

**2009**

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# Wisconsin Births and Infant Deaths



Wisconsin Department of Health Services  
Division of Public Health  
Office of Health Informatics



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**May 2011**

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## Foreword

The Department of Health Services is mandated by section 69.03 (9), Wisconsin Statutes, to prepare an annual report on vital statistics. This report summarizes data collected from the confidential portion of the birth record and related infant death information compiled from resident death certificates.

The Department of Health Services produced this publication, which was prepared in the Office of Health Informatics (formerly the Bureau of Health Information and Policy), Division of Public Health.

In the Office of Health Informatics, staff of the Vital Records Section, Registration and Statistics Unit, collected and compiled the birth, infant death, and fetal death records. Laura Ninneman prepared the report and updated the narrative. Patricia Nametz edited the report. Draft review and comments were provided by Murray L. Katcher, M.D., Ph.D., Bureau of Community Health Promotion, Division of Public Health. The report was prepared under the supervision of John Kiesow, State Registrar, Vital Records Section, and Jane Kraus, Supervisor, Registration and Statistics Unit.

Additional health-related statistical information for Wisconsin is available through the Internet on the Department of Health Services Web site, at <http://dhs.wisconsin.gov/stats/>. Wisconsin Interactive Statistics on Health (WISH) is a data query system that allows users to obtain birth and other data tailored to their specifications, at <http://dhs.wisconsin.gov/wish/>.

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## Introduction

This report presents information about births that occurred in 2009 to Wisconsin residents. Information from previous years is also presented to show changes over time. Information is included on the number and rate of live births; demographic characteristics of the mother, such as age, race/ethnicity, marital status, education and number of previous births; characteristics of the pregnancy and delivery, including the trimester that prenatal care began, number of visits, and whether the mother smoked during pregnancy; and characteristics of the newborn. Also included is information about infants who died before their first birthday, and fetuses of more than 20 weeks of gestation who were stillborn.

All data in this report refer to Wisconsin residents unless otherwise noted. In most tables, events have been assigned to the place where the person lives (usually legal residence), regardless of the place of the event. For births, the reference is to the residence of the mother. For deaths, the reference is to the residence of the infant.

The indicators included in this report have been selected based on their availability from birth and infant death records and their use in identifying health risks, as determined by national and international studies. The data files used are the Wisconsin resident birth certificate file, the matched birth-death file, and the fetal death file. The tables and graphics presented were designed to make these indicators easily accessible, while allowing users flexibility. Most tables include the frequencies of events or conditions, along with percentages or rates. In general, bar graphs show data for 2009 (and comparative information for 1999); line graphs show time trends, and vary in the years shown for comparison.

Chapter 69 of the Wisconsin Statutes mandates the Department of Health Services to supervise and direct the collection of birth data from hospitals and birth attendants. State law also requires the Department to protect the confidentiality of birth data, and to ensure that statistical information based on the data (such as that contained in this report) does not identify any individual. The Office of Health Informatics in the Department of Health Services scrupulously follows written procedures to protect the confidential data entrusted to it.

The National Center for Health Statistics works with representatives of all 50 states to select the specific data items collected on the birth record. Data items are chosen for their usefulness in understanding and improving maternal and child health outcomes.

The Office of Health Informatics acknowledges and thanks the Wisconsin hospitals and birth attendants who reported birth information, and their counterparts in neighboring states who submitted out-of-state birth data for Wisconsin residents.

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## Key Findings

- In 2009, there were 70,824 live births to Wisconsin residents, 1,178 fewer than in 2008 (72,002).
- The 2009 crude birth rate in Wisconsin was 12.5 births per 1,000 total population, compared to 12.7 in 2008. The United States crude birth rate for 2008 (latest available data) was 14.0 per 1,000 population. (The crude birth rate is the number of live births per 1,000 total population.)
- The 2009 general fertility rate of 63.4 births per 1,000 Wisconsin females aged 15-44 was lower than the 2008 United States general fertility rate of 68.6 (see Technical Notes, page 107, for source of U.S. data).
- In 2009, the fertility rate for Wisconsin teens aged 15-19 was 29.3 births per 1,000 females in this age group, compared to 30.9 in 2008. In 2008, the U.S. teen fertility rate was 41.5.
- Wisconsin age-specific fertility rates are lower than the corresponding national rates for teens, women aged 20-24 and women aged 35 and older. Age-specific fertility rates among Wisconsin women aged 25-29 and 30-34 are higher than the corresponding national rates.
- From 1999 to 2009, the percent of births to women in their teens and early twenties decreased, while the percent of births to women aged 25-plus increased.
- From 1999 to 2009, the proportion of Wisconsin births to non-Hispanic white women decreased from 80 percent to 74 percent, while the proportion of births to Hispanics/Latinos increased from 6 percent to 10 percent. The proportion of births to women in other race/ethnicity groups remained roughly stable, with black/African American women accounting for 10 percent in both 1999 and 2009, American Indian women approximately 1 to 2 percent each year, and women in other groups approximately 3 to 4 percent each year.
- In 2009, 14 percent of Wisconsin women who gave birth had not finished high school, compared to 16 percent in 1999. Fifty-seven percent of women who gave birth in 2009 had attended college for one year or more, compared to 52 percent in 1999.
- The overall proportion of women who received first-trimester prenatal care was 83 percent in 2009, compared to 84% in 1999.
- Births to unmarried women constituted 38% of births in 2009, a higher proportion than in 2008 (37%) and 1999 (30%). The national percent of nonmarital births in 2006 (latest available data) was 40.6%.
- The proportion of women giving birth who reported they smoked during pregnancy decreased from 17 percent in 1999 to 14 percent in 2009.
- The overall percent of cesarean sections increased from 17.6 percent of births in 1990 to 25.8 percent in 2009.
- In 2009, 5,040 Wisconsin infants were low birthweight; that is, they weighed less than 2,500 grams (about 5.5 pounds) at birth. This total represented 7.1 percent of all births (7.0 in 2008). In comparison, 8.2 percent of all infants born in the United States in 2008 weighed less than 2,500 grams.



