	****	11	****
18	All	97	****	17	41	22	9	****	****	0	0	9	45	43
	White	34	****	****	15	8	5	****	****	0	0	5	19	10
	Black & Other	54	0	12	22	13	****	****	****	0	0	****	19	31
	Unknown	9	0	****	****	****	****	0	****	0	0	0	7	****
19	All	125	****	26	43	28	12	11	****	0	****	14	59	52
	White	44	0	5	17	10	6	6	0	0	0	7	21	16
	Black & Other	55	****	16	18	10	5	****	0	0	****	****	23	28
	Unknown	26	0	5	8	8	****	****	****	0	****	****	15	8
20	All	99	****	17	40	23	15	****	****	0	0	9	64	26
	White	42	0	5	17	11	7	****	****	0	0	****	30	9
	Black & Other	45	****	11	16	10	6	0	****	0	0	6	24	15
	Unknown	12	0	****	7	****	****	0	0	0	0	0	10	****
21 & Over	All	275	8	69	111	39	28	14	****	0	****	20	151	104
	White	101	0	12	46	22	12	5	****	0	****	13	51	37
	Black & Other	120	5	41	42	13	12	6	****	0	0	5	60	55
	Unknown	54	****	16	23	****	****	****	0	0	****	****	40	12
Unknown	All	158	****	18	55	46	19	10	5	0	****	10	83	65
	White	62	****	5	23	20	5	6	****	0	0	6	22	34
	Black & Other	67	****	7	20	22	11	****	****	0	****	****	39	26
	Unknown	29	****	6	12	****	****	****	****	0	0	****	22	5

Source: Louisiana State Center for Health Statistics. **** Count is greater than 0 and less than 5.

Induced Terminations by Parish of Occurrence and Marital Status

In 2003, Louisiana has 10,761 Induced Terminations of Pregnancy reported. 714 of them were married women and 4,601 were unmarried. Marital Status was not known in 5,446 cases.

Table 4.4 Number of Induced Terminations of Pregnancy by Parish of Occurrence and Marital Status, Louisiana 2003

Parish	Married	Unmarried	Unknown	All
Bossier	104	583	49	736
Caddo	****	****	3110	3115
East Baton Rouge	134	873	89	1096
Jefferson	324	1997	147	2468
Orleans	118	1058	2051	3227
State Total	714	4601	5446	10761
Out of State	31	88	-	119

Source: Louisiana State Center for Health Statistics. **** Count is greater than 0 and less than 5.



DEATHS

INTRODUCTION

Purpose of Death Surveillance

In addition to serving as the legal records of death, death certificates provide surveillance information used to describe patterns of death by gender, race, age, and cause of death. Monitoring of differences in death patterns within and among demographic groups permits identification of persons at high risk of death from specific diseases and injuries. This type of monitoring makes it possible for communities, healthcare providers, researchers, and government agencies to target resources where they are most effective in reducing the risks of mortality.

Source of Data: Certificate of Death

Mortality information presented in this report is gathered from data recorded on the *Certificate of Death* for Louisiana residents who died in the 2003 calendar year. Data are recorded on these death certificates by funeral directors, who solicit demographic information from available next-of-kin, and by physicians or coroners, who record information on time, place, and cause of death. Louisiana law requires that funeral directors send death certificates to the Vital Records Registry within five days of the occurrence of a death. State laws also specify that the identities of persons included in the death registry be kept confidential.

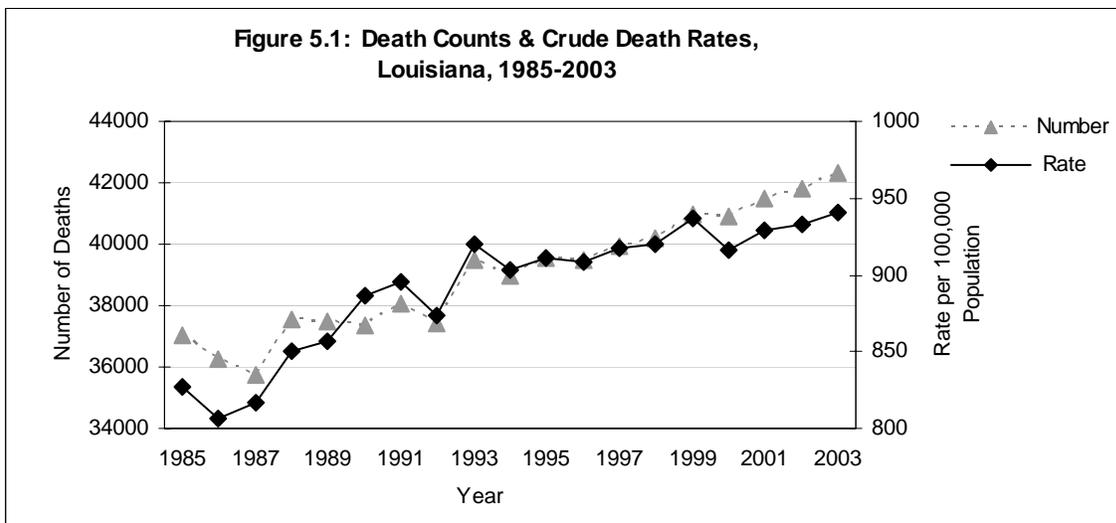
Death statistics are compiled in accordance with World Health Organization (WHO) regulations, which require member nations to classify causes of death according to the revision of the International Classification of Diseases, Injuries, and Causes of Death (ICD) in effect at the time of death. Deaths that occurred in 2003 are coded in accordance with the tenth revision (ICD-10).

All of the causes of death described in this report are *underlying causes of death*, defined as the disease or injury that initiated the sequence of events leading to death. Secondary causes of death, which are also recorded on death certificates, are not presented in this report.

Unless otherwise noted, all statistics reported here are for deaths of Louisiana residents, regardless of the state in which the death occurred. The Vital Statistics Cooperative Program, a nationwide system of information exchange among all U.S. states and territories, makes possible the receipt of out-of-state deaths occurring to Louisiana residents.

NUMBER AND RATES

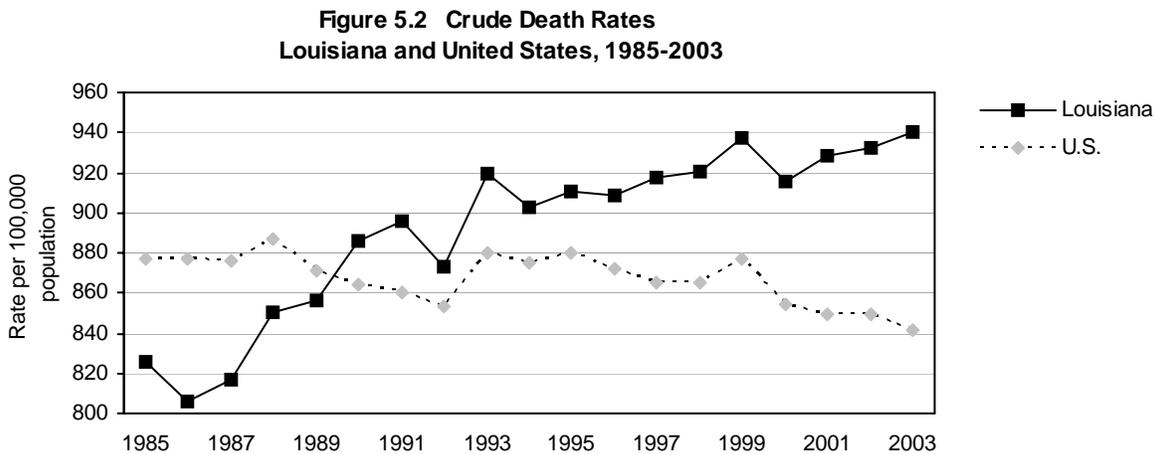
In 2003, there were 42,297 deaths in Louisiana, compared to 41,797 deaths reported in 2002 (Figure 5.1, Table 5.1).



Crude Death Rate

Louisiana's crude death rate increased in 2003 to 940.7 per 100,000 population from the 2002 rate of 932.4. Conversely, U.S. rates decreased between 2002 and 2003, when they were 847.3 and 841.9 deaths per 100,000 population, respectively (Figure 5.2, Table 5.1).

Caution must be used when comparing crude rates from different populations, because crude rates are affected by differences in the composition of the two populations (see definition in the *Technical Notes* section). For example, areas that attract people over age 65 usually have higher crude death rates than areas with larger numbers of young families, because people over age 65 are at a higher risk of dying.



**Table 5.1: Number and Rates⁺ Deaths
Louisiana and United States, 1984-2003**

Year	Louisiana		U.S. Crude Rate ⁺	Year	Louisiana		U.S. Crude Rate ⁺
	Number	Crude Rate ⁺			Number	Crude Rate ⁺	
1984	35865	804.0	864.8	1994	38950	902.7	875.4
1985	37041	825.7	876.9	1995	39539	911.0	880.0
1986	36287	806.2	876.7	1996	39511	908.2	872.5
1987	35759	816.6	876.4	1997	39917	917.3	864.7
1988	37578	850.3	886.7	1998	40209	920.3	864.7
1989	37503	856.0	871.3	1999	40976	937.2	877.0
1990	37375	885.9	863.8	2000	40928	915.8	854.0
1991	38092	895.9	860.3	2001	41495	929.2	848.9
1992	37428	873.1	852.9	2002	41797	932.4	847.3
1993	39490	919.4	880.0	2003	42297	940.7	841.9

⁺Rate per 100,000 population

Source: Louisiana State Center for Health Statistics
National Center for Health Statistics

Age-Adjusted Death Rate

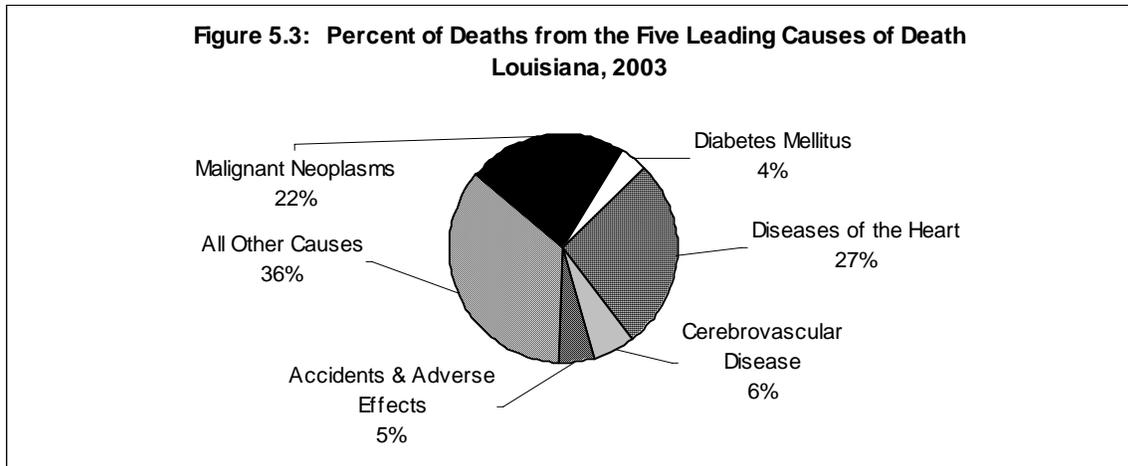
To compensate for differences in the distribution of ages, age-adjusted rates are used when comparing deaths in different populations (see definition in the *Technical Notes* section). The age-adjusted death rate is an artificial number, designed to be used for comparisons of different populations. Unlike the crude death rate, it does not measure the true rate of death in a population, and it should not be used in comparisons with crude death rates.

In 2003, the age-adjusted death rate for all causes of mortality for Louisiana was 994.8 per 100,000 population, as compared to 832.7 for the United States (Table 5.2.). The age-adjusted death rate for Louisiana has been one of the highest among the 50 states.

LEADING CAUSES OF DEATH

Louisiana and United States Death Rates

Based on rankings of 2003 crude death rates for the total population of Louisiana, the five leading causes of death were, in descending order: Diseases of the Heart; Malignant Neoplasms (Cancer); Cerebrovascular Diseases (Stroke); Accidents; and Diabetes Mellitus. Deaths from these causes accounted for 64% of all deaths among Louisiana residents in the year 2003 (Figure 5.3, Table 5.2).



Rounding out the ten leading causes of death to Louisiana residents in 2003 were: Chronic Lower Respiratory Diseases; Alzheimer’s disease; Nephritis, Nephrotic Syndrome, and Nephrosis; Influenza and Pneumonia; and Septicemia. Louisiana and the United States shared the same ten leading causes of death in 2003, but differed in the rates at which they occurred, and thus their rank order. The three leading causes of death in both Louisiana and the United States in 2003 were heart disease, cancer, and stroke. Louisiana’s crude death rates, however, exceeded the national rates for eight of the ten leading causes of death; only Chronic Lower Respiratory Diseases and Influenza and Pneumonia rates were higher at the national level. The ranking of age-adjusted death rates was determined by listing the crude death rates from highest to lowest and then adjusting these rates for age, maintaining the original rank order (Table 5.2, Figure 5.4).

**Table 5.2: Rankings, Counts and Rates for the Ten Leading Causes of Death
Louisiana and United States, 2003**

Cause of Death	Louisiana				United States		
	Rank*	Number	Crude Rate ⁺	Age-adjusted Rate ^{**}	Rank*	Crude Rate ⁺	Age-adjusted Rate ^{**}
All Causes	-	42297	932.4	994.8	-	841.9	832.7
Diseases of the Heart	1	11440	271.8	271.8	1	235.6	232.3
Malignant Neoplasms	2	9459	220.2	220.2	2	191.5	190.1
Cerebrovascular Disease	3	2504	59.9	59.9	3	54.2	54.2
Accidents	4	2143	48.3	48.3	5	37.6	37.3
Diabetes Mellitus	5	1730	40.6	40.6	6	25.5	25.6
Chronic Lower Respiratory Diseases	6	1708	40.6	40.6	4	43.5	43.3
Alzheimer’s Disease	7	1176	28.9	28.9	8	21.8	21.4
Nephritis, Nephrotic Syndrome, & Nephrosis	8	1058	25.0	25.0	9	14.6	14.4
Influenza and Pneumonia	9	908	22.0	22.0	7	22.4	22.0
Septicemia	10	811	19.2	19.2	10	11.7	11.6

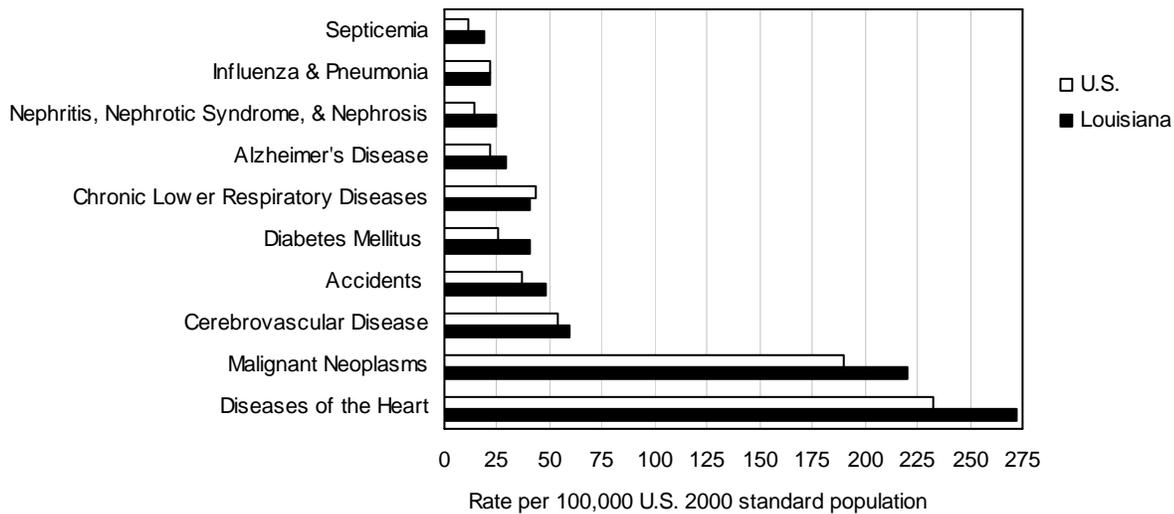
*Rank is based on crude death rate per 100,000 population.

⁺Crude rate per 100,000 population

^{**}Age-adjusted rate per 100,000 2003 U.S. standard population

Source: Louisiana State Center for Health Statistics, National Center for Health Statistics

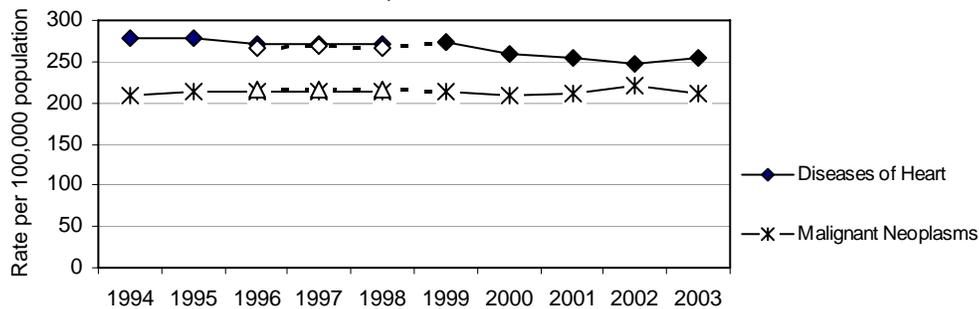
Figure 5.4: Age-Adjusted Death Rates for the Ten Leading Causes of Death Louisiana and United States, 2003



1994-2003 Louisiana Death Rates

The top four causes of death for the year 2003 have been the leading causes of death in Louisiana for the past twenty years. The fifth-ranked cause has alternated among Diabetes, Chronic Lower Respiratory Diseases, and Influenza and Pneumonia. Figures 5.5, 5.6, and 5.7, and Table 5.3 present crude death rates for the top five causes of death in Louisiana from 1994 through 2003. Beginning with deaths occurring in 1999, the United States implemented the tenth revision of the International Classification of Diseases, Injuries, and Causes of Death (ICD-10). The ICD system categorizes death causes recorded on death certificates into groups useful for summarizing, describing, and comparing causes of death throughout the world (see *Technical Notes*). Figures 5.5, 5.6, and 5.7 present two versions of crude death rates for 1996, 1997, and 1998. The "filled" pointers for these three years report crude death rates as determined under the ninth revision of the International Classification of Diseases (ICD-9), which was used to classify deaths occurring from 1979 through 1998. The "unfilled" pointers report these same crude death rates after they have been adjusted mathematically to be comparable to ICD-10.

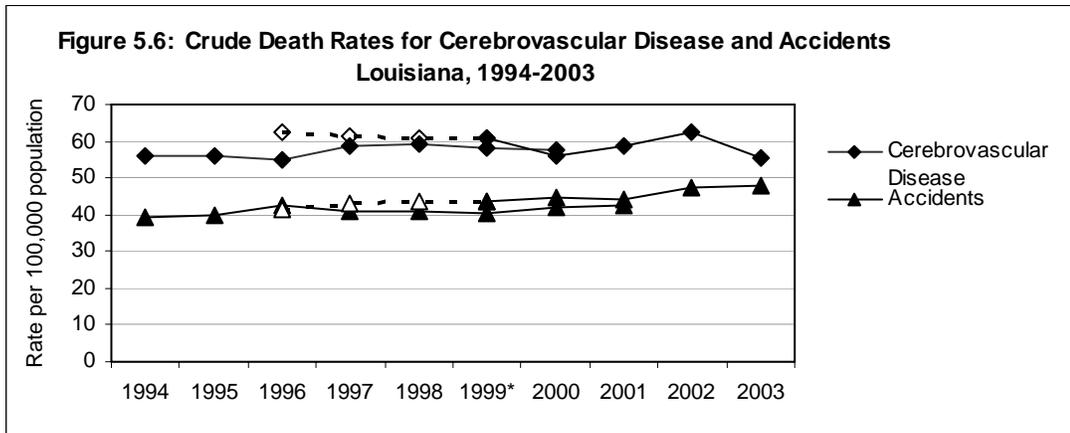
Figure 5.5: Crude Death Rates for Heart Disease and Cancer Louisiana, 1994-2003



Notes: unfilled pointers (◇ and △) represent crude death rates multiplied by a comparability ratio.

Disease of Heart: ICD-9 codes in 1979-1998 ... 390-398, 402, 404, 410-429
 ICD-10 codes in 1999-2002 ... I00-I09, I11, I13, I20-I51
 Comparability Ratio = 0.9858

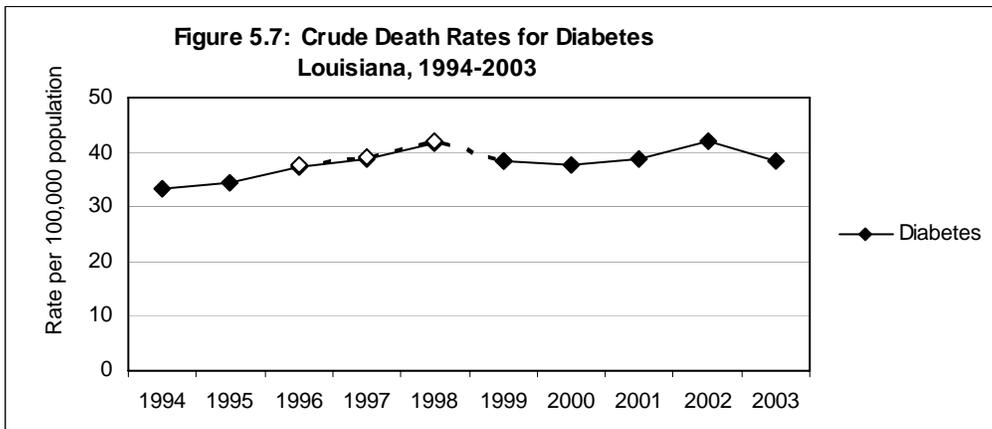
Malignant Neoplasms: ICD-9 codes in 1979-1998 ... 140-208
 ICD-10 codes in 1999-2003 ... C00-C97



Notes: unfilled pointers (◊ and △) represent crude death rates multiplied by a comparability ratio.

Cerebrovascular Disease: ICD-9 codes in 1979-1998 ... 430-434, 436-438
 ICD-10 codes in 1999-2003 ... I60-I69
 Comparability Ratio = 1.0588

Accidents: ICD-9 codes in 1979-1998 ... E800-E869, E880-E929
 ICD-10 codes in 1999-2003 ... V01-X59, Y85-Y86
 Comparability Ratio = 1.0305



Notes: unfilled pointers (◊ and △) represent crude death rates multiplied by a comparability ratio.

Diabetes: ICD-9 codes in 1979-1998 ... 250
 ICD-10 codes in 1999-2003 ... E10-E14
 Comparability Ratio = 1.0082

Table 5.3 reports both unmodified (i.e., ICD-9) and comparability-modified (i.e., adjusted to be comparable to ICD-10) versions of the 1996, 1997, and 1998 crude death rates.

**Table 5.3: Crude Death Rates⁺ for Selected Leading Causes of Death
Louisiana, 1994-2003**

Cause of Death (ICD-9 and ICD-10 code)						Comparability-Modified ¹							
	1994	1995	1996	1997	1998	1996	1997	1998	1999	2000	2001	2002	2003
Diseases of Heart (390-398, 402,404,410-429) (I00-I09, I11,I13, I20-I51)	278	279	271	272	271	267	268	267	273	259	255	248.4	254.4
Malignant Neoplasms(140-208)(C00-C97)	208	214	214	215	214	216	216	215	214	209	212	209.7	210.4
Cerebrovascular Disease (430-434, 436-438), (I60-I69)	55	58.6	59	58	57.5	62.5	61.4	60.9	60.9	55.8	58.7	57.4	55.7
Accidents (E800-869, E880, E929) (V01-X59, Y85-Y86)	40.7	41	40.3	42	42.5	41.5	43.2	43.8	43.5	44.5	44.3	46.7	47.7
Diabetes (250) (E10-E14)	33.5	34.4	37.3	38.7	41.7	37.6	39	42.1	38.5	37.8	38.7	39.5	38.5

⁺Rate per 100,000 population.

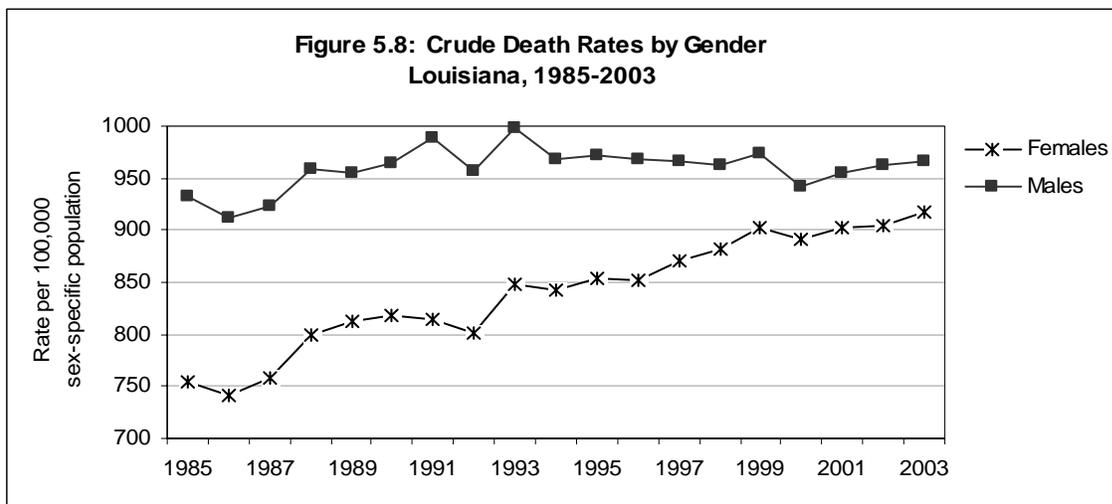
¹Rate modified by comparability ratios.

Notes: ICD-9 used in 1990-1998 and ICD-10 used in 1999-2003.

DEATHS BY DEMOGRAPHIC GROUP

Mortality by Gender

In 2003, there were 21,084 male (49.9%) and 21,213 female (50.1%) deaths in Louisiana (Table 5.4). The crude death rate for males (966.1 per 100,000 male population) was higher than for females (916.7 per 100,000 female population) (Figure 5.8, Table 5.4).



**Table 5.4: Rankings, Numbers and Rates for the Leading Causes of Death by Gender
Louisiana, 2003**

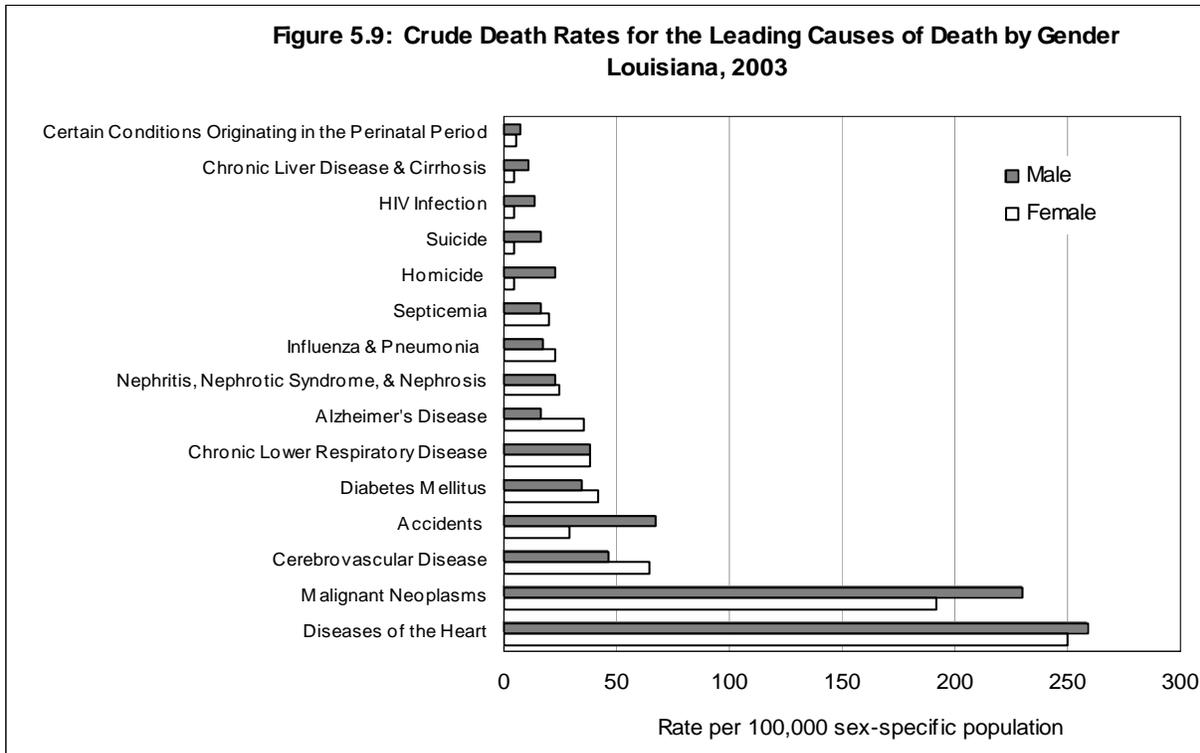
Cause of Death (ICD-10 Codes)	Overall			Male			Female		
	Rank*	Number	Crude Rate*	Rank*	Number	Crude Rate*	Rank*	Number	Crude Rate*
All Causes	-								
Diseases of the Heart (I00-I09, I11, I13, I20-I51)	1	11440	254.4	1	5662	259.4	1	5778	249.7
Malignant Neoplasms (C00-C97)	2	9459	210.4	2	5028	230.4	2	4431	191.5
Cerebrovascular Disease (I60-I69)	3	2504	55.7	4	1005	46.1	3	1499	64.8
Accidents (V01-X59, Y85-Y86)	4	2143	47.7	3	1470	67.4	7	673	29.1
Diabetes Mellitus (E10-E14)	5	1730	38.5	6	758	34.7	4	972	42.0
Chronic Lower Respiratory Diseases (J40-J47)	6	1708	38.0	5	834	38.2	5	874	37.8
Alzheimer's Disease (G30)	7	1176	26.2	10	366	16.8	6	810	35.0
Nephritis, Nephrotic Syndrome, & Nephrosis (N00-N07, N17-N19, N25-N27)	8	1058	23.5	7	493	22.6	8	565	24.4
Influenza & Pneumonia (J10-J18)	9	908	20.2	9	382	17.5	9	526	22.7
Septicemia (A40-A41)	10	811	18.0	12	348	15.9	10	463	20.0
Homicide (X85-Y09, Y87.1)	11	596	13.3	8	493	22.6	-	103	4.5
Suicide (X60-X84, Y87.0)	12	456	10.1	11	357	16.4	-	99	4.3
Chronic Liver Disease & Cirrhosis (K70, K73-K74)	13	389	8.7	14	237	13.3	15	108	4.3
HIV Infection (B20, B24)	14	345	7.7	13	290	10.9	-	99	4.0
Certain Conditions Originating in the Perinatal Period (P00-P96)	15	280	6.2	15	159	7.3	13	121	5.2
Residual									

*Rank is based on rate per 100,000 gender-specific population

*Rate per 100,000 gender-specific population. 2003 census population estimates were used to calculate rates.

“-“ In cell indicates the gender-specific rate is not ranked in the top 15

Note: Females: 11th rank - Essential Hypertension and Hypertensive Renal Disease, 216 deaths, rate=9.3; 12th rank – Pneumonitis due to solids and liquids, 136 deaths, rate=5.9; 14th rank – Parkinson's Disease, 117 deaths, rate=5.1



Mortality by Race

Of the 42,297 deaths to Louisiana residents in 2003, 28,947 (68.5%) occurred among whites, 13,075 (30.9%) among blacks and 275 (less than 1%) among other races. The crude death rate in whites (995.7 per 100,000 white population) was higher than in blacks (876.4 per 100,000 black population) (Table 5.5). Throughout the 1990s, the crude death rate among whites increased, while that of blacks generally remained stable (Figure 5.10).

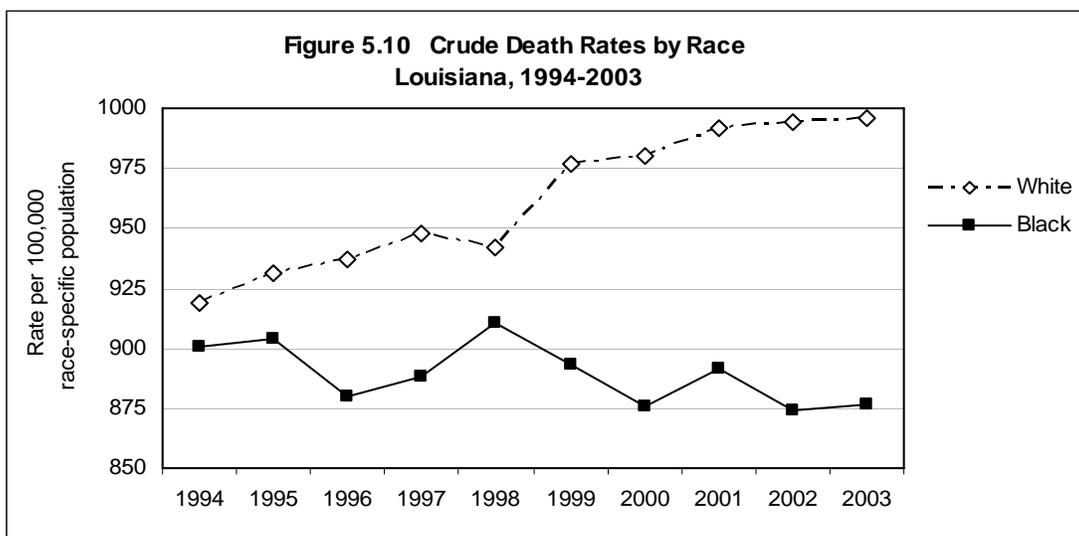


Table 5.5: Rankings, Count and Rates for the Leading Causes of Death by Race Louisiana, 2003

Cause of Death (ICD-10 Codes)	All Races			White			Black		
	Rank*	Count	Crude Rate [†]	Rank*	Count	Crude Rate [†]	Rank*	Count	Crude Rate [†]
All Causes	-	42297	940.7	-	28947	995.7	-	13075	876.4
Diseases of the Heart (I00-I09, I11, I13, I20-I51)	1	11440	254.4	1	8069	277.6	1	330.2	221.3
Malignant Neoplasms (C00-C97)	2	9459	210.4	2	6576	226.2	2	2829	189.6
Cerebrovascular Disease (I60-I69)	3	2504	55.7	3	1671	57.5	3	822	55.1
Accidents (V01-X59, Y85-Y86)	4	2143	47.7	4	1550	53.3	5	571	38.3
Diabetes Mellitus (E10-E14)	5	1730	38.5	7	948	32.6	4	767	51.4
Chronic Lower Respiratory Diseases (J40-J47)	6	1708	38.0	5	1389	47.8	9	312	20.9
Alzheimer's Disease (G30)	7	1176	26.2	6	980	33.7	12	194	13.0
Nephritis, Nephrotic Syndrome, & Nephrosis (N00-N07, N17-N19, N25-N27)	8	1058	23.5	9	608	20.9	7	437	29.3
Influenza & Pneumonia (J10-J18)	9	908	20.2	8	682	23.5	11	219	14.7
Septicemia (A40-A41)	10	811	18.0	10	494	17.0	8	313	21.0
Homicide (X85-Y09, Y87.1)	11	596	13.3	-	116	4.0	6	473	31.7
Suicide (X60-X84, Y87.0)	12	456	10.1	11	395	13.6	-	53	3.6
HIV Infection (B20-B24)	13	389	8.7	-	85	2.9	10	303	20.3
Essential(Primary) Hypertension & Hypertensive Renal Disease (I10, I12)	14	354	7.9	14	181	6.2	14	170	11.4
Chronic Liver Disease & Cirrhosis (K70, K73-K74)	15	345	7.7	12	251	8.6	15	91	6.1
Residual		7294			5049			2199	

*Rank is based on rate per 100,000 race-specific population. For "Other" rank is based on number of deaths.

[†]Rate per 100,000 race-specific population

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Notes: White: 12th Parkinson's Disease, 225 deaths, rate=7.7

15th Pneumonitis due to solids and liquids, 170 deaths, rate=5.8

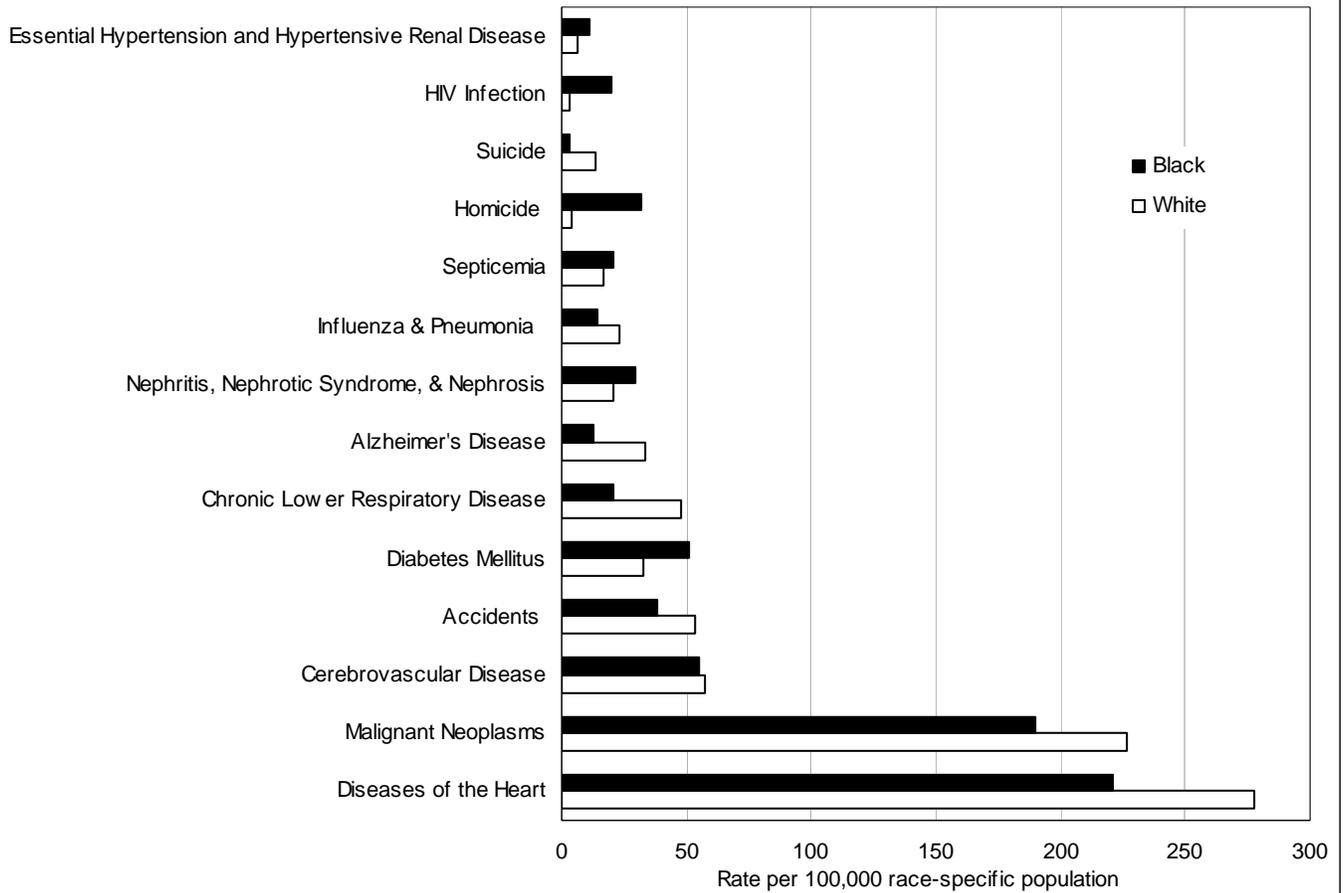
Black: 14th rank is Certain Conditions Originating in the Perinatal period(P00-P96), 190 deaths, rate=12.7

[†]Other: rate not calculated because of instability due to low frequency

“-“in cell indicates the race-specific rate is not ranked in the top fifteen.

In 2003, the top three causes of death for both whites and blacks were diseases of the heart, malignant neoplasms, and cerebrovascular disease. Although the leading causes of death were similar among all race groups, there were considerable differences in race-specific crude death rates (Figure 5.11, and Table 5.5). Crude death rates among whites were notably higher than those among blacks for diseases of the heart (277.6 vs. 221.3), malignant neoplasms (226.2 vs. 189.6), chronic lower respiratory disease (47.8 vs. 20.9), Alzheimer's disease (33.7 vs. 13.0), and suicide (13.6 vs. 3.6). Crude death rates for blacks substantially exceeded those for whites for Diabetes Mellitus (51.4 vs. 32.6), Homicide (31.7 vs. 4.0), HIV infection (20.3 vs. 2.9), and Essential (Primary) Hypertension & Hypertensive Renal Disease (11.4 vs. 6.2).

Figure 5.11: Crude Death Rates for the Leading Causes of Death by Race Louisiana, 2003



Mortality by Gender and Race

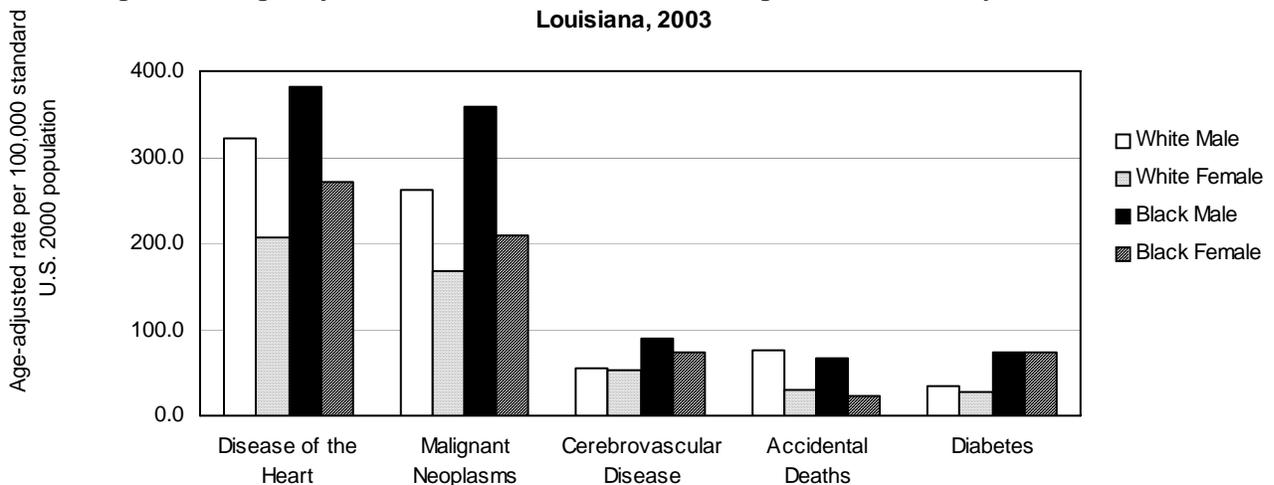
Age-adjusted death rates for the five leading causes of death in the major race/gender groups make direct comparisons among the groups possible. For the three leading causes of death, as well as nephritis, influenza and pneumonia, and septicemia, age-adjusted death rates for 2003 were higher in black males than in all other race/gender groups.

**Table 5.6: Age-Adjusted Death Rates⁺
Selected Leading Causes of Death by Race-Gender
Louisiana, 2003**

Cause of Death (ICD-10 Code)	Race/Gender	Rate
Diseases of the Heart (I00-I09, I11, I13, I20-I51)	Total	271.8
	White Male	321.3
	White Female	207.0
	Black Male	382.2
	Black Female	271.5
Malignant Neoplasms (C00-C97)	Total	220.2
	White Male	262.2
	White Female	168.6
	Black Male	359.5
	Black Female	209.8
Cerebrovascular Diseases (I60-I69)	Total	59.9
	White Male	54.9
	White Female	52.6
	Black Male	89.5
	Black Female	73.1
Accidents (V01-X59, Y85-Y86)	Total	48.3
	White Male	75.3
	White Female	30.1
	Black Male	65.8
	Black Female	23.7
Diabetes Mellitus (E10-E14)	Total	40.6
	White Male	33.4
	White Female	27.0
	Black Male	73.7
	Black Female	72.8

⁺Rate per 100,000 U.S. 2000 standard population.

**Figure 5.12: Age-Adjusted Death Rates for Selected Leading Causes of Death by Race-Gender
Louisiana, 2003**



Mortality by Age

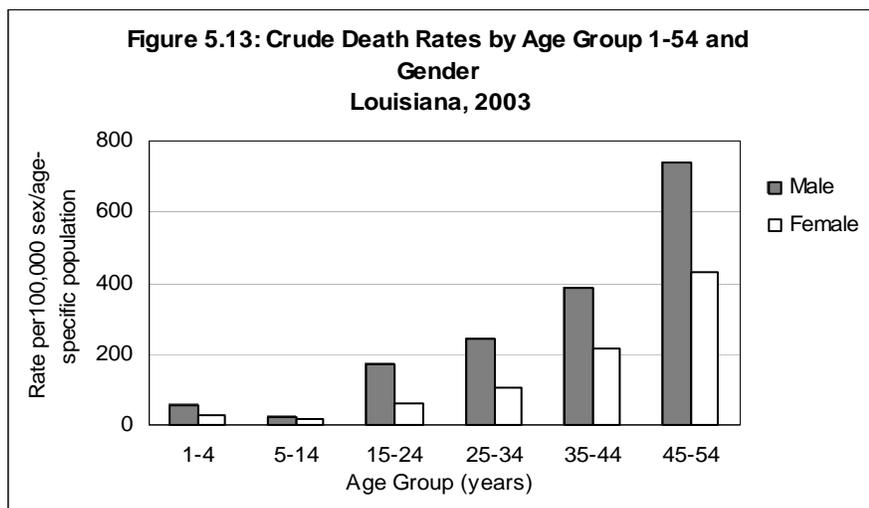
When examined by age group, the leading causes of death in Louisiana in the year 2003 followed the traditional pattern of mortality seen in the United States. Accidents, the primary cause of death among young people, gave way to deaths from chronic conditions such as cancer and heart disease in the middle-aged and elderly (Table 5.7).

Table 5.7: Rankings and Counts for the Five Leading Causes of Death by Age Groups 1 Year and Older Louisiana, 2003

Rank	Counts by Age Groups (years)									
	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
1	Accidents 38	Accidents 52	Accidents 383	Accidents 294	Accidents 362	Malignant Neoplasms 1007	Malignant Neoplasms 1740	Malignant Neoplasms 2440	Diseases of the Heart 3358	Diseases of the Heart 3316
2	Congenital malformations, deformations & chromosomal abnormalities 11	Congenital malformations, deformations & chromosomal abnormalities 10	Homicide 176	Homicide 191	Diseases of the Heart 340	Diseases of the Heart 889	Diseases of the Heart 1361	Diseases of the Heart 2044	Malignant Neoplasms 2656	Malignant Neoplasms 1193
3	Malignant Neoplasms 5	Homicide Diseases of the Heart and Malignant Neoplasms 9 each	Suicide 79	Diseases of the Heart 77	Malignant Neoplasms 313	Cerebro-vascular Diseases 154	Diabetes Mellitus 297	Diabetes Mellitus 453	Cerebro-vascular Diseases 777	Alzheimer's Disease 844
4	Cerebro-vascular Diseases and Diseases of the Heart 3 each	Influenza & Pneumonia 5	Malignant Neoplasms 25	Suicide 76	HIV Infection 160	Chronic Liver Disease & Cirrhosis 104	Cerebro-vascular Diseases 253	Chronic Lower Respiratory Diseases 448	Chronic Lower Respiratory Diseases 621	Influenza & Pneumonia 608
5	Chronic Lower Respiratory Diseases 2	Chronic Lower Respiratory Diseases 3	Diseases of the Heart 24	HIV Infection 71	Suicide 104	HIV infection 94	Accidents 204	Cerebro-vascular Diseases 385	Diabetes Mellitus 475	Chronic Lower Respiratory Diseases 409
Top five	62	97	687	709	999	2248	3855	5770	7887	6370
Total	107	135	825	1016	1941	3636	5233	7635	11384	9781

Mortality by Age and Gender

The crude death rate for males surpassed that for females in every age group (Figures 5.13 and 5.14, Table 5.8).



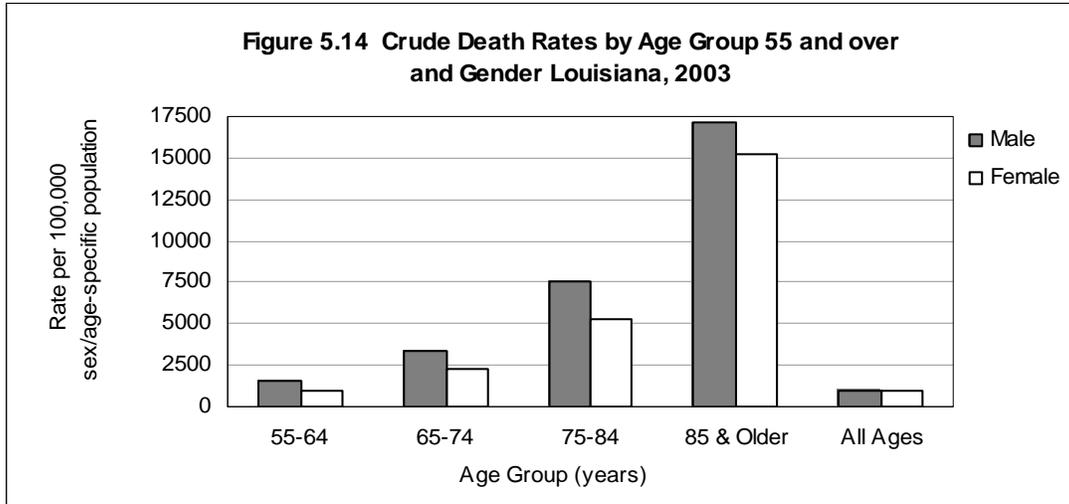


Table 5.8: Death Counts and Crude Death Rates by Age Group and Gender Louisiana, 2003

Age Group (Years)	Total		Male		Female	
	Number	Rate ⁺	Number	Rate ⁺	Number	Rate ⁺
Under 1 ¹	604	885.6	335	963.2	269	804.8
1-4	107	41.8	69	52.7	38	30.3
5-14	135	20.8	80	24.1	55	17.3
15-24	825	117.0	612	171.8	213	61.1
25-34	1016	139.4	703	241.0	313	104.4
35-44	1941	155.9	1220	384.7	721	215.5
45-54	3636	309.8	2258	741.1	1378	428.3
55-64	5233	857.6	3132	1552.0	2101	945.6
65-74	7635	1878.7	4146	3346.1	3489	2256.2
75-84	11384	4154.4	5422	7587.6	5962	5308.0
85 & Older	9781	18355.1	3107	17122	6674	15211.4
Unknown	0		0		0	
Total	42297	940.7	21084	966.1	21213	916.7

⁺Rates are per 100,000 gender/age-specific population.

¹Death rates for Under 1 Year (based on population estimates) differ from Infant Mortality Rates (based on live births).

Mortality by Age and Race

The crude death rates for whites were lower than those for blacks in all age groups except in the age group 5-14 years where the rates were approximately equal. The gap widened with increasing age groups, reaching the greatest proportional difference in the 45-54 age group, in which the rate for blacks was almost double that of whites (Figures 5.15 and 5.16, Table 5.9).

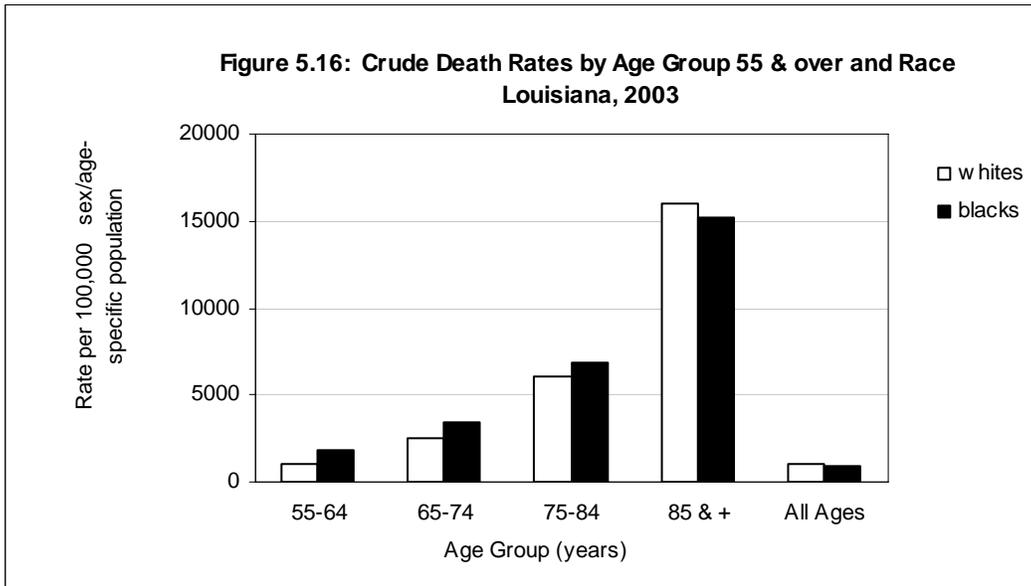
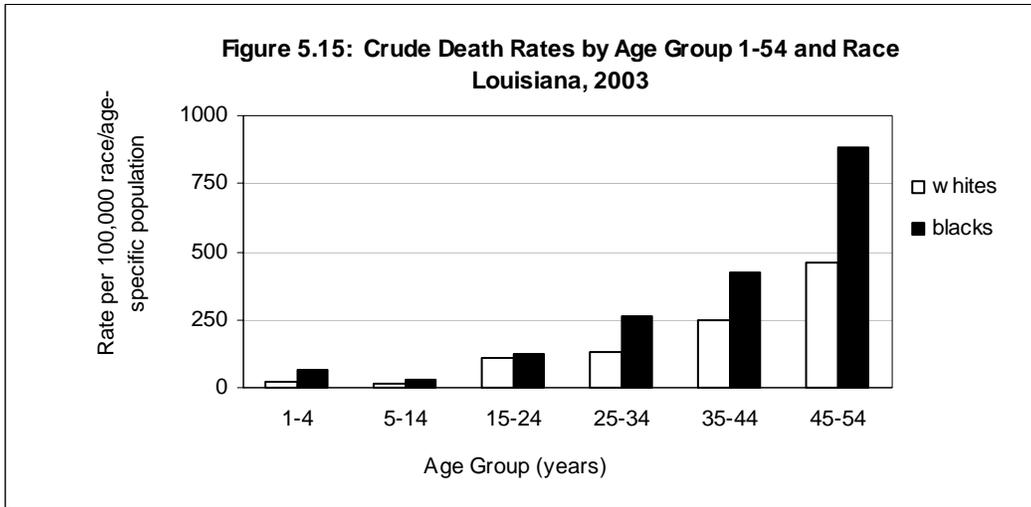


Table 5.9: Death Counts and Crude Death Rates by Age Group and Race Louisiana, 2003

Age Group (Years)	All Races		White		Black		Other
	Number	Rate ¹	Number	Rate ¹	Number	Rate ¹	
Under 1Year ¹	604	885.6	237	639.6	358	1200.1	9
1-4	107	41.8	32	22.2	73	68.5	2
5-14	135	20.8	52	14.1	81	30.6	2
15-24	825	117.0	465	112.2	350	127.7	10
25-34	1016	171.7	487	129.7	518	260.9	11
35-44	1941	297.8	1060	245.5	867	423.8	14
45-54	3636	580.4	1963	459.1	1640	881.5	33
55-64	5233	1234.2	3198	1032.8	1993	1868.1	42
65-74	7635	2741.0	5272	2535.8	2304	3452.6	59
75-84	11384	6194.4	8637	6053.0	2699	6844.7	48
85 & Older	9781	15770.5	7544	16024.5	2192	15228.6	45
Unknown	0		0		0		0
Total	42297	940.7	28947	995.7	13075	876.4	275

¹Rate per 100,000 race/age-specific population. 2003 census estimates were used for the calculation of age-specific rates.

¹Death rates for "Under 1 Year" (based on population estimates) differ from Infant Mortality Rates (based on live births)

**** Cells suppressed to protect confidentiality.

Note: Rates were not calculated for records with age missing as there is no denominator with which to calculate the rate. The rates for "Other" were not calculated due to low frequency and unreliability of race coding, which create instability.

Mortality by Age, Gender, and Race

In 2003, mortality rates in Louisiana for whites and blacks showed significant differences among age groups (Table 5.10). Mortality rates for black males and females under the age of 5 years were approximately double those for their white counterparts. Within gender, the rates for blacks were higher than those for whites. The rates for black males were higher and almost double those for white males in all age groups except in the age group 15-24 years, where the rates were more or less the same. The rates for females reflected a similar trend; these were higher among blacks than whites, and almost double in certain age groups, except in the age group 15-24 years where the rates were almost equal. White females had the lowest mortality rates among all race and gender groups excepting the 85 and older age group.

Table 5.10: Death Counts and Crude Death Rates by Age Group, Gender, and Race Louisiana, 2003

Age Group (Years)	Number of Deaths						Rate ⁺			
	Male			Female			Male		Female	
	White	Black	Other	White	Black	Other	White	Black	White	Black
Under 1 Year ¹	118	209	8	119	149	1	623.7	1375.7	656.0	1017.8
1-4	23	45	1	9	28	1	31.2	82.7	12.7	53.6
5-14	33	46	1	19	35	1	17.4	34.2	10.6	26.9
15-24	347	259	6	118	91	4	164.2	190.0	58.1	66.0
25-34	344	352	7	143	166	4	181.0	380.1	77.1	156.7
35-44	692	520	8	368	347	6	320.6	556.2	170.5	312.3
45-54	1293	942	23	670	698	10	605.5	1108.0	313.1	690.8
55-64	1949	1158	25	1249	835	17	1292.5	2449.9	786.2	1405.3
65-74	2904	1214	28	2368	1090	31	3066.2	4435.7	2092.0	2769.1
75-84	4144	1252	26	4493	1447	22	7346.0	8743.6	5207.6	5762.0
85 & Older	2384	702	21	5160	1490	24	17511.4	16261.3	15419.6	14786.1
Unknown	0	0	0	0	0	0	0	0	0	0
Total	14231	6699	154	14716	6376	121	996.2	950.4	995.2	810.1

⁺Rate per 100,000 race/gender/age-specific population. 2003 census estimates were used for the calculation of age-specific rates.

¹Death rates for "Under 1 Year" (based on population estimates) differ from Infant Mortality Rates (based on live births)

**** In cell indicates count is greater than 0 and less than 5.

Note: Rates were not calculated for records with age missing as there is no denominator with which to calculate the rate. The rates for "Other" were not calculated due to low frequency and unreliability of race coding, which create instability.

Mortality by Selected Causes of Death: Crude and Age-Adjusted Rates

Table 5.11 on the following pages describes deaths to Louisiana residents in 2003 from a number of selected causes. For each of the selected causes of death, the table includes counts for each gender/race/age group, and crude and age-adjusted death rates for all groups combined.

**Table 5.11: Deaths (Exclusive of Stillbirths) by Selected Causes, Race-Gender and Age
Louisiana Residents 2003**

Cause of Death and ICD-10 Code	Total	Crude Rate+	Race / Gender	LT 1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +	UNK	
All causes	42297	940.7	ALL	604	107	61	74	330	495	1016	1941	3636	5233	7635	11384	9781	0	
	14231		WM	118	23	17	16	135	212	344	692	1293	1949	2904	4144	2384	0	
	14716		WF	119	9	9	10	58	60	143	368	670	1249	2368	4493	5160	0	
	6699		BM	209	45	22	24	101	158	352	520	942	1158	1214	1252	702	0	
	6376		BF	149	28	12	23	34	57	166	347	698	835	1090	1447	1490	0	
	154		OM	8	****	****	0	0	6	7	8	23	25	28	26	21	0	
	121		OF	****	****	0	****	****	****	****	****	6	10	17	31	22	24	0
	Certain other intestinal infections (A04,A07-A09)		17	0.4	ALL	****	0	0	0	0	0	0	0	0	0	****	11	****
6		WM	0		0	0	0	0	0	0	0	0	0	0	****	5	0	0
8		WF	0		0	0	0	0	0	0	0	0	0	0	****	5	****	0
2		BM	****		0	0	0	0	0	0	0	0	0	0	0	****	0	0
1		BF	0		0	0	0	0	0	0	0	0	0	0	0	0	****	0
0		OM	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
0		OF	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis(A16-A19)		18	0.4		ALL	0	0	0	0	0	0	0	0	****	****	****	6	****
	6	WM		0	0	0	0	0	0	0	0	****	****	****	****	0	0	
	7	WF		0	0	0	0	0	0	0	0	****	0	****	****	****	0	
	4	BM		0	0	0	0	0	0	0	0	0	****	****	****	0	0	
	1	BF		0	0	0	0	0	0	0	0	0	****	0	0	0	0	
	0	OM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	OF		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Respiratory tuberculosis (A16)	17		0.4	ALL	0	0	0	0	0	0	0	0	****	****	****	6	****
6		WM	0		0	0	0	0	0	0	0	****	****	****	****	0	0	
7		WF	0		0	0	0	0	0	0	0	****	0	****	****	****	0	
4		BM	0		0	0	0	0	0	0	0	0	****	****	****	0	0	
0		BF	0		0	0	0	0	0	0	0	0	0	0	0	0	0	
0		OM	0		0	0	0	0	0	0	0	0	0	0	0	0	0	
0		OF	0		0	0	0	0	0	0	0	0	0	0	0	0	0	
Meningococcal infection (A39)		4	0.1		ALL	0	****	****	****	****	0	0	0	0	0	0	0	0
	0	WM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	WF		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	BM		0	0	****	0	0	0	0	0	0	0	0	0	0	0	
	3	BF		0	****	0	****	****	0	0	0	0	0	0	0	0	0	
	0	OM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	OF		0	0	0	0	0	0	0	0	0	0	0	0	0	0	

**Table 5.11: Deaths (Exclusive of Stillbirths) by Selected Causes, Race-Gender and Age
Louisiana Residents 2003**

Cause of Death and ICD-10 Code	Total	Crude Rate+	Race / Gender	LT 1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +	UNK	
Septicemia (A40-A41)	811	18	ALL	8	****	****	0	****	****	12	16	73	83	129	248	235	0	
	201		WM	0	0	0	0	****	0	****	****	19	22	38	68	48	0	
	293		WF	****	0	****	0	0	****	****	****	18	24	35	98	108	0	
	146		BM	****	0	****	0	0	****	****	6	16	23	31	39	23	0	
	167		BF	****	0	0	0	****	0	****	5	20	14	25	41	55	0	
	1		OM	0	****	0	0	0	0	0	0	0	0	0	0	0	0	
	3		OF	0	0	0	0	0	0	0	0	0	0	0	****	****	0	
	Viral hepatitis (B15-B19)		130	2.9	ALL	0	0	0	0	0	0	****	20	54	24	18	11	****
57		WM	0		0	0	0	0	0	0	11	26	10	8	****	0	0	
30		WF	0		0	0	0	0	0	****	****	8	****	8	5	****	0	
22		BM	0		0	0	0	0	0	0	5	9	7	****	0	0	0	
20		BF	0		0	0	0	0	0	0	****	11	****	****	****	0	0	
0		OM	0		0	0	0	0	0	0	0	0	0	0	0	0	0	
1		OF	0		0	0	0	0	0	0	0	0	0	0	****	0	0	
Human immunodeficiency virus (HIV) disease (B20-B24)		389	8.7		ALL	0	0	****	0	****	5	71	160	94	43	13	****	0
	71	WM		0	0	0	0	0	****	11	28	17	10	****	0	0	0	
	14	WF		0	0	0	0	0	0	****	9	****	****	0	0	0	0	
	218	BM		0	0	****	0	0	****	33	92	58	24	8	****	0	0	
	85	BF		0	0	0	0	****	****	26	31	17	6	****	0	0	0	
	1	OM		0	0	0	0	0	0	0	0	0	****	0	0	0	0	
	0	OF		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Other and unspecified infectious and parasitic diseases and their sequelae (Other in A00-B99)	117		2.6	ALL	5	****	0	0	****	****	****	****	16	18	16	34	19
49		WM	****		0	0	0	0	****	****	****	6	6	7	19	5	0	
30		WF	****		0	0	0	0	0	0	0	****	5	5	7	11	0	
19		BM	****		0	0	0	****	0	****	0	5	****	****	****	****	0	
18		BF	****		****	0	0	0	0	0	****	****	****	****	5	****	0	
1		OM	0		0	0	0	0	0	0	0	****	0	0	0	0	0	
0		OF	0		0	0	0	0	0	0	0	0	0	0	0	0	0	
Malignant neoplasms (C00-C97)		9459	210.4		ALL	****	5	7	****	10	15	69	313	1007	1740	2440	2656	1193
	3511	WM		****	****	****	****	****	****	18	90	334	662	957	1066	373	0	
	3065	WF		0	****	****	0	****	****	18	99	253	467	780	955	484	0	
	1492	BM		0	****	0	0	5	5	13	44	213	338	387	327	158	0	
	1337	BF		****	****	****	****	****	****	20	78	201	258	306	295	170	0	
	25	OM		0	0	0	0	0	0	0	0	****	7	****	9	****	0	
	29	OF		0	0	0	0	0	0	0	0	****	****	8	7	****	****	0

**Table 5.11: Deaths (Exclusive of Stillbirths) by Selected Causes, Race-Gender and Age
Louisiana Residents 2003**

Cause of Death and ICD-10 Code	Total	Crude Rate+	Race / Gender	LT 1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +	UNK	
Malignant neoplasms of lip, oral cavity and pharynx (C00-C14)	140	3.1	ALL	0	0	0	0	0	0	****	7	32	35	37	14	14	0	
	64		WM	0	0	0	0	0	0	0	****	17	14	18	9	****	0	
	23		WF	0	0	0	0	0	0	0	****	****	****	9	****	****	0	
	38		BM	0	0	0	0	0	0	****	****	10	13	6	****	5	0	
	13		BF	0	0	0	0	0	0	0	****	****	****	****	0	****	0	
	2		OM	0	0	0	0	0	0	0	0	0	0	****	0	****	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Malignant neoplasm of esophagus (C15)	202	4.5	ALL	0	0	0	0	0	0	****	****	25	53	58	54	7	0	
	117		WM	0	0	0	0	0	0	****	****	15	30	37	30	****	0	
	29		WF	0	0	0	0	0	0	0	****	****	****	9	12	****	0	
	41		BM	0	0	0	0	0	0	0	0	0	7	20	7	7	0	0
	14		BF	0	0	0	0	0	0	0	0	0	****	****	5	5	****	0
	1		OM	0	0	0	0	0	0	0	0	0	****	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Malignant neoplasm of stomach (C16)	210	4.7	ALL	0	0	0	0	0	0	****	****	22	37	40	68	38	0	
	58		WM	0	0	0	0	0	0	0	0	8	11	16	17	6	0	
	39		WF	0	0	0	0	0	0	0	****	****	7	****	16	10	0	
	66		BM	0	0	0	0	0	0	0	****	****	6	16	12	21	10	0
	41		BF	0	0	0	0	0	0	****	****	****	****	9	13	11	0	
	3		OM	0	0	0	0	0	0	0	0	0	****	****	****	****	0	0
	3		OF	0	0	0	0	0	0	0	0	0	****	0	0	0	****	0
	3		OF	0	0	0	0	0	0	0	0	0	****	0	0	0	****	0
Malignant neoplasms of colon, rectum and anus (C18-C21)	994	22.1	ALL	0	0	0	0	0	****	5	26	106	155	230	295	176	0	
	362		WM	0	0	0	0	0	0	****	10	41	66	89	107	48	0	
	319		WF	0	0	0	0	0	0	****	6	22	39	66	99	86	0	
	142		BM	0	0	0	0	0	****	****	****	20	26	39	34	16	0	
	166		BF	0	0	0	0	0	0	****	6	23	23	34	54	25	0	
	2		OM	0	0	0	0	0	0	0	0	0	0	****	0	****	0	0
	3		OF	0	0	0	0	0	0	0	0	0	0	0	****	0	****	0
	3		OF	0	0	0	0	0	0	0	0	0	0	0	****	0	****	0
Malignant neoplasms of liver and intrahepatic bile ducts (C22)	269	6	ALL	0	****	****	0	0	0	****	11	50	44	59	76	24	0	
	137		WM	0	****	****	0	0	0	****	5	24	19	34	40	12	0	
	57		WF	0	0	0	0	0	0	0	****	5	6	10	26	9	0	
	49		BM	0	0	0	0	0	0	0	****	15	14	10	6	****	0	
	24		BF	0	0	****	0	0	0	****	****	6	****	5	****	****	0	
	1		OM	0	0	0	0	0	0	0	0	0	0	0	****	0	0	
	1		OF	0	0	0	0	0	0	0	0	0	0	****	0	0	0	
	1		OF	0	0	0	0	0	0	0	0	0	0	****	0	0	0	

**Table 5.11: Deaths (Exclusive of Stillbirths) by Selected Causes, Race-Gender and Age
Louisiana Residents 2003**

Cause of Death and ICD-10 Code	Total	Crude Rate+	Race / Gender	LT 1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +	UNK	
Malignant neoplasm of pancreas (C25)	512	11.4	ALL	0	0	0	0	0	0	****	14	42	93	154	148	60	0	
	186		WM	0	0	0	0	0	0	0	0	5	19	35	56	57	14	0
	172		WF	0	0	0	0	0	0	0	0	7	11	21	49	58	26	0
	67		BM	0	0	0	0	0	0	****	****	10	16	21	11	6	0	
	87		BF	0	0	0	0	0	0	0	0	****	21	28	22	14	0	
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Malignant neoplasm of larynx (C32)		90	2	ALL	0	0	0	0	0	0	****	12	23	26	22	6	0
35		WM	0		0	0	0	0	0	0	5	6	14	9	****	0		
16		WF	0		0	0	0	0	0	0	****	****	9	****	****	0		
32		BM	0		0	0	0	0	0	****	****	14	****	10	****	0		
6		BF	0		0	0	0	0	0	0	****	****	****	0	****	0		
1		OM	0		0	0	0	0	0	0	0	0	0	****	0	0		
0		OF	0		0	0	0	0	0	0	0	0	0	0	0	0		
Malignant neoplasms of trachea, bronchus and lung (C33-C34)		2844	63.3		ALL	0	0	0	0	0	****	67	272	611	860	804	227	0
	1216	WM		0	0	0	0	0	0	21	101	263	374	362	95	0		
	859	WF		0	0	0	0	0	****	22	56	151	261	285	81	0		
	485	BM		0	0	0	0	0	0	14	71	127	148	95	30	0		
	270	BF		0	0	0	0	0	0	9	43	66	75	58	19	0		
	8	OM		0	0	0	0	0	0	****	****	****	****	****	****	0		
	6	OF		0	0	0	0	0	0	****	0	****	0	****	****	0		
	Malignant melanoma of skin (C43)	91		2	ALL	0	0	0	0	0	****	****	9	10	19	18	21	10
62		WM	0		0	0	0	0	****	7	7	13	13	16	****	0		
20		WF	0		0	0	0	0	0	****	****	5	****	6	0			
3		BM	0		0	0	0	0	0	****	0	****	0	****	0	0		
6		BF	0		0	0	0	0	****	0	****	****	****	0	****	****	0	
0		OM	0		0	0	0	0	0	0	0	0	0	0	0	0	0	
0		OF	0		0	0	0	0	0	0	0	0	0	0	0	0	0	
Malignant neoplasm of breast (C50)		759	16.9		ALL	0	0	0	0	0	10	59	126	161	146	159	98	0
	9	WM		0	0	0	0	0	0	****	****	0	0	****	0			
	466	WF		0	0	0	0	0	****	27	63	98	99	112	63	0		
	2	BM		0	0	0	0	0	****	0	0	0	****	0	0	0		
	277	BF		0	0	0	0	0	5	32	60	59	44	46	31	0		
	0	OM		0	0	0	0	0	0	0	0	0	0	0	0	0		
	5	OF		0	0	0	0	0	0	0	0	****	****	****	****	0		