- Among low birthweight infants, 864 (1.2 percent of all births ) were born at *very* low birthweight (less than 1,500 grams or about 3.3 pounds) and were thus at the highest risk for health problems. The very low birthweight percentage was 1.0 percent of births to whites, 2.9 percent of births to blacks/African Americans, 1.2 percent of births to American Indians, 1.1 percent of births to Hispanics/Latinas and 0.7 percent of births to Laotians or Hmong.
- In 2009, 7,663 Wisconsin infants were born prematurely (with a gestation of less than 37 weeks). This total represented 10.8 percent of all births, compared to 11.1 percent in 2008. (See Technical Notes, page 108, for full definition of prematurity.)
- In Wisconsin, 426 infants under the age of one year died in 2009. The 2009 infant mortality rate was 6.0 infant deaths per 1,000 live births, compared to 7.0 in 2008 and 6.7 in 1999. The 2006 U.S. infant mortality rate (the latest available) was 6.7 infant deaths per 1,000 live births.
- The black/African American infant mortality rate for 2009 was 14.3 deaths per 1,000 births to black/African American women, compared to 13.8 in 2008 and 14.9 in 1999. The 2009 white infant mortality rate was 4.9 deaths per 1,000 births to white women, compared to 5.9 in 2008 and 5.7 in 1999. The Hispanic/Latino infant mortality rate for 2009 was 5.5 deaths per 1,000 births to Hispanic/Latina women, compared to 7.0 in 2008 and 7.7 in 1999.
- Based on three-year rolling average infant mortality rates, American Indian infant mortality has dropped markedly since 1987. The rate was 18.1 per 1,000 live births in 1987-1989 and 8.9 per 1,000 in 2007-2009. The black/African American infant mortality rate has remained much higher than the rate for other populations in Wisconsin for at least two decades. The three-year average rate was 17.8 per 1,000 live births in 1987-1989, and 14.2 in 2007-2009. The Hispanic/Latino infant mortality was 8.2 per 1,000 live births in 1987-1989 and 6.3 per 1,000 in 2007-2009. Total infant mortality and white infant mortality declined gradually over the 1987-2009 period.
- The disparity ratio between the black/African American infant mortality rate and the white infant mortality rate increased from 2.2 in 1990-1992 to 2.6 in 2007-2009 (Figure 23). The disparity ratio is the black/African American rate divided by the white rate, and is one measure of the difference in magnitude between the two rates.

**Ten Most Popular First Names for Newborns  
Wisconsin 2009**

**Females**

1. Olivia
2. Emma
3. Isabella
4. Ava
5. Sophia
6. Addison
7. Ella
8. Abigail
9. Elizabeth
10. Grace

**Males**

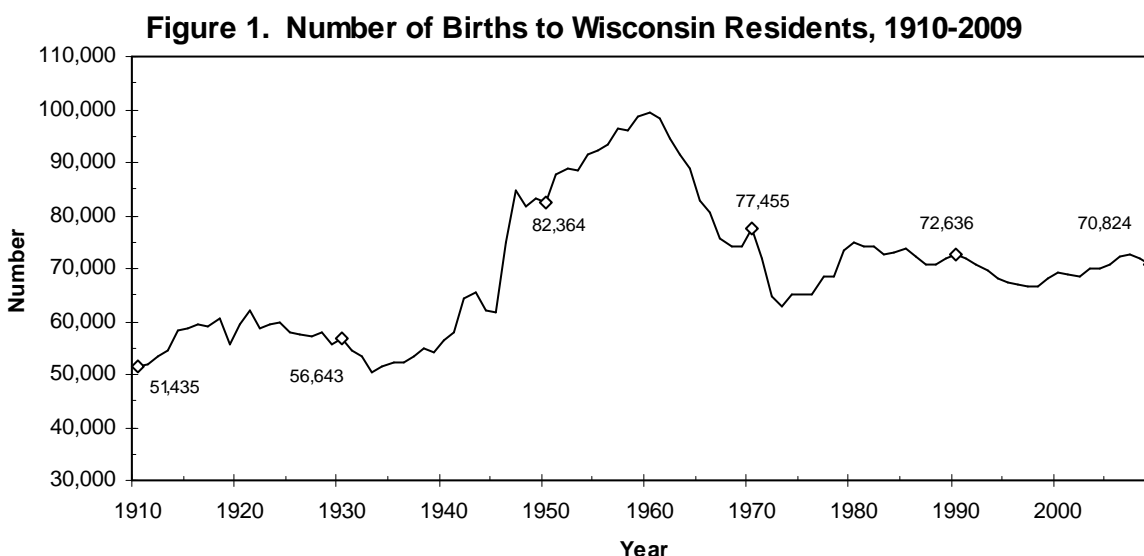
1. Jacob
2. Ethan
3. Noah
4. Logan
5. Mason
6. Alexander
7. Aiden
8. Owen
9. William
10. Jackson

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: This ranking counts each spelling as a separate name. The list would change somewhat if different spellings were grouped together and counted as one name. For example, counting Kaitlyn, Katelyn, Caitlin, Caitlyn and Kaitlin as one name could change the placements.

## Birth and Fertility Rates

- In 2009 there were 70,824 births to Wisconsin residents, 1,178 fewer than in 2008 (Figure 1).
- The 2009 crude birth rate was 12.5 births per 1,000 population (Table 2-1), compared to 12.7 in 2008. In comparison, the United States crude birth rate for 2008 was 14.0 births per 1,000 population. (The crude birth rate is the number of live births per 1,000 total population.)
- The 2009 general fertility rate of 63.4 births per 1,000 Wisconsin females ages 15-44 (Table 2-1) was slightly lower than the 2008 rate (64.2). In comparison, the United States general fertility rate for 2008 was 68.6 births per 1,000.



Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Note: A live birth is the complete expulsion or extraction from his or her mother of a human being, at any stage of development, who, after the expulsion or extraction, breathes or has a beating heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, regardless of whether the umbilical cord has been cut, and regardless of whether the expulsion or extraction occurs as a result of a natural or induced labor, a cesarean section, or an abortion. Unless otherwise noted, all births referred to in this report are live births to Wisconsin residents.