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Cause of Death and ICD-10 Code	Total	Crude Rate+	Race / Gender	LT 1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +	UNK	
Malignant neoplasm of cervix uteri (C53)	66	1.5	ALL	0	0	0	0	0	****	5	18	9	17	8	6	****	0	
	0		WM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	29		WF	0	0	0	0	0	****	****	7	****	9	****	****	****	****	0
	0		BM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	36		BF	0	0	0	0	0	0	****	11	5	8	****	****	****	0	0
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1		OF	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
Malignant neoplasms of corpus uteri and uterus,part unspecified (C54-C55)	84	1.9	ALL	0	0	0	0	0	0	****	5	16	23	26	12	0	0	
	0		WM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	42		WF	0	0	0	0	0	0	****	****	8	14	13	****	****	0	
	0		BM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	41		BF	0	0	0	0	0	0	****	****	7	9	13	8	0	0	
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1		OF	0	0	0	0	0	0	0	0	0	****	0	0	0	0	
Malignant neoplasm of ovary (C56)	222	4.9	ALL	0	0	0	0	0	0	****	6	30	31	59	68	24	0	
	0		WM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	169		WF	0	0	0	0	0	0	****	****	18	23	47	53	21	0	
	0		BM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	51		BF	0	0	0	0	0	0	****	****	11	8	11	15	****	0	
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2		OF	0	0	0	0	0	0	0	0	****	0	****	0	0	0	
Malignant neoplasm of prostate (C61)	456	10.1	ALL	0	0	0	0	0	0	0	0	8	39	105	163	141	0	
	261		WM	0	0	0	0	0	0	0	0	****	18	55	102	82	0	
	0		WF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	191		BM	0	0	0	0	0	0	0	0	****	20	50	61	56	0	
	0		BF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	4		OM	0	0	0	0	0	0	0	0	0	****	0	0	****	0	
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Malignant neoplasms of kidney and renal pelvis (C64-C65)	233	5.2	ALL	0	****	0	0	0	0	****	7	23	60	59	56	26	0	
	106		WM	0	0	0	0	0	0	0	****	11	31	29	26	7	0	
	71		WF	0	****	0	0	0	0	0	****	5	15	17	20	10	0	
	34		BM	0	0	0	0	0	0	****	****	5	8	8	7	****	0	
	21		BF	0	0	0	0	0	0	0	0	****	5	5	****	6	0	
	1		OM	0	0	0	0	0	0	0	0	0	****	0	0	0	0	
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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Cause of Death and ICD-10 Code	Total	Crude Rate+	Race / Gender	LT 1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +	UNK	
Malignant neoplasm of bladder (C67)	158	3.5	ALL	0	0	0	0	0	0	0	****	8	18	35	60	35	0	
	93		WM	0	0	0	0	0	0	0	0	****	****	14	19	38	16	0
	38		WF	0	0	0	0	0	0	0	0	0	0	****	6	14	15	0
	18		BM	0	0	0	0	0	0	0	0	0	****	0	9	5	****	0
	9		BF	0	0	0	0	0	0	0	0	0	****	****	****	****	****	0
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Malignant neoplasms of meninges, brain and other parts of central nervous system (C70-C72)	211	4.7	ALL	0	****	****	****	****	0	12	21	35	45	46	37	9	0	
	98		WM	0	0	0	0	0	0	0	7	13	17	23	17	16	5	0
	79		WF	0	0	****	0	0	0	0	****	5	11	14	23	18	****	0
	14		BM	0	****	0	0	****	0	****	****	****	****	****	****	****	0	0
	18		BF	0	****	0	****	0	0	0	****	****	****	5	****	****	0	0
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	****	****	0	0	0	0
	2		OF	0	0	0	0	0	0	0	0	0	****	****	0	0	0	0
Malignant neoplasms of lymphoid, hematopoietic and related tissue (C81-C96)	850	18.9	ALL	****	0	****	0	5	****	12	23	75	116	217	274	121	0	
	322		WM	****	0	0	0	****	****	****	9	21	49	94	112	29	0	
	276		WF	0	0	0	0	****	****	****	5	15	28	60	102	62	0	
	134		BM	0	0	0	0	****	****	****	6	26	25	28	32	11	0	
	113		BF	****	0	****	0	****	****	****	****	13	12	33	27	19	0	
	2		OM	0	0	0	0	0	0	0	0	0	****	0	****	0	0	
	3		OF	0	0	0	0	0	0	0	0	0	****	****	0	0	0	
	0		OF	0	0	0	0	0	0	0	0	0	****	****	0	0	0	
Hodgkin's disease (C81)	17	0.4	ALL	0	0	0	0	0	****	****	****	****	****	****	5	5	0	
	8		WM	0	0	0	0	0	0	****	****	0	****	****	****	****	0	
	6		WF	0	0	0	0	0	0	0	0	0	0	****	****	****	0	
	1		BM	0	0	0	0	0	0	0	0	0	****	0	0	0	0	
	1		BF	0	0	0	0	0	****	0	0	0	0	0	0	0	0	
	1		OM	0	0	0	0	0	0	0	0	0	0	0	****	0	0	
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Non-Hodgkin's lymphoma (C82-C85)	315	7	ALL	0	0	0	0	0	****	5	8	25	43	73	111	48	0	
	128		WM	0	0	0	0	0	****	****	****	9	16	36	46	16	0	
	116		WF	0	0	0	0	0	****	0	****	****	14	20	50	25	0	
	29		BM	0	0	0	0	0	0	****	****	8	6	6	****	****	0	
	41		BF	0	0	0	0	0	0	0	****	****	7	10	13	6	0	
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0		OF	0	0	0	0	0	0	0	0	0	0	0	****	0	0	
	1		OF	0	0	0	0	0	0	0	0	0	0	0	****	0	0	

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Cause of Death and ICD-10 Code	Total	Crude Rate+	Race / Gender	LT 1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +	UNK		
Leukemia (C91-C95)	304	6.8	ALL	****	0	****	0	5	****	6	11	22	39	79	93	45	0		
	116		WM	****	0	0	0	****	0	****	5	5	19	39	38	6	0		
	106		WF	0	0	0	0	****	0	****	****	9	11	21	35	25	0		
	47		BM	0	0	0	0	****	****	****	****	6	6	9	17	****	0		
	32		BF	****	0	****	0	****	0	****	****	****	****	9	****	10	0		
	1		OM	0	0	0	0	0	0	0	0	0	0	****	0	0	0	0	
	2		OF	0	0	0	0	0	0	0	0	0	0	****	****	0	0	0	
	Multiple myeloma and immunoproliferative neoplasms (C88,C90)		212	4.7	ALL	0	0	0	0	0	0	0	****	27	33	63	65	22	0
69		WM	0		0	0	0	0	0	0	0	0	7	13	18	26	5	0	
47		WF	0		0	0	0	0	0	0	0	****	****	****	18	15	8	0	
57		BM	0		0	0	0	0	0	0	0	****	11	13	13	13	6	0	
39		BF	0		0	0	0	0	0	0	0	0	7	****	14	11	****	0	
0		OM	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0		OF	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue (C96)		2	0		ALL	0	0	0	0	0	0	0	****	0	0	0	0	****	0
	1	WM		0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	
	1	WF		0	0	0	0	0	0	0	0	0	0	0	0	****	0		
	0	BM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	BF		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	OM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	OF		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	All other and unspecified malignant neoplasms (Other in C00-C97)	1068		23.8	ALL	0	****	****	****	****	8	7	33	117	167	260	305	163	0
385		WM	0		0	****	****	****	****	****	****	10	37	67	92	125	48	0	
361		WF	0		0	****	0	0	****	****	****	8	30	35	90	118	75	0	
176		BM	0		****	0	0	****	****	****	****	7	31	36	43	35	17	0	
144		BF	0		0	0	0	0	****	****	****	7	19	29	35	26	23	0	
0		OM	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2		OF	0		0	0	0	0	0	0	0	****	0	0	0	****	0	0	
In situ neoplasms,benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48)		220	4.9		ALL	****	****	0	****	****	****	****	10	13	22	36	75	50	0
	78	WM		****	0	0	****	0	****	****	6	5	7	16	31	9	0		
	86	WF		0	0	0	****	****	0	****	****	****	6	10	29	34	0		
	30	BM		0	****	0	0	0	0	****	****	****	5	****	10	****	0		
	25	BF		0	0	0	****	0	****	0	****	****	****	6	5	****	0		
	1	OM		0	0	0	0	0	0	0	0	0	****	0	0	0	0	0	
	0	OF		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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Louisiana Residents 2003**

Cause of Death and ICD-10 Code	Total	Crude Rate+	Race / Gender	LT 1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +	UNK	
Anemias (D50-D64)	79	1.8	ALL	0	0	****	0	0	****	8	****	10	6	7	16	25	0	
	12		WM	0	0	0	0	0	0	0	0	0	****	****	****	****	****	0
	25		WF	0	0	0	0	0	0	0	0	0	****	0	****	6	15	0
	22		BM	0	0	****	0	0	0	6	****	5	0	****	****	****	****	0
	19		BF	0	0	0	0	0	****	****	0	****	****	****	****	****	****	0
	1		OM	0	0	0	0	0	0	0	0	0	****	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diabetes mellitus (E10-E14)		1730	38.5	ALL	0	0	0	0	****	****	11	50	136	297	453	475	305
439		WM	0		0	0	0	****	0	****	12	31	73	131	133	57	0	
509		WF	0		0	0	0	0	0	0	5	21	61	120	165	137	0	
311		BM	0		0	0	0	****	0	6	14	45	71	80	66	28	0	
456		BF	0		0	0	0	0	****	****	19	38	88	118	109	79	0	
8		OM	0		0	0	0	0	0	0	0	0	****	****	****	****	0	
0		OF	0		0	0	0	0	0	0	0	****	0	****	****	****	0	
Nutritional deficiencies (E40-E64)		106	2.4		ALL	0	0	0	0	0	0	****	****	7	14	35	45	0
	19	WM		0	0	0	0	0	0	0	0	****	****	7	9	0		
	41	WF		0	0	0	0	0	0	****	0	****	7	12	18	0		
	20	BM		0	0	0	0	0	0	0	****	****	****	9	****	0		
	26	BF		0	0	0	0	0	0	0	****	0	****	7	14	0		
	0	OM		0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	OF		0	0	0	0	0	0	0	0	0	0	0	0	0		
	Malnutrition (E40-E46)	104		2.3	ALL	0	0	0	0	0	0	****	****	7	14	34	44	0
18		WM	0		0	0	0	0	0	0	0	****	****	6	9	0		
40		WF	0		0	0	0	0	0	****	0	****	7	12	17	0		
20		BM	0		0	0	0	0	0	0	****	****	****	9	****	0		
26		BF	0		0	0	0	0	0	0	****	0	****	7	14	0		
0		OM	0		0	0	0	0	0	0	0	0	0	0	0	0		
0		OF	0		0	0	0	0	0	0	0	0	0	0	0	0		
Othe nutritional deficiencies (E50-E64)		2	0		ALL	0	0	0	0	0	0	0	0	0	0	****	****	0
	1	WM		0	0	0	0	0	0	0	0	0	0	****	0	0		
	1	WF		0	0	0	0	0	0	0	0	0	0	0	****	0		
	0	BM		0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	BF		0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	OM		0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	OF		0	0	0	0	0	0	0	0	0	0	0	0	0		

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Louisiana Residents 2003**

Cause of Death and ICD-10 Code	Total	Crude Rate+	Race / Gender	LT 1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +	UNK	
Meningitis (G00,G03)	16	0.4	ALL	****	****	0	0	****	****	****	0	****	****	****	0	****	0	
	5		WM	****	0	0	0	****	0	0	0	0	****	****	0	****	0	
	5		WF	0	0	0	0	****	0	****	0	****	0	****	0	****	0	
	3		BM	0	****	0	0	0	0	0	0	0	****	0	0	****	0	
	3		BF	0	0	0	0	0	****	****	0	0	0	****	0	0	0	
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Parkinson's disease (G20-G21)		269	6	ALL	0	0	0	0	0	0	0	0	****	10	54	127	76
129		WM	0		0	0	0	0	0	0	0	0	****	8	24	69	28	0
96		WF	0		0	0	0	0	0	0	0	****	****	15	42	36	0	
22		BM	0		0	0	0	0	0	0	0	0	0	0	8	10	****	0
20		BF	0		0	0	0	0	0	0	0	****	0	5	6	8	0	
1		OM	0		0	0	0	0	0	0	0	0	0	****	0	0	0	0
1		OF	0		0	0	0	0	0	0	0	0	0	****	0	0	0	
Alzheimer's disease (G30)		1176	26.2		ALL	0	0	0	0	0	0	0	0	****	14	85	468	608
	305	WM		0	0	0	0	0	0	0	0	0	5	34	138	128	0	
	675	WF		0	0	0	0	0	0	0	0	****	8	37	252	377	0	
	61	BM		0	0	0	0	0	0	0	0	0	****	5	33	22	0	
	133	BF		0	0	0	0	0	0	0	0	0	0	8	45	80	0	
	0	OM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	OF		0	0	0	0	0	0	0	0	0	0	****	0	****	0	
	Major cardiovascular disease (I00-I78)	14889		331.1	ALL	24	6	****	6	12	17	100	427	1092	1690	2615	4434	4462
4922		WM	****		****	****	0	5	6	29	138	388	650	1024	1601	1075	0	
5425		WF	5		0	0	****	0	****	14	65	147	323	730	1724	2414	0	
2095		BM	6		****	****	****	****	****	29	124	308	420	447	475	275	0	
2360		BF	9		****	****	****	****	5	26	99	233	287	389	614	687	0	
53		OM	0		0	****	0	0	****	****	****	13	6	13	11	6	0	
34		OF	0		0	0	0	0	0	****	0	****	****	12	9	5	0	
Diseases of heart (I00-I09,I11,I13,I20-I51)		11440	254.4		ALL	19	****	****	6	11	13	77	340	889	1361	2044	3358	3316
	4027	WM		****	****	****	0	****	6	27	128	342	561	856	1278	820	0	
	4042	WF		****	0	0	****	0	****	9	45	115	256	547	1289	1775	0	
	1588	BM		5	0	0	****	****	****	21	93	242	336	343	337	203	0	
	1714	BF		8	****	****	****	****	****	18	73	175	201	280	439	509	0	
	47	OM		0	0	****	0	0	****	****	****	12	6	11	9	5	0	
	22	OF		0	0	0	0	0	0	****	0	****	****	7	6	****	0	

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Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	31	0.7	ALL	0	0	0	****	****	0	0	****	****	****	****	15	****	0	
	7		WM	0	0	0	0	0	0	0	0	0	****	****	0	****	****	0
	16		WF	0	0	0	0	0	0	0	0	0	****	****	****	12	0	0
	4		BM	0	0	0	0	****	0	0	0	****	****	0	0	0	0	0
	4		BF	0	0	0	****	0	0	0	0	0	****	****	0	0	0	0
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypertensive heart disease (I11)	700	15.6	ALL	0	0	0	0	0	0	5	34	80	89	129	195	168	0	
	132		WM	0	0	0	0	0	0	0	7	15	22	34	32	22	0	
	243		WF	0	0	0	0	0	0	0	5	11	20	30	78	99	0	
	133		BM	0	0	0	0	0	0	****	10	23	28	32	32	7	0	
	192		BF	0	0	0	0	0	0	****	12	31	19	33	53	40	0	
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hypertensive heart and renal disease (I13)	84	1.9	ALL	0	0	0	0	0	0	****	****	6	6	15	31	21	0	
	17		WM	0	0	0	0	0	0	0	****	0	****	****	9	****	0	
	17		WF	0	0	0	0	0	0	0	0	0	0	****	7	8	0	
	24		BM	0	0	0	0	0	0	****	****	****	****	7	5	****	0	
	26		BF	0	0	0	0	0	0	0	0	****	****	****	10	8	0	
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ischemic heart diseases (I20-I25)	7153	159.1	ALL	0	****	0	0	****	****	31	199	590	970	1331	2106	1919	0	
	2767		WM	0	0	0	0	****	****	11	86	259	435	603	865	505	0	
	2351		WF	0	0	0	0	0	0	****	20	70	169	336	771	982	0	
	1020		BM	0	0	0	0	0	****	10	55	164	233	226	213	118	0	
	967		BF	0	****	0	0	****	****	6	37	88	126	157	244	306	0	
	34		OM	0	0	0	0	0	0	****	****	8	6	6	8	****	0	
	14		OF	0	0	0	0	0	0	0	0	****	****	****	5	****	0	
	14		OF	0	0	0	0	0	0	0	0	****	****	****	5	****	0	
Acute myocardial infarction (I21-I22)	3485	77.5	ALL	0	0	0	0	****	****	19	131	347	600	686	927	772	0	
	1353		WM	0	0	0	0	0	0	5	53	146	271	319	363	196	0	
	1064		WF	0	0	0	0	0	0	****	14	40	104	167	343	395	0	
	557		BM	0	0	0	0	0	****	9	38	106	145	112	96	50	0	
	481		BF	0	0	0	0	****	****	****	25	47	75	81	121	127	0	
	24		OM	0	0	0	0	0	0	****	****	7	****	5	****	****	0	
	6		OF	0	0	0	0	0	0	0	0	****	****	****	****	****	0	
	6		OF	0	0	0	0	0	0	0	0	****	****	****	****	****	0	

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Other acute ischemic heart diseases (I24)	51	1.1	ALL	0	0	0	0	0	****	****	****	6	5	6	17	12	0	
	13		WM	0	0	0	0	0	****	0	****	****	****	****	0	5	0	0
	22		WF	0	0	0	0	0	0	0	****	****	****	****	****	6	10	0
	10		BM	0	0	0	0	0	0	0	****	****	0	****	****	****	****	0
	6		BF	0	0	0	0	0	0	****	0	****	****	0	****	****	****	0
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other forms of chronic ischemic heart disease (I20,I25)	3617	80.4	ALL	0	****	0	0	****	****	11	65	237	365	639	1162	1135	0	
	1401		WM	0	0	0	0	****	****	6	32	110	161	284	497	309	0	
	1265		WF	0	0	0	0	0	0	****	5	29	64	166	422	577	0	
	453		BM	0	0	0	0	0	0	****	16	57	88	111	113	67	0	
	480		BF	0	****	0	0	0	0	****	12	40	50	76	121	178	0	
	10		OM	0	0	0	0	0	0	0	0	****	****	****	5	****	0	
	8		OF	0	0	0	0	0	0	0	0	0	0	****	****	****	0	
Atherosclerotic cardiovascular disease, so described (I25.0)	1194	26.6	ALL	0	0	0	0	0	0	6	31	92	140	188	315	422	0	
	433		WM	0	0	0	0	0	0	****	18	51	63	83	123	92	0	
	414		WF	0	0	0	0	0	0	****	****	10	24	46	111	220	0	
	161		BM	0	0	0	0	0	0	****	8	13	35	36	40	28	0	
	179		BF	0	0	0	0	0	0	****	****	17	16	22	40	80	0	
	4		OM	0	0	0	0	0	0	0	0	****	****	****	0	0	0	
	3		OF	0	0	0	0	0	0	0	0	0	0	0	****	****	0	
All other forms of chronic ischemic heart disease (I20,I25.1-I25.9)	2423	53.9	ALL	0	****	0	0	****	****	5	34	145	225	451	847	713	0	
	968		WM	0	0	0	0	****	****	****	14	59	98	201	374	217	0	
	851		WF	0	0	0	0	0	0	****	****	19	40	120	311	357	0	
	292		BM	0	0	0	0	0	0	0	8	44	53	75	73	39	0	
	301		BF	0	****	0	0	0	0	****	9	23	34	54	81	98	0	
	6		OM	0	0	0	0	0	0	0	0	0	0	0	5	****	0	
	5		OF	0	0	0	0	0	0	0	0	0	0	****	****	****	0	
Other heart diseases (I26-I51)	3472	77.2	ALL	19	****	****	5	8	9	40	101	210	292	565	1011	1207	0	
	1104		WM	****	****	****	0	****	****	16	34	67	100	217	369	289	0	
	1415		WF	****	0	0	****	0	****	6	20	33	66	177	421	686	0	
	407		BM	5	0	0	****	****	****	9	23	51	72	78	87	76	0	
	525		BF	8	****	****	****	****	****	8	24	53	54	84	132	155	0	
	13		OM	0	0	****	0	0	****	0	0	****	0	5	****	****	0	
	8		OF	0	0	0	0	0	0	0	****	0	****	0	****	****	0	

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Acute and subacute endocarditis (I33)	17	0.4	ALL	0	0	0	0	0	****	0	****	****	0	****	****	****	0
	4		WM	0	0	0	0	0	0	0	****	0	0	****	0	****	0
	10		WF	0	0	0	0	0	****	0	****	****	0	****	****	****	0
	2		BM	0	0	0	0	0	0	0	0	****	0	0	0	0	0
	1		BF	0	0	0	0	0	0	0	0	****	0	0	0	0	0
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diseases of pericardium and acute myocarditis (I30-I31,I40)	13	0.3	ALL	****	0	0	0	****	0	****	****	****	****	0	****	0	0
	3		WM	0	0	0	0	****	0	0	****	0	****	0	****	0	0
	2		WF	0	0	0	0	0	0	0	****	0	****	0	****	0	0
	5		BM	0	0	0	0	0	0	****	****	0	****	0	0	0	0
	3		BF	****	0	0	0	0	0	0	****	0	0	0	****	0	0
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heart failure (I50)	1430	31.8	ALL	****	0	0	0	****	****	****	8	39	89	209	437	638	0
	442		WM	0	0	0	0	0	****	****	0	14	30	83	160	152	0
	657		WF	0	0	0	0	0	0	****	****	****	21	64	187	379	0
	137		BM	****	0	0	0	****	0	****	****	10	22	28	35	36	0
	191		BF	****	0	0	0	****	0	0	5	10	16	32	55	71	0
	1		OM	0	0	0	0	0	0	0	0	****	0	0	0	0	0
	2		OF	0	0	0	0	0	0	0	0	0	0	****	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	****	0	0
All other forms of heart disease (I26-I28,I34-I38,I42-I49,I51)	2012	44.7	ALL	16	****	****	5	5	6	34	86	166	201	353	569	566	0
	655		WM	****	****	****	0	****	****	15	31	53	69	133	209	136	0
	746		WF	****	0	0	****	0	****	5	18	27	45	111	230	305	0
	263		BM	****	0	0	****	****	****	5	19	39	49	50	52	40	0
	330		BF	6	****	****	****	****	****	8	18	42	38	52	76	84	0
	12		OM	0	0	****	0	0	****	0	0	****	0	5	****	****	0
	6		OF	0	0	0	0	0	0	****	0	****	0	****	****	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	****	****	0
Essential (primary) hypertension and hypertensive renal disease (I10,I12)	354	7.9	ALL	0	0	0	0	0	****	8	12	22	37	65	109	100	0
	62		WM	0	0	0	0	0	0	****	6	5	14	25	11	0	
	119		WF	0	0	0	0	0	0	****	****	0	9	10	41	56	0
	75		BM	0	0	0	0	0	0	5	6	11	9	17	15	12	0
	95		BF	0	0	0	0	0	****	****	****	5	13	22	28	21	0
	1		OM	0	0	0	0	0	0	0	0	0	0	****	0	0	0
	2		OF	0	0	0	0	0	0	0	0	0	0	****	****	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	****	****	0	0

**Table 5.11: Deaths (Exclusive of Stillbirths) by Selected Causes, Race-Gender and Age
Louisiana Residents 2003**

Cause of Death and ICD-10 Code	Total	Crude Rate+	Race / Gender	LT 1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +	UNK
Cerebrovascular diseases (I60-I69)	2504	55.7	ALL	****	****	****	0	0	****	13	68	154	253	385	777	844	0
	641		WM	****	0	0	0	0	0	****	8	33	65	103	226	203	0
	1030		WF	****	0	0	0	0	0	****	18	27	48	130	322	480	0
	362		BM	****	****	****	0	0	****	****	21	50	70	71	98	46	0
	460		BF	0	****	0	0	0	****	5	21	43	68	77	127	115	0
	2		OM	0	0	0	0	0	0	0	0	****	0	0	****	0	0
	9		OF	0	0	0	0	0	0	0	0	0	****	****	****	0	0
	Atherosclerosis (I70)		197	4.4	ALL	0	0	0	0	0	****	0	****	6	27	56	103
53		WM	0		0	0	0	0	0	0	0	****	9	20	20	0	
94		WF	0		0	0	0	0	0	0	****	****	12	22	57	0	
20		BM	0		0	0	0	0	0	0	****	****	****	9	6	0	
29		BF	0		0	0	0	0	****	0	****	0	****	5	20	0	
1		OM	0		0	0	0	0	0	0	0	0	****	0	0	0	
0		OF	0		0	0	0	0	0	0	0	0	0	0	0	0	
Other diseases of circulatory system (I71-I78)		394	8.8		ALL	****	0	0	0	****	0	****	7	23	33	94	134
	139	WM		0	0	0	0	****	0	****	7	15	42	52	21	0	
	140	WF		****	0	0	0	0	0	0	****	9	31	50	46	0	
	50	BM		0	0	0	0	0	****	****	****	****	13	16	8	0	
	62	BF		****	0	0	0	0	0	****	9	5	8	15	22	0	
	2	OM		0	0	0	0	0	0	0	0	0	0	****	****	0	
	1	OF		0	0	0	0	0	0	0	0	0	0	0	****	0	
	Aortic aneurysm and dissection (I71)	202		4.5	ALL	0	0	0	0	****	0	0	****	16	19	54	70
91		WM	0		0	0	0	****	0	0	0	6	11	26	33	14	0
67		WF	0		0	0	0	0	0	0	****	****	20	27	15	0	
20		BM	0		0	0	0	0	0	****	****	****	5	5	****	0	
23		BF	0		0	0	0	0	0	****	7	****	****	****	7	0	
1		OM	0		0	0	0	0	0	0	0	0	0	****	0	0	
0		OF	0		0	0	0	0	0	0	0	0	0	0	0	0	
Other diseases of arteries, arterioles and capillaries (I72-I78)		192	4.3		ALL	****	0	0	0	0	****	****	7	14	40	64	61
	48	WM		0	0	0	0	0	0	****	****	****	16	19	7	0	
	73	WF		****	0	0	0	0	0	0	****	5	11	23	31	0	
	30	BM		0	0	0	0	0	****	****	****	****	8	11	6	0	
	39	BF		****	0	0	0	0	0	****	****	****	5	11	15	0	
	1	OM		0	0	0	0	0	0	0	0	0	0	0	****	0	
	1	OF		0	0	0	0	0	0	0	0	0	0	0	****	0	

**Table 5.11: Deaths (Exclusive of Stillbirths) by Selected Causes, Race-Gender and Age
Louisiana Residents 2003**

Cause of Death and ICD-10 Code	Total	Crude Rate+	Race / Gender	LT 1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +	UNK	
Other disorders of circulatory system (I80-I99)	67	1.5	ALL	0	0	0	0	0	0	****	6	****	11	12	17	16	0	
	11		WM	0	0	0	0	0	0	0	****	0	****	****	****	****	****	0
	28		WF	0	0	0	0	0	0	****	0	****	****	****	****	12	6	0
	13		BM	0	0	0	0	0	0	0	****	****	****	****	****	****	****	0
	15		BF	0	0	0	0	0	0	0	****	****	****	5	****	****	****	0
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Influenza & pneumonia (J10-J18)		908	20.2	ALL	6	****	****	****	****	****	6	14	37	47	112	267	409
272		WM	****		0	****	****	0	0	****	5	10	17	43	93	99	0	
410		WF	****		****	****	0	0	****	****	****	9	14	36	114	225	0	
107		BM	****		0	****	0	****	0	0	****	8	13	20	28	30	0	
112		BF	****		0	0	0	****	0	****	****	10	****	13	30	50	0	
3		OM	0		0	0	0	0	0	0	0	0	0	0	****	****	0	
4		OF	0		0	0	0	0	0	0	0	0	0	0	****	****	0	
Influenza (J10-J11)		15	0.3		ALL	0	0	****	****	****	0	****	0	0	****	****	****	6
	5	WM		0	0	****	****	0	0	0	0	0	****	0	****	****	0	
	7	WF		0	0	0	0	0	0	****	0	0	0	****	0	5	0	
	1	BM		0	0	****	0	0	0	0	0	0	0	0	0	0	0	
	2	BF		0	0	0	0	****	0	0	0	0	0	****	0	0	0	
	0	OM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	OF		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Pneumonia (J12-J18)	893		19.9	ALL	6	****	****	****	****	****	5	14	37	46	110	266	403
267		WM	****		0	0	****	0	0	****	5	10	16	43	92	98	0	
403		WF	****		****	****	0	0	****	****	****	9	14	35	114	220	0	
106		BM	****		0	0	0	****	0	0	****	8	13	20	28	30	0	
110		BF	****		0	0	0	0	0	****	****	10	****	12	30	50	0	
3		OM	0		0	0	0	0	0	0	0	0	0	0	****	****	0	
4		OF	0		0	0	0	0	0	0	0	0	0	0	****	****	0	
Other acute lower respiratory infections (J20-J22)		5	0.1		ALL	****	****	0	0	0	0	0	0	0	0	0	0	****
	0	WM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	WF		0	0	0	0	0	0	0	0	0	0	0	0	****	0	
	1	BM		0	****	0	0	0	0	0	0	0	0	0	0	0	0	
	2	BF		****	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	OM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	OF		0	0	0	0	0	0	0	0	0	0	0	0	0	0	

**Table 5.11: Deaths (Exclusive of Stillbirths) by Selected Causes, Race-Gender and Age
Louisiana Residents 2003**

Cause of Death and ICD-10 Code	Total	Crude Rate+	Race / Gender	LT 1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +	UNK	
Acute bronchitis and bronchiolitis (J20-J21)	5	0.1	ALL	****	****	0	0	0	0	0	0	0	0	0	0	****	0	
	0		WM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2		WF	0	0	0	0	0	0	0	0	0	0	0	0	0	****	0
	1		BM	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0
	2		BF	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chronic Lower Respiratory diseases (J40-J47)	1708	38	ALL	****	****	****	****	5	****	****	14	58	202	449	621	346	0	
	657		WM	0	0	0	0	0	0	0	****	16	70	191	253	126	0	
	732		WF	0	0	0	0	****	0	0	5	19	75	172	284	175	0	
	171		BM	0	****	****	****	****	****	****	****	15	35	43	44	22	0	
	141		BF	****	0	0	0	0	****	****	7	8	22	40	38	21	0	
	6		OM	0	0	0	0	0	0	0	0	0	0	****	****	****	0	
	1		OF	0	0	0	0	0	0	0	0	0	0	0	****	****	0	
	0		OF	0	0	0	0	0	0	0	0	0	0	0	****	****	0	
Bronchitis, chronic and unspecified (J40-J42)	17	0.4	ALL	****	0	0	****	0	0	0	****	****	0	****	****	9	0	
	3		WM	0	0	0	0	0	0	0	0	0	0	0	****	****	0	
	9		WF	0	0	0	0	0	0	0	****	0	0	****	****	5	0	
	1		BM	0	0	0	****	0	0	0	0	0	0	0	0	0	0	
	4		BF	****	0	0	0	0	0	0	0	****	0	0	0	****	0	
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Emphysema (J43)	229	5.1	ALL	0	0	0	0	0	0	0	****	12	42	65	75	34	0	
	92		WM	0	0	0	0	0	0	0	0	****	16	37	26	10	0	
	92		WF	0	0	0	0	0	0	0	****	****	18	18	36	17	0	
	29		BM	0	0	0	0	0	0	0	0	6	5	****	9	5	0	
	13		BF	0	0	0	0	0	0	0	0	****	****	****	****	****	0	
	3		OM	0	0	0	0	0	0	0	0	0	0	****	****	0	0	
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Asthma (J45-J46)	62	1.4	ALL	****	****	****	****	****	****	****	5	5	8	10	12	7	0	
	9		WM	0	0	0	0	0	0	0	****	****	****	****	****	****	0	
	17		WF	0	0	0	0	****	0	0	****	****	****	****	6	****	0	
	16		BM	0	****	****	****	****	****	****	0	****	****	****	****	****	0	
	20		BF	****	0	0	0	0	****	****	****	****	****	5	****	****	0	
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

**Table 5.11: Deaths (Exclusive of Stillbirths) by Selected Causes, Race-Gender and Age
Louisiana Residents 2003**

Cause of Death and ICD-10 Code	Total	Crude Rate+	Race / Gender	LT 1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +	UNK	
Other chronic lower respiratory diseases (J44,J47)	1400	31.1	ALL	0	0	0	0	****	0	0	7	40	152	372	532	296	0	
	553		WM	0	0	0	0	0	0	0	0	0	12	53	153	224	111	0
	614		WF	0	0	0	0	0	0	0	0	****	16	56	149	241	150	0
	125		BM	0	0	0	0	****	0	0	****	7	27	38	34	17	0	0
	104		BF	0	0	0	0	0	0	0	****	5	16	31	32	16	0	0
	3		OM	0	0	0	0	0	0	0	0	0	0	****	0	****	0	0
	1		OF	0	0	0	0	0	0	0	0	0	0	0	****	0	****	0
	20		0.4	ALL	0	0	0	0	0	0	0	0	0	****	7	11	****	0
17	WM	0		0	0	0	0	0	0	0	0	****	5	10	****	0	0	
2	WF	0		0	0	0	0	0	0	0	0	0	****	****	0	0	0	
1	BM	0		0	0	0	0	0	0	0	0	0	****	0	0	0	0	
0	BF	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	OM	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	OF	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
235	5.2	ALL		****	0	0	0	0	****	0	****	8	11	28	66	116	0	0
75		WM	0	0	0	0	0	****	0	****	****	****	6	31	30	0	0	
95		WF	0	0	0	0	0	0	0	****	****	13	16	60	0	0		
24		BM	****	0	0	0	0	0	0	****	****	8	5	7	0	0		
41		BF	0	0	0	0	0	****	0	****	****	****	****	14	19	0	0	
0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
488		10.9	ALL	8	6	0	0	****	0	5	10	34	50	102	161	111	0	0
166	WM		****	****	0	0	0	0	****	****	8	23	36	71	21	0	0	
211	WF		****	0	0	0	0	0	****	****	8	15	43	69	70	0	0	
56	BM		****	****	0	0	****	0	0	****	7	6	12	12	9	0	0	
49	BF		****	****	0	0	0	0	****	****	11	****	9	9	11	0	0	
2	OM		****	0	0	0	0	0	0	0	0	0	****	0	0	0	0	
4	OF		0	0	0	0	0	0	0	****	0	****	****	0	0	0	0	
50	1.1		ALL	0	0	0	0	0	0	****	****	9	8	****	12	14	0	0
9		WM	0	0	0	0	0	0	****	0	****	****	****	****	****	0	0	
21		WF	0	0	0	0	0	0	0	0	****	****	****	5	9	0	0	
12		BM	0	0	0	0	0	0	0	****	0	****	****	0	6	0	0	
6		BF	0	0	0	0	0	0	0	0	****	****	0	0	0	****	0	
2		OM	0	0	0	0	0	0	0	0	****	0	****	0	0	0	0	
0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

**Table 5.11: Deaths (Exclusive of Stillbirths) by Selected Causes, Race-Gender and Age
Louisiana Residents 2003**

Cause of Death and ICD-10 Code	Total	Crude Rate+	Race / Gender	LT 1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +	UNK	
Diseases of appendix (K35-K38)	6	0.1	ALL	0	0	****	****	0	0	****	0	0	****	0	****	****	0	
	0		WM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1		WF	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0
	2		BM	0	0	0	****	0	0	0	0	0	0	0	0	****	0	0
	3		BF	0	0	****	0	0	0	0	0	0	0	****	0	0	****	0
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hernia (K40-K46)	24	0.5	ALL	0	0	0	0	0	0	0	****	****	0	****	7	10	0	
	6		WM	0	0	0	0	0	0	0	0	0	0	0	****	****	****	0
	12		WF	0	0	0	0	0	0	0	0	0	****	0	****	****	6	0
	3		BM	0	0	0	0	0	0	0	0	0	****	0	0	****	0	0
	3		BF	0	0	0	0	0	0	0	0	****	****	0	0	****	0	0
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chronic liver disease and cirrhosis (K70, K73-K74)	345	7.7	ALL	0	0	0	0	0	0	5	36	104	76	64	46	14	0	
	169		WM	0	0	0	0	0	0	****	20	54	41	29	22	****	0	
	82		WF	0	0	0	0	0	0	0	****	19	12	19	21	9	0	
	66		BM	0	0	0	0	0	0	****	10	21	20	8	****	****	0	
	25		BF	0	0	0	0	0	0	****	****	9	****	7	****	0	0	
	2		OM	0	0	0	0	0	0	0	0	****	0	****	0	0	0	
	1		OF	0	0	0	0	0	0	0	0	0	0	0	0	****	0	
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alcoholic liver disease (K70)	126	2.8	ALL	0	0	0	0	0	0	****	18	47	34	16	8	****	0	
	66		WM	0	0	0	0	0	0	0	8	25	19	8	6	0	0	
	21		WF	0	0	0	0	0	0	0	****	10	****	****	****	****	0	
	32		BM	0	0	0	0	0	0	****	5	10	10	****	****	0	0	
	6		BF	0	0	0	0	0	0	0	****	****	****	0	0	0	0	
	1		OM	0	0	0	0	0	0	0	0	****	0	0	0	0	0	
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other chronic liver disease and cirrhosis (K73-K74)	219	4.9	ALL	0	0	0	0	0	0	****	18	57	42	48	38	13	0	
	103		WM	0	0	0	0	0	0	****	12	29	22	21	16	****	0	
	61		WF	0	0	0	0	0	0	0	****	9	8	15	20	8	0	
	34		BM	0	0	0	0	0	0	****	5	11	10	****	****	****	0	
	19		BF	0	0	0	0	0	0	****	0	8	****	7	****	0	0	
	1		OM	0	0	0	0	0	0	0	0	0	0	****	0	0	0	
	1		OF	0	0	0	0	0	0	0	0	0	0	0	0	****	0	
	1		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

**Table 5.11: Deaths (Exclusive of Stillbirths) by Selected Causes, Race-Gender and Age
Louisiana Residents 2003**

Cause of Death and ICD-10 Code	Total	Crude Rate+	Race / Gender	LT 1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +	UNK	
Cholelithiasis and other disorders of gallbladder (K80-K82)	43	1	ALL	0	0	0	0	0	0	0	****	6	6	****	16	9	0	
	11		WM	0	0	0	0	0	0	0	0	****	****	****	****	7	****	0
	20		WF	0	0	0	0	0	0	0	0	****	****	****	****	8	6	0
	3		BM	0	0	0	0	0	0	0	0	****	****	****	****	0	0	0
	9		BF	0	0	0	0	0	0	0	0	****	****	****	0	****	****	0
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Nephritis, nephrotic syndrome and nephrosis (N00-N07, N17-N19, N25-N27)		1058	23.5	ALL	6	0	0	****	****	****	7	26	70	145	211	329	260
297		WM	****		0	0	0	****	0	****	10	11	31	61	112	67	0	
311		WF	****		0	0	0	0	0	0	0	7	34	54	106	109	0	
189		BM	****		0	0	0	0	****	****	10	24	36	42	42	30	0	
248		BF	****		0	0	****	****	0	****	6	27	43	48	67	51	0	
7		OM	0		0	0	0	0	0	0	0	****	0	****	****	****	0	
6		OF	0		0	0	0	0	0	0	0	0	****	****	****	****	0	
Acute and rapidly progressive nephritic and nephrotic syndrome (N00-N01, N04)		0	0		ALL	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	WM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	WF		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	BM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	BF		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	OM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	OF		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Chronic glomerulone- phritis, nephritis & nephritis unspecified, & renal sclerosis unspecified (N02-N03, N05-N07, N26)	7		0.2	ALL	0	0	0	0	0	0	0	****	0	****	****	****	0
0		WM	0		0	0	0	0	0	0	0	0	0	0	0	0		
1		WF	0		0	0	0	0	0	0	0	0	0	****	0	0		
0		BM	0		0	0	0	0	0	0	0	0	0	0	0	0		
4		BF	0		0	0	0	0	0	0	0	0	0	****	****	****		
2		OM	0		0	0	0	0	0	0	0	****	0	****	0	0		
0		OF	0		0	0	0	0	0	0	0	0	0	0	0	0		
Renal failure (N17-N19)		1051	23.4		ALL	6	0	0	****	****	****	7	26	69	145	208	328	258
	297	WM		****	0	0	0	****	0	****	10	11	31	61	112	67	0	
	310	WF		****	0	0	0	0	0	0	0	7	34	53	106	109	0	
	189	BM		****	0	0	0	0	****	****	10	24	36	42	42	30	0	
	244	BF		****	0	0	****	****	0	****	6	27	43	47	66	49	0	
	5	OM		0	0	0	0	0	0	0	0	0	0	****	****	****	0	
	6	OF		0	0	0	0	0	0	0	0	0	****	****	****	****	0	

**Table 5.11: Deaths (Exclusive of Stillbirths) by Selected Causes, Race-Gender and Age
Louisiana Residents 2003**

Cause of Death and ICD-10 Code	Total	Crude Rate+	Race / Gender	LT 1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +	UNK	
Infections of kidney (N10-N12, N13.6, N15.1)	11	0.2	ALL	0	0	0	0	0	0	0	0	0	****	****	6	****	0	
	1		WM	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
	4		WF	0	0	0	0	0	0	0	0	0	0	0	****	****	****	0
	1		BM	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0
	5		BF	0	0	0	0	0	0	0	0	0	0	****	0	****	****	0
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyperplasia of prostate (N40)	10	0.2	ALL	0	0	0	0	0	0	0	0	0	0	****	5	****	0	
	8		WM	0	0	0	0	0	0	0	0	0	0	0	****	****	****	0
	0		WF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2		BM	0	0	0	0	0	0	0	0	0	0	0	0	****	****	0
	0		BF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pregnancy, childbirth and the puerperium (O00-O99)	12	0.3	ALL	0	0	0	0	****	****	5	****	0	0	0	0	0	0	
	0		WM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	4		WF	0	0	0	0	0	****	****	****	0	0	0	0	0	0	
	0		BM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	8		BF	0	0	0	0	****	****	****	****	0	0	0	0	0	0	
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other complications of pregnancy, childbirth and the puerperium (O10-O99)	11	0.2	ALL	0	0	0	0	****	****	5	****	0	0	0	0	0	0	
	0		WM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3		WF	0	0	0	0	0	****	****	****	0	0	0	0	0	0	
	0		BM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	8		BF	0	0	0	0	****	****	****	****	0	0	0	0	0	0	
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Certain conditions originating in the perinatal period (P00-P96)	280	6.2	ALL	279	****	0	0	0	0	0	0	0	0	0	0	0	0	
	38		WM	38	0	0	0	0	0	0	0	0	0	0	0	0	0	
	46		WF	46	0	0	0	0	0	0	0	0	0	0	0	0	0	
	117		BM	117	0	0	0	0	0	0	0	0	0	0	0	0	0	
	73		BF	73	0	0	0	0	0	0	0	0	0	0	0	0	0	
	4		OM	****	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2		OF	****	****	0	0	0	0	0	0	0	0	0	0	0	0	

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Louisiana Residents 2003**

Cause of Death and ICD-10 Code	Total	Crude Rate+	Race / Gender	LT 1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +	UNK	
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	198	4.4	ALL	109	11	****	6	8	****	6	9	14	9	5	9	6	0	
	46		WM	25	****	****	****	****	0	****	****	****	****	****	****	****	0	0
	57		WF	29	****	0	****	0	****	****	****	5	****	5	****	6	****	0
	51		BM	30	5	****	****	****	0	****	****	****	****	0	****	****	****	0
	40		BF	23	****	0	****	****	0	****	0	0	5	****	****	0	****	0
	2		OM	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2		OF	0	0	0	****	0	0	0	0	0	0	0	****	0	0	0
	Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)		714	15.9	ALL	84	7	0	****	0	10	22	32	33	47	67	133	278
179		WM	20		****	0	0	0	7	8	12	15	13	21	33	49	0	
303		WF	19		0	0	0	0	****	****	8	5	10	26	66	166	0	
101		BM	23		****	0	****	0	****	9	5	9	14	8	16	12	0	
126		BF	21		****	0	0	0	0	****	6	****	10	12	18	48	0	
2		OM	****		0	0	0	0	0	0	****	0	0	0	0	0	0	
3		OF	0		0	0	0	0	0	0	0	0	0	0	0	0	****	0
All other diseases (Residual) (Other in D65-N98)		3321	73.9		ALL	26	16	8	10	26	23	84	174	289	355	481	850	979
	937	WM		7	****	****	****	7	7	26	57	105	130	151	259	180	0	
	1399	WF		5	****	****	****	5	6	9	34	56	104	187	395	592	0	
	442	BM		9	6	****	****	7	****	24	46	77	65	70	82	48	0	
	528	BF		5	5	****	****	7	8	25	37	51	52	71	111	153	0	
	8	OM		0	0	0	0	0	0	0	0	0	****	****	****	****	0	
	7	OF		0	0	0	0	0	0	0	0	0	****	****	****	****	0	
	Accidents (V01-X59, Y85-Y86)	2143		47.7	ALL	33	38	25	27	154	229	294	362	296	204	142	178	161
1060		WM	12		11	6	8	89	137	168	195	152	97	70	63	52	0	
490		WF	6		****	****	****	36	29	55	66	49	47	41	75	77	0	
396		BM	8		16	10	8	20	46	48	74	67	47	17	23	12	0	
175		BF	7		7	6	9	8	14	18	22	25	10	13	16	20	0	
14		OM	0		0	0	0	0	****	****	5	****	****	0	****	0	0	
8		OF	0		0	0	0	****	****	****	0	****	****	****	0	0	0	
Transport accidents (V01-V99, Y85)		1011	22.5		ALL	****	19	11	17	111	148	157	168	145	95	58	58	22
	480	WM		****	****	****	5	57	81	78	80	76	43	25	23	5	0	
	203	WF		0	****	****	****	33	18	30	29	16	19	19	23	10	0	
	223	BM		****	8	6	5	14	33	28	42	37	28	8	8	5	0	
	87	BF		0	****	****	5	6	13	16	13	14	****	5	****	****	0	
	11	OM		0	0	0	0	0	****	****	****	****	****	0	****	0	0	
	7	OF		0	0	0	0	****	****	****	0	****	0	****	0	0	0	

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Louisiana Residents 2003**

Cause of Death and ICD-10 Code	Total	Crude Rate+	Race / Gender	LT 1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +	UNK
Motor vehicle accidents (V02-04, V09.0,V09.2,V12-14,V19.0-19.2, V19.4-V19.6,V20-V79,V80.3- V80.5,V81.0-81.1, V82.0-V82.1, V83-86, V87.0-V87.8,V88.0-V88.8, V89.0,V89.2)	926	20.6	ALL	****	18	11	14	106	142	143	154	129	76	56	53	22	0
	429		WM	****	****	****	****	53	77	72	71	66	33	23	19	5	0
	193		WF	0	****	****	0	33	18	27	28	14	17	19	23	10	0
	204		BM	****	8	6	5	13	32	25	39	33	22	8	7	5	0
	84		BF	0	****	****	5	6	13	15	12	14	****	5	****	****	0
	10		OM	0	0	0	0	0	****	****	****	****	****	0	****	0	0
	6		OF	0	0	0	0	****	****	****	0	****	0	****	0	0	0
	Other land transport accidents (V01,V05-V06,V09.1,V09.3-V09.9,V10-V11,V15-V18, V19.3,V19.8-19.9, V80.0-80.2,V80.6-80.9, V81.2-81.9,V82.2-82.9, V87.9,V88.9,V89.1,V89.3,V89.9)		20	0.4	ALL	0	0	0	0	****	****	****	****	5	7	0	****
9	WM	0	0		0	0	****	****	****	****	****	****	0	****	0	0	
2	WF	0	0		0	0	0	0	0	0	****	****	0	0	0	0	
7	BM	0	0		0	0	0	0	0	****	****	****	0	****	0	0	
2	BF	0	0		0	0	0	0	0	****	0	****	0	0	0	0	
0	OM	0	0		0	0	0	0	0	0	0	0	0	0	0	0	
0	OF	0	0		0	0	0	0	0	0	0	0	0	0	0	0	
Water, air and space, and other and unspecified transport accidents and their sequelae (V90-V99,Y85)	65	1.4	ALL		0	****	0	****	****	5	13	11	11	12	****	****	0
42	WM		0	****	0	****	****	****	5	8	8	8	8	****	****	0	0
8	WF		0	0	0	****	0	****	****	****	****	****	****	0	0	0	0
12	BM		0	0	0	0	****	****	****	****	****	****	****	0	0	0	0
1	BF		0	0	0	0	0	0	****	0	****	0	0	0	0	0	
1	OM		0	0	0	0	0	0	****	0	****	0	0	0	0	0	
1	OF		0	0	0	0	0	****	0	0	0	0	0	0	0	0	
Nontransport accidents (W00-X59,Y86)	1132		25.2	ALL	31	19	14	10	43	81	137	194	151	109	84	120	139
580	WM	11		7	****	****	32	56	90	115	76	54	45	40	47	0	
287	WF	6		****	****	0	****	11	25	37	33	28	22	52	67	0	
173	BM	7		8	****	****	6	13	20	32	30	19	9	15	7	0	
88	BF	7		****	****	****	****	****	****	9	11	6	8	13	18	0	
3	OM	0		0	0	0	0	0	0	****	****	****	0	0	0	0	
1	OF	0		0	0	0	0	0	0	0	0	****	0	0	0	0	
Falls (W00-W19)	128	2.8		ALL	****	0	0	0	****	0	****	6	13	21	12	35	36
60	WM		0	0	0	0	****	0	****	****	5	12	6	14	16	0	
40	WF		****	0	0	0	0	0	0	****	****	5	****	17	12	0	
16	BM		0	0	0	0	0	0	****	****	6	****	****	****	****	0	
12	BF		0	0	0	0	0	0	0	0	****	0	****	****	6	0	
0	OM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	OF		0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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Louisiana Residents 2003**

Cause of Death and ICD-10 Code	Total	Crude Rate+	Race / Gender	LT 1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +	UNK	
Accidental discharge of firearms (W32-W34)	49	1.1	ALL	0	****	0	****	5	8	9	6	5	9	****	****	0	0	
	30		WM	0	0	0	****	****	****	****	****	****	****	9	****	****	0	0
	5		WF	0	0	0	0	****	****	****	****	0	****	0	****	0	0	0
	12		BM	0	****	0	0	****	****	****	****	****	0	0	0	0	0	0
	2		BF	0	0	0	0	0	****	0	****	0	0	0	0	0	0	0
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Accidental drowning and submersion (W65-W74)	76	1.7	ALL	0	8	5	5	****	12	12	11	7	6	****	****	****	0	
	46		WM	0	5	****	0	****	6	9	10	****	****	5	****	****	0	0
	10		WF	0	****	0	0	0	****	****	****	0	****	0	****	****	****	0
	16		BM	0	****	0	****	****	5	****	****	****	****	****	0	0	0	0
	4		BF	0	0	****	****	****	0	0	0	0	0	0	0	0	****	0
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Accidental exposure to smoke, fire and flames (X00-X09)	86	1.9	ALL	****	9	7	****	****	****	9	9	14	9	12	8	****	0	
	25		WM	0	****	0	0	****	****	****	****	5	5	****	****	****	****	0
	19		WF	0	0	****	0	0	0	****	****	****	****	****	****	****	****	0
	29		BM	****	5	****	0	0	0	****	****	****	6	****	****	5	0	0
	13		BF	0	****	****	****	****	0	****	****	****	0	****	****	0	0	0
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Accidental poisoning and exposure to noxious substances (X40-X49)	403	9	ALL	****	0	0	****	19	49	88	128	71	26	8	10	****	0	
	247		WM	0	0	0	0	15	39	61	78	41	6	****	****	****	0	0
	105		WF	****	0	0	0	****	9	19	30	20	15	****	****	****	****	0
	33		BM	0	0	0	0	****	****	7	14	5	****	****	****	****	****	0
	16		BF	0	0	0	****	0	0	****	5	****	****	****	****	****	****	0
	2		OM	0	0	0	0	0	0	0	****	****	****	****	****	****	****	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other and unspecified nontransport accidents and their sequelae (W20-W31,W35-W64,W75-W99,X10-X39,X50-X59,Y86)	390	8.7	ALL	28	****	****	****	11	10	17	34	41	38	45	65	96	0	
	172		WM	11	****	0	****	9	7	13	15	18	19	27	20	30	0	
	108		WF	****	0	****	0	0	0	0	****	5	6	9	28	51	0	
	67		BM	6	0	0	0	****	****	****	13	12	8	5	9	5	0	
	41		BF	7	0	****	0	0	0	0	****	6	****	****	8	10	0	
	1		OM	0	0	0	0	0	0	0	0	0	****	0	0	0	0	
	1		OF	0	0	0	0	0	0	0	0	0	****	0	0	0	0	
	1		OF	0	0	0	0	0	0	0	0	0	0	****	0	0	0	

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Intentional self-harm (suicide) (X60-X84,Y87.0)	456	10.1	ALL	0	0	0	****	32	47	76	104	76	53	34	27	5	0
	312		WM	0	0	0	****	20	32	45	66	49	41	27	26	5	0
	83		WF	0	0	0	****	9	****	12	23	21	8	****	****	0	0
	42		BM	0	0	0	0	****	8	15	10	****	****	****	0	0	0
	11		BF	0	0	0	0	0	****	****	****	****	****	****	0	0	0
	3		OM	0	0	0	0	0	****	0	****	0	0	0	0	0	0
	5		OF	0	0	0	0	****	0	****	****	****	0	0	0	0	0
	Intentional self-harm (suicide) by discharge of firearms (X72-X74)		313	7	ALL	0	0	0	****	20	37	43	62	49	39	31	26
228		WM	0		0	0	****	15	24	28	40	33	33	24	26	****	0
47		WF	0		0	0	****	****	****	****	15	14	****	****	0	0	0
31		BM	0		0	0	0	****	6	12	5	****	****	****	0	0	0
3		BF	0		0	0	0	0	****	0	****	0	0	****	0	0	0
3		OM	0		0	0	0	0	****	0	****	0	0	0	0	0	0
1		OF	0		0	0	0	0	0	****	0	0	0	0	0	0	0
Intentional self-harm (suicide) by other and unspecified means and their sequelae (X60-X71,X75-X84,Y87.0)		143	3.2		ALL	0	0	0	0	12	10	33	42	27	14	****	****
	84	WM		0	0	0	0	5	8	17	26	16	8	****	0	****	0
	36	WF		0	0	0	0	6	0	10	8	7	****	0	****	0	0
	11	BM		0	0	0	0	0	****	****	5	0	****	0	0	0	0
	8	BF		0	0	0	0	0	0	****	****	****	****	0	0	0	0
	0	OM		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	OF		0	0	0	0	****	0	0	****	****	0	0	0	0	0
	Assault (homicide) (X85-Y09,Y87.1)	596		13.3	ALL	****	7	****	6	64	112	191	100	63	31	7	7
80		WM	****		0	****	****	****	8	14	15	22	11	****	****	****	0
36		WF	****		0	0	0	****	0	9	12	****	5	****	****	0	0
407		BM	****		5	****	****	53	86	149	60	34	10	****	****	0	0
66		BF	0		****	****	****	7	16	17	12	****	****	****	****	0	0
6		OM	0		0	0	0	0	****	****	0	****	****	0	0	0	0
1		OF	0		0	0	0	0	0	0	****	0	0	0	0	0	0
Assault (homicide) by discharge of firearms (X93-X95)		466	10.4		ALL	0	0	****	5	50	99	175	71	40	18	****	****
	56	WM		0	0	****	0	****	7	11	11	16	6	****	0	0	0
	19	WF		0	0	0	0	****	0	7	5	****	****	****	****	0	0
	347	BM		0	0	0	****	46	79	142	47	22	7	0	****	0	0
	40	BF		0	0	0	****	****	11	14	8	0	****	0	****	0	0
	4	OM		0	0	0	0	0	****	****	0	****	0	0	0	0	0
	0	OF		0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table 5.11: Deaths (Exclusive of Stillbirths) by Selected Causes, Race-Gender and Age
Louisiana Residents 2003**

Cause of Death and ICD-10 Code	Total	Crude Rate+	Race / Gender	LT 1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +	UNK	
Assault (homicide) by other and unspecified means and their sequelae (X85-X92,X96-Y09,Y87.1)	130	2.9	ALL	****	7	****	****	14	13	16	29	23	13	****	****	****	0	
	24		WM	****	0	0	****	0	****	****	****	****	6	5	0	****	****	0
	17		WF	****	0	0	0	****	0	****	****	7	****	****	0	****	0	0
	60		BM	****	5	****	0	7	7	7	13	12	****	****	****	****	0	0
	26		BF	0	****	****	0	5	5	****	****	****	****	****	****	0	0	0
	2		OM	0	0	0	0	0	0	****	0	0	****	0	0	0	0	0
	1		OF	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0
	Legal intervention (Y35,Y89.0)		6	0.1	ALL	0	0	0	0	0	****	****	****	0	0	0	0	0
1		WM	0		0	0	0	0	0	0	****	0	0	0	0	0	0	
0		WF	0		0	0	0	0	0	0	0	0	0	0	0	0	0	
5		BM	0		0	0	0	0	****	****	****	0	0	0	0	0	0	
0		BF	0		0	0	0	0	0	0	0	0	0	0	0	0	0	
0		OM	0		0	0	0	0	0	0	0	0	0	0	0	0	0	
0		OF	0		0	0	0	0	0	0	0	0	0	0	0	0	0	
Events of undetermined intent (Y10-Y34,Y87.2,Y89.9)		103	2.3		ALL	****	0	0	****	****	15	22	34	21	5	0	****	0
	51	WM		****	0	0	0	****	6	12	14	12	****	0	****	0	0	
	41	WF		0	0	0	0	0	8	8	18	5	****	0	0	0	0	
	9	BM		0	0	0	****	0	****	0	****	****	0	0	0	0	0	
	1	BF		0	0	0	0	0	0	****	0	0	0	0	0	0	0	
	1	OM		0	0	0	0	0	0	****	0	0	0	0	0	0	0	
	0	OF		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Discharge of firearms, undetermined intent (Y22-Y24)	2		0	ALL	0	0	0	****	0	0	****	0	0	0	0	0	0
1		WM	0		0	0	0	0	0	****	0	0	0	0	0	0	0	
0		WF	0		0	0	0	0	0	0	0	0	0	0	0	0	0	
1		BM	0		0	0	****	0	0	0	0	0	0	0	0	0	0	
0		BF	0		0	0	0	0	0	0	0	0	0	0	0	0	0	
0		OM	0		0	0	0	0	0	0	0	0	0	0	0	0	0	
0		OF	0		0	0	0	0	0	0	0	0	0	0	0	0	0	
Other and unspecified events of undetermined intent and their sequelae (Y10-Y21,Y25-Y34,Y87.2,Y89.9)		101	2.2		ALL	****	0	0	****	****	15	21	34	21	5	0	****	0
	50	WM		****	0	0	0	****	6	11	14	12	****	0	****	0	0	
	41	WF		0	0	0	0	0	8	8	18	5	****	0	0	0	0	
	8	BM		0	0	0	****	0	****	0	****	****	0	0	0	0	0	
	1	BF		0	0	0	0	0	0	****	0	0	0	0	0	0	0	
	1	OM		0	0	0	0	0	0	****	0	0	0	0	0	0	0	
	0	OF		0	0	0	0	0	0	0	0	0	0	0	0	0	0	

**Table 5.11: Deaths (Exclusive of Stillbirths) by Selected Causes, Race-Gender and Age
Louisiana Residents 2003**

Cause of Death and ICD-10 Code	Total	Crude Rate+	Race / Gender	LT 1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +	UNK	
Operations of war and their sequelae (Y36,Y89.1)	1	0	ALL	0	0	0	0	0	0	0	0	0	****	0	0	0	0	
	0		WM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		WF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1		BM	0	0	0	0	0	0	0	0	0	0	****	0	0	0	0
	0		BF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Complications of medical and surgical care (Y40-Y84,Y88)	54	1.2	ALL	0	0	0	****	****	0	****	****	5	8	9	17	8	0	
	16		WM	0	0	0	0	****	0	0	****	****	****	****	5	****	0	
	14		WF	0	0	0	0	0	0	0	0	0	0	5	****	****	0	
	9		BM	0	0	0	0	0	0	0	0	****	****	0	5	****	0	
	15		BF	0	0	0	****	0	0	****	****	****	****	****	****	****	****	0
	0		OM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0		OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

+ Crude Death Rate per 100,000 population
**** Cells suppressed to protect confidentiality



INFANT AND MATERNAL MORTALITY

INTRODUCTION

Purpose of Infant Mortality and Maternal Mortality Surveillance

The rate of infant deaths, i.e., deaths to babies between birth and 1 year of age, is a basic measure of the health of a population. High infant mortality rates reflect unmet medical care needs and unfavorable environmental, economic, nutritional, educational, and sanitation conditions. Infant mortality surveillance is used to identify factors that place infants at high risk of death, so that medical, social, and economic interventions can be directed more effectively to reduce the risk.

An increased risk of infant death is related to a number of factors, including extremes in maternal age at birth (under 19 or over 40 years), fewer than 2 years between births, birth under conditions of poor maternal health or nutrition, and use of chemical toxins such as alcohol, drugs, and cigarettes during pregnancy. Many of these factors are also associated with low birthweight. After the first month of life, poor infant nutrition, poor hygiene, and infectious diseases all increase the risk of infant mortality.

Maternal mortality is defined as deaths from puerperal causes, i.e., complications of pregnancy, childbirth, and the period after childbirth. These deaths can be related to previously existing maternal health problems, or they can occur from acute conditions arising during pregnancy, labor, or delivery. Such deaths are influenced not only by access to and adequacy of a woman's obstetric care, but also by her age, nutritional status, and socioeconomic level. Comparisons of maternal mortality rates among populations help identify pregnant women at risk of dying from complications of pregnancy or childbirth so that proactive measures (e.g., education, nutritional supplementation) can be taken to minimize the risk.

Source of Data: Death Certificates

Infant mortality information presented in this report is gathered from data recorded on the *Certificate of Death* for deaths that occurred to infants born to Louisiana residents during the 2003 calendar year. Maternal mortality data are also collected from the *Certificate of Death*. Data are recorded on death certificates by funeral directors, who solicit demographic information from available next of kin, and by physicians or coroners, who record information on time, place, and cause of death. Louisiana law requires that funeral directors send death certificates to the Vital Records Registry within five days of occurrence, and that the identities of persons included in the death registry be kept confidential.

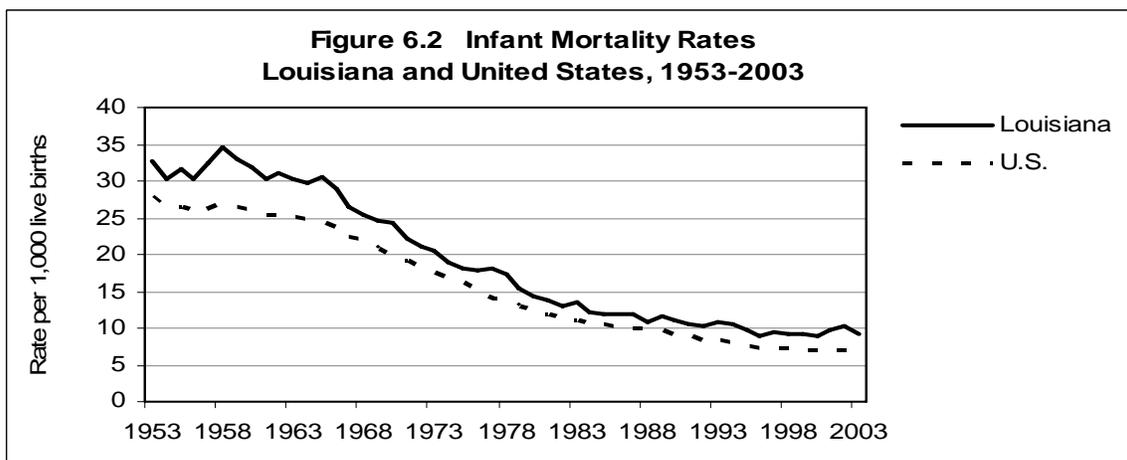
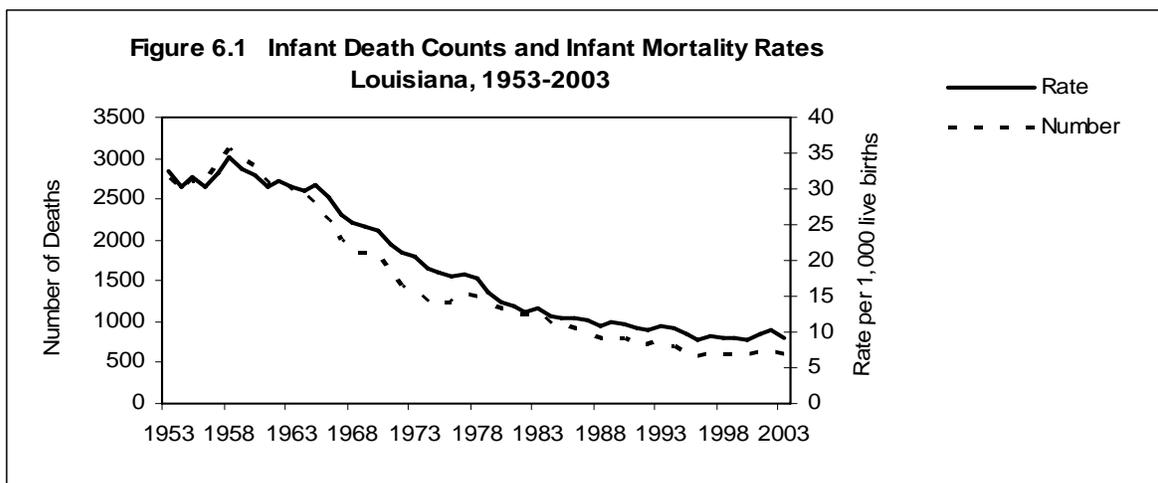
Death statistics are compiled in accordance with World Health Organization (WHO) regulations, which require member nations to classify causes of death according to the revision of the International Statistical Classification of Diseases (ICD) in effect at the time of death. Deaths that occurred in 2003 are coded in accordance with the tenth revision (ICD-10). All of the causes of death described in this report are **underlying causes of death**, defined as the disease or injury that initiated the sequence of events leading to death. Secondary causes of death, which also are recorded on the death certificate, are not presented in this report.

INFANT MORTALITY COUNTS AND RATES

In 2003, there were 604 infant deaths and 661 in 2002. Louisiana's 2003 infant mortality rate was 9.7 per 1,000 live births.

To help identify factors that lead to infant deaths, infant mortality is divided into two categories based on the child's age at death. Deaths occurring during the first 27 days of life are labeled **neonatal deaths**, while those occurring from 28 days through 364 days of age are termed **postneonatal deaths**. In general, neonatal deaths reflect problems with heredity, prenatal development, and the birth process; postneonatal deaths are influenced by environmental factors, such as nutrition, hygiene, and accidents. The distinction between these two periods, however, has blurred in recent years because of increased survival of premature infants due to advances in neonatology.

Since the mid-1960s, infant mortality rates for both Louisiana and the United States have declined, largely due to advances in the development and use of antibiotics and vaccines, and improvements in the practice of neonatology.



Infant Mortality by Infant Race

Of the 604 infant deaths to Louisiana residents in 2003, 237 (39.2%) occurred among whites, 358 (59.3%) among blacks, and 9 (1.5%) among other races. The racial difference in mortality rates has existed for many years at both the state and national levels.

Table 6.3: Number of Infant Deaths and Infant Mortality Rates Louisiana and United States, 1984-2003

Year	Louisiana			United States			
	Number	Infant Mortality Rate ¹	Neonatal Mortality Rate ²	Postneonatal Mortality Rate ³	Infant Mortality Rate ¹	Neonatal Mortality Rate ²	Postneonatal Mortality Rate ³
1984	984	12.1	8.0	4.1	10.8	7.0	3.8
1985	966	11.9	7.7	4.2	10.6	7.0	3.7
1986	925	11.9	7.7	4.1	10.4	6.7	3.6
1987	870	11.8	7.7	4.1	10.1	6.5	3.6
1988	808	10.9	7.0	4.0	10.0	6.3	3.6
1989	834	11.5	7.3	4.2	9.8	6.2	3.6
1990	796	11.0	6.7	4.4	9.2	5.8	3.4
1991	754	10.5	6.6	3.9	8.9	5.6	3.4
1992	736	10.4	6.6	3.9	8.5	5.4	3.1
1993	752	10.8	6.8	4.0	8.4	5.3	3.1
1994	715	10.5	7.0	3.5	8.0	5.1	2.9
1995	639	9.7	6.4	3.3	7.6	4.9	2.7
1996	586	9.0	5.6	3.4	7.3	4.8	2.5
1997	629	9.5	6.2	3.3	7.2	4.8	2.5
1998	606	9.1	5.9	3.2	7.2	4.8	2.4
1999	618	9.2	5.8	3.4	7.1	4.7	2.3
2000	603	8.9	5.7	3.2	6.9	4.6	2.3
2001	642	9.8	6.4	3.4	6.9	4.6	2.3
2002	661	10.2	6.6	3.6	7.0	4.7	2.3
2003	304	9.3	5.7	3.6	6.8	4.6	2.2

¹Infant Mortality Rate = deaths to infants under 1 year, per 1,000 live births
²Neonatal Mortality Rate = deaths to infants under 28 days, per 1,000 live births
³Postneonatal Mortality Rate = deaths to infants between 28 and 364 days, per 1,000 live births
 Source: Louisiana State Center for Health Statistics
 National Vital Statistics Report, Volume 54, Number 16, table 6, p.21.

Table 6.4: Infant Mortality Rates by Age at Death and Infant Race Louisiana, 2003

Race	Rate ⁺ by Age (in Days) at Death						Combined Rates			
	Under 1	1-6	7-13	14-20	21-27	28-364	Hebdomadal ¹	Neonatal ²	Perinatal ³	Infant ⁴
All	3.3	1.1	0.7	0.4	0.2	3.6	4.5	5.7	12.7	9.3
White	2.2	0.8	0.4	0.4	0.2	2.5	3	3.9	9.1	6.4
Black	5.1	1.5	1.1	0.5	0.2	5.3	6.6	8.4	18	13.8
Other	0.6	2.5	0.6	-	-	1.9	3.1	3.8	9.3	5.6

⁺Rate per 1,000 live births in age category
¹Hebdomadal mortality rate = deaths to infants under 7 days, per 1,000 live births
²Neonatal mortality rate = deaths to infants under 28 days, per 1,000 live births
³Perinatal mortality rate = fetal deaths + deaths to infants under 7 days, per 1,000 fetal deaths + live births
⁴Infant mortality rate = deaths to infants under 1 year, per 1,000 live births

Infant mortality rates for blacks have historically been lower in Louisiana than in the United States. Louisiana's infant mortality rates among whites have historically been very similar to those of the nation, and 2003 mirrored the trend (Figure 6.3 and Table 6.5).

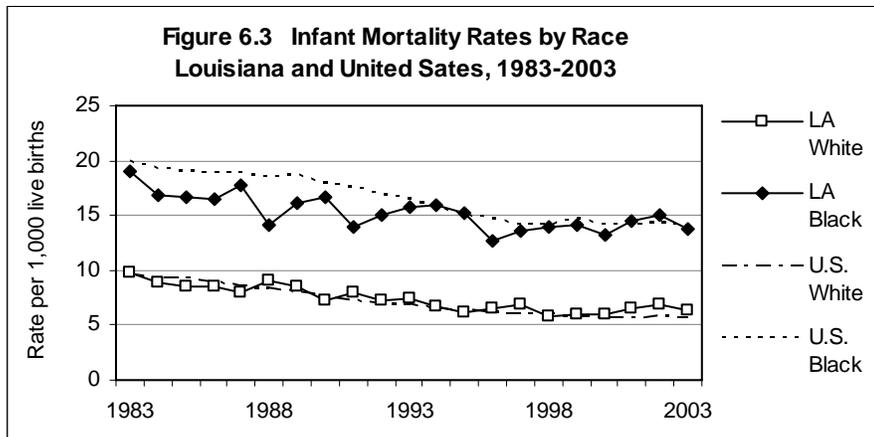


Table 6.5: Infant Mortality Rates, Neonatal Mortality Rates, and Postneonatal Mortality Rates Louisiana and United States, 1983-2003

Year	Infant Mortality Rate ¹				Neonatal Mortality Rate ²				Postneonatal Mortality Rate ³			
	Louisiana		United States		Louisiana		United States		Louisiana		United States	
	White	Black	White	Black	White	Black	White	Black	White	Black	White	Black
1983	9.8	19.1	9.6	20.0	6.6	12.5	6.3	12.9	3.2	6.6	3.3	7.0
1984	8.9	16.9	9.3	19.2	6.0	11.2	6.1	12.3	2.9	5.7	3.2	6.8
1985	8.6	16.7	9.2	19.0	5.9	10.5	6.0	12.6	2.7	6.2	3.2	6.4
1986	8.6	16.5	8.8	18.9	5.9	10.3	5.7	12.3	2.7	6.2	3.1	6.6
1987	8.0	17.7	8.5	18.8	5.1	11.7	5.4	12.3	2.9	6.0	3.1	6.4
1988	9.0	14.1	8.4	18.5	5.6	9.2	5.3	12.1	3.4	4.9	3.1	6.5
1989	8.5	16.1	8.1	18.6	5.5	10.0	5.1	11.9	3.0	6.1	2.9	6.7
1990	7.2	16.7	7.6	18.0	4.4	10.0	4.8	11.6	2.8	6.7	2.8	6.4
1991	8.0	14.0	7.3	17.6	5.3	8.5	4.5	11.2	2.7	5.5	2.8	6.3
1992	7.3	15.0	6.9	16.8	4.5	9.6	4.3	10.8	2.8	5.4	2.6	6.0
1993	7.4	15.7	6.8	16.5	4.5	10.0	4.3	10.7	2.9	5.7	2.5	5.8
1994	6.7	16.0	6.6	15.8	5.0	11.0	4.2	10.2	1.7	5.0	2.4	5.6
1995	6.1	15.2	6.3	15.1	4.1	10.0	4.1	9.8	2.0	5.2	2.2	5.3
1996	6.5	12.7	6.1	14.7	3.9	8.0	4.0	9.6	2.6	4.7	2.1	5.1
1997	6.8	13.6	6.0	14.2	4.4	8.9	4.0	9.4	2.4	4.7	2.0	4.8
1998	5.8	14.0	6.0	14.3	3.8	9.2	4.0	9.5	2.0	4.8	2.0	4.8
1999	5.9	14.1	5.8	14.6	3.7	9.1	3.9	9.8	2.2	5.1	1.9	4.8
2000	5.9	13.2	5.7	14.1	3.8	8.5	3.8	9.4	2.1	4.7	1.9	4.7
2001	6.5	14.5	5.7	14.2	4.1	9.5	3.8	9.3	2.4	5.0	1.9	4.8
2002	6.9	15.0	5.8	14.4	4.4	9.7	3.9	9.5	2.5	5.3	1.9	4.8
2003	6.4	13.8	5.7	14.0	3.9	8.4	3.9	9.2	2.5	5.3	1.9	4.3

¹Infant Mortality Rate = deaths to infants under 1 year, per 1,000 live births
²Neonatal Mortality Rate = deaths to infants under 28 days, per 1,000 live births
³Postneonatal Mortality Rate = deaths to infant between 28 and 364 days, per 1,000 live births
 Source: Louisiana State Center for Health Statistics
 National Vital Statistics Report, Volume 54, Number 16, table 6, p.21.