### Fertility Rates by Age

- Wisconsin age-specific fertility rates are lower than the corresponding national rates for teens, women aged 20-24 and women aged 35 and older (Table 1-1). Age-specific fertility rates are the number of births to a specific age group per 1,000 females in that age group.
- Fertility rates among Wisconsin women aged 25-29 and 30-34 are higher than the corresponding national rates, based on United States 2008 final statistics (Table 1-1). (See Technical Notes, page 107, for source of U.S. data.)

**Table 1-1. Age-Specific Fertility Rates, Wisconsin, 2009 and United States, 2008**

Age	Wisconsin Rate	U.S. Rate
10-14	0.3	0.6
15-19	29.3	41.5
15-17	13.9	21.7
18-19	50.9	70.6
20-24	77.2	103.0
25-29	123.1	115.1
30-34	108.3	99.3
35-39	42.2	46.9
40-44	7.9	9.8
45-49	0.5	0.7

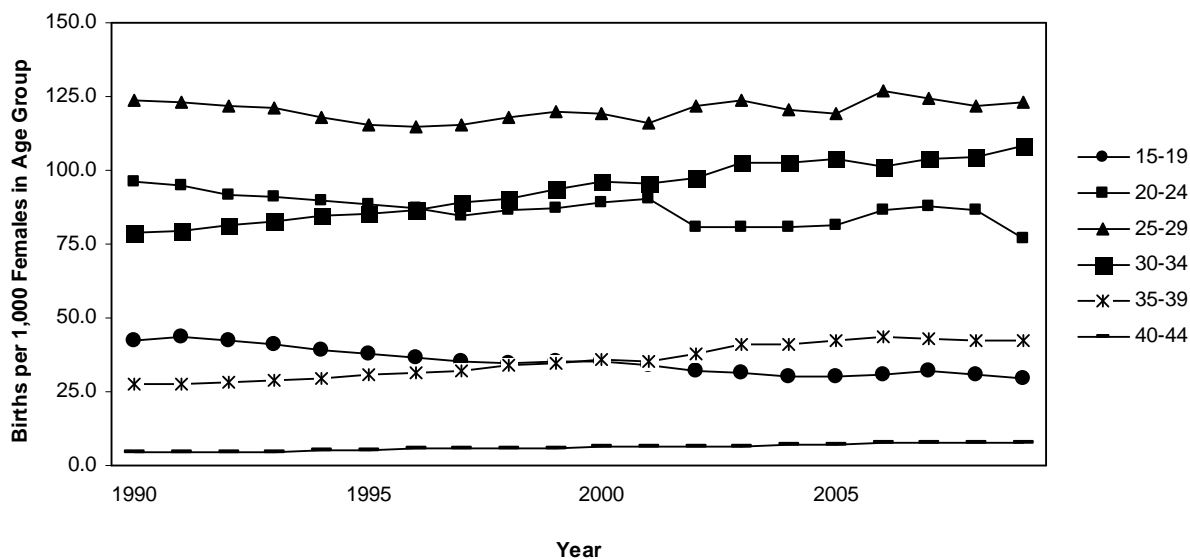
Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Note: Rates are the number of births per 1,000 females in the age group. See Technical Notes (page 107) for an explanation of birth rate calculations.

- Compared with 1990 (Figure 2), age-specific fertility rates in 2009 were:

- Lower for teens and women in their twenties.
- Higher for women aged 30-plus.

**Figure 2. Age-Specific Fertility Rates, Wisconsin, 1990-2009**



Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

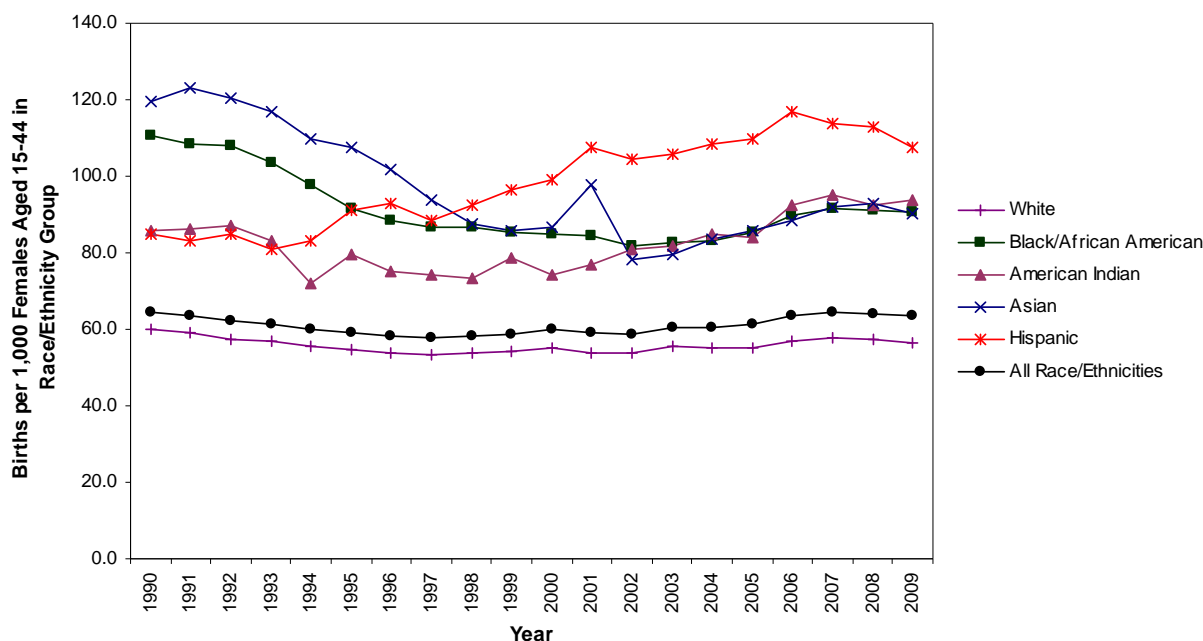
Note: Rates are the number of births per 1,000 females in the age group. See Technical Notes (page 107) for an explanation of birth rate calculations.

### Fertility Rates by Race/Ethnicity

- Race/ethnicity-specific birth rates (births per 1,000 females aged 15-44 in a race/ethnicity group) have decreased since 1990 for non-Hispanic whites, blacks/African Americans, and Asians (Figure 3).
- The overall birth rate (also called the general fertility rate) in 2009 was similar to the rate in 1990 (63.4 vs. 64.5 per 1,000 females aged 15-44).