Infant Mortality by Infant Gender and Race

As in past years, Louisiana’s infant mortality rate for males in 2003 was higher than the rate for females. Rates for black infants were higher than those for white infants, while rates for black males were higher than those for black females and whites of both sexes (Figure 6.4, Table 6.6).

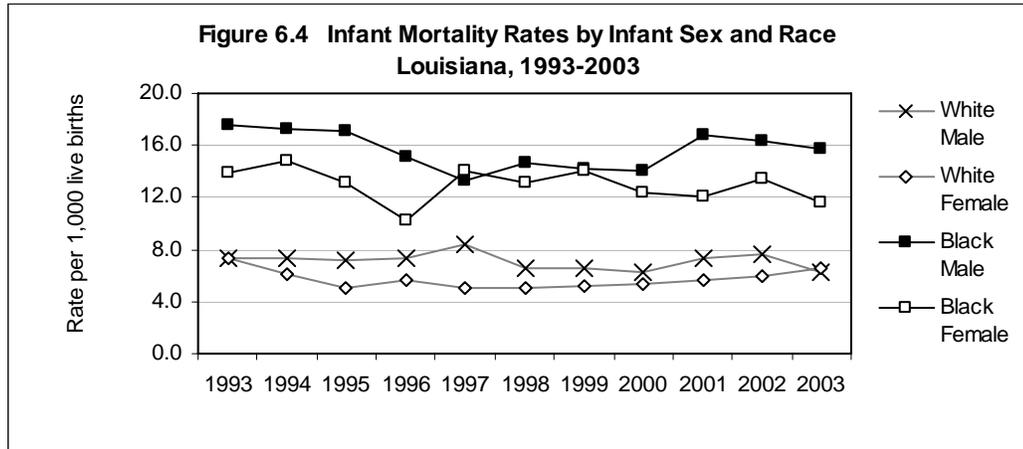


Table 6.6: Infant Mortality Rates* by Infant Gender and Race Louisiana, 1993-2003

Year	Total	White		Black	
		Male	Female	Male	Female
1993	10.8	7.4	7.3	17.5	13.9
1994	10.5	7.3	6.1	17.2	14.8
1995	9.7	7.1	5.0	17.1	13.2
1996	9.0	7.3	5.6	15.1	10.3
1997	9.5	8.4	5.1	13.3	14.0
1998	9.1	6.5	5.0	14.7	13.2
1999	9.2	6.6	5.2	14.2	14.0
2000	8.9	6.3	5.4	14.1	12.3
2001	9.8	7.3	5.7	16.8	12.0
2002	10.2	7.7	5.9	1.6	1.3
2003	9.3	6.2	6.6	15.7	11.6

*Rate per 1,000 race/sex-specific live births

CAUSES OF INFANT DEATH

Leading Causes of Infant Death

Perinatal conditions, congenital malformations, and ill-defined conditions, including sudden infant death syndrome (SIDS), accounted for 46.2%, 18.0%, and 25.5% of infant deaths in Louisiana in 2003 respectively (Table 6.5). Historically, these three have been the leading causes of death among infant deaths in the state (Figure 6.5 and Figure 6.6, Table 6.7 on page 121).

Irrespective of cause of death, 35.6% of all infant deaths (215 deaths) occurred within the first day of life, and 38.6% (233 deaths) occurred between the 28th and 364th day of life (Table 6.7).

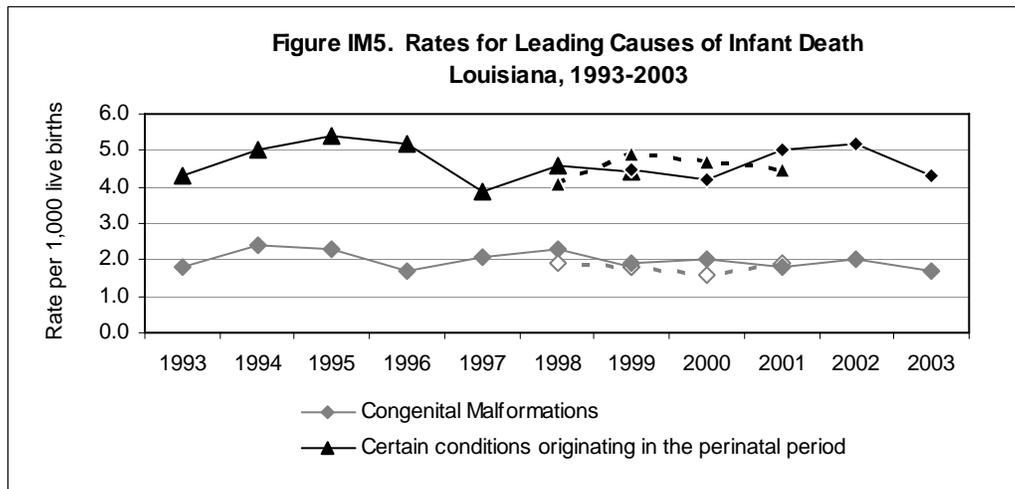
Beginning with deaths occurring in 1999, the United States implemented the tenth revision of the International Statistical Classification of Diseases, Injuries, and Causes of Death (ICD-10). The ICD system categorizes causes of death recorded on death certificates into cause-of-death groupings useful for summarizing, describing, and comparing causes of death throughout the world (see Technical Notes).

Figures 6.5 and 6.6 present two versions of infant mortality rates for 1996, 1997, and 1998. The "filled" pointers for these three years report infant mortality rates as determined under the ninth revision of the International Classification of Diseases (ICD-9), which was used to classify deaths occurring from 1979 through 1998. The "unfilled" pointers report these same crude death rates after they have been adjusted mathematically to be comparable to the revisions in death coding implemented under ICD-10. Table 6.8 reports both unmodified (i.e., ICD-9) and comparability-modified (i.e., adjusted to be comparable to ICD-10) versions of the 1996, 1997, and 1998 infant mortality rates. As seen in Figures 6.5, 6.6 and Table 6.8, the change from ICD-9 to ICD-10 had only a slight impact on the infant mortality rates for Louisiana's leading causes of infant death between 1999 and 2003.

Table 6.7: Number of Deaths for Leading Causes of Infant Deaths by Age at Death Louisiana, 2003

Cause of Death (ICD-10 Code)	Age at Death, in Days		
	All Ages	Under 1 day	28 - 364 days
Deaths from all causes	604	215	233
Perinatal conditions (P00-P96)	279	166	20
Short gestation/Low birthweight (P07)	124	98	4
Other newborn respiratory conditions (P23-P28)	33	10	9
Congenital malformations (Q00-Q99)	109	39	34
Ill-defined conditions (R00-R99)	84	5	70
Sudden infant death syndrome (R95)	70	0	63

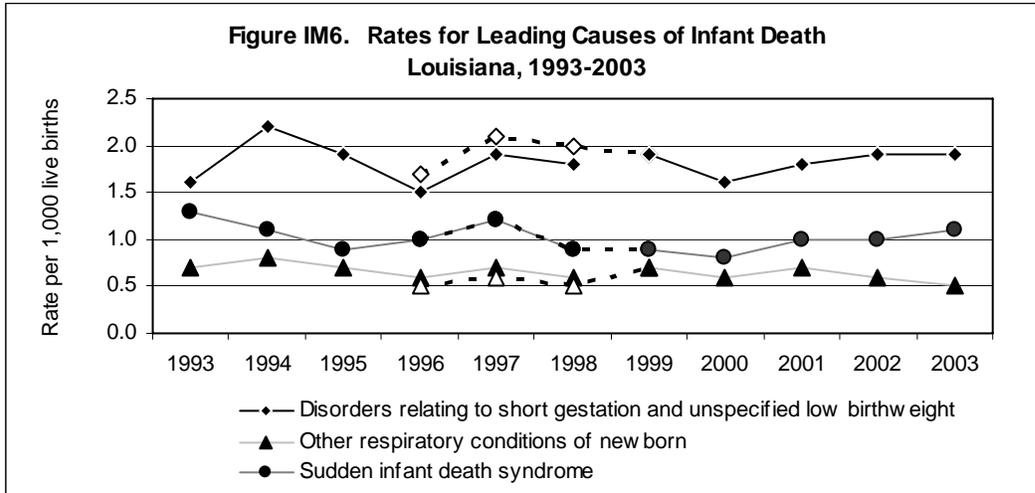
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Notes: unfilled symbols (◇ and △) represent crude death rates multiplied by a comparability ratio.

Congenital Malformations: ICD-9 codes in 1979-1998: 740-759
 ICD-10 codes in 1999-2003: Q00-Q99
 Comparability Ratio = 0.9064

Certain conditions originating in the perinatal period:
 ICD-9 codes in 1979-1998: 760-771.2, 771.4-779
 ICD-10 codes in 1999-2003: P00-P96
 Comparability Ratio = 1.0581



Notes: unfilled symbols (◇, △, and ○) represent crude death rates multiplied by a comparability ratio.

Disorders relating to short gestation and unspecified low birthweight:
 ICD-9 codes in 1979-1998: 765
 ICD-10 codes in 1999-2003: P07
 Comparability Ratio = 1.1060

Other respiratory conditions of new born:
 ICD-9 codes in 1979-1998: 770
 ICD-10 codes in 1999-2002: P23-P28
 Comparability Ratio = 0.8455

Sudden infant death syndrome:
 ICD-9 codes in 1979-1998: 798.0
 ICD-10 codes in 1999-2003: R95
 Comparability Ratio = 1.0362

Table 6.8 : Death Rates⁺ for Leading Causes of Infant Death Louisiana, 1993-2003

Cause of Death (ICD-9 and ICD-10)	1993	1994	1995	1996	1997	1998	Compa-rability Ratio	Comparability-modified ¹			1999	2000	2001	2002	2003							
								1996	1997	1998												
Congenital Malformations (740-759) (Q00-Q99)	2.4	2.3	1.7	2.1	2.0	1.8	0.9064	1.9	1.8	1.6	1.9	2.0	1.8	2.0	1.7							
Perinatal Conditions	All (760-771.2,771.4-779) (P00-P96)						5.0	5.4	5.2	3.9	4.6	4.4	1.0581	4.1	4.9	4.7	4.5	4.2	5.0	5.2	4.3	
	Short Gestation/Low Birthweight (765) (P07)						1.6	2.2	1.9	1.5	1.9	1.8	1.1060	1.7	2.1	2.0	1.9	1.6	1.8	1.9	1.9	1.9
	Other Newborn Respiratory Conditions (770) (P23-P28)						0.7	0.8	0.7	0.6	0.7	0.6	0.8455	0.5	0.6	0.5	0.7	0.6	0.7	0.6	0.6	0.5
Ill-defined Conditions	All (780-799) (R00-R99)						1.4	1.2	0.9	1.1	1.3	1.0	1.0245	1.1	1.3	1.0	1.0	1.0	1.3	1.4	1.3	
	Sudden infant death syndrome (798.0) (R95)						1.3	1.1	0.9	1.0	1.2	0.9	1.0362	1.0	1.2	0.9	0.9	0.8	1.0	1.0	1.1	

⁺Rate per 1,000 live births

¹Rate modified with the comparability ratios

Note: ICD-9 was used from 1990-1998 and ICD-10 was used from 1999-2003

Leading Causes of Infant Death by Race and Infant Gender

In 2003, the three leading causes of infant deaths in Louisiana were Perinatal Conditions, Congenital Malformations, and Ill-Defined Conditions (ICD-10 codes P00-P96, Q00-Q99, and R00-R99, respectively).

In 2003 the mortality rate for *Certain Conditions Originating in the Perinatal Period* was 431.3 per 100,000 live births, while the rate for *Ill-defined conditions* (termed by the ICD-10 as “symptoms, signs, and abnormal clinical and laboratory findings not elsewhere classified”) was 129.9 per 100,000 live births (Table 6.9). Within the category of ill-defined conditions, SIDS is the largest and most well-known classification. Classifications which included fewer than 20 cases in an individual race-sex group should be considered unstable as in the case of SIDS.

The high rates of mortality in the leading cause categories experienced by infants of other races were based upon very small counts of infant deaths and should, therefore, be considered unstable.

Infant Mortality by Selected Causes of Infant Death

Table 6.9 gives details of year 2003 counts and rates of infant deaths by causes of death, infant race, and infant sex.

Cause of Death and ICD-10 Code	Race-Gender	Age at Death in Days							
		Rate +	Total	LT 1	1-6	7-13	14-20	21-27	28-364
All causes	ALL	933.7	604	215	73	43	27	13	233
	WM	623.9	118	38	16	5	8	****	49
	WF	655.5	119	44	14	9	5	5	42
	BM	1566	209	83	28	13	8	****	75
	BF	1175	149	49	11	15	6	****	64
	OM	982.8	8	****	****	****	0	0	****
	OF	127.4	****	0	****	0	0	0	0
Certain infectious and parasitic diseases (A00-B99)	ALL	23.2	15	0	0	****	0	0	13
	WM	10.6	****	0	0	****	0	0	****
	WF	27.5	5	0	0	****	0	0	****
	BM	37.5	5	0	0	0	0	0	5
	BF	23.7	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Certain intestinal infectious diseases (A00-A08)	ALL	1.5	****	0	0	0	0	0	****
	WM	5.3	****	0	0	0	0	0	****
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Diarrhea and gastroenteritis of presumed infectious origin (A09)	ALL	1.5	****	0	0	0	0	0	****
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	7.5	****	0	0	0	0	0	****
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Tuberculosis (A16-A19)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0

Table 6.9: Infant Deaths (Exclusive of Fetal Deaths) by Selected Causes ICD-10 Codes, Race-Gender and Age, Louisiana, 2003

Cause of Death and ICD-10 Code	Race-Gender	Age at Death in Days							
		Rate +	Total	LT 1	1-6	7-13	14-20	21-27	28-364
Tetanus (A33,A35)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Diphtheria (A36)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Whooping cough (A37)	ALL	1.5	****	0	0	0	0	0	****
	WM	0	0	0	0	0	0	0	0
	WF	5.5	****	0	0	0	0	0	****
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Meningococcal infection (A39)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Septicemia (A40-A41)	ALL	12.4	8	0	0	0	0	0	8
	WM	0	0	0	0	0	0	0	0
	WF	16.5	****	0	0	0	0	0	****
	BM	22.5	****	0	0	0	0	0	****
	BF	15.8	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Congenital syphilis (A50)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Gonococcal infection (A54)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Viral diseases (A80-B34)	ALL	3.1	****	0	0	****	0	0	****
	WM	0	0	0	0	0	0	0	0
	WF	5.5	****	0	0	****	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	7.9	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0

Table 6.9: Infant Deaths (Exclusive of Fetal Deaths) by Selected Causes ICD-10 Codes, Race-Gender and Age, Louisiana, 2003

Cause of Death and ICD-10 Code	Race-Gender	Age at Death in Days							
		Rate +	Total	LT 1	1-6	7-13	14-20	21-27	28-364
Acute poliomyelitis (A80)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Varicella (chickenpox) (B01)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Measles (B05)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Human immunodeficiency virus (HIV) disease (B20-B24)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Mumps (B26)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Other and unspecified viral diseases (A81-B00,B02-B04,B06-B19,B25,B27-B34)	ALL	3.1	****	0	0	****	0	0	****
	WM	0	0	0	0	0	0	0	0
	WF	5.5	****	0	0	****	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	7.9	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Candidiasis (B37)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Malaria (B50-B54)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0

Table 6.9: Infant Deaths (Exclusive of Fetal Deaths) by Selected Causes ICD-10 Codes, Race-Gender and Age, Louisiana, 2003

Cause of Death and ICD-10 Code	Race-Gender	Age at Death in Days							
		Rate +	Total	LT 1	1-6	7-13	14-20	21-27	28-364
Pneumocystosis (B59)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Other and unspecified infectious and parasitic diseases and their sequelae (A20-A32,A38,A42-A49,A51-A53,A55-A79,B35-B36,B38-B49,B55-B58,B60-B99)	ALL	3.1	****	0	0	****	0	0	****
	WM	5.3	****	0	0	****	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	7.5	****	0	0	0	0	0	****
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Neoplasms (C00-D48)	ALL	4.6	****	****	0	0	0	0	****
	WM	10.6	****	****	0	0	0	0	****
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	7.9	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Malignant neoplasms (C00-C97)	ALL	3.1	****	0	0	0	0	0	****
	WM	5.3	****	0	0	0	0	0	****
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	7.9	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Hodgkin's disease and non-Hodgkin's lymphomas (C81-C85)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Leukemia (C91-C95)	ALL	3.1	****	0	0	0	0	0	****
	WM	5.3	****	0	0	0	0	0	****
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	7.9	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Other and unspecified malignant neoplasms (C00-C80,C88,C90,C96-C97)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48)	ALL	1.5	****	****	0	0	0	0	0
	WM	5.3	****	****	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0

Table 6.9: Infant Deaths (Exclusive of Fetal Deaths) by Selected Causes ICD-10 Codes, Race-Gender and Age, Louisiana, 2003

Cause of Death and ICD-10 Code	Race-Gender	Age at Death in Days							
		Rate +	Total	LT 1	1-6	7-13	14-20	21-27	28-364
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	ALL	1.5	****	0	0	0	0	0	****
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	7.9	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Anemias (D50-D64)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Hemorrhagic conditions and other diseases of blood and blood-forming organs (D65-D76)	ALL	1.5	****	0	0	0	0	0	****
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	7.9	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Certain disorders involving the immune mechanism (D80-D89)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Endocrine, nutritional and metabolic diseases (E00-E88)	ALL	4.6	****	0	0	0	0	0	****
	WM	5.3	****	0	0	0	0	0	****
	WF	5.5	****	0	0	0	0	0	****
	BM	7.5	****	0	0	0	0	0	****
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Short stature, not elsewhere classified (E34.3)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Nutritional deficiencies (E40-E64)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Cystic fibrosis (E84)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0

Table 6.9: Infant Deaths (Exclusive of Fetal Deaths) by Selected Causes ICD-10 Codes, Race-Gender and Age, Louisiana, 2003

Cause of Death and ICD-10 Code	Race-Gender	Age at Death in Days							
		Rate +	Total	LT 1	1-6	7-13	14-20	21-27	28-364
Volume depletion, disorders of fluid, electrolyte and acid-base balance (E86-E87)	ALL	3.1	****	0	0	0	0	0	****
	WM	0	0	0	0	0	0	0	0
	WF	5.5	****	0	0	0	0	0	****
	BM	7.5	****	0	0	0	0	0	****
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
All other endocrine, nutritional and metabolic diseases (E00-E32,E34.0-E34.2,E34.4-E34.9,E65-E83,E85,E88)	ALL	1.5	****	0	0	0	0	0	****
	WM	5.3	****	0	0	0	0	0	****
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Diseases of the nervous system (G00-G98)	ALL	12.4	8	0	0	0	****	0	7
	WM	21.2	****	0	0	0	****	0	****
	WF	5.5	****	0	0	0	0	0	****
	BM	22.5	****	0	0	0	0	0	****
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Meningitis (G00,G03)	ALL	1.5	****	0	0	0	0	0	****
	WM	5.3	****	0	0	0	0	0	****
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Infantile spinal muscular atrophy, type I (Werdnig-Hoffman) (G12.0)	ALL	1.5	****	0	0	0	0	0	****
	WM	5.3	****	0	0	0	0	0	****
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Infantile cerebral palsy (G80)	ALL	1.5	****	0	0	0	0	0	****
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	7.5	****	0	0	0	0	0	****
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Anoxic brain damage, not elsewhere classified (G93.1)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Other diseases of nervous system (G04,G06-G11,G12.1-G12.9,G20-G72,G81-G92,G93.0,G93.2-G93.9,G95-G98)	ALL	7.7	5	0	0	0	****	0	****
	WM	10.6	****	0	0	0	****	0	****
	WF	5.5	****	0	0	0	0	0	****
	BM	15	****	0	0	0	0	0	****
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0

Table 6.9: Infant Deaths (Exclusive of Fetal Deaths) by Selected Causes ICD-10 Codes, Race-Gender and Age, Louisiana, 2003

Cause of Death and ICD-10 Code	Race-Gender	Age at Death in Days							
		Rate +	Total	LT 1	1-6	7-13	14-20	21-27	28-364
Diseases of the ear and mastoid process (H60-H93)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Diseases of the circulatory system (I00-I99)	ALL	37.1	24	****	****	****	****	0	16
	WM	21.2	****	****	****	0	0	0	****
	WF	27.5	5	****	****	****	0	0	****
	BM	45	6	****	0	0	****	0	****
	BF	71	9	****	0	0	0	0	8
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Pulmonary heart disease and diseases of pulmonary circulation (I26-I28)	ALL	9.3	6	****	****	0	****	0	****
	WM	5.3	****	****	0	0	0	0	0
	WF	11	****	****	****	0	0	0	0
	BM	15	****	0	0	0	****	0	****
	BF	7.9	****	****	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Pericarditis, endocarditis and myocarditis (I30,I33,I40)	ALL	1.5	****	0	0	0	0	0	****
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	7.9	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Cardiomyopathy (I42)	ALL	6.2	****	****	****	0	0	0	****
	WM	5.3	****	0	****	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	15	****	****	0	0	0	0	****
	BF	7.9	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Cardiac arrest (I46)	ALL	1.5	****	0	0	0	0	0	****
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	7.9	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Cerebrovascular diseases (I60-I69)	ALL	4.6	****	0	0	0	0	0	****
	WM	5.3	****	0	0	0	0	0	****
	WF	5.5	****	0	0	0	0	0	****
	BM	7.5	****	0	0	0	0	0	****
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
All other diseases of circulatory system (I00-I25,I31,I34-I38,I44-I45,I47-I51,I70-I99)	ALL	13.9	9	0	0	****	0	0	8
	WM	5.3	****	0	0	0	0	0	****
	WF	11	****	0	0	****	0	0	****
	BM	7.5	****	0	0	0	0	0	****
	BF	39.4	5	0	0	0	0	0	5
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0

Table 6.9: Infant Deaths (Exclusive of Fetal Deaths) by Selected Causes ICD-10 Codes, Race-Gender and Age, Louisiana, 2003

Cause of Death and ICD-10 Code	Race-Gender	Age at Death in Days							
		Rate +	Total	LT 1	1-6	7-13	14-20	21-27	28-364
Diseases of the respiratory system (J00-J98)	ALL	29.4	19	0	0	0	0	****	18
	WM	10.6	****	0	0	0	0	0	****
	WF	11	****	0	0	0	0	0	****
	BM	59.9	8	0	0	0	0	****	7
	BF	47.3	6	0	0	0	0	0	6
	OM	122.9	****	0	0	0	0	0	****
	OF	0	0	0	0	0	0	0	0
Acute upper respiratory infections (J00-J06)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Influenza and pneumonia (J10-J18)	ALL	9.3	6	0	0	0	0	****	5
	WM	5.3	****	0	0	0	0	0	****
	WF	5.5	****	0	0	0	0	0	****
	BM	22.5	****	0	0	0	0	****	****
	BF	7.9	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Influenza (J10-J11)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Pneumonia (J12-J18)	ALL	9.3	6	0	0	0	0	****	5
	WM	5.3	****	0	0	0	0	0	****
	WF	5.5	****	0	0	0	0	0	****
	BM	22.5	****	0	0	0	0	****	****
	BF	7.9	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Acute bronchitis and acute bronchiolitis (J20-J21)	ALL	3.1	****	0	0	0	0	0	****
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	15.8	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Bronchitis, chronic and unspecified (J40-J42)	ALL	1.5	****	0	0	0	0	0	****
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	7.9	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Asthma (J45-J46)	ALL	1.5	****	0	0	0	0	0	****
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	7.9	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0

Cause of Death and ICD-10 Code	Race-Gender	Age at Death in Days							
		Rate +	Total	LT 1	1-6	7-13	14-20	21-27	28-364
Pneumonitis due to solids and liquids (J69)	ALL	1.5	****	0	0	0	0	0	****
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	7.5	****	0	0	0	0	0	****
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Other and unspecified diseases of respiratory system (J22,J30-J39,J43-J44,J47-J68,J70-J98)	ALL	12.4	8	0	0	0	0	0	8
	WM	5.3	****	0	0	0	0	0	****
	WF	5.5	****	0	0	0	0	0	****
	BM	30	****	0	0	0	0	0	****
	BF	7.9	****	0	0	0	0	0	****
	OM	122.9	****	0	0	0	0	0	****
	OF	0	0	0	0	0	0	0	0
Diseases of the digestive system (K00-K92)	ALL	20.1	13	0	0	****	0	****	11
	WM	15.9	****	0	0	0	0	****	****
	WF	11	****	0	0	0	0	0	****
	BM	30	****	0	0	****	0	0	****
	BF	31.6	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Gastritis, duodenitis, and noninfective enteritis and colitis (K29,K50-K55)	ALL	13.9	9	0	0	****	0	0	8
	WM	10.6	****	0	0	0	0	0	****
	WF	5.5	****	0	0	0	0	0	****
	BM	22.5	****	0	0	****	0	0	****
	BF	23.7	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Hernia of abdominal cavity and intestinal obstruction without hernia (K40-K46,K56)	ALL	1.5	****	0	0	0	0	0	****
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	7.9	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
All other and unspecified diseases of digestive system (K00-K28,K30-K38,K57-K92)	ALL	4.6	****	0	0	0	0	****	****
	WM	5.3	****	0	0	0	0	****	0
	WF	5.5	****	0	0	0	0	0	****
	BM	7.5	****	0	0	0	0	0	****
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Diseases of the genitourinary system (N00-N98)	ALL	9.3	6	0	****	0	****	0	****
	WM	15.9	****	0	0	0	****	0	****
	WF	5.5	****	0	0	0	0	0	****
	BM	7.5	****	0	****	0	0	0	0
	BF	7.9	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Renal failure and other disorders of kidney (N17-N19,N25,N27)	ALL	9.3	6	0	****	0	****	0	****
	WM	15.9	****	0	0	0	****	0	****
	WF	5.5	****	0	0	0	0	0	****
	BM	7.5	****	0	****	0	0	0	0
	BF	7.9	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0

Table 6.9: Infant Deaths (Exclusive of Fetal Deaths) by Selected Causes ICD-10 Codes, Race-Gender and Age, Louisiana, 2003

Cause of Death and ICD-10 Code	Race-Gender	Age at Death in Days							
		Rate +	Total	LT 1	1-6	7-13	14-20	21-27	28-364
Other and unspecified diseases of genitourinary system (N00-N15,N20-N23,N26,N28-N98)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Certain conditions originating in the perinatal period (P00-P96)	ALL	431.3	279	166	52	20	15	6	20
	WM	200.9	38	21	11	0	****	****	****
	WF	253.4	46	30	8	****	****	****	****
	BM	876.7	117	74	21	7	6	0	9
	BF	575.8	73	40	9	9	****	****	8
	OM	491.4	****	****	****	****	0	0	0
	OF	127.4	****	0	****	0	0	0	0
Newborn affected by maternal factors and by complications of pregnancy, labor and delivery (P00-P04)	ALL	88.1	57	48	****	****	****	****	****
	WM	52.9	10	9	0	0	0	0	****
	WF	55.1	10	10	0	0	0	0	0
	BM	157.4	21	18	0	0	****	0	****
	BF	126.2	16	11	****	****	0	****	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Newborn affected by maternal hypertensive disorders (P00.0)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Newborn affected by other maternal conditions which may be unrelated to present pregnancy (P00.1-P00.9)	ALL	1.5	****	****	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	7.5	****	****	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Newborn affected by maternal complications of pregnancy (P01)	ALL	55.7	36	29	****	****	****	0	****
	WM	26.4	5	5	0	0	0	0	0
	WF	27.5	5	5	0	0	0	0	0
	BM	112.4	15	12	0	0	****	0	****
	BF	86.8	11	7	****	****	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Newborn affected by incompetent cervix (P01.0)	ALL	6.2	****	****	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	15	****	****	0	0	0	0	0
	BF	15.8	****	****	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Newborn affected by premature rupture of membranes (P01.1)	ALL	40.2	26	19	****	****	****	0	****
	WM	15.9	****	****	0	0	0	0	0
	WF	22	****	****	0	0	0	0	0
	BM	74.9	10	7	0	0	****	0	****
	BF	71	9	5	****	****	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0

Table 6.9: Infant Deaths (Exclusive of Fetal Deaths) by Selected Causes ICD-10 Codes, Race-Gender and Age, Louisiana, 2003

Cause of Death and ICD-10 Code	Race-Gender	Age at Death in Days							
		Rate +	Total	LT 1	1-6	7-13	14-20	21-27	28-364
Newborn affected by multiple pregnancy (P01.5)	ALL	3.1	****	****	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	15	****	****	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Newborn affected by other maternal complications of pregnancy (P01.2-P01.4,P01.6-P01.9)	ALL	6.2	****	****	0	0	0	0	0
	WM	10.6	****	****	0	0	0	0	0
	WF	5.5	****	****	0	0	0	0	0
	BM	7.5	****	****	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Newborn affected by complications of placenta, cord and membranes (P02)	ALL	24.7	16	14	0	0	0	****	****
	WM	26.4	5	****	0	0	0	0	****
	WF	22	****	****	0	0	0	0	0
	BM	30	****	****	0	0	0	0	0
	BF	23.7	****	****	0	0	0	****	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Newborn affected by complications involving placenta (P02.0-P02.3)	ALL	10.8	7	6	0	0	0	****	0
	WM	10.6	****	****	0	0	0	0	0
	WF	11	****	****	0	0	0	0	0
	BM	7.5	****	****	0	0	0	0	0
	BF	15.8	****	****	0	0	0	****	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Newborn affected by complications involving cord (P02.4-P02.6)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Newborn affected by chorioamnionitis (P02.7)	ALL	13.9	9	8	0	0	0	0	****
	WM	15.9	****	****	0	0	0	0	****
	WF	11	****	****	0	0	0	0	0
	BM	22.5	****	****	0	0	0	0	0
	BF	7.9	****	****	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Newborn affected by other and unspecified abnormalities of membranes (P02.8-P02.9)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Newborn affected by other complications of labor and delivery (P03)	ALL	4.6	****	****	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	5.5	****	****	0	0	0	0	0
	BM	7.5	****	****	0	0	0	0	0
	BF	7.9	****	****	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0

Table 6.9: Infant Deaths (Exclusive of Fetal Deaths) by Selected Causes ICD-10 Codes, Race-Gender and Age, Louisiana, 2003

Cause of Death and ICD-10 Code	Race-Gender	Age at Death in Days							
		Rate +	Total	LT 1	1-6	7-13	14-20	21-27	28-364
Newborn affected by noxious influences transmitted via placenta or breast milk (P04)	ALL	1.5	****	****	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	7.9	****	****	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Disorders related to length of gestation and fetal malnutrition (P05-P08)	ALL	191.7	124	98	17	****	****	0	****
	WM	84.6	16	11	****	0	****	0	0
	WF	88.1	16	14	****	0	0	0	0
	BM	457.1	61	49	9	0	****	0	****
	BF	244.5	31	24	****	****	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Slow fetal growth and fetal malnutrition (P05)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Disorders related to short gestation and low birth weight, not elsewhere classified (P07)	ALL	191.7	124	98	17	****	****	0	****
	WM	84.6	16	11	****	0	****	0	0
	WF	88.1	16	14	****	0	0	0	0
	BM	457.1	61	49	9	0	****	0	****
	BF	244.5	31	24	****	****	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Extremely low birth weight or extreme immaturity (P07.0,P07.2)	ALL	151.5	98	77	14	****	****	0	****
	WM	68.7	13	10	****	0	0	0	0
	WF	71.6	13	11	****	0	0	0	0
	BM	359.7	48	37	8	0	****	0	****
	BF	189.3	24	19	****	****	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Other low birth weight or preterm (P07.1,P07.3)	ALL	40.2	26	21	****	0	****	0	****
	WM	15.9	****	****	****	0	****	0	0
	WF	16.5	****	****	0	0	0	0	0
	BM	97.4	13	12	****	0	0	0	0
	BF	55.2	7	5	****	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Disorders related to long gestation and high birth weight (P08)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Birth trauma (P10-P15)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0

Table 6.9: Infant Deaths (Exclusive of Fetal Deaths) by Selected Causes ICD-10 Codes, Race-Gender and Age, Louisiana, 2003

Cause of Death and ICD-10 Code	Race-Gender	Age at Death in Days							
		Rate +	Total	LT 1	1-6	7-13	14-20	21-27	28-364
Intrauterine hypoxia and birth asphyxia (P20-P21)	ALL	13.9	9	****	****	****	****	0	****
	WM	10.6	****	0	****	0	0	0	0
	WF	11	****	****	0	0	****	0	0
	BM	22.5	****	0	****	****	0	0	****
	BF	15.8	****	****	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Intrauterine hypoxia (P20)	ALL	1.5	****	****	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	7.9	****	****	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Birth asphyxia (P21)	ALL	12.4	8	****	****	****	****	0	****
	WM	10.6	****	0	****	0	0	0	0
	WF	11	****	****	0	0	****	0	0
	BM	22.5	****	0	****	****	0	0	****
	BF	7.9	****	****	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Respiratory distress of newborn (P22)	ALL	26.3	17	****	9	****	0	****	****
	WM	10.6	****	0	****	0	0	****	0
	WF	16.5	****	0	****	****	0	0	0
	BM	52.5	7	****	****	****	0	0	****
	BF	23.7	****	0	****	****	0	0	0
	OM	122.9	****	****	0	0	0	0	0
	OF	127.4	****	0	****	0	0	0	0
Other respiratory conditions originating in the perinatal period (P23-P28)	ALL	51	33	10	11	****	0	0	9
	WM	21.2	****	****	****	0	0	0	****
	WF	38.6	7	****	****	****	0	0	****
	BM	97.4	13	5	****	****	0	0	****
	BF	47.3	6	****	****	0	0	0	****
	OM	368.6	****	0	****	****	0	0	0
	OF	0	0	0	0	0	0	0	0
Congenital pneumonia (P23)	ALL	1.5	****	0	0	****	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	7.5	****	0	0	****	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Neonatal aspiration syndromes (P24)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Interstitial emphysema and related conditions originating in the perinatal period (P25)	ALL	6.2	****	****	****	****	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	11	****	****	0	****	0	0	0
	BM	7.5	****	0	****	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	122.9	****	0	****	0	0	0	0
	OF	0	0	0	0	0	0	0	0

Table 6.9: Infant Deaths (Exclusive of Fetal Deaths) by Selected Causes ICD-10 Codes, Race-Gender and Age, Louisiana, 2003

Cause of Death and ICD-10 Code	Race-Gender	Age at Death in Days							
		Rate +	Total	LT 1	1-6	7-13	14-20	21-27	28-364
Pulmonary hemorrhage originating in the perinatal period (P26)	ALL	4.6	****	0	****	****	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	7.5	****	0	****	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	245.7	****	0	****	****	0	0	0
	OF	0	0	0	0	0	0	0	0
Chronic respiratory disease originating in the perinatal period (P27)	ALL	13.9	9	0	0	0	0	0	9
	WM	5.3	****	0	0	0	0	0	****
	WF	5.5	****	0	0	0	0	0	****
	BM	22.5	****	0	0	0	0	0	****
	BF	31.6	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Atelectasis (P28.0-P28.1)	ALL	24.7	16	9	7	0	0	0	0
	WM	15.9	****	****	****	0	0	0	0
	WF	22	****	****	****	0	0	0	0
	BM	52.5	7	5	****	0	0	0	0
	BF	15.8	****	****	****	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
All other respiratory conditions originating in the perinatal period (P28.2-P28.9)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Infections specific to the perinatal period (P35-P39)	ALL	21.6	14	0	****	****	****	****	0
	WM	0	0	0	0	0	0	0	0
	WF	11	****	0	0	0	0	****	0
	BM	37.5	5	0	****	****	****	0	0
	BF	55.2	7	0	****	****	****	****	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Bacterial sepsis of newborn (P36)	ALL	18.6	12	0	****	****	****	****	0
	WM	0	0	0	0	0	0	0	0
	WF	5.5	****	0	0	0	0	****	0
	BM	37.5	5	0	****	****	****	0	0
	BF	47.3	6	0	****	0	****	****	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Omphalitis of newborn with or without mild hemorrhage (P38)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
All other infections specific to the perinatal period (P35,P37,P39)	ALL	3.1	****	0	0	****	0	****	0
	WM	0	0	0	0	0	0	0	0
	WF	5.5	****	0	0	0	0	****	0
	BM	0	0	0	0	0	0	0	0
	BF	7.9	****	0	0	****	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0

Table 6.9: Infant Deaths (Exclusive of Fetal Deaths) by Selected Causes ICD-10 Codes, Race-Gender and Age, Louisiana, 2003

Cause of Death and ICD-10 Code	Race-Gender	Age at Death in Days							
		Rate +	Total	LT 1	1-6	7-13	14-20	21-27	28-364
Hemorrhagic and hematological disorders of newborn (P50-P61)	ALL	7.7	5	0	****	0	****	0	0
	WM	10.6	****	0	****	0	****	0	0
	WF	16.5	****	0	****	0	****	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Neonatal hemorrhage (P50-P54)	ALL	7.7	5	0	****	0	****	0	0
	WM	10.6	****	0	****	0	****	0	0
	WF	16.5	****	0	****	0	****	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Hemorrhagic disease of newborn (P53)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Hemolytic disease of newborn due to isoimmunization and other perinatal jaundice (P55-P59)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Hematological disorders (P60-P61)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Syndrome of infant of a diabetic mother and neonatal diabetes mellitus (P70.0-P70.2)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Necrotizing enterocolitis of newborn (P77)	ALL	12.4	8	0	****	****	****	****	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	22.5	****	0	****	****	0	0	0
	BF	39.4	5	0	0	****	****	****	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Hydrops fetalis not due to hemolytic disease (P83.2)	ALL	3.1	****	0	****	0	0	0	0
	WM	5.3	****	0	****	0	0	0	0
	WF	5.5	****	0	****	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0

Table 6.9: Infant Deaths (Exclusive of Fetal Deaths) by Selected Causes ICD-10 Codes, Race-Gender and Age, Louisiana, 2003

Cause of Death and ICD-10 Code	Race-Gender	Age at Death in Days							
		Rate +	Total	LT 1	1-6	7-13	14-20	21-27	28-364
Other perinatal conditions (P29,P70.3-P70.9,P71-P76,P78-P81,P83.0-P83.1,P83.3-P83.9,P90-P96)	ALL	15.5	10	5	0	****	****	0	****
	WM	5.3	****	0	0	0	****	0	0
	WF	11	****	****	0	0	0	0	0
	BM	30	****	****	0	****	****	0	0
	BF	23.7	****	****	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	ALL	168.5	109	39	15	14	6	****	34
	WM	132.2	25	12	****	****	****	0	6
	WF	159.7	29	12	5	****	****	0	7
	BM	224.8	30	7	5	****	0	****	14
	BF	181.4	23	8	****	5	****	0	6
	OM	245.7	****	0	****	0	0	0	****
	OF	0	0	0	0	0	0	0	0
Anencephaly and similar malformations (Q00)	ALL	12.4	8	6	****	****	0	0	0
	WM	10.6	****	****	0	0	0	0	0
	WF	22	****	****	0	****	0	0	0
	BM	7.5	****	0	****	0	0	0	0
	BF	7.9	****	****	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Congenital hydrocephalus (Q03)	ALL	4.6	****	0	0	0	0	0	****
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	23.7	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Spina bifida (Q05)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Other congenital malformations of nervous system (Q01-Q02,Q04,Q06-Q07)	ALL	6.2	****	****	0	0	****	0	****
	WM	0	0	0	0	0	0	0	0
	WF	5.5	****	****	0	0	0	0	0
	BM	15	****	****	0	0	0	0	****
	BF	7.9	****	0	0	0	****	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Congenital malformations of heart (Q20-Q24)	ALL	49.5	32	****	****	9	****	0	15
	WM	47.6	9	****	0	****	****	0	****
	WF	44.1	8	****	0	****	****	0	****
	BM	52.5	7	****	0	****	0	0	5
	BF	55.2	7	0	****	****	0	0	****
	OM	122.9	****	0	0	0	0	0	****
	OF	0	0	0	0	0	0	0	0
Other congenital malformations of circulatory system (Q25-Q28)	ALL	7.7	5	0	****	0	****	0	****
	WM	5.3	****	0	0	0	****	0	0
	WF	5.5	****	0	****	0	0	0	0
	BM	15	****	0	0	0	0	0	****
	BF	7.9	****	0	0	0	****	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0

Table 6.9: Infant Deaths (Exclusive of Fetal Deaths) by Selected Causes ICD-10 Codes, Race-Gender and Age, Louisiana, 2003

Cause of Death and ICD-10 Code	Race-Gender	Age at Death in Days							
		Rate +	Total	LT 1	1-6	7-13	14-20	21-27	28-364
Congenital malformations of respiratory system (Q30-Q34)	ALL	21.6	14	10	****	0	0	****	****
	WM	26.4	5	****	****	0	0	0	****
	WF	11	****	****	0	0	0	0	0
	BM	37.5	5	****	0	0	0	****	****
	BF	15.8	****	****	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Congenital malformations of digestive system (Q35-Q45)	ALL	3.1	****	0	0	0	0	0	****
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	7.5	****	0	0	0	0	0	****
	BF	7.9	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Congenital malformations of genitourinary system (Q50-Q64)	ALL	7.7	5	5	0	0	0	0	0
	WM	15.9	****	****	0	0	0	0	0
	WF	5.5	****	****	0	0	0	0	0
	BM	7.5	****	****	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Congenital malformations and deformations of musculoskeletal system, limbs and integument (Q65-Q85)	ALL	9.3	6	****	****	****	0	0	****
	WM	5.3	****	****	0	0	0	0	0
	WF	11	****	0	0	****	0	0	****
	BM	22.5	****	0	****	0	0	0	****
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Down's syndrome (Q90)	ALL	1.5	****	0	0	****	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	7.5	****	0	0	****	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Edward's syndrome (Q91.0-Q91.3)	ALL	9.3	6	****	****	****	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	11	****	0	****	0	0	0	0
	BM	7.5	****	0	****	0	0	0	0
	BF	23.7	****	****	****	****	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Patau's syndrome (Q91.4-Q91.7)	ALL	9.3	6	****	****	0	0	0	****
	WM	15.9	****	****	****	0	0	0	****
	WF	5.5	****	0	****	0	0	0	0
	BM	7.5	****	0	****	0	0	0	0
	BF	7.9	****	****	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Other congenital malformations and deformations (Q10-Q18, Q86-Q89)	ALL	24.7	16	8	****	0	0	0	5
	WM	5.3	****	0	0	0	0	0	****
	WF	38.6	7	****	****	0	0	0	****
	BM	30	****	****	****	0	0	0	****
	BF	23.7	****	****	0	0	0	0	0
	OM	122.9	****	0	****	0	0	0	0
	OF	0	0	0	0	0	0	0	0

Table 6.9: Infant Deaths (Exclusive of Fetal Deaths) by Selected Causes ICD-10 Codes, Race-Gender and Age, Louisiana, 2003

Cause of Death and ICD-10 Code	Race-Gender	Age at Death in Days							
		Rate +	Total	LT 1	1-6	7-13	14-20	21-27	28-364
Other chromosomal abnormalities, not elsewhere classified (Q92-Q99)	ALL	1.5	****	0	0	****	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	7.5	****	0	0	****	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	ALL	129.9	84	5	****	****	0	****	70
	WM	105.8	20	****	****	0	0	0	16
	WF	104.7	19	****	0	****	0	****	14
	BM	172.3	23	****	****	****	0	0	19
	BF	165.6	21	0	0	****	0	0	20
	OM	122.9	****	0	0	0	0	0	****
	OF	0	0	0	0	0	0	0	0
Sudden infant death syndrome (R95)	ALL	108.2	70	0	0	****	0	****	63
	WM	84.6	16	0	0	0	0	0	16
	WF	82.6	15	0	0	****	0	****	11
	BM	134.9	18	0	0	****	0	0	16
	BF	157.8	20	0	0	****	0	0	19
	OM	122.9	****	0	0	0	0	0	****
	OF	0	0	0	0	0	0	0	0
Other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R53,R55-R94,R96-R99)	ALL	21.6	14	5	****	0	0	0	7
	WM	21.2	****	****	****	0	0	0	0
	WF	22	****	****	0	0	0	0	****
	BM	37.5	5	****	****	0	0	0	****
	BF	7.9	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
All other diseases (Residual) (F01-F99,H00-H57,L00-M99)	ALL	3.1	****	0	0	0	****	0	****
	WM	0	0	0	0	0	0	0	0
	WF	5.5	****	0	0	0	0	0	****
	BM	7.5	****	0	0	0	****	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
External causes of mortality (V01-Y89)	ALL	58.7	38	0	****	****	****	****	34
	WM	74	14	0	****	****	0	0	12
	WF	38.6	7	0	0	0	****	0	6
	BM	74.9	10	0	0	0	0	0	10
	BF	55.2	7	0	0	0	0	****	6
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Accidents (V01-X59,Y85-Y86)	ALL	51	33	0	****	****	****	****	29
	WM	63.5	12	0	****	****	0	0	10
	WF	33.1	6	0	0	0	****	0	5
	BM	59.9	8	0	0	0	0	0	8
	BF	55.2	7	0	0	0	0	****	6
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Transport accidents (V01-V99,Y85)	ALL	3.1	****	0	0	0	0	0	****
	WM	5.3	****	0	0	0	0	0	****
	WF	0	0	0	0	0	0	0	0
	BM	7.5	****	0	0	0	0	0	****
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0

Table 6.9: Infant Deaths (Exclusive of Fetal Deaths) by Selected Causes ICD-10 Codes, Race-Gender and Age, Louisiana, 2003

Cause of Death and ICD-10 Code	Race-Gender	Age at Death in Days							
		Rate +	Total	LT 1	1-6	7-13	14-20	21-27	28-364
Motor vehicle accidents (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)	ALL	3.1	****	0	0	0	0	0	****
	WM	5.3	****	0	0	0	0	0	****
	WF	0	0	0	0	0	0	0	0
	BM	7.5	****	0	0	0	0	0	****
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Other and unspecified transport accidents & their sequelae (V01,V05-V06,V09.1,V09.3-V09.9,V10-V11,V15-V18,V19.3,V19.8-V19.9,V80.0-V80.2,V80.6-V80.9,V81.2-V81.9,V82.2-V82.9,V87.9,V88.9,V89.1,V89.3,V89.9,V90-V99,Y85)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Falls (W00-W19)	ALL	1.5	****	0	0	0	0	0	****
	WM	0	0	0	0	0	0	0	0
	WF	5.5	****	0	0	0	0	0	****
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Accidental discharge of firearms (W32-W34)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Accidental drowning and submersion (W65-W74)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Accidental suffocation and strangulation in bed (W75)	ALL	24.7	16	0	****	0	****	****	13
	WM	31.7	6	0	****	0	0	0	5
	WF	16.5	****	0	0	0	****	0	****
	BM	22.5	****	0	0	0	0	0	****
	BF	31.6	****	0	0	0	0	****	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Other accidental suffocation and strangulation (W76-W77,W81-W84)	ALL	12.4	8	0	0	****	0	0	7
	WM	26.4	5	0	0	****	0	0	****
	WF	0	0	0	0	0	0	0	0
	BM	15	****	0	0	0	0	0	****
	BF	7.9	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Accidental inhalation and ingestion of food or other objects causing obstruction of respiratory tract (W78-W80)	ALL	3.1	****	0	0	0	0	0	****
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	15.8	****	0	0	0	0	0	****
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0

Table 6.9: Infant Deaths (Exclusive of Fetal Deaths) by Selected Causes ICD-10 Codes, Race-Gender and Age, Louisiana, 2003

Cause of Death and ICD-10 Code	Race-Gender	Age at Death in Days							
		Rate +	Total	LT 1	1-6	7-13	14-20	21-27	28-364
Accidents caused by exposure to smoke, fire and flames (X00-X09)	ALL	1.5	****	0	0	0	0	0	****
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	7.5	****	0	0	0	0	0	****
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Accidental poisoning and exposure to noxious substances (X40-X49)	ALL	1.5	****	0	0	0	0	0	****
	WM	0	0	0	0	0	0	0	0
	WF	5.5	****	0	0	0	0	0	****
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Other and unspecified accidents and their sequelae (W20-W31,W35-W64,W85-W99,X10-X39,X50-X59,Y86)	ALL	3.1	****	0	0	0	0	0	****
	WM	0	0	0	0	0	0	0	0
	WF	5.5	****	0	0	0	0	0	****
	BM	7.5	****	0	0	0	0	0	****
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Assault (homicide) (X85-Y09,Y87.1)	ALL	6.2	****	0	0	0	0	0	****
	WM	5.3	****	0	0	0	0	0	****
	WF	5.5	****	0	0	0	0	0	****
	BM	15	****	0	0	0	0	0	****
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Assault (homicide) by hanging, strangulation and suffocation (X91)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Assault (homicide) by discharge of firearms (X93-X95)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Neglect, abandonment and other maltreatment syndromes (Y06-Y07)	ALL	3.1	****	0	0	0	0	0	****
	WM	0	0	0	0	0	0	0	0
	WF	5.5	****	0	0	0	0	0	****
	BM	7.5	****	0	0	0	0	0	****
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Assault (homicide) by other and unspecified means and their sequelae (X85-X90,X92,X96-X99,Y00-Y05,Y08-Y09,Y87.1)	ALL	3.1	****	0	0	0	0	0	****
	WM	5.3	****	0	0	0	0	0	****
	WF	0	0	0	0	0	0	0	0
	BM	7.5	****	0	0	0	0	0	****
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0

Table 6.9: Infant Deaths (Exclusive of Fetal Deaths) by Selected Causes ICD-10 Codes, Race-Gender and Age, Louisiana, 2003

Cause of Death and ICD-10 Code	Race-Gender	Age at Death in Days							
		Rate +	Total	LT 1	1-6	7-13	14-20	21-27	28-364
Complications of medical and surgical care (Y40-Y84,Y88)	ALL	0	0	0	0	0	0	0	0
	WM	0	0	0	0	0	0	0	0
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0
Other external causes and their sequelae (X60-X84,Y10-Y36,Y87.0,Y87.2,Y89)	ALL	1.5	****	0	0	0	0	0	****
	WM	5.3	****	0	0	0	0	0	****
	WF	0	0	0	0	0	0	0	0
	BM	0	0	0	0	0	0	0	0
	BF	0	0	0	0	0	0	0	0
	OM	0	0	0	0	0	0	0	0
	OF	0	0	0	0	0	0	0	0

+ Rate Per 100,000 Live Births

**** Cells suppressed to maintain confidentiality



INTRODUCTION

Purpose of Surveillance

Marriage and divorce certificates serve as legal documentation of marital status and provide limited surveillance information useful in describing current and changing societal attitudes that impact individual and family relationships. Successful marriages often result in emotional and economic supports helpful in achieving adequate levels of health and living standards for family members. Divorce is associated with the loss of psychological and economic support, as well as an increase in the risk of poor health and economic disadvantage for family members. Changes in marriage and divorce rates and demographics, such as the average age at marriage, can indicate population shifts in family size and family economic stability.

Source of Data: Certificate of Marriage

Information on marriages presented in this report is obtained from data recorded on the *Certificate of Marriage* completed for marriages that occurred in Louisiana in the 2003 calendar year. Louisiana law requires that marriage certificates be submitted by the parish clerks of court to the Vital Records Registry prior to the tenth of the month following the marriage. The law also requires that the Social Security numbers of the bride and groom remain confidential.

Source of Data: Certificate of Divorce or Annulment

Divorce information presented in this report is obtained from the *Certificate of Divorce or Annulment* and from summary divorce counts submitted by parish clerks of court for divorces that occurred in Louisiana in the 2003 calendar year. Louisiana law requires that divorce certificates be submitted to the Vital Records Registry prior to the tenth of the month following the divorce, and that the identities of the registrants remain confidential.

Unfortunately, many Louisiana parishes do not submit divorce certificates to the central registry, and incomplete information is submitted by many parishes which do file these certificates. The divorce tabulations included in this report reflect summary divorce counts made by the clerks of court, as well as data derived from actual certificates received in the central office. Because of poor reporting, Louisiana is excluded from the national divorce registration system.

MARRIAGE

Counts and Rates

The number of marriages by parish in 2003 is presented in table 7.1. In 2003, 37,288 marriages were celebrated in Louisiana, an increase from 36,545 in 2002 (Table 7.2).

Louisiana's 2003 marriage rate was 8.3 per 1,000 population. The rate for 2002 was 8.2 (Table 7.2). National and state marriage rates were approximately equal in the early 1990s, but the state rate rose to a level slightly higher than the national rate as the decade progressed.

Table 7.1 Number of Marriages by Parish, Louisiana 2003					
Parish	By Parish of Issue of License	By Parish of Occurrence	Parish	By Parish of Issue of License	By Parish of Occurrence
Acadia	458	507	Morehouse	183	190
Allen	203	229	Natchitoches	328	333
Ascension	648	618	Orleans	5229	5950
Assumption	171	171	Ouachita	1042	993
Avoyelles	355	359	Plaquemines	165	173
Beauregard	314	329	Pointe Coupee	131	157
Bienville	104	124	Rapides	1129	1093
Bossier	747	831	Red River	88	81
Caddo	2301	2034	Richland	163	174
Calcasieu	1936	1772	Sabine	195	214
Caldwell	99	94	St. Bernard	530	476
Cameron	63	89	St. Charles	317	288
Catahoula	90	94	St. Helena	49	66
Claiborne	101	117	St. James	122	178
Concordia	171	174	St. John	236	234
DeSoto	196	242	St. Landry	699	681
East Baton Rouge	3554	3162	St. Martin	284	333
East Carroll	32	51	St. Mary	408	419
East Feliciana	128	162	St. Tammany	1846	1705
Evangeline	238	267	Tangipahoa	929	834
Franklin	176	176	Tensas	31	36
Grant	108	145	Terrebonne	800	884
Iberia	521	516	Union	167	183
Iberville	197	218	Vermilion	446	446
Jackson	128	114	Vernon	631	620
Jefferson	2932	2720	Washington	409	394
Jefferson Davis	221	232	Webster	318	294
Lafayette	1605	1467	West Baton Rouge	191	179
Lafourche	684	617	West Carroll	82	89
LaSalle	151	150	West Feliciana	83	146
Lincoln	340	291	Winn	108	144
Livingstone	762	886	Out of State	-	157
Madison	215	183	State Total	37288	37288
Source: Louisiana State Center for Health Statistics					

Table 7.2 Marriages in Louisiana and United States, 1990 - 2003

Year	Louisiana		United States
	Number	Rate ⁺	Rate ⁺
1990	40443	9.6	9.8
1991	39161	9.3	9.4
1992	40053	9.4	9.3
1993	39364	9.1	9.0
1994	40405	9.4	9.1
1995	40516	9.3	8.9
1996	40221	9.2	8.8
1997	39662	9.1	8.9
1998	39544	9.1	8.4
1999	41343	9.5	8.6
2000	40561	9.1	8.4 ¹
2001	37628	8.4	8.2 ²
2002	36545	8.2	7.8 ³
2003	37288	8.3	7.7 ⁴

⁺Rate per 1,000 population

US Marriage Rates: Births, Marriages, Divorces, and Deaths: ¹2000 (NVSR, Volume 51, Number 10), ²2001 (Volume 52, Number 22), ³2002 (Volume 53, Number 21), ⁴2003 (Volume 54, Number 20). Marriage rates may be underestimated because of incomplete reporting in Oklahoma).

Louisiana rates are based on parish of occurrence.

Source: Louisiana State Center for Health Statistics, National Center for Health Statistics

Age of the Bride and Groom

In 2003, the 27.5 percent of Louisiana brides were in the 20-24 year age group, while 22.4 percent of the grooms were both in the 20-24 and 25-29 year age groups (Table 7.3).

Table 7.3 Number of Marriages by Age of Groom and Age of Bride Louisiana, 2003

Age of Groom	Total	Age of Bride														Unk.
		Less than 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70 &+	
Total	37288	3	379	2521	10253	7733	5149	3681	2891	2121	1169	610	351	211	199	17
Under 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-17	58	0	23	19	9	****	****	****	0	0	0	0	0	0	****	0
18-19	1049	0	130	551	294	51	6	****	0	0	0	0	0	0	0	0
20-24	8355	****	185	1541	5300	1007	224	66	19	7	****	0	0	****	****	
25-29	8344	****	29	298	3384	3432	884	232	60	12	6	****	****	0	0	****
30-34	5753	0	****	64	860	2071	1819	642	193	69	21	6	****	0	0	****
35-39	4059	0	5	25	256	759	1195	1121	479	167	38	10	****	0	****	****
40-44	3188	****	****	8	105	263	608	842	835	389	97	29	****	****	****	****
45-49	2419	0	0	5	30	97	261	459	655	620	210	52	18	7	****	****
50-54	1697	0	****	7	10	33	92	191	391	475	372	90	21	10	****	****
55-59	975	0	****	0	****	11	32	70	155	229	230	185	48	11	****	0
60-64	599	0	0	0	0	5	12	31	62	97	118	132	103	31	7	****
65-69	343	0	0	0	0	****	****	9	29	28	43	63	88	63	16	0
70 &+	444	0	0	****	****	0	****	9	12	27	33	41	63	86	165	****
Unk.	5	0	0	****	0	****	****	0	0	0	0	0	0	0	0	****

**** Cell suppressed to protect confidentiality.

Source: Louisiana State Center for Health Statistics.

The average age of Louisiana brides in 2003 was 41.7 years, while the average for grooms was 45.2 years. Over the past few years, there has been a steady increase in the ages of men and women who marry in the state (Table 7.4).

**Table 7.4 Average and Median Ages of Brides and Grooms
Louisiana, 1993-2003**

Year of Marriage	Average Age in Years		Median Age in Years	
	Bride	Groom	Bride	Groom
1993	28.7	31.0	25.4	27.6
1994	29.0	31.0	25.6	27.8
1995	29.4	32.0	26.1	28.2
1996	29.6	32.0	26.3	28.4
1997	29.8	32.3	26.4	28.7
1998	30.0	32.4	26.7	28.8
1999	30.0	32.4	26.8	28.9
2000	30.5	33.0	27.2	29.4
2001	30.6	33.0	27.2	29.4
2002	30.9	33.4	27.2	29.6
2003	41.7	45.2	40.1	43.4

Source: Louisiana State Center for Health Statistics.

During the period 1991-2003, there was a decrease in the rates of marriage in the 15-19 and 20-24 year age groups for both men and women (Table 7.5).

**Table 7.5 Marriage Rates⁺ by Gender and Age, Selected Years
Louisiana, 1991-2003**

Year	15-19		20-24		25-29		30-44	
	Female	Male	Female	Male	Female	Male	Female	Male
1991	34.7	13.6	70.7	66.6	46.9	67.4	20.3	24.7
1994	29.4	11.5	70.4	65.1	52.1	63.3	22.6	26.9
1997	22.6	8.6	64.9	55.6	55.7	64.8	23.3	27.9
2001*	18.0	6.6	61.9	52.6	51.4	57.6	23.5	27.6
2002	17.2	6.2	56.6	46.4	50.7	57.0	23.3	27.4
2003	17.1	6.3	57.4	46.7	51.4	56.6	24.2	28.2

⁺Rate per 1,000 gender/age-specific population. * Note: Population estimates for 2002 were used to calculate age-specific rates.
Source: Louisiana State Center for Health Statistics.

Prior Marital Status

In 2003, 44.3% of all marriages were first marriages performed in Louisiana for both the bride and the groom; 54.4% of brides and 54.3% of grooms stated that they had never been married (Table 7.6). In 21.9% of the marriages, both the bride and the groom were previously divorced while 33.8% of all brides and 34.4% of all grooms stated that they were previously divorced.

**Table 7.6 Number of Marriages by Previous Marital Status of Bride and Groom
Louisiana, 2003**

Previous Marital Status of Groom	Previous Marital Status of Bride					
	Total	Never Married	Widowed	Divorced	Marriage Annulled	Unknown
All	37288	20278	1221	12606	91	3092
Never Married	20257	16530	184	3449	31	63
Widowed	1066	125	380	532	4	25
Divorced	12840	3542	613	8164	16	505
Marriage Annulled	116	39	6	28	40	3
Unknown	3009	42	38	433	-	2496

Source: Louisiana State Center for Health Statistics.

**Table 7.7 Percent of Marriages by Previous Marital Status in Selected Years
Louisiana, 1991-2003**

Year	Never Married			Divorced		
	Bride	Groom	Both	Bride	Groom	Both
1991	61.9	62.4	50.5	32.8	32.3	20.4
1994	60.6	61.1	49.1	34.3	34.4	21.7
1997	58.5	59.3	47.2	35.3	35.4	22.5
2000	58.8	58.7	47.3	35.2	35.8	23.0
2001	55.4	55.9	45.0	33.3	33.4	21.3
2002	46.0	45.6	37.1	34.5	35.4	22.5
2003	54.4	54.3	44.3	33.8	34.4	21.9

Source: Louisiana State Center for Health Statistics.

**Table 7.8 Average and Median Age of Bride and Groom at this Marriage by Previous Marital Status
Louisiana, 2003**

Previous Marital Status	Average Age		Median Age	
	Bride	Groom	Bride	Groom
All	30.9	33.4	27.2	29.6
Bride Previously Unmarried, Groom Previously Unmarried	24.6	26.5	22.8	24.5
Bride Previously Unmarried, Groom Previously Married	30.4	36.8	28.2	34.3
Bride Previously Married, Groom Previously Unmarried	33.7	32.8	31.6	30.7
Bride Previously Married, Groom Previously Married	41.7	45.2	40.1	43.4

Source: Louisiana State Center for Health Statistics.

Race of Bride and Groom

In the year 2003, 95.7% of Louisiana marriages were between brides and grooms of the same race. This percentage excluded brides or grooms of unknown race and assumed that brides and grooms of other races, i.e., other than black or white, were of the same race (Table 7.9).

Table 7.9 Number of Marriages by Race of Groom and Race of Bride Louisiana, 2003

Race of Groom	Race of Bride				
	All Races	White	Black	Other	Unknown
All Races	37288	26163	10490	619	16
White	25913	25290	363	254	****
Black	10842	675	10104	60	****
Other	521	193	23	305	0
Unknown	12	5	0	0	7

**** Suppressed to protect confidentiality.
 Source: Louisiana State Center for Health Statistics.

Month of Marriage

On average, there were 3,107 marriages celebrated in Louisiana each month in the year 2003. In January, the number decreased to 2,057 (5.5% of all marriages); in May, it increased to 3,846 or 10.3% of all marriages (Table 7.10).

Table 7.10 Number and Percent of Marriages By Month of Occurrence Louisiana, 2003

Month	Number	Percent	Daily Average
Total	37288	100	102
January	2057	5.5	66
February	3124	8.4	112
March	3299	8.8	106
April	3158	8.5	105
May	3846	10.3	124
June	3782	10.1	126
July	3342	9	108
August	3329	8.9	107
September	2595	7	87
October	2991	8	96
November	3146	8.4	105
December	2619	7	84

Source: Louisiana State Center for Health Statistics.

DIVORCES 2003

Counts

Divorce reports for 2003 were submitted by all the 64 parishes in Louisiana. There were a total of 15,230 divorces and 25 annulments in Louisiana (Table 7.11).

Table 7.11 Number of Final Divorces and Annulments Granted by Parish, Louisiana 2003					
Parish	Divorces by Parish Granting Decree	Annulments by Parish Granting Decree	Parish	Divorces by Parish Granting Decree	Annulments by Parish Granting Decree
STATE	15230	25	Madison	36	0
Acadia	198	0	Morehouse	130	****
Allen	12	0	Natchitoches	124	0
Ascension	438	0	Orleans	1468	0
Assumption	95	0	Ouachita	737	****
Avoyelles	84	0	Plaquemines	142	0
Beauregard	154	0	Pointe Coupee	56	****
Bienville	35	0	Rapides	492	****
Bossier	495	****	Red River	23	0
Caddo	365	0	Richland	8	0
Calcasieu	950	0	Sabine	126	****
Caldwell	67	****	St. Bernard	285	0
Cameron	44	0	St. Charles	215	0
Catahoula	48	0	St. Helena	19	0
Claiborne	59	0	St. James	26	0
Concordia	63	0	St. John	****	0
DeSoto	20	0	St. Landry	185	0
East Baton Rouge	1769	****	St. Martin	73	0
East Carroll	15	0	St. Mary	135	0
East Feliciana	65	0	St. Tammany	457	0
Evangeline	123	0	Tangipahoa	224	0
Franklin	146	****	Tensas	****	0
Grant	96	0	Terrebonne	539	0
Iberia	125	0	Union	89	0
Iberville	46	0	Vermilion	176	****
Jackson	47	0	Vernon	95	****
Jefferson	1731	5	Washington	78	****
Jefferson Davis	148	0	Webster	181	0
Lafayette	303	****	West Baton Rouge	91	0
Lafourche	369	0	West Carroll	72	0
LaSalle	67	0	West Feliciana	31	0
Lincoln	117	0	Winn	65	0
Livingstone	552	0	Out of State	*	*

Source: Louisiana State Center for Health Statistics
 * No Divorce or Annulment data reported by clerk of court.
 **** Suppressed to protect confidentiality.



TECHNICAL NOTES

DATA SOURCES, COMPLETENESS, AND IMPUTATIONS

Sources of Data

Louisiana law requires that certificates of vital events be submitted to the Department of Health and Hospitals, Office of Public Health, Vital Records Registry Program. The Vital Records Registry Program is charged with the responsibility of recording and preserving the submitted documents. The Office of Public Health's State Center for Health Statistics is assigned the tasks of tabulating, analyzing, summarizing, and disseminating statistical information recorded on vital certificates.

Unless otherwise noted, statistics presented in this report were obtained from information found on certificates registered with the Vital Records Registry Program and analyzed by the State Center for Health Statistics. Records of vital events occurring outside the state to residents of Louisiana were obtained from transcripts of certificates made available through a nationwide system of interchange among all states and territories. National-level data were extracted from publications of the National Center for Health Statistics.

United States data were obtained from publications of the National Center for Health Statistics. Data and information other than that provided from the Vital Records Registry Program are footnoted wherever they appear in this report.

Completeness of Data

Births: Matching of infant death certificates with the corresponding birth certificates indicates that birth registration in Louisiana is approximately 97 percent complete¹. This figure is considered an underestimate of completed certificates, since some certificates may fail to be included in the matching process due to differences in key variables on the birth and death certificates. Under-registration of births for infants who die shortly after they are born is another contributing factor and in some cases birthing facilities have not registered births in a timely fashion.

Deaths: Death registration is considered to be close to 100 percent complete, as each death certificate is tied to a burial permit issued by the State. However, it is recognized that some under-registration does occur: certificates may not be issued for infants dying shortly after birth or for the unclaimed remains of a decedent.

Spontaneous Fetal Deaths: The extent of completeness of information on spontaneous fetal deaths (stillbirths) is not known, but some under-registration is likely, especially for those occurring near 20 weeks gestation.

Induced Termination of Pregnancy: The Vital Records Registry receives certificates on most abortions performed in Louisiana, but the information recorded on the filed certificates is often incomplete. Although some states notify Louisiana of abortions obtained by Louisiana residents, Louisiana cannot reciprocate; a federal court decision prohibits the collection of residency information on women who terminate pregnancies within the state. Hence, no accurate count of terminations among Louisiana residents is available.

¹ National Center for Health Statistics, "Infant Mortality Statistics from the 2000 Period Linked Birth/Infant Death Data Set" [National Vital Statistics Report](#) 50:12 (Aug. 2002):22

Marriage: The statistics presented in the Vital Statistics Report are based upon Marriage Certificates filed annually with the Vital Records Registry for marriages occurring in the state. These data are incomplete since the total number of marriages celebrated in each parish may not be reported to the state Vital Records Registry.

Divorce: Louisiana divorce statistics are more complete than previous years. In 2002, 78% of the parishes in the state failed to report divorce information to the Vital Records Registry. The divorce tabulations reported by the State Center for Health Statistics included counts made by the Clerks of Courts as well as data derived from actual certificates received in the central office. Because of the magnitude of its underreporting, Louisiana is excluded from the national divorce registration system.

Missing Data

In the *State Summary* sections of this report, data presented in tables and figures exclude records that are missing the information being described. In the Parish and Region Tables, however, missing data have been imputed as follows:

- "Sex (Gender)" is allocated male or female depending on whether the last digit of the record identification number is even or odd, except in the case of death where the underlying cause is sex-specific.
- "Race" is assigned to match that of the previous record, giving a probability of assignment to white, black, or other that is consistent with the racial distribution of the data set.
- "Parish of Residence" is assumed to be "Parish of Occurrence" when residence parish is missing for live births or for infants dying under 1 year of age.

Place of Residence vs. Place of Occurrence

Vital events are classified by Place of Residence or by Place of Occurrence. Place of Residence is defined as the residence of the deceased for a death and as the residence of the mother for a birth or stillbirth. Place of Occurrence is defined as the geographic location where the event occurred. All tables refer to events occurring to Louisiana residents except as noted.

Cities Located in Two Parishes

The following cities span parish boundaries:

- Bossier City – Primarily in Bossier Parish, partly in Caddo Parish.
- Shreveport – Primarily in Caddo Parish, partly in Bossier Parish.
- Eunice – Primarily in St. Landry Parish, partly in Acadia Parish.
- De Ridder – Primarily in Beauregard Parish, partly in Vernon Parish.

In this report, the city is reported as a single entity in the primary parish, and all events are allocated to that city. However, at the parish level the event is allocated to the actual parish of occurrence. As an illustration, if a birth occurs in the portion of Shreveport that falls in Bossier Parish, it is reported in the Shreveport city count printed below Caddo Parish, but is not included in the Caddo Parish birth count. It is, instead, included in the Bossier Parish birth count. There is a possibility that this reallocation may show more events in a city than in the parish where the city is primarily located.

Comparability of National and State Data

Numbers and rates published in state tables by the National Center for Health Statistics (NCHS) may vary slightly from data published by Louisiana's State Center for Health Statistics due to differences in the assumptions applied to the data.

PARISH AND REGION TABLES

For online readers of this report, parish and region tables can be found under the Vital Statistics Data Tables for the year 2001 in the Center’s Directory of Vital Statistics Publications at: <http://www.oph.dhh.state.la.us/recordsstatistics/statistics>

Parish Tables

Tables included in the *Parish Tables* sections of this report contain data for Louisiana’s 64 parishes and for the major cities within each parish. Data entries for major cities are listed below the parish entries. Cities are labeled with an asterisk (*) following the city name.

All crude rates included in the *Parish Tables* sections of this report have been calculated using Louisiana Technical University (LATech) Data for 2001. All age-adjusted rates included in the *Deaths* section of this report have been calculated using U.S. Census Data for 2000 and the 2000 U.S. Standard population.

Health Region Tables

Tables included in the *Region Tables* sections of this report contain data for the Office of Public Health’s nine administrative regions. These regions contain the following parishes:

Region 1 (Metropolitan)

Jefferson
Orleans
Plaquemines
St. Bernard

Region 2 (Capitol)

Ascension
East Baton Rouge
East Feliciana
Iberville
Pointe Coupee
West Baton Rouge
West Feliciana

Region 3 (Teche)

Assumption
Lafourche
St. Charles
St. James
St. John
St. Mary
Terrebonne

Region 4 (Acadian)

Acadia
Evangeline
Iberia
Lafayette
St. Landry
St. Martin
Vermillion

Region 5 (Southwest)

Allen
Beauregard
Calcasieu
Cameron
Jefferson Davis

Region 6 (Central)

Avoyelles
Catahoula
Concordia
Grant
LaSalle
Rapides
Vernon
Winn

Region 7 (Northwest)

Bienville
Bossier
Caddo
Claiborne
DeSoto
Natchitoches
Red River
Sabine
Webster

Region 8 (Northeast)

Caldwell
East Carroll
Franklin
Jackson
Lincoln
Madison
Morehouse
Ouachita
Richland
Tensas
Union
West Carroll

Region 9 (Southeast)

Livingston
St. Helena
St. Tammany
Tangipahoa
Washington

All regional crude rates included in the *Region Tables* sections of this report have been calculated using 2002 population estimates provided by Louisiana Technical University (LATech).

POPULATION DATA

In the *State Summary* sections of this report, the bridged-race post-census data for the year 2002 provided by the United States Census Bureau and National Center for Health Statistics (NCHS) were used to calculate state-level rates for demographic subgroups (race, sex, age). Population files are from the U.S. Census Bureau website (www.census.gov). Age-adjusted death rates were calculated using the 2000 standard population.

In the *Parish Tables* and *Region Tables* sections of this report, crude rates for total populations at state, region, and parish levels were calculated using Louisiana Technical University (LATEch) Data for 2002.

BIRTH DATA

Race

Prior to 1989, the race reported in birth data tables was the inferred race of the child. Beginning in 1989, the race of the newborn is established by the race of the mother.

Place of Residence

Place of Residence is defined as the residence of the mother for a birth or stillbirth.