- The black/African American and Asian birth rates decreased dramatically. The black/African American rate decreased from 110.5 births per 1,000 black/African American females aged 15-44 in 1990 to 90.8 per 1,000 in 2009, a decline of 18 percent. The Asian birth rate decreased 24 percent, from 119.7 to 90.4 per 1,000 Asian females aged 15-44.
- Since 1990, the white birth rate decreased from 60.2 to 56.6 per 1,000 white females aged 15-44.
- The American Indian birth rate stayed fairly stable during the 1990s, then began gradually increasing. In 2009, the rate was 93.8 per 1,000 American Indian females aged 15-44 (85.7 in 1990).
- In contrast to trends in most other groups, the Hispanic/Latina birth rate has steadily increased since 1990. In 2009, the Hispanic/Latina birth rate was 107.6 per 1,000 Hispanic/Latina females aged 15-44 (85.1 in 1990).

**Figure 3. Birth Rates by Race/Ethnicity, 1990-2009**



Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

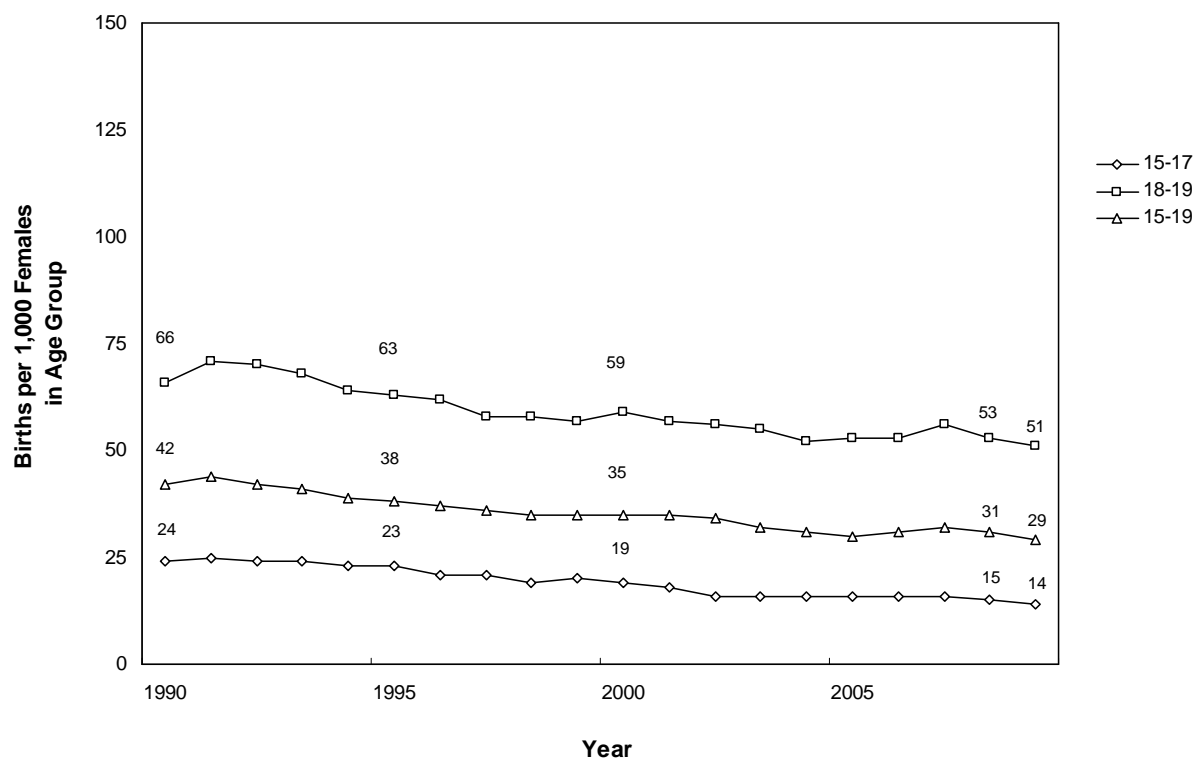
Notes: See Technical Notes (page 107) for definition of race/ethnicity categories. Birth rates for Wisconsin females by race are based on bridged race estimates from the US Census Bureau. Because individuals could report more than one race for the first time during the 2000 Census, rates for earlier years are not directly comparable to those for 2000 and later.

Population estimates, especially in relatively small and fast-growing populations, become less reliable with every year that passes after the Census on which they are based. This can affect the reliability of rates for some populations. Rates by race/ethnicity in the latter half of the decade should thus be viewed with caution.

## Teen Birth Rates

- In 2009, the fertility rate for Wisconsin teens aged 15-19 was 29.3 births per 1,000 females in this age group (Figure 2). The rate in 2008 was 30.9. The teen fertility rate generally declined nationally and in Wisconsin after 1990.
- For many years the Wisconsin teen fertility rate has been lower than the comparable national rate. In 2008, the U.S. teen fertility rate was 41.5.

**Figure 4. Teen Birth Rates, Wisconsin, 1990-2009**



Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Note: Fertility rates are the number of births per 1,000 females in the age group. See Technical Notes (page 107) for an explanation of birth rate calculations.