Adequate Prenatal Care (modified Kessner Index definition):

1. Care must begin in the first trimester
2. The number of required prenatal visits varies with gestational age and is as follows:

17 weeks gestation requires two or more visits

18-21 weeks gestation requires three or more visits

22-25 weeks gestation requires four or more visits

26-29 weeks gestation requires five or more visits

30-31 weeks gestation requires six or more visits

32-33 weeks gestation requires seven or more visits

34-35 weeks gestation requires eight or more visits

36 weeks gestation requires nine or more visits

Weight Equivalents

Equivalents of the gram weight in terms of pounds and ounces are shown below:

453.6 grams = 1 pound

under 500 grams = 1 pound 1 ounce or less

500 - 999 grams = 1 pound 2 ounces - 2 pounds 3 ounces

1000-1499 grams = 2 pounds 4 ounces - 3 pounds 4 ounces

1500-1999 grams = 3 pounds 5 ounces - 4 pounds 6 ounce

2000-2499 grams = 4 pounds 7 ounces - 5 pounds 8 ounces

2500-2999 grams = 5 pounds 9 ounces - 6 pounds 9 ounces

3000-3499 grams = 6 pounds 10 ounces - 7 pounds 11 ounces

3500-3999 grams = 7 pounds 12 ounces - 8 pounds 13 ounces

4000-4499 grams = 8 pounds 14 ounces - 9 pounds 14 ounces

4500-4999 grams = 9 pounds 15 ounces - 11 pounds 0 ounces

5000 grams or > = 11 pounds 1 ounce or more

Gestational Age

The attending physician records gestational age on the birth certificate. Physicians use several different methods to estimate gestational age, including computing the interval between the first day of the mother's last normal menstrual period (LMP) and the date of birth, or determining a clinical estimate based on examination of the newborn. Because these methods have inherent limitations (for example, imperfect maternal recall of LMP), measurement of gestational age is imprecise. Without standardized methods of measurement, determination of gestational age will remain an issue, especially among at-risk pregnancies in which few or no prenatal ascertainment are made.

Louisiana Birth Certificates record both the "Date Last Normal Menses Began" and the "Clinical Estimate of Gestation." The "Clinical Estimate of Gestation" is used to determine gestational age in the *Live Births* section of this report.

Birthweight

For parish and region tables with information regarding the weight of the live birth, those live births less than 10 grams are reassigned to "unknown".

Number of Prenatal Visits

For parish and region tables with reference to Adequate Prenatal Care, live births for which the mother had more than 50 prenatal visits are reassigned to "unknown".

Birth Rates for Mothers under Age 15 Years and Over Age 45 Years

The following conventions are used when calculating rates for mothers younger than age 15 years or older than age 44 years:

- For age categories labeled "Under 15", the numerator is all live births to mothers under 15 years of age. Mothers who are younger than 8 years of age are reassigned to "unknown". The denominator is the female population aged 10 through 14 years.
- For age categories labeled "45 & Older", the numerator is all live births to mothers aged 45 years and older. Mothers older than 54 years of age are reassigned to "unknown". The denominator is the female population aged 45 through 49 years.

SPONTANEOUS FETAL DEATH DATA (STILLBIRTH)

Definition of a Spontaneous Fetal Death

Louisiana defines a spontaneous fetal death (stillbirth) as a death to a fetus with gestational age of at least 20 weeks or birthweight of at least 350 grams. The National Center for Health Statistics (NCHS) uses only gestational age (at least 20 weeks) to define a fetal death.

The calculation of tables and figures for this report varies between the Louisiana and NCHS definitions, depending upon whether the data are intended for comparison to national data. The definition used is specified following each table or figure.

Estimation of Gestational Age

Beginning with the *1997 Louisiana Vital Statistics Report*, gestational ages for fetal deaths occurring in or after 1995 are reported based upon the National Center for Health Statistics formula for calculation of gestational age for fetal deaths. This formula calculates gestational age by combining information collected in the "Date Last Normal Menses Began" and "Clinical Estimate of Gestation" sections of the Louisiana Certificate of Fetal Death (Stillbirth).

Gestational ages reported for years prior to 1995 were calculated by subtracting the "Date Last Normal Menses Began" from the "Date of Delivery," as recorded on the Fetal Death Certificate.

Cause of Death Coding

Please refer to the **DEATH DATA** section of this chapter (page 160) for details concerning the International Statistical Classification of Diseases, Injuries, and Causes of Death (ICD).

The complete list of 146 selected causes of fetal death that should appear in Table 3.10 follows below.

Certain infectious and parasitic diseases (A00-B99)	Other and unspecified diseases of digestive system (K00-K38, K50-K92)
Congenital syphilis (A50)	All other diseases, excluding signs & ill-defined conditions, perinatal conditions, congenital anomalies, & symptoms (D65-89, I00-J98, L00-N98)
Human immunodeficiency virus (HIV) disease (B20-B24)	Certain conditions originating in the perinatal period (P00-P96)
Other viral diseases (A80-B19, B25-B34)	Fetus affected by maternal conditions that may be unrelated to present pregnancy (P00)
Other and unspecified infectious and parasitic diseases (A00-A49, A51, A79, B35-B99)	Fetus affected by maternal hypertensive disorders (P00.0)
Malignant neoplasms (C00-C97)	Fetus affected by maternal renal and urinary tract diseases (P00.1)
In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48)	Fetus affected by maternal infectious and parasitic diseases (P00.2)
Anemias (D50-D64)	Fetus affected by other maternal circulatory and respiratory diseases (P00.3)
Endocrine, nutritional and metabolic diseases (E00-E88)	Fetus affected by maternal nutritional disorders (P00.4)
Short stature, not elsewhere classified (E34.3)	Fetus affected by maternal injury (P00.5)
Cystic fibrosis (E84)	Fetus affected by surgical procedure on mother (P00.6)
Other endocrine, nutritional and metabolic diseases (E00-E32, E34.0- E34.2, E34.4-E34.9, E40-E83, E85-E88)	Fetus affected by other medical procedures and maternal conditions (P00.7-P00.8)
Meningitis (G00, G03)	
Other diseases of nervous system and sense organs (G04-H93)	
Umbilical hernia (K42)	
Other hernia (K40-K41, K43-K46)	

Fetus affected by unspecified maternal condition (P00.9)	Exceptionally large size and other heavy for gestational age fetus (P08.0-P08.1)
Fetus affected by maternal complications of pregnancy (P01)	Post-term, not heavy for gestational age fetus (P08.2)
Fetus affected by incompetent cervix (P01.0)	Birth trauma (P10-P15)
Fetus affected by premature rupture of membranes (P01.1)	Intracranial laceration and hemorrhage due to birth injury and other injuries to central nervous system (P10-P11)
Fetus affected by oligohydramnios (P01.2)	Other birth trauma (P12-P15)
Fetus affected by polyhydramnios (P01.3)	Intrauterine hypoxia and birth asphyxia (P20-P21)
Fetus affected by ectopic pregnancy (P01.4)	Intrauterine hypoxia first noted before onset of labor (P20.0)
Fetus affected by multiple pregnancies (P01.5)	Intrauterine hypoxia first noted during labor and delivery (P20.1)
Fetus affected by maternal death (P01.6)	Intrauterine hypoxia, unspecified (P20.9)
Fetus affected by malpresentation before labor (P01.7)	Birth asphyxia (P21)
Fetus affected by other and unspecified maternal complications of pregnancy (P01.8-P01.9)	Other respiratory conditions originating in the perinatal period (P23-P28)
Fetus affected by complications of placenta, cord and membranes (P02)	Congenital pneumonia (P23)
Fetus affected by placenta previa (P02.0)	Aspiration syndromes (P24)
Fetus affected by other forms of placental separation and hemorrhage (P02.1)	Interstitial emphysema and related conditions originating in the perinatal period (P25)
Fetus affected by other and unspecified morphological and functional abnormalities of placenta (P02.2)	Atelectasis (P28.0-P28.1)
Fetus affected by placental transfusion syndromes (P02.3)	Other respiratory system disorders (P26-P27, P28.2-P28.9)
Fetus affected by prolapsed cord (P02.4)	Infections specific to the perinatal period (P35-P39)
Fetus affected by other compression of umbilical cord (P02.5)	Congenital rubella syndrome (P35.0)
Fetus affected by other and unspecified conditions of umbilical cord (P02.6)	Congenital cytomegalovirus infection (P35.1)
Fetus affected by chorioamnionitis (P02.7)	Congenital herpes viral (herpes simplex) infection (P35.2)
Fetus affected by other and unspecified abnormalities of membranes (P02.8-P02.9)	Congenital viral hepatitis (P35.3)
Fetus affected by other complications of labor and delivery (P03)	Bacterial sepsis (P36)
Fetus affected by breech delivery and extraction (P03.0)	Congenital tuberculosis (P37.0)
Fetus affected by other malpresentation, malposition and disproportion during labor and delivery (P03.1)	Congenital toxoplasmosis (P37.1)
Fetus affected by forceps delivery (P03.2)	Other infections specific to the perinatal period (P35.8-P35.9, P37.2, P37.9, P38-P39)
Fetus affected by delivery by vacuum extractor (ventouse) (P03.3)	Fetal hemorrhage (P50-P54)
Fetus affected by cesarean delivery (P03.4)	Hemolytic disease of fetus (P55-P56)
Fetus affected by precipitate delivery (P03.5)	Rh isoimmunization of fetus (P55.0)
Fetus affected by abnormal uterine contractions (P03.6)	ABO isoimmunization of fetus (P55.1)
Fetus affected by other and unspecified complications of labor and delivery (P03.8-P03.9)	Other hemolytic disease of fetus (P55.8-P55.9)
Fetus affected by noxious influences transmitted via placenta (P04)	Hydrops fetalis due to hemolytic disease (P56)
Slow fetal growth and fetal malnutrition (P05)	Perinatal jaundice (P57-P59)
Disorders related to short gestation and low birth weight, not elsewhere classified (P07)	Hematological disorders (P60-P61)
Extremely low birth weight or extreme immaturity (P07.0, P07.2)	Transitory endocrine and metabolic disorders specific to fetus (P70-P74)
Other low birth weight and preterm (P07.1, P07.3)	Syndrome of infant of a diabetic mother and neonatal diabetes mellitus (P70.0-P70.2)
Disorders related to long gestation and high birth weight (P08)	Other transitory endocrine and metabolic disorders specific to fetus (P70.3-P70.9, P71-P74)
	Digestive system disorders of fetus (P76-P78)
	Other conditions originating in the perinatal period (P80-P96)
	Hydrops fetalis not due to hemolytic disease (P83.2)

Fetal death of unspecified cause (P95)	Congenital malformations of genital organs (Q50-Q56)
Withdrawal symptoms from maternal use of drugs of addiction (P96.1)	Congenital malformations of urinary system (Q60-Q64)
Termination of pregnancy (P96.4)	Renal agenesis and other reduction defects of kidney (Q60)
Complications of intrauterine procedures, not elsewhere classified (P96.5)	Cystic kidney disease (Q61)
All other specified conditions originating in the perinatal period (P80-P81, P83.0-P83.1, P83.3-P83.9, P90-P91, P93-P94, P96.0, P96.3, P96.8)	Other congenital malformations of urinary system (Q62-Q64)
Condition originating in the perinatal period, unspecified (P96.9)	Congenital malformations and deformations of musculoskeletal system, limbs and integument (Q65-Q85)
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	Other congenital malformations (Q86, Q89)
Congenital malformations of nervous system (Q00-Q07)	Conjoined twins (Q89.4)
Anencephaly and similar malformations (Q00)	Multiple congenital malformations, not elsewhere classified (Q89.7)
Encephalocele (Q01)	All other congenital malformations (Q86-Q87, Q89.0-Q89.3, Q89.8-Q89.9)
Microcephaly (Q02)	Chromosomal abnormalities, not elsewhere classified (Q90-Q99)
Congenital hydrocephalus (Q03)	Down's syndrome (Q90)
Reduction deformities of brain (Q04.0-Q04.3)	Edward's syndrome (Q91.0-Q91.3)
Other congenital malformations of brain (Q04.4-Q04.9)	Patau's syndrome (Q91.4-Q91.7)
Spina bifida (Q05)	Other chromosomal abnormalities, not elsewhere classified (Q92-Q99)
Other congenital malformations of spinal cord and nervous system (Q06, Q07)	Symptoms, signs and abnormal, clinical and laboratory findings, not elsewhere classified (R83-R94)
Congenital malformations of eye, ear, face and neck (Q10-Q18)	External causes of mortality (V01-Y84)
Congenital malformations of heart (Q20-Q24)	Accidents (V01-X59)
Other congenital malformations of circulatory system (Q25-Q28)	Assault (homicide) (X85-Y09)
Congenital malformations of lung (Q33)	Complications of medical and surgical care (Y40-Y84)
Other congenital malformations of respiratory system (Q30-Q32, Q34)	Other external causes (Y10-Y36)
Congenital malformations of digestive system (Q35-Q45)	

DEATH DATA

Place of Residence

Place of Residence is defined as the residence of the deceased for a death and as the residence of the mother for a stillbirth.

Cause of Death Coding

Classification System: World Health Organization regulations specify that member nations classify cause of death in accordance with the current revision of the International Statistical Classification of Diseases, Injuries, and Causes of Death (ICD). The ICD has been revised approximately every ten years since 1900. The current revision, ICD-10, was implemented beginning with deaths occurring on January 1, 1999. For more information on the tenth revision, please visit the Centers for Disease Control and Prevention website at: <http://www.cdc.gov/nchs/about/major/dvs/icd10des.htm>.

Underlying Causes: Prior to 1949, under the first five revisions of the International Classification, causes of death were coded based on priority tables for multiple causes as set forth in *The Manual for Joint Causes of Death*. Under the sixth through the tenth revisions, the cause of death coded for tabulating death data is the "underlying cause" as determined from information provided on the death certificate by the attending physician or coroner. Currently, when more than one cause of death exists, the causes are ordered according to the Automated Classification of Medical Entities (ACME) system. ACME is a computerized program that evaluates both the ICD-10 code characteristics and the components of the death history recorded on the certificate to determine the primary, or "underlying," cause of death. The "underlying cause" may be defined as (a) the disease or injury that initiated the train of morbid events leading directly to death or (b) the circumstances, accident, or violence that produced the fatal injury.

Comparability of Statistics from ICD-9 to ICD-10: The decennial revisions of the International Classification of Diseases (ICD) have led to repeated breaks in the comparability of cause-of-death data. The introduction of the present concepts of classification in the sixth revision seriously affected the interpretation of mortality trends before and after 1949. **Comparability ratios** were subsequently computed by the United States to assist in the analysis of mortality trends by providing a measure of the degree of discontinuity. Following the recommendations of the International Conference for the Sixth Revision of the ICD, the United States used a dual coding method for constructing these comparability ratios after the introduction of each of the last five revisions, including the current ICD-10.

For a more detailed description of the role played by comparability ratios in interpreting the differences between ICD-9 and ICD-10, please see *Comparability of Cause of Death Between ICD-9 and ICD-10: Preliminary Estimates*, Vol. 49 No. 2 [DHHS Publication No. (PHS) 2001-1120 1-0355 (5/2001)], National Vital Statistics Reports, National Center for Health Statistics, Centers for Disease Control and Prevention, May 18, 2001. This publication can be downloaded from the National Center for Health Statistics website at: http://www.cdc.gov/nchs/data/nvsr/nvsr49/nvsr49_02.pdf.

Cause of Death Ranking: Beginning with ICD-10 in 1999, cause of death rankings are based on the "List of 113 Selected Causes of Death" developed by the National Center for Health Statistics. This list was adapted from a basic list recommended by the World Health Organization for use with the Tenth Revision of the ICD. The categories "Major Cardiovascular Diseases" and "Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified" are not ranked. In addition, categories that begin with the words "Other" or "All Other" are not ranked. To determine the leading causes of death, the remaining categories are ranked according to the number of deaths that occur in the calendar year. When a category that

represents a subtotal is ranked (e.g., "Tuberculosis"), its component parts (in this example, "Respiratory tuberculosis" and "Other tuberculosis") are not ranked.

Codes Used for Cause of Death Ranking: The groupings of ICD-10 codes used to rank causes of death in this report are those used by the National Center for Health Statistics. The complete list of 113 selected causes is listed below:

Salmonella infections (A01, A02)	Malignant of lymphoid, Hematopoietic and related tissue (C81-C96)
Shigellosis and amebiasis (A03, A06)	Hodgkin's disease (C81)
Certain other intestinal infections (A04, A07-A09)	Non-Hodgkin's lymphoma (C82-C85)
Tuberculosis (A16-A19)	Leukemia (C91-C95)
Respiratory tuberculosis (A16)	Multiple myeloma and immuno-proliferative neoplasms (C88, C90)
Other tuberculosis (A17-A19)	Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue (C96)
Whooping cough (A37)	All other and unspecified malignant neoplasms (Other in C00-C97)
Scarlet fever and erysipelas (A38, A46)	In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48)
Meningococcal infection (A39)	Anemias (D50-D6)
Septicemia (A40-A41)	Diabetes mellitus (E10-E14)
Syphilis (A50-A53)	Nutritional deficiencies (E40-E64)
Acute poliomyelitis (A80)	Malnutrition (E40-E46)
Arthropod-borne viral encephalitis (A83-A84, A85.2)	Other nutritional deficiencies (E50-E64)
Measles (B05)	Meningitis (G00, G03)
Viral Hepatitis (B15-B19)	Parkinson's disease (G20-G21)
Human Immunodeficiency Virus (HIV) disease (B20-B24)	Alzheimer's disease (G30)
Malaria (B50-B54)	Major cardiovascular disease (I00-I78)
Other and unspecified infectious and parasitic diseases and their Sequelae (Other in A00-B99)	Diseases of heart (I00-I09, I11, I13, I20, I51)
Malignant neoplasms (C00-C97)	Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)
Malignant neoplasms of lip, oral cavity and pharynx (C00-C14)	Hypertensive heart disease (I11)
Malignant neoplasm of esophagus (C15)	Hypertensive heart and renal disease (I13)
Malignant neoplasms of stomach (C16)	Ischemic heart diseases (I20-I25)
Malignant neoplasm of colon, rectum and anus (C18-C21)	Acute myocardial infarction (I21-I22)
Malignant neoplasms of liver and Intrahepatic bile ducts (C22)	Other acute ischemic heart diseases (I24)
Malignant neoplasm of pancreas (C25)	Other forms of chronic ischemic heart diseases (I20, I25)
Malignant neoplasm of larynx (C32)	Atherosclerotic cardiovascular disease, so described (I25.0)
Malignant neoplasms of trachea, Bronchus and lung (C33-C34)	All other forms of chronic ischemic heart disease (I20, I25.1- I25.9)
Malignant melanoma of skin (C43)	Other heart diseases (I26-I51)
Malignant neoplasm of breast (C50)	Acute and subacute endocarditis (I33)
Malignant neoplasm of cervix uteri (C53)	Diseases of pericardium and acute myocarditis (I30-I31, I40)
Malignant neoplasms of corpus uteri and uterus, part unspecified (C54-C55)	Heart failure (I50)
Malignant neoplasm of ovary (C56)	All other forms of heart disease (I26-I28, I34-I38, I42-I49, I51)
Malignant neoplasm of prostate (C61)	Essential (primary) hypertension and hypertensive renal disease (I10, I12)
Malignant neoplasm of kidney and renal pelvis (C64-C65)	Cerebrovascular diseases (I60-I69)
Malignant neoplasm of bladder (C67)	Atherosclerosis (I70)
Malignant neoplasms of meninges, brain and other parts of central nervous system (C70-C72)	

Other diseases of the circulatory system (I71-I78)	Accidents (V01-X59, Y85-Y86)
Aortic aneurysm and dissection (I71)	Transport accidents (V01- V99, Y85)
Other diseases of arteries, arterioles and capillaries (I72-I78)	Motor vehicle accidents (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)
Other disorders of the circulatory system (I80-I99)	Other land transport accidents (V01, V05- V06, V09.1, V09.3, V09.9, V10- V11, V15- V18, V19.3, V19.8 ,V19.9,V80.0- V80.2, V80.6- V80.9, V81.2- V81.9, V82.2-V82.9, V87.9, V88.9,V89.1,V8-9.3,V89.9)
Influenza and pneumonia (J10-J18)	Water, air and space, and other and unspecified transport accidents and their sequelae (V90-V99, Y85)
Influenza (J10-J11)	Nontransport accidents (W00- X59, Y86)
Pneumonia (J12-J18)	Falls (W00-W19)
Other acute lower respiratory infections (J20-J22)	Accidental discharge of Firearms (W32- W34)
Acute bronchitis and bronchiolitis (J20-J21)	Accidental drowning and Submersion (W65- W74)
Unspecified acute lower respiratory infection (J22)	Accidental exposure to smoke, fire and flames (X00- X09)
Chronic lower respiratory diseases (J40- J47)	Accidental poisoning and exposure to noxious substances (X40- X49)
Bronchitis, chronic and unspecified (J40-J42)	Other and unspecified nontransport accidents and their sequelae (W20-W31,W35- W64,W75-W99, X10 X39,X50- X59,Y86)
Emphysema (J43)	Intentional self-harm (suicide) (X60- X84, Y87.0)
Asthma (J45- J46)	Intentional self-harm (suicide) by discharge of firearms (X72- X74)
Other chronic lower respiratory diseases (J44, J47)	Intentional self-harm (suicide) by other and unspecified means and their sequelae (X60- X71, X75- X84, Y87.0)
Pneumoconioses and chemical effects (J60- J66, J68)	Assault (homicide) (X85, Y09, Y87.1)
Pneumonitis due to solids and liquids (J69)	Assault (homicide) by discharge of firearms (X93- X95)
Other diseases of respiratory system (J00- J06, J30- J39, J67, J70- J98)	Assault (homicide) by other and unspecified means and their sequelae (X85- X92, X96- Y09, Y87.1)
Peptic ulcer (K25-K28)	Legal intervention (Y35, Y89.0)
Diseases of appendix (K35- K38)	Events of undetermined intent (Y10-Y34, Y87.2, Y89.0- 9)
Hernia (K40-K46)	Discharge of firearms, undetermined intent (Y22- Y24)
Chronic liver disease and cirrhosis (K70, K73-K74)	Other and unspecified events of undetermined intent and their sequelae (Y10-Y21, Y25- Y34, Y87.2, Y89. 9)
Alcoholic liver disease (K70)	Operations of war and their sequelae (Y36, Y89.1)
Other chronic liver disease and cirrhosis (K73-K74)	Complications of medical and surgical care (Y40-Y84, Y88)
Cholelithiasis and other disorders of gallbladder (K80-K82)	
Nephritis, nephrotic syndrome and nephrosis (N00- N07, N17-N19, N25, N27)	
Acute and rapidly progressive nephritic and nephrotic syndrome (N00- N01, N04)	
Chronic glomerulonephritis, nephritis & nephritis unspecified, & renal sclerosis unspecified (N02-N03, N05- N07, and N26)	
Renal failure (N17-N19)	
Other disorders of kidney (N25, N27)	
Infections of kidney (N10- N12, N13.6, N15.1)	
Hyperplasia of prostate (N40)	
Inflammatory diseases of female pelvic organs (N70- N76)	
Pregnancy, childbirth and the puerperium (O00-O99)	
Pregnancy with abortive outcome (O00- O07)	
Other complications of pregnancy, Childbirth and the puerperium (O10-O99)	
Certain conditions originating in the perinatal period (P00- P96)	
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00- R99)	
All other diseases (Residual) (Other in D65- N98)	

Codes Used for Cause of Infant Death: The complete list of 130 selected causes used by National Center for Health Statistics is shown below:

Certain infectious and parasitic diseases (A00-B99)	Volume depletion, disorders of fluid, electrolyte and acid-base balance (E86-E87)
Certain intestinal infectious diseases (A00-A08)	All other endocrine, nutritional and metabolic diseases (E00-E32, E34.0-E34.2, E34.4-E34.9, E65-E83, E85, E88)
Diarrhea and gastroenteritis of presumed infectious origin (A09)	Diseases of the nervous system (G00-G98)
Tuberculosis (A16-A19)	Meningitis (G00, G03)
Tetanus (A33, A35)	Infantile spinal muscular atrophy, type I (Werdnig-Hoffman) (G12.0)
Diphtheria (A36)	Infantile cerebral palsy (G80)
Whooping cough (A37)	Anoxic brain damage, not elsewhere classified (G93.1)
Meningococcal infection (A39)	Other diseases of nervous system (G04, G06-G11, G12.1-G12.9, G20-G72, G81-G92, G93.0, G93.2-G93.9, G95-G98)
Septicemia (A40-A41)	Diseases of the ear and mastoid process (H60-H93)
Congenital syphilis (A50)	Diseases of the circulatory system (I00-I99)
Gonococcal infection (A54)	Pulmonary heart disease and diseases of pulmonary circulation (I26-I28)
Viral diseases (A80-B34)	Pericarditis, endocarditis and myocarditis (I30, I33, I40)
Acute poliomyelitis (A80)	Cardiomyopathy (I42)
Varicella (chickenpox) (B01)	Cardiac arrest (I46)
Measles (B05)	Cerebrovascular diseases (I60-I69)
Human immunodeficiency virus (HIV) disease (B20-B24)	All other diseases of circulatory system (I00-I25, I31, I34-I38, I44-I45, I47-I51, I70-I99)
Mumps (B26)	Diseases of the respiratory system (J00-J98)
Other and unspecified viral diseases (A81-B00, B02-B04, B06-B19, B25, B27-B34)	Acute upper respiratory infections (J00-J06)
Candidiasis (B37)	Influenza and pneumonia (J10-J18)
Malaria (B50-B54)	Influenza (J10-J11)
Pneumocystosis (B59)	Pneumonia (J12-J18)
Other and unspecified infectious and parasitic diseases and their sequelae (A20-A32, A38, A42- A49, A51-A53, A55-A79, B35-36, B38-B49, B55-B58, B60-B99)	Acute bronchitis and acute bronchiolitis (J20-J21)
Neoplasms (C00-D48)	Bronchitis, chronic and unspecified (J40-J42)
Malignant neoplasms (C00-C97)	Asthma (J45-J46)
Hodgkin's disease and non-Hodgkin's lymphomas (C81-C85)	Pneumonitis due to solids and liquids (J69)
Leukemia (C91-C95)	Other and unspecified diseases of respiratory system (J22, J30-J39, J43-J44, J47-J68, J70-J98)
Other and unspecified malignant neoplasms (C00-C80, C88, C90, C96-C97)	Diseases of the digestive system (K00-K92)
In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48)	Gastritis, duodenitis, and noninfective enteritis and colitis (K29, K50-K55)
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	Hernia of abdominal cavity and intestinal obstruction without hernia (K40-K46, K56)
Anemias (D50-D64)	All other and unspecified diseases of digestive system (K00-K28, K30-K38, K57-K92)
Hemorrhagic conditions and other diseases of blood and blood-forming organs (D65-D76)	Diseases of the genitourinary system (N00-N98)
Certain disorders involving the immune mechanism (D80-D89)	Renal failure and other disorders of kidney (N17-N19, N25, N27)
Endocrine, nutritional and metabolic diseases (E00-E88)	Other and unspecified diseases of genitourinary system (N00-N15, N20-N23, N26, N28-N98)
Short stature, not elsewhere classified (E34.3)	
Nutritional deficiencies (E40-E64)	
Cystic fibrosis (E84)	

Certain conditions originating in the perinatal period (P00-P96)	All other respiratory conditions originating in the perinatal period (P28.2-P28.9)
Newborn affected by maternal factors and by complications of pregnancy, labor and delivery (P00-P04)	Infections specific to the perinatal period (P35-P39)
Newborn affected by maternal hypertensive disorders (P00.0)	Bacterial sepsis of newborn (P36)
Newborn affected by other maternal conditions which may be unrelated to present pregnancy (P00.1-P00.9)	Omphalitis of newborn with or without mild hemorrhage (P38)
Newborn affected by maternal complications of pregnancy (P01)	All other infections specific to the perinatal period (P35, P37, P39)
Newborn affected by incompetent cervix (P01.0)	Hemorrhagic and hematological disorders of newborn (P50-P61)
Newborn affected by premature rupture of membranes (P01.1)	Neonatal hemorrhage (P50-P52, P54)
Newborn affected by multiple pregnancy (P01.5)	Hemorrhagic disease of newborn (P53)
Newborn affected by other maternal complications of pregnancy (P01.2-P01.4, P01.6-P01.9)	Hemolytic disease of newborn due to isoimmunization and other perinatal jaundice (P55-P59)
Newborn affected by complications of placenta, cord and membranes (P02)	Hematological disorders (P60-P61)
Newborn affected by complications involving placenta (P02.0-P02.3)	Syndrome of infant of a diabetic mother and neonatal diabetes mellitus (P70.0-P70.2)
Newborn affected by complications involving cord (P02.4-P02.6)	Necrotizing enterocolitis of newborn (P77)
Newborn affected by chorioamnionitis (P02.7)	Hydrops fetalis not due to hemolytic disease (P83.2)
Newborn affected by other and unspecified abnormalities of membranes (P02.8-P02.9)	Other perinatal conditions (P29, P70.3-P70.9, P71-P76, P78- P81, P83.0-P83.1, P83.3-P83.9, P90- P96)
Newborn affected by other complications of labor and delivery (P03)	Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)
Newborn affected by noxious influences transmitted via placenta or breast milk (P04)	Anencephaly and similar malformations (Q00)
Disorders related to length of gestation and fetal malnutrition (P05-P08)	Congenital hydrocephalus (Q03)
Slow fetal growth and fetal malnutrition (P05)	Spina bifida (Q05)
Disorders related to short gestation and low birth weight, not elsewhere classified (P07)	Other congenital malformations of nervous system (Q01-Q02, Q04, Q06-Q07)
Extremely low birth weight or extreme immaturity (P07.0, P07.2)	Congenital malformations of heart (Q20-Q24)
Other low birth weight or preterm (P07.1, P07.3)	Other congenital malformations of circulatory system (Q25-Q28)
Disorders related to long gestation and high birth weight (P08)	Congenital malformations of respiratory system (Q30-Q34)
Birth trauma (P10-P15)	Congenital malformations of digestive system (Q35-Q45)
Intrauterine hypoxia and birth asphyxia (P20-P21)	Congenital malformations of genitourinary system (Q50-Q64)
Intrauterine hypoxia (P20)	Congenital malformations and deformations of musculoskeletal system, limbs and integument (Q65-Q85)
Birth asphyxia (P21)	Down's syndrome (Q90)
Respiratory distress of newborn (P22)	Edward's syndrome (Q91.0-Q91.3)
Other respiratory conditions originating in the perinatal period (P23-P28)	Patau's syndrome (Q91.4-Q91.7)
Congenital pneumonia (P23)	Other congenital malformations and deformations (Q10-Q18, Q86-Q89)
Neonatal aspiration syndromes (P24)	Other chromosomal abnormalities, not elsewhere classified (Q92-Q99)
Interstitial emphysema and related conditions originating in the perinatal period (P25)	Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)
Pulmonary hemorrhage originating in the perinatal period (P26)	Sudden infant death syndrome (R95)
Chronic respiratory disease originating in the perinatal period (P27)	Other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R53, R55-R94, and R96-R99)
Atelectasis (P28.0-P28.1)	All other diseases (Residual) (F01-F99, H00-H57, L00-M99)
	External causes of mortality (V01-Y89)

Accidents (V01-X59, Y85-Y86)
 Transport accidents (V01-V99, Y85)
 Motor vehicle accidents (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)
 Other and unspecified transport accidents & their sequelae
 (V01,V05-V06,V09.1,V09.3-V09.9,V10-V11,V15-
 18,V19.3,V19.8-V19.9,V80.0-V80.2,V80.6-V80.9,V81.2-
 V81.9,V82.2-V82.9,V87.9,V88.9,V89.1,V89.3,V89.9,V90-
 V99,Y85)
 Falls (W00-W19)
 Accidental discharge of firearms (W32-W34)
 Accidental drowning and submersion (W65-W74)
 Accidental suffocation and strangulation in bed (W75)
 Other accidental suffocation and strangulation (W76-W77, W81-
 W84)
 Accidental inhalation and ingestion of food or other objects causing
 obstruction of respiratory tract (W78-W80)

Accidents caused by exposure to smoke, fire and flames (X00-
 X09)
 Accidental poisoning and exposure to noxious substances (X40-
 X49)
 Other and unspecified accidents and their sequelae (W20-W31,
 W35-W64, W85-W99, X10-X39, X50-X59, Y86)
 Assault (homicide) (X85-Y09, Y87.1)
 Assault (homicide) by hanging, strangulation and suffocation (X91)
 Assault (homicide) by discharge of firearms (X93-X95)
 Neglect, abandonment and other maltreatment syndromes (Y06-
 Y07)
 Assault (homicide) by other and unspecified means and their
 sequelae (X85-X90,X92,X96-X99,Y00-Y05,Y08-Y09,Y87.1)
 Complications of medical and surgical care (Y40-Y84, Y88)
 Other external causes and their sequelae (X60-X84, Y10-Y36,
 Y87.0, Y87.2, Y89)

Codes Used for Cause of Maternal Death: The complete list of selected causes used by National Center for Health Statistics is shown below:

TOTAL
 (O00-O95, O98-O99, A34)
 Pregnancy with abortive outcome (O00-O07)
 Ectopic pregnancy (O00)
 Spontaneous abortion (O03)
 Medical abortion (O04)
 Other abortion (O05)
 Other and unspecified pregnancy with abortive outcome (O01-
 O02, O06-O07)
 Other direct obstetric deaths (A34, O10-O92)
 Eclampsia and pre-eclampsia (O11, O13-O16)
 Hemorrhage of pregnancy and childbirth and placenta previa (O20,
 O44, O45, O46, O67, and O72)

Complications predominantly related to the puerperium (A34, O85-
 092)
 Obstetrical tetanus (A34)
 Obstetric embolism (O88)
 Other complications predominately related to the Puerperium
 (O85-O87, O89-O92)
 All other direct obstetric causes (O10, O12, O21-O43, O47-O66,
 O68-O71, O73-O75)
 Obstetric death of unspecified cause (O95)
 Indirect obstetric deaths (O98-O99)

DEFINITIONS

The following is a glossary of technical terms used in this report:

AGE-ADJUSTED DEATH RATE: a rate calculated to adjust for differences in the age structure in separate populations. The changes in the age-structure in a population can increase or decrease the likelihood of death in that population. When comparing mortality data from different populations, rates adjusted for differences in age distribution are used because age is the most significant characteristic related to disease and death. Age-adjusted death rates are artificial numbers, designed to be used only for comparisons of different populations. Unlike crude death rates, age-adjusted rates do not measure true rates of death in a population. They should not be compared directly to crude death rates.

AGE-SPECIFIC BIRTH RATE: a measure of the number of live births in a specific age group during a given period. Age-specific rates are calculated by dividing the number of live births occurring in a specified age group during one year by the estimated population of that age group, then multiplying the quotient by 1,000. The rate is expressed as the number of live births per 1,000 population. Age-specific rates make valid comparisons among age groups possible because age-specific rates limit their scope to narrow age ranges, thereby greatly reducing the effect that age might have on comparison of births across age groups.

APGAR SCORE: a composite measure of the physical health of an infant, assessed at one and five minutes after birth, and used to predict the infant's chances of survival. Five easily identifiable characteristics - heart rate, respiratory effort, muscle tone, reflex irritability, and color - are each assessed on a scale of zero to two, with two being optimal. The Apgar score is the sum of these scores; a score of seven or higher (to a maximum of ten) indicates that the infant is in good physical condition.

BIRTH RATE (CRUDE BIRTH RATE): a measure of the number of live births in a population during a given period. Birth rates are calculated by dividing the number of live births occurring in a given population during one year by the estimated population, then multiplying the quotient by 1,000. Rates are expressed as the number of live births per 1,000 population. Birth rates are affected by the number and age distribution of women of childbearing age. Because crude birth rates relate the number of live births to the total population in an area, without regard to the age or sex distribution of the population, they are useful in projecting population changes in the area.

CESAREAN SECTION: the surgical delivery of the newborn while the mother is under general anesthesia. A primary C-section refers to the first delivery by C-section. Cesarean section is usually the result of an abnormal delivery situation, once the mother has already gone into labor. The physician may choose to perform a C-section because the infant is presenting in an abnormal and potentially harmful position, as in breech birth position. Medical emergencies can also require a C-section delivery. Such emergencies include fetal distress and hemorrhaging due to ruptured placenta. A repeat C-section is a Cesarean delivery in which a woman has previously delivered by a C-section. A vaginal birth after C-section is a vaginal delivery to a woman who has previously delivered by C-section.

COMPARABILITY RATIO: Measure of the degree of discontinuity between revisions of the International Classification of Diseases (ICD) for a particular cause of death. Please see the *Death Data* section of these *Technical Notes*, on page 160.

CONGENITAL MALFORMATION: a birth defect including a wide range of major and minor abnormalities that are noted at the time of birth. They can be the result of a wide range of factors including genetic disease, teratogens (drugs or other substances that cause fetal malformation), environmental factors, heredity, and nutrition. However, the causes of many birth defects are unknown.

COVENANT MARRIAGE: a marriage in which the couple agrees to complete premarital counseling from a clergyman of a religious sect or from a marriage counselor. The couple signs a notarized affidavit to the effect that the counselor has discussed with them the commitment to the marriage for life, the obligation to seek marital counseling if problems arise in the marriage, and the exclusive grounds for legal separation or divorce. These grounds include: adultery by the other spouse; commission of a felony by the other spouse and sentence of imprisonment at hard labor or death; abandonment by the other spouse for one year; physical or sexual abuse of a spouse or of a child of either spouse; living separately for two years; habitual intemperance; and cruel or severe ill treatment by the other spouse. The waiting period for divorce after legal separation is one year and six months if there is a minor in the family, and one year in all other cases.