## Characteristics of the Mother

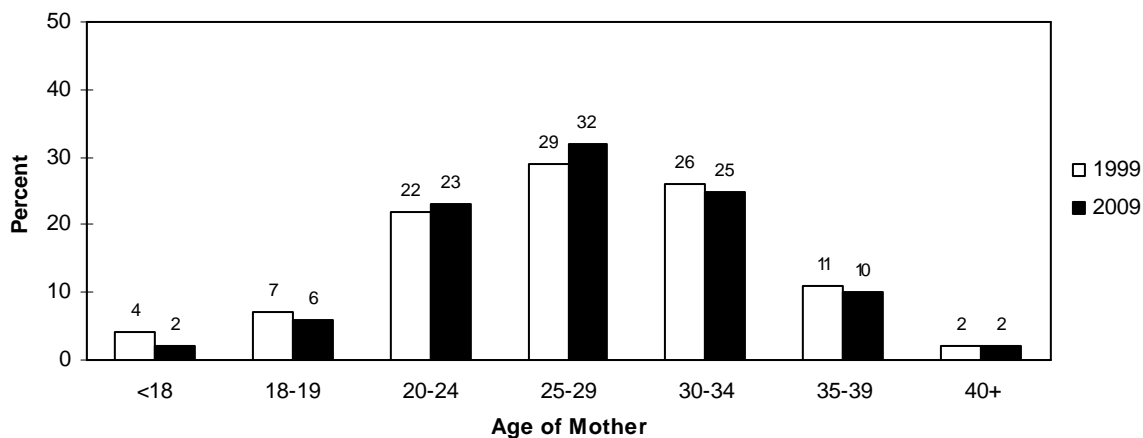
### Age of Mother

Births in 2009 included:

61	births to teens less than 15 years old
1,608	births to teens 15-17 years old
4,186	births to teens 18-19 years old
15,956	births to women aged 20-24
22,420	births to women aged 25-29
17,569	births to women aged 30-34
7,372	births to women aged 35-39
1,527	births to women aged 40-44
107	births to women aged 45 or older
18	births with unreported maternal age.

- From 1999 to 2009, the percent of births to women in their teens and thirties decreased, while the percent of births to women in their twenties increased. The proportion of births to women aged 40 and older remained the same (Figure 5).

**Figure 5. Percent of Births by Age of Mother, Wisconsin, 1999 and 2009**



Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Note: For detailed information on 2009 births by age of mother, see Tables 4-1 and 4-2, pages 92 and 93.

## Births to Teens

- The majority of births to teens (under 20 years of age) were to older teens, aged 18-19. This was also true in 1999 (Table 1-2).

**Table 1-2. Teen Births by Age, Wisconsin, 1999 and 2009**

Maternal Age (Teens)	1999		2009	
	Number	Percent	Number	Percent
<15	116	2%	61	1%
15-17	2,432	33	1,608	27
18-19	4,760	65	4,186	71
Total <20	7,308	100%	5,855	100%

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Note: Percents may not add to 100 due to rounding.

- Non-Hispanic whites make up the largest number of teen births in the state (2,853 in 2009) (Table 1-3).
- Teen births represented 8.3 percent of all births, and a higher proportion of births to blacks/African Americans, American Indians, Hispanics/Latinas, and Laotians or Hmong (Table 1-3).

**Table 1-3. Teen Births by Race/Ethnicity, Wisconsin, 2009**

Race/Ethnicity	Number of Births		Percent of Births		
	Total	Teens (<20)	Teens (<20)	Ages 20+	Total
<b>Total</b>	<b>70,824</b>	<b>5,855</b>	<b>8.3%</b>	<b>91.7%</b>	<b>100.0%</b>
White	52,454	2,853	5.4	94.6	100.0
Black/African American	7,281	1,537	21.1	78.9	100.0
American Indian	1,159	198	17.1	82.9	100.0
Hispanic/Latino	6,926	1,019	14.7	85.3	100.0
Laotian or Hmong	1,368	196	14.3	85.7	100.0
Other Asian	1,595	48	3.0	97.0	100.0

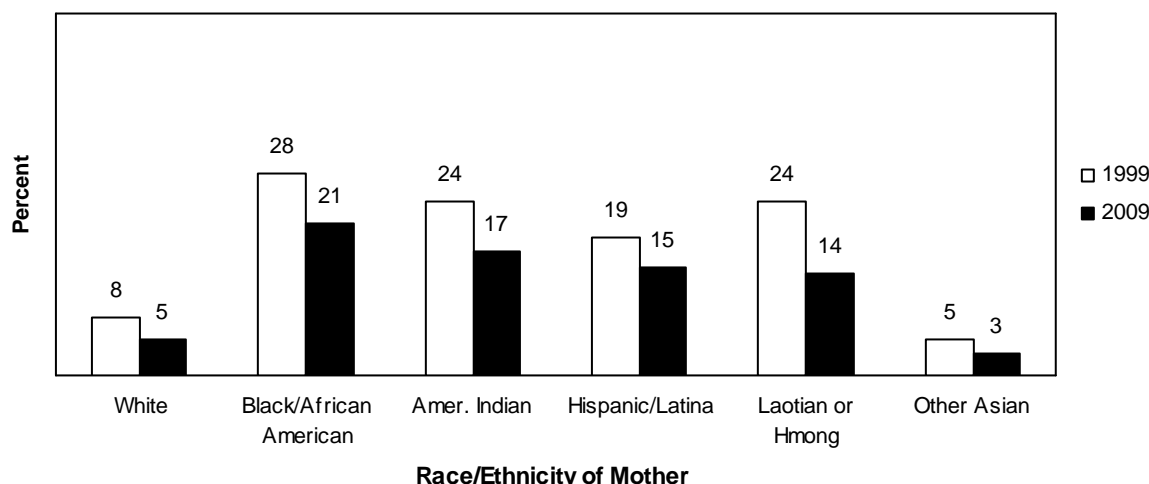
Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Note: Included in the total are 41 births for which race/ethnicity of mother was not reported; 4 of these were to mothers under 20 years of age. See Technical Notes (page 107) for definition of race/ethnicity categories.



- In 2009 compared to 1999, teen births represented a smaller proportion of births in all race/ethnicity groups. The largest decline in the teen birth percentage occurred among Laotian or Hmong. Teen births made up 14 percent of Laotian or Hmong births in 2009, compared to 24 percent in 1999 (Figure 6).

**Figure 6. Teen Births as a Percent of Total Births in Each Race/Ethnicity Group, Wisconsin, 1999 and 2009**



Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: See Technical Notes (page 107) for definition of race/ethnicity categories.

- In 2009, 10 percent of teen births occurred less than 24 months since a previous birth. Six percent of teen births occurred 24 or more months since a previous birth, and 82 percent were first births (Table 1-4).