DEATH RATE (CRUDE DEATH RATE): a measure of the number of deaths in a population during a given period. Death rates are calculated by dividing the number of deaths occurring in a given population during one year by the estimated population, then multiplying the quotient by 100,000. The rate is expressed as the number of deaths per 100,000 population. Crude death rates are useful for examining actual mortality in a geographic area or population because they describe the rate at which deaths occur in the total population, without regard to sub-population differences in factors (such as age) that influence death. Caution must be used when comparing crude rates from different populations, because crude rates can be affected by differences in the composition of the two populations. For example, areas that attract retirees usually have higher crude death rates than areas with large numbers of young families. See *AGE-ADJUSTED DEATH RATE*.

DIVORCE RATE: a measure of divorces occurring in a population during a given period. Divorce rates are calculated by dividing the number of divorces occurring in a given population during one year by the estimated population, then multiplying the quotient by 1,000. The rate is expressed as the number of divorces per 1,000 population.

EARLY ABORTION: an abortion that is performed at or before 8 weeks gestation.

FERTILITY RATE: a rate that relates the total number of births (to women of all ages) in a population to the number of women most likely to bear children – those aged 15 through 44 years. The fertility rate is calculated by dividing the total number of live births occurring in a given population during one year by the estimated population of women aged 15 through 44 years, then multiplying the quotient by 1,000. The rate is expressed as the number of live births per 1,000 women aged 15 through 44 years. Fertility rates are useful for comparisons of fertility among age, race, and socioeconomic groups.

FETAL DEATH: death prior to the complete expulsion or extraction from its mother of a product of human conception that, after such expulsion or extraction, never breathes or shows any other evidence of life. (The term "fetal death" was defined on an all-inclusive basis to end confusion arising from use of such terms as stillbirth, abortion, and miscarriage.)

FETAL MORTALITY RATE: a measure of fetal deaths occurring in a population during a given period. Fetal mortality rates are calculated by dividing the number of fetal deaths in a given population during a given time period by the number of live births

plus fetal deaths occurring in the population during the same time period, then multiplying the quotient by 1,000. Fetal mortality rates are expressed as the number of fetal deaths per 1,000 live births plus fetal deaths.

FIRST BIRTH RATE: a measure of the number of first births, to mothers in a particular age group, during a given period. First birth rates are calculated by dividing the number of first births to mothers in a particular age group during one year by the total female population in that age group, then multiplying the quotient by 1,000. The rates are expressed as the number of births per 1,000 women in that age group. First birth rates are helpful in assessing changes over time in the age at which women begin bearing children.

GESTATIONAL AGE (Live Birth data): the interval between the first day of the mother's last normal menstrual period and the date of birth. Physicians use several different methods to estimate gestational age, including computing the interval between the first day of the mother's last normal menstrual period (LMP) and the date of birth, or determining a clinical estimate based on examination of the newborn. Standardized methods of measurement for determination of gestational age are difficult, especially among at-risk pregnancies in which minimal or no prenatal ascertainment are made. Louisiana Birth Certificates record both the "Date Last Normal Menses Began" and the "Clinical Estimate of Gestation." LMP is subject to error from imperfect maternal recall or misidentification of the last normal menstrual period because of post-conception bleeding, delayed ovulation, or intervening early miscarriage. Therefore, the physician's clinical estimate of gestation is used to determine gestational age in this report.

GESTATIONAL AGE (Fetal Death data): the interval between the first day of the mother's last normal menstrual period and the date of delivery. Prior to 1995, "Clinical Estimate of Gestation" was not recorded on Louisiana's Fetal Death Certificate. Consequently, gestational ages reported for years prior to 1995 were calculated by subtracting the "Date Last Normal Menses Began" from the "Date of Delivery," as recorded on the Fetal Death Certificate. Beginning with the *1997 Louisiana Vital Statistics Report*, gestational ages for fetal deaths occurring in or after 1995 are reported based upon the National Center for Health Statistics formula for calculation of gestational age for fetal deaths. This formula calculates gestational age by combining information collected in the "Date Last Normal Menses Began" and "Clinical Estimate of Gestation" sections of the Fetal Death Certificate.

HEBDOMADAL DEATH: a representation of deaths occurring to infants under 7 days of age. See *PERINATAL MORTALITY*.

HEBDOMADAL MORTALITY RATE: a measure of deaths to infants under 7 days of age during a given period. Hebdomadal mortality rates are calculated by dividing the number of deaths to infants under 7 days of age occurring in a given population during one year by the number of live births occurring during that year, then multiplying the quotient by 1,000. The rate is expressed as the number of deaths to infants under age 7 days, per 1,000 live births.

ICD-10: the tenth revision of the International Statistical Classification of Diseases, Injuries, and Causes of Death. Please see the *Death Data* section of these *Technical Notes*.

INDUCED TERMINATION OF PREGNANCY (INDUCED ABORTION): the purposeful interruption of pregnancy with intention other than to produce a live infant or to remove a dead fetus, in which the intervention does not result in a live birth.

INFANT MORTALITY: a representation of deaths occurring in the first year of life. Most infant deaths are preventable. The risk of infant death is increased by giving birth at a very young age (<19 years) or older age (>40 years), leaving less than 2 years between births, or giving birth under conditions of poor maternal health or poor nutrition. Chemical toxins such as alcohol, drugs, and tobacco smoke also increase the risk. Most of these factors are associated with low birthweight. A newborn might be low birthweight because he/she has been compromised by one of the factors noted above or simply because he/she was born too soon ("prematurely"). After the first month of life, poor infant nutrition, poor hygiene, and infectious disease all increase the risk of infant mortality.

INFANT MORTALITY RATE: a measure of deaths to infants under 1 year of age during a given period. Infant mortality rates are calculated by dividing the number of deaths to infants under 1 year of age occurring in a given population during one year by the number of live births occurring during that year, then multiplying the quotient by 1,000. The rate is expressed as the number of infant deaths per 1,000 live births.

LATE ABORTION: an abortion that is performed at or after 16 weeks gestation.

LIVE BIRTH: a product of conception that shows any sign of life after delivery, irrespective of the duration of pregnancy. Sign of life is considered the breathing or showing any other evidence of life, such as beating of the heart, pulsation of the umbilical cord, or the definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached.

LOW BIRTHWEIGHT: a live birth weighing less than 2,500 grams (approximately 5 pounds 8 ounces). The percentage of low birthweight is the number of these births in a population during a given time interval divided by the total number of live births reported in that population during the same time interval. Low birthweight usually results from a shortened gestational period, which often is linked to preventable factors such as lack of prenatal care, maternal smoking, use of alcohol and other drugs, and pregnancy before the age of 18 years. Other risk factors for low birthweight include low socioeconomic level, low maternal weight gain, low pregnancy weight, first births, female sex, short maternal stature, prior low birthweight births, maternal illness, fetal infection, and a variety of metabolic and genetic disorders. Low birthweight infants are more likely than normal weight infants to have brain damage, lung and liver disease, subnormal growth, developmental problems, mild learning disorders, attention disorders, and developmental impairments. See *VERY LOW BIRTHWEIGHT*.

MALE/FEMALE BIRTH RATIO: a measure of the number of males born for every thousand females born in a given time period. For example, a ratio of 1.036 means 1,036 males were born for every 1000 females born during a given time period.

MARRIAGE RATE: a measure of marriages occurring in a population during a given period. Marriage rates are calculated by dividing the number of marriages occurring in a given population during one year by the estimated population, then multiplying the quotient by 1,000. The rate is expressed as the number of marriages per 1,000 population. The marriage rate would be more representative of resident marriages if it were calculated using the number of marriages to *residents* of an area, rather than the number of marriages *occurring* in an area. Marriage counts by residence of bride and groom are difficult to quantify, however, because couples often choose to obtain marriage licenses and/or to marry outside of their residence areas.

MATERNAL MORTALITY: a representation of deaths of women due to complications of pregnancy and childbirth. Maternal mortality rates are calculated by dividing the number of maternal deaths in a given time period by the number of live births in that same time period, then multiplying the quotient by 100,000. Because maternal deaths occur infrequently, they are expressed as

deaths per 100,000 live births. Ideally, the rate should be calculated by dividing the number of deaths by the number of all pregnancies even those that do not result in a live birth. However, no system exists for gathering accurate and complete information regarding miscarriages and abortions; as an alternative, the number of live births is used as an estimate of the number of pregnancies. These deaths may be related to previously existing maternal health problems, or they can occur from acute conditions arising during pregnancy, labor, delivery, and the period thereafter. Studies indicate that some maternal deaths caused by violence sustained as a result of pregnancy are not coded as pregnancy-related deaths.² Misidentification of cause of death is thought to result in under-reporting of maternal deaths.

MODIFIED KESSNER INDEX: the method used in Louisiana to measure adequacy of prenatal care. This index defines prenatal care as adequate if the first prenatal visit occurred in the first trimester of pregnancy, and if the total number of visits was appropriate to the gestational age of the baby at birth. However, because these measures assess neither the quality nor the content of prenatal care, they must be recognized only as estimates of the adequacy of prenatal care. For details of the modified Kessner Index, please refer to the *Birth Data* section of these *Technical Notes*, on page 153.

MORTALITY: a representation of the incidence of death. In Louisiana, as in the nation, most deaths result from a few major causes, such as heart disease, cancer, and stroke. Many people have the genetic potential to live to age 85 years, and some have the potential to live well beyond that age. Despite this potential, the average age at death in the United States is between 65 and 79 years. Many of the leading causes of death for people between the ages of 25 and 65 are preventable, wholly or in part, through changes in lifestyle. Cause-of-death data are readily available from death certificates, and this information can be used to identify areas where behavioral changes may be most effective in increasing length of life. Leading causes of death such as heart disease, cancer, unintentional injuries, stroke, and liver disease all have been associated with risk factors related to lifestyle.

NEONATAL MORTALITY: a representation of infant deaths occurring during the first 28 days of life. Deaths during this period are generally due to hereditary factors and factors affecting the mother before and during pregnancy. Three-quarters of these deaths are associated with low birthweight. The distinction between neonatal and postneonatal mortality has been blurred in recent years, because of increased survival of premature infants due to advances in neonatology.

NEONATAL MORTALITY RATE: a measure of deaths occurring among infants under 28 days of age during a given period. Neonatal mortality rates are calculated by dividing the number of deaths occurring to infants under 28 days of age in a given population during one year by the number of live births occurring during that year, then multiplying the quotient by 1,000. The rate is expressed as the number of deaths to infants under age 28 days, per 1,000 live births.

PERINATAL MORTALITY: a representation of deaths of unborn fetuses after 20 weeks of gestation (stillbirths) and deaths within 7 days of birth. Perinatal mortality is influenced by conditions that affect the mother before and during pregnancy, and by health problems (e.g., genetic, chromosomal, infectious and so on) that affect the infant.

PERINATAL MORTALITY RATE: a measure of stillbirths (fetal deaths) plus deaths to infants under 7 days of age during a given period. Perinatal mortality rates are calculated by dividing the number of fetal deaths plus deaths to infants under 7 days

² McFarlane J, Campbell JC, Sharps P, Watson K. "Abuse during pregnancy and femicide: urgent implications for women's health" *Obstetrics and Gynecology* 100:1 (July 2002); 27-36.

of age occurring in a given population during one year by the number of stillbirths plus live births occurring during that year, then multiplying the quotient by 1,000. The rate is expressed as the number of fetal deaths plus deaths to infants under age 7 days, per 1,000 stillbirths plus live births.

POSTNEONATAL MORTALITY: a representation of deaths occurring to infants aged 28 days through 364 days. Postneonatal mortality is influenced by environmental factors, such as nutrition, hygiene, and accidents. Advances in neonatology have blurred the distinction between neonatal and postneonatal mortality, given the improved survival rate of premature infants.

POSTNEONATAL MORTALITY RATE: a measure of deaths occurring among infants aged 28 days through 364 days during a given period. Postneonatal mortality rates are calculated by dividing the number of deaths occurring to infants aged 28 days through 364 days in a given population during one year by the number of live births occurring during that year, then multiplying the quotient by 1,000. The rate is expressed as the number of deaths to infants aged 28 days through 364 days, per 1,000 live births.

PRENATAL CARE: health care, counseling, and related services provided during pregnancy to assure the best possible health for both mother and child. Care should start in the first trimester and continue throughout pregnancy. One major focus of such care is screening/monitoring to identify conditions that might threaten the mother or the child. A second major focus is counseling and guidance relative to diet, alcohol, tobacco, and other health concerns. Other services, for those who qualify, are social and financial counseling, WIC, and Medicaid.

PRE-TEEN BIRTH: a birth to a woman younger than 13 years old.

RATE: a measure used to make comparisons among different groups. A rate is the number of specific health events in a given time period divided by the average population during that same period, then multiplied by a number such as 1,000 or 100,000 to facilitate comparison between different populations. Multiplying by 100 results in a percentage of events per time period, which is an expression of the number of people out of 100 who experienced the event during the period. Most rates, however, are given as the number out of 1,000 or 100,000, because when rates are based on very small numbers, it is easier to understand the numbers and to compare the rates this way. Rates can be used to measure changes in the occurrence of health events between different time periods and geographical areas etc.

RESIDENCE: defined as that of the deceased for a death and as that of the mother for a birth or stillbirth. Births and deaths occurring in institutions in Louisiana are reallocated to the place of previous residence, regardless of length of stay in the institution. All tables in this publication refer to resident events except as noted.

RACE: the category that is shown on the certificate. Tables that include race classification are tabulated by white, black, and other, where other includes all races not white or black. Beginning in 1989, birth data are presented by race of mother rather than inferred race of child.

SPONTANEOUS FETAL DEATH: a fetal death that is not an induced termination of pregnancy. Spontaneous fetal deaths of 20 weeks or more duration of pregnancy, or with a weight of 350 grams or more, must be reported on a Fetal Death (Stillbirth) certificate. For details of the Louisiana and National Center for Health Statistics definitions of fetal death, please refer to the *Spontaneous Fetal Death Data* section of these *Technical Notes*, on page 157.

TEEN BIRTH: a birth to a woman aged 13 to 19 years. See *PRE-TEEN BIRTH*.

UNDERLYING CAUSE OF DEATH: the disease or injury that initiated the sequence of events leading to death. Please see the *Death Data* section of these *Technical Notes*, on page 160.

VERY LOW BIRTHWEIGHT: a live birth weighing less than 1,500 grams (approximately 3 pounds 5 ounces). The percent very low birthweight is the number of these births in a population during a given time interval, divided by the total number of live births with known birthweight reported in that population during the same time interval. Very low birthweight infants are at greater risk of mortality and long-term disability than higher weight infants. See *LOW BIRTHWEIGHT*.

CALCULATION OF RATES AND RATIOS*

BIRTH RATE =	$\frac{\text{number of live births}}{\text{estimated population}}$	X	1,000
FERTILITY RATE =	$\frac{\text{number of live births}}{\text{estimated female population 15 - 44 years old}}$	X	1,000
AGE-SPECIFIC FERTILITY RATE =	$\frac{\text{number of live births to women in specific age group}}{\text{estimated female population in that specific age group}}$	X	1,000
TOTAL FERTILITY RATE** =	sum of the age specific fertility rates (in 5-year age groups) multiplied by 5		
FETAL DEATH RATES =	$\frac{\text{number of reportable fetal deaths}}{\text{number of live births + fetal deaths}}$	X	1,000 (or 100,000, as specified)
DEATH RATE =	$\frac{\text{number of deaths}}{\text{estimated population}}$	X	1,000 (or 100,000, as specified)
AGE-SPECIFIC DEATH RATE =	$\frac{\text{number of deaths in specific age group}}{\text{estimated population in that specific age group}}$	X	1,000 (or 100,000, as specified)

*All rates and ratios in this report are per calendar year.

**If divided by 1,000, the total fertility rate approximates the completed family size per woman. This assumes that throughout their reproductive period, women will experience the same age specific birthrates observed in the childbearing population in the current year.

AGE-ADJUSTED DEATH RATE= (Direct Method)	total number of expected deaths in a standard population (if the persons in this population had experienced the same age specific death rates as population being adjusted) ----- total standard population	1,000 X <i>(or 100,000, as specified)</i>
INFANT MORTALITY RATE=	number of deaths under 1 year of age ----- total number of live births	1,000 X <i>(or 100,000, as specified)</i>
HEBDOMADAL MORTALITY RATE=	number of deaths under 7 days of age ----- total number of live births	X 1,000
NEONATAL MORTALITY RATE=	number of deaths under 28 days old ----- total number of live births	X 1,000
PERINATAL MORTALITY RATE=	fetal deaths + deaths under 7 days old ----- total number of live births + fetal deaths	X 1,000
MATERNAL MORTALITY RATE***=	number of deaths due to Complications of Pregnancy, Childbirth, and Puerperium ----- total number of live births	X 100,000

***In reports prior to 1972 the Maternal Death rate was expressed "per 10,000 live births".

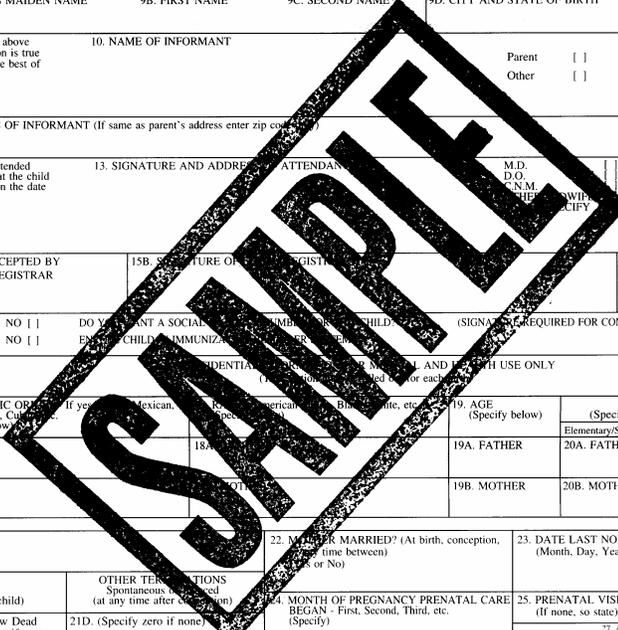


IMPORTANT: Black Ink or Typewriter Ribbon Mandatory by State Law

CERTIFICATE OF LIVE BIRTH STATE OF LOUISIANA BIRTH NO. 117

C 1216032

Form with sections: THIS CHILD, PLACE OF BIRTH, USUAL RESIDENCE OF MOTHER, FATHER OF CHILD, MOTHER OF CHILD, INFORMANT'S CERTIFICATION, ATTENDANT'S CERTIFICATION, REGISTRAR'S CERTIFICATION, SSN IMMUNIZATIONS, 17-20 OF HISPANIC ORIGIN, 21. PREGNANCY HISTORY, 22. MOTHER MARRIED?, 23. DATE LAST NORMAL MENSES BEGAN, 24. MONTH OF PREGNANCY PRENATAL CARE, 25. PRENATAL VISITS, 26. CLINICAL ESTIMATE OF GESTATION, 27. APGAR SCORE, 28. MOTHER TRANSFERRED PRIOR TO DELIVERY, 28B. INFANT TRANSFERRED?, 29. DID CHILD DIE IN FACILITY?, 30A. MEDICAL RISK FACTORS FOR THIS PREGNANCY, 30B. OTHER RISK FACTORS FOR THIS PREGNANCY, 31. OBSTETRIC AND PEDIATRIC PROCEDURES, 32. COMPLICATIONS OF LABOR AND/OR DELIVERY, 33. METHOD OF DELIVERY, 34. ABNORMAL CONDITIONS OF THE NEWBORN, 35. CONGENITAL ANOMALIES OF CHILD, 36A. MOTHER'S SOCIAL SECURITY NUMBER, 36B. FATHER'S SOCIAL SECURITY NUMBER.



PHS 19C (Rev. 12/00)

C 1216032

* IF YOU CHECK "YES," DISCLOSURE OF PARENTAL SOCIAL SECURITY NUMBERS IS REQUIRED BY 42 USC 405(C)(2) AS AMENDED BY SECTION 1090(B) OF PUBLIC LAW 105-34. THE INFORMATION WILL BE USED BY THE INTERNAL REVENUE SERVICE SOLELY FOR THE PURPOSE OF DETERMINING EARNED INCOME TAX CREDIT COMPLIANCE.

IMPORTANT: PRINT or TYPE, black ink or ribbon mandatory

793086

STATE OF LOUISIANA CERTIFICATE OF DEATH

BIRTH No.

FILE No. 117

Name of decedent: for use by physician or institution

Form with sections: DECEDENT, PLACE OF DEATH, RESIDENCE, PARENTS, INFORMANT, DISPOSITION, REGISTRAR, MANNER OF DEATH, CERTIFIER, CAUSE OF DEATH. Includes fields for name, date of death, birth, sex, race, marital status, education, and cause of death.

PHS 16 - (REV. 01/93)

OFFICE OF PUBLIC HEALTH - VITAL RECORDS REGISTRY

IMPORTANT: Black Ink or Typewriter Ribbon Mandatory By State Law

STATE OF LOUISIANA CERTIFICATE OF FETAL DEATH (STILLBIRTH) STATE FILE NO. 117

Form with sections: PARENTS, MOTHER, FATHER, CERTIFICATIONS, CAUSE OF FETAL DEATH, MEDICAL AND HEALTH INFORMATION. Includes fields for name, date, location, and medical history.

024597

024597

PHS 6 (R 6/94) DHH, Office of Public Health, Division of Records and Statistics

STATE OF LOUISIANA
CERTIFICATE OF MARRIAGE

STATE FILE NO. **117**

LICENSE NO. _____

GROOM	1A. LAST NAME OF GROOM		1B. FIRST NAME		1C. SECOND NAME	
	2. USUAL RESIDENCE - CITY, TOWN, OR LOCATION			3. IS RESIDENCE INSIDE CITY LIMITS? YES [] NO []	4. PARISH/COUNTY	5. STATE
	6. RACE	7. DATE OF BIRTH (Month-Day-Year)	8. STATE OF BIRTH (If not in U.S.A., Name Country)			
BRIDE	9. FATHER - NAME		10. STATE OF BIRTH (If not in U.S.A., Name Country)	11. MOTHER - MAIDEN NAME		12. STATE OF BIRTH (If not in U.S.A., Name Country)
	13A. LAST NAME OF BRIDE		13B. FIRST NAME		13C. SECOND NAME	
	14. USUAL RESIDENCE - CITY, TOWN, OR LOCATION			15. IS RESIDENCE INSIDE CITY LIMITS? YES [] NO []	16. PARISH/COUNTY	17. STATE
COVENANT MARRIAGES	18. RACE					
	19. DATE OF BIRTH (Month-Day-Year)		20. STATE OF BIRTH (If not in U.S.A., Name Country)			
	21. FATHER - NAME		22. STATE OF BIRTH (If not in U.S.A., Name Country)	23. MOTHER - MAIDEN NAME		24. STATE OF BIRTH (If not in U.S.A., Name Country)
SIGNATURE	24A. Covenant Marriages [] no [] (Yes, complying with following statement.) We, _____ do hereby declare our intent to contract a Covenant Marriage and, therefore, have executed a declaration of intent as stated hereto.					
	I/WE HEREBY CERTIFY THAT THE ABOVE INFORMATION IS CORRECT TO THE BEST OF MY/OUR KNOWLEDGE AND BELIEF AND IS TRUE AND CORRECT UNDER THE LAWS OF THE STATE.					
	25. GROOM'S SIGNATURE			26. BRIDE'S SIGNATURE		
LICENSE TO MARRY	This License Authorizes the Marriage of the Parties whose names are stated hereon to be performed by the Person Duly Authorized to Perform a Marriage Under the Laws of the State of Louisiana					EXPIRATION DATE (Month, Day, Year and Time)
	28. SUBSCRIBED TO AND AFFIRMED TO BEFORE ME ON (Month, Day, Year)			29. SIGNATURE OF ISSUING OFFICIAL		30. TITLE OF ISSUING OFFICIAL
	By: _____			31. PARISH		
CEREMONY	32. CITY OR TOWN		33. TIME OF ISSUE			
	34. I CERTIFY THAT THE ABOVE NAMED PARTIES WERE MARRIED ON: (Month, Day, Year)		35. WHERE MARRIED - CITY, TOWN, OR LOCATION		36. PARISH	
	at _____ M		37. SIGNATURE OF PERSON PERFORMING CEREMONY		38. NAME (Type/Print)	
RECORDING OFFICIAL	39. TITLE				40. ADDRESS OF PERSON PERFORMING CEREMONY (Street and Number or Rural Route Number, City or Town, State, Zip Code)	
	41A. GROOM'S SIGNATURE			41B. BRIDE'S SIGNATURE		
	42A. SIGNATURE OF WITNESS TO CEREMONY			42B. SIGNATURE OF WITNESS TO CEREMONY		
SSNS	43. SIGNATURE OF LOCAL RECORDING OFFICIAL			44. DATE FILED (Month, Day, Year)		
	052215					
	NO. OF THIS MARRIAGE		IF PREVIOUSLY MARRIED		DATE	
GROOM	1st, 2nd, etc. (Specify)		Last Marriage Ended by - Death, Divorce, or Annulment (Specify)		Month Year	
				EDUCATION - CIRCLE HIGHEST GRADE COMPLETED		
				Elementary 0, 1, 2, 3, 4, . . . or 8	High School 1, 2, 3, or 4	College 1, 2, 3, 4, or 5
BRIDE	NO. OF THIS MARRIAGE		IF PREVIOUSLY MARRIED		DATE	
	1st, 2nd, etc. (Specify)		Last Marriage Ended by - Death, Divorce, or Annulment (Specify)		Month Year	
				EDUCATION - CIRCLE HIGHEST GRADE COMPLETED		
				Elementary 0, 1, 2, 3, 4, . . . or 8	High School 1, 2, 3, or 4	College 1, 2, 3, 4, or 5
Consanguineous or Adoptive Relationship						
Groom's Social Security Number			Bride's Social Security Number			

TYPE/PRINT IN
PERMANENT BLACK INK

FOR INSTRUCTIONS
SEE HANDBOOK

**STATE OF LOUISIANA
CERTIFICATE OF DIVORCE, DISSOLUTION OF MARRIAGE, OR ANNULMENT**

COURT FILE NUMBER

STATE FILE NUMBER

HUSBAND

1a. HUSBAND'S LAST NAME		1b. FIRST NAME		1c. MIDDLE INITIAL		1d. SOCIAL SECURITY NUMBER	
2a. RESIDENCE-CITY, TOWN, OR LOCATION				2b. PARISH/COUNTY			
2c. STATE		3. BIRTHPLACE (STATE OR FOREIGN COUNTRY)		4. DATE OF BIRTH (MONTH, DAY, YEAR)			

WIFE

5a. WIFE'S MAIDEN NAME		5b. FIRST NAME		5c. MIDDLE INITIAL		5d. SOCIAL SECURITY NUMBER	
6a. RESIDENCE-CITY, TOWN OR LOCATION				6b. PARISH/COUNTY			
6c. STATE		7. BIRTHPLACE (STATE OR FOREIGN COUNTRY)		8. DATE OF BIRTH (MONTH, DAY, YEAR)			

MARRIAGE

9a. PLACE OF THIS MARRIAGE-CITY, TOWN OR LOCATION		9b. PARISH/COUNTY		9c. STATE OR FOREIGN COUNTRY			
10. DATE OF THIS MARRIAGE (MONTH, DAY, YEAR)		11. DATE OF THE LAST RESIDENCE OF THE MARRIAGE PARTNER UNDER 18 IN THE HOUSEHOLD AS OF THE DATE IN ITEM 11		<input type="checkbox"/> HUSBAND <input type="checkbox"/> WIFE <input type="checkbox"/> BOTH <input type="checkbox"/> NONE <input type="checkbox"/> OTHER (SPECIFY)			

ATTORNEY

14a. NAME OF ATTORNEY'S FIRM		14b. ADDRESS (STREET NUMBER OR RURAL ROUTE #, CITY, TOWN, STATE, ZIP CODE)					
------------------------------	--	----------------------------------------------------------------------------	--	--	--	--	--

DECREE

15. I CERTIFY THAT THE MARRIAGE OF THE NAMED PERSONS WAS DISSOLVED (MONTH, DAY, YEAR)		15a. TYPE OF DECREE-DIVORCE, DISSOLUTION OF MARRIAGE, ANNULMENT (SPECIFY)		16b. DECREE GRANTED TO			
17. DATE RECORDED (MONTH, DAY, YEAR)		18. NUMBER OF CHILDREN UNDER 18 WHOSE PHYSICAL CUSTODY WAS AWARDED TO: HUSBAND _____ WIFE _____ JOINT _____ NO CHILDREN <input type="checkbox"/> OTHER (SPECIFY) _____					
19. PARISH OF DECREE		20. TITLE OF DECREE					
21. SIGNATURE OF CERTIFYING OFFICIAL				22. DATE SIGNED (MONTH, DAY, YEAR)			
23. TITLE OF CERTIFYING OFFICIAL				24. DATE FILED BY STATE REGISTRAR			

CONFIDENTIAL INFORMATION. THE INFORMATION BELOW WILL NOT APPEAR ON CERTIFIED COPIES OF THE RECORD.

HUSBAND

WIFE

25. NUMBER OF THIS MARRIAGE, FIRST, SECOND, ETC. (SPECIFY)	26. IF PREVIOUSLY MARRIED, LAST MARRIAGE ENDED		27. RACE-AMERICAN INDIAN, BLACK, WHITE, ETC. (SPECIFY BELOW)	28. EDUCATION (SPECIFY ONLY HIGHEST GRADE COMPLETED)	
	BY DEATH, DISSOLUTION OF MARRIAGE, DIVORCE, OR ANNULMENT (SPECIFY)	DATE (MONTH, DAY, YEAR)		ELEMENTARY/ SECONDARY (0-12)	COLLEGE (1-4 OR 5+)
25a. HUSBAND	26a.	26b.	27a.	28a.	
25b. WIFE	26c.	26d.	27b.	28b.	

PHS 30 (REV. 9/96)

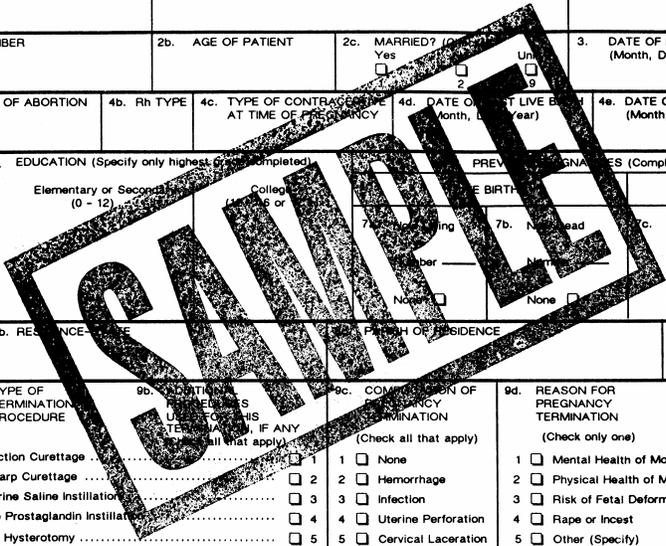
**REPORT OF INDUCED TERMINATION OF PREGNANCY
PERFORMED IN LOUISIANA**

IMPORTANT:
Type or print in
permanent black ink.

NOTE: Failure to complete and file this form is a crime (see LSA-R.S. 40:66
and 40:1299.35.10) and is punishable by fine and/or imprisonment.

Certificate No. _____

FACILITY	1a. FACILITY-NAME (If not hospital or clinic, give address)		1b. CITY, TOWN OR LOCATION OF PREGNANCY TERMINATION		1c. PARISH OF PREGNANCY TERMINATION	
	2a. PATIENT IDENTIFICATION NUMBER		2b. AGE OF PATIENT		2c. MARRIED? () Yes <input type="checkbox"/> No <input type="checkbox"/> Unk. <input type="checkbox"/> 1 2 9	
PATIENT INFORMATION	4a. MEDICAL CONDITION AT TIME OF ABORTION		4b. Rh TYPE		4c. TYPE OF CONTRACEPTION AT TIME OF PREGNANCY	
	4d. DATE OF NEXT LIVE BIRTH (Month, Day, Year)		4e. DATE OF LAST PREVIOUS TERMINATION (Month, Day, Year)			
	5. RACE (Check) <input type="checkbox"/> White <input type="checkbox"/> Black <input type="checkbox"/> American Indian <input type="checkbox"/> Other, (Specify) _____		6. EDUCATION (Specify only highest grade completed) Elementary or Secondary (0 - 12) _____ College (13 or _____) _____		7. PREVIOUS BIRTHS (Complete each section) 7a. Living _____ 7b. Non-living _____ Number _____ Number _____ None <input type="checkbox"/> None <input type="checkbox"/>	
	8a. FATHER'S AGE		8b. RESIDENCE _____		8c. PARISH OF RESIDENCE _____	
INFORMATION ON FATHER (of Fetus)	8d. FATHER MARRIED? Yes <input type="checkbox"/> No <input type="checkbox"/> Unk. <input type="checkbox"/> 1 2 9					
TERMINATION PROCEDURE, COMPLICATIONS, REASON FOR TERMINATION, POST ABORTION PRODEDURE	9a. PROCEDURE THAT TERMINATED PREGNANCY (Check only one) 1 <input type="checkbox"/> Suction Curettage 2 <input type="checkbox"/> Sharp Curettage 3 <input type="checkbox"/> Intra-Uterine Saline Instillation 4 <input type="checkbox"/> Intra-Uterine Prostaglandin Instillation 5 <input type="checkbox"/> Hysterotomy 6 <input type="checkbox"/> Hysterectomy 7 <input type="checkbox"/> Dilatation and Evacuation 8 <input type="checkbox"/> Other (Specify) _____		9b. MEDICATIONS USED FOR THIS TERMINATION, IF ANY (Check all that apply) 1 <input type="checkbox"/> _____ 2 <input type="checkbox"/> _____ 3 <input type="checkbox"/> _____ 4 <input type="checkbox"/> _____ 5 <input type="checkbox"/> _____ 6 <input type="checkbox"/> _____ 7 <input type="checkbox"/> _____ 8 <input type="checkbox"/> _____		9c. COMPLICATIONS OF PREGNANCY TERMINATION (Check all that apply) 1 <input type="checkbox"/> None 2 <input type="checkbox"/> Hemorrhage 3 <input type="checkbox"/> Infection 4 <input type="checkbox"/> Uterine Perforation 5 <input type="checkbox"/> Cervical Laceration 6 <input type="checkbox"/> Retained Products 7 <input type="checkbox"/> Other (Specify) _____	
	9d. REASON FOR PREGNANCY TERMINATION (Check only one) 1 <input type="checkbox"/> Mental Health of Mother 2 <input type="checkbox"/> Physical Health of Mother 3 <input type="checkbox"/> Risk of Fetal Deformity 4 <input type="checkbox"/> Rape or Incest 5 <input type="checkbox"/> Other (Specify) _____ 9 <input type="checkbox"/> Unknown		9e. TYPE OF PROCEDURE DONE AFTER ABORTION (Check only one) 1 <input type="checkbox"/> Tubal Ligation 2 <input type="checkbox"/> Hysterectomy 3 <input type="checkbox"/> Other (Specify) _____ 4 <input type="checkbox"/> NONE			
FETAL INFORMATION	10a. DATE LAST NORMAL MENSES BEGAN (Month, Day, Year)		10b. PHYSICIAN'S ESTIMATE OF GESTATION Weeks _____		10c. FETAL LENGTH CM _____	
	10d. FETAL WEIGHT Grams _____		10e. OTHER SIGNIFICANT CONDITIONS OF FETUS		10f. TYPE OF POST ABORTION PROCEDURE	
PHYSICIAN	10g. RESULT OF PATHOLOGICAL EXAMINATION		11a. TYPE OF FAMILY PLANNING RECOMMENDED TO PATIENT		11b. TYPE OF ADDITIONAL COUNSELING GIVEN TO PATIENT	
	11c. SIGNATURE OF PHYSICIAN ADDRESS OF PHYSICIAN _____		11d. PHYSICIAN'S LICENSE No. _____			



PHS 16-ab (Rev. 1/90) DHH, OFFICE OF PUBLIC HEALTH, VITAL RECORDS REGISTRY

IMPORTANT: This report and accompanying certificates and consent forms required by LSA-R.S. 40:1299.35.10(25) must be submitted to the Vital Records Registry within 15 days of the abortion. Please staple/attach documents to the back of this form.

AVAILABILITY OF ADDITIONAL INFORMATION

The statistical information published in this report is limited to that which is considered to be most commonly used, based on national reporting guidelines and on requests for information received by the Vital Records Registry and the State Center for Health Statistics.

Request for additional data may be addressed to:

**STATE CENTER FOR HEALTH STATISTICS
P.O. BOX 60630
NEW ORLEANS, LA 70160**

**Phone: (504) 219-4515
FAX: (504) 838-5206
E-mail address: schswweb@dhh.la.gov**

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