**Table 1-4. Teen Births by Interval in Months Since Last Live Birth, Wisconsin, 2009**

Birth Interval	All Ages	All Teens (<20)			All Ages	All Teens (<20)		
		<18	18-19			<18	18-19	
<b>Total</b>	<b>70,824</b>	<b>5,855</b>	<b>1,669</b>	<b>4,186</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>
First Birth	27,567	4,813	1,535	3,278	38.9	82.2	92.0	78.3
1-11 Months	626	59	5	54	0.9	1.0	0.3	1.3
12-17 Months	3,898	282	46	236	5.5	4.8	2.8	5.6
18-23 Months	6,140	225	32	193	8.7	3.8	1.9	4.6
24-Plus Months	29,461	379	29	350	41.6	6.5	1.7	8.4
Unknown	1,927	46	10	36	2.7	0.8	0.6	0.9
Plural Delivery	1,205	51	12	39	1.7	0.9	0.7	0.9

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Note: Included in the total for all ages are 18 births for which age of mother was not reported. The “plural delivery” row includes those births in each multiple birth that are second or later birth order. For example, in a twin delivery, the first-born twin is included in the birth interval distribution (months since last live birth) and the second-born twin is included in the “plural delivery” row.

**Race/Ethnicity of Mother**

- In 2009, 52,454 births (74.1%) were to non-Hispanic white women (Table 1-5). This percentage has gradually declined in recent decades (it was 80.4% in 1999).
- 7,281 births (10.3%) were to non-Hispanic black/African American women (Table 1-5). The percent of births to black/African American women has been fairly stable since 1999.
- 1,159 births (1.6%) were to American Indian women (Table 1-5). This percent has been stable for the past decade.
- 6,926 births (9.8%) were to Hispanic/Latina women (Table 1-5). This is higher than the percent of Hispanic/Latina births in 1999 (5.9%).
- 1,368 births (1.9%) were to Laotian or Hmong women, similar to the 1999 percentage (1.5%).
- An additional 1,595 births (2.3%) were to women in other Asian groups (such as Chinese, Japanese, and Korean.)

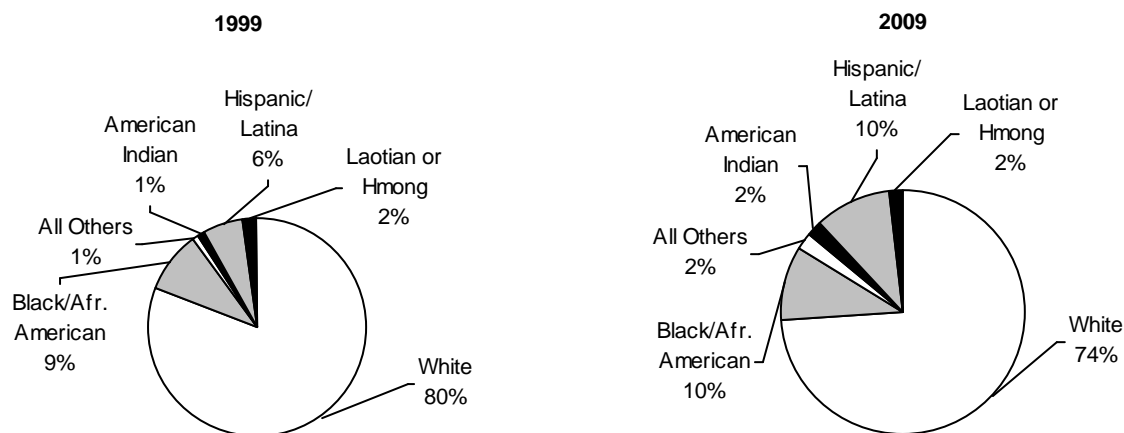
**Table 1-5. Number and Percent of Births by Race/Ethnicity, Wisconsin, 1999 and 2009**

	1999		2009	
	Number	Percent	Number	Percent
<b>Total</b>	<b>68,181</b>	<b>100.0%</b>	<b>70,824</b>	<b>100.0%</b>
White	54,813	80.4	52,454	74.1
Black/African American	6,444	9.5	7,281	10.3
American Indian	924	1.4	1,159	1.6
Hispanic/Latina	4,036	5.9	6,926	9.8
Laotian or Hmong	1,025	1.5	1,368	1.9
Other Asian	929	1.4	1,595	2.3
Unknown	10	0.0	41	0.1

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Note: The “other Asian” category includes all Asian groups other than Laotian or Hmong; in 2009 it also includes 8 births to Hawaiians.

**Figure 7. Percent of Births by Race/Ethnicity of Mother, Wisconsin, 1999 and 2009**



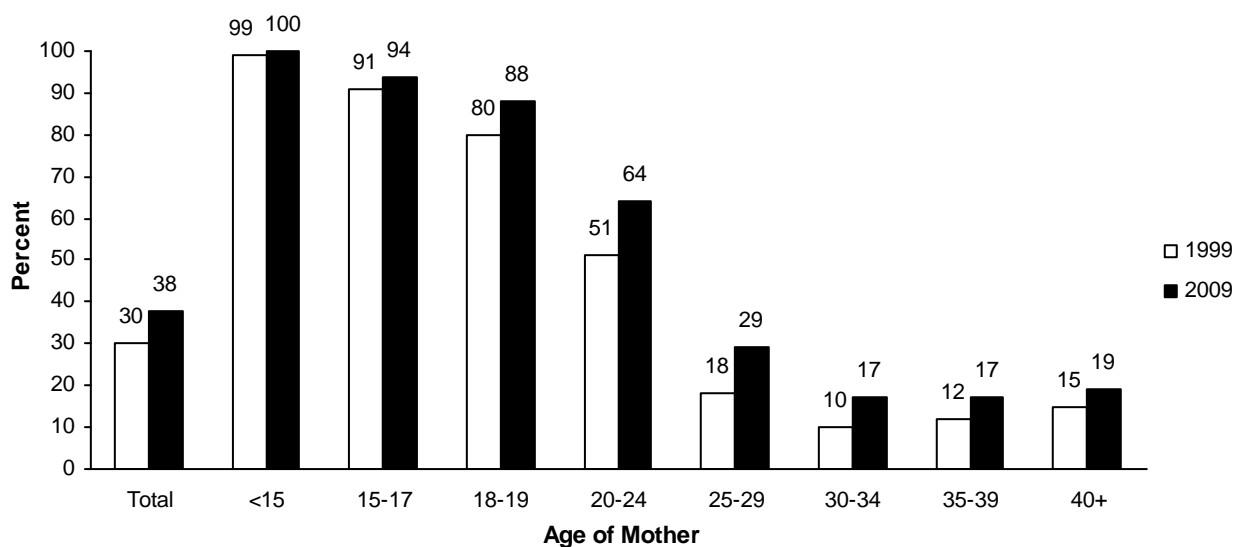
Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: See Technical Notes (page 107) for definition of race/ethnicity categories. For detailed information on 2009 births by race/ethnicity of mother, see Tables 4-3 and 4-4, pages 94-97. Percents may not add to 100 due to rounding.

## Marital Status of Mother

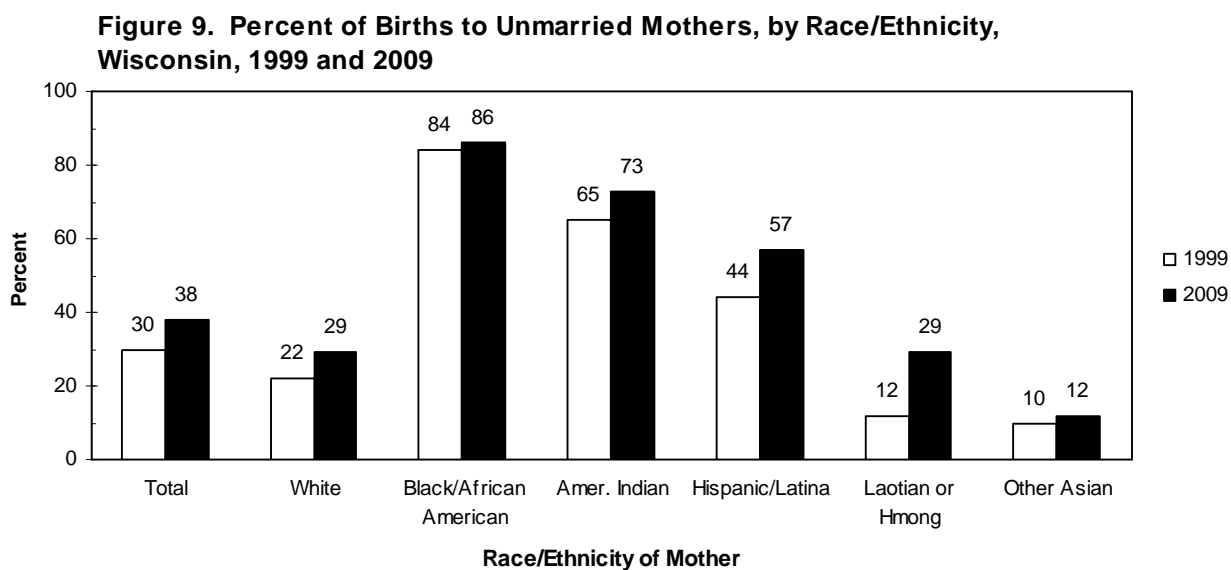
- In 2009, 38 percent of births were to unmarried women, compared with 30 percent in 1999 (Figure 8).
- In general, the percent of births to mothers who are unmarried decreases with age. Eighty-eight percent of women aged 18-19 who gave birth in 2009 were unmarried, compared with 17 percent of women aged 35-39 who gave birth (Figure 8).
- Between 1999 and 2009, the unmarried percentage increased in every maternal age group (Figure 8). The largest increase occurred among mothers aged 20-24 (from 51% to 64%—13 percentage points).

**Figure 8. Percent of Births to Unmarried Mothers, by Age, Wisconsin, 1999 and 2009**



Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

- From 1999 to 2009, the percent of non-marital births increased in all race/ethnicity groups (Figure 9).
- Wisconsin's overall percent of births to unmarried mothers in 2009 (38%) was lower than the national percent in 2008 (41%). However, the percent of births to unmarried mothers was higher in Wisconsin than nationally among blacks/African Americans (86% vs. 72%) and Hispanics/Latinas (57% vs. 53%).



Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: See Technical Notes (page 107) for definition of race/ethnicity categories.

## Education of Mother

- In 2009, 14 percent of Wisconsin women who gave birth had not finished high school, compared to 16 percent in 1999 (Figure 10). By age, the percentages with less than a high school education in 2009 were:

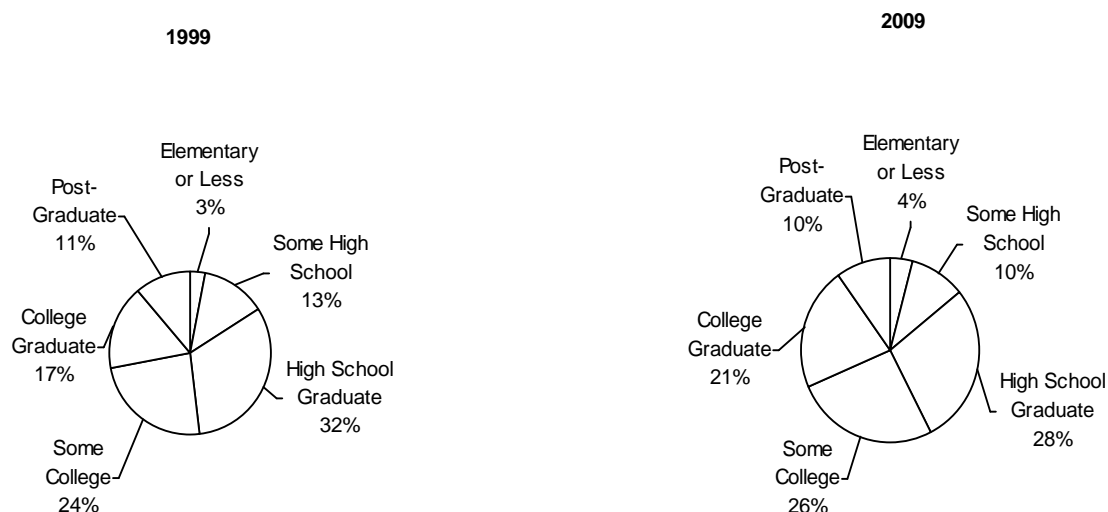
91%	among mothers less than 18
31%	among mothers 18-19
18%	among mothers 20-24
10%	among mothers 25-29
7%	among mothers 30-34
8%	among mothers 35-39
11%	among mothers 40 or older

- On average, mothers in minority race/ethnicity groups were less likely to have completed high school. In 2009, the proportions of births to women with less than a high school education were:

8%	among whites
29%	among blacks/African Americans
21%	among American Indians
47%	among Hispanics/Latinas
25%	among Laotian or Hmong
7%	among other Asian groups

- Fifty-seven percent of women who gave birth in 2009 had attended college for one year or more (Figure 10). The comparable percentage in 1999 was 52 percent.

**Figure 10. Percent of Births by Education of Mother, Wisconsin, 1999 and 2009**



Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

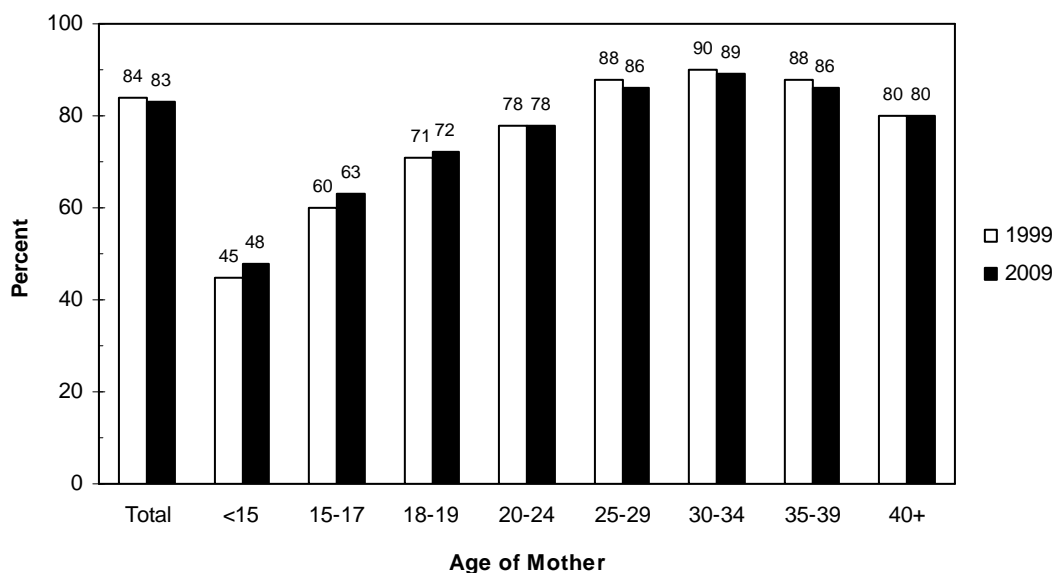
Notes: “Some High School” or “Some College” means the mother completed at least one year of schooling at that level. For detailed information on 2009 births by education of mother, see Tables 4-1 through 4-5, pages 92-99. Percents may not add to 100 due to rounding.

## Characteristics of the Pregnancy and Delivery

### Prenatal Care

- The overall proportion of women who received first-trimester prenatal care was 83 percent in 2009, compared to 84 percent in 1999 (Figure 11).
- In 2,008 births in 2009, the mother either did not begin prenatal care until the third trimester of pregnancy (1,582 births) or received no care at all (426 births) (Table 2-22). These births with “late or no prenatal care” constituted 2.8 percent of all births (compared to 3.3% in 1999).
- Patterns of prenatal care initiation by age were similar in 1999 and 2009 (Figure 11).

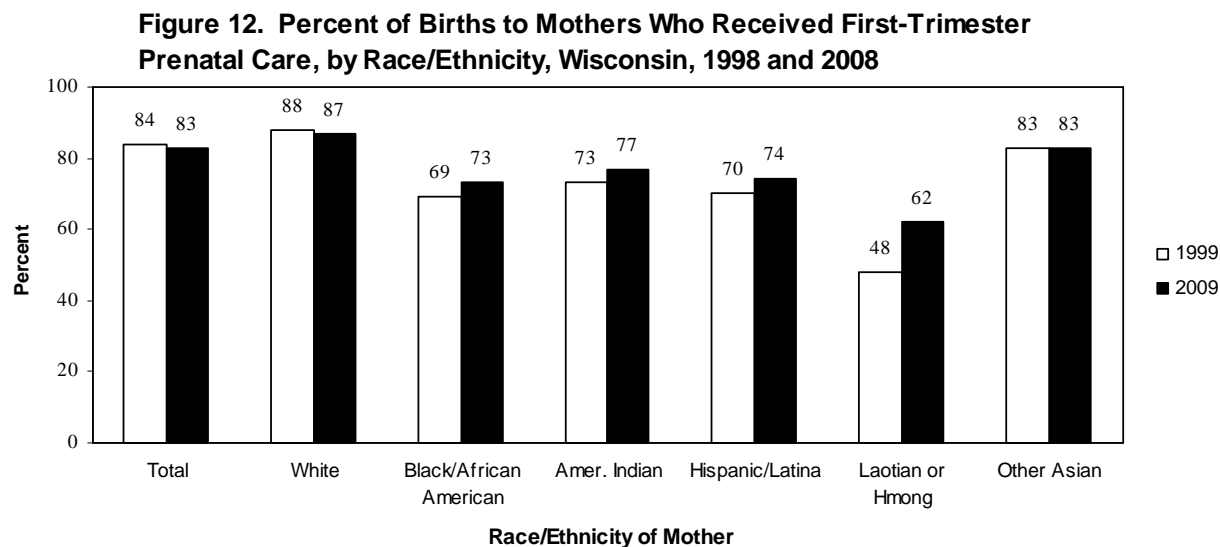
**Figure 11. Percent of Births to Mothers Who Received First-Trimester Prenatal Care, by Age, Wisconsin, 1999 and 2009**



Source: Office of Health Informatics, Division of Public Health, Department of Health Services.



- From 1999 to 2009, the proportion of women receiving first-trimester care increased for all race/ethnicity groups except White and Other Asian (Figure 12).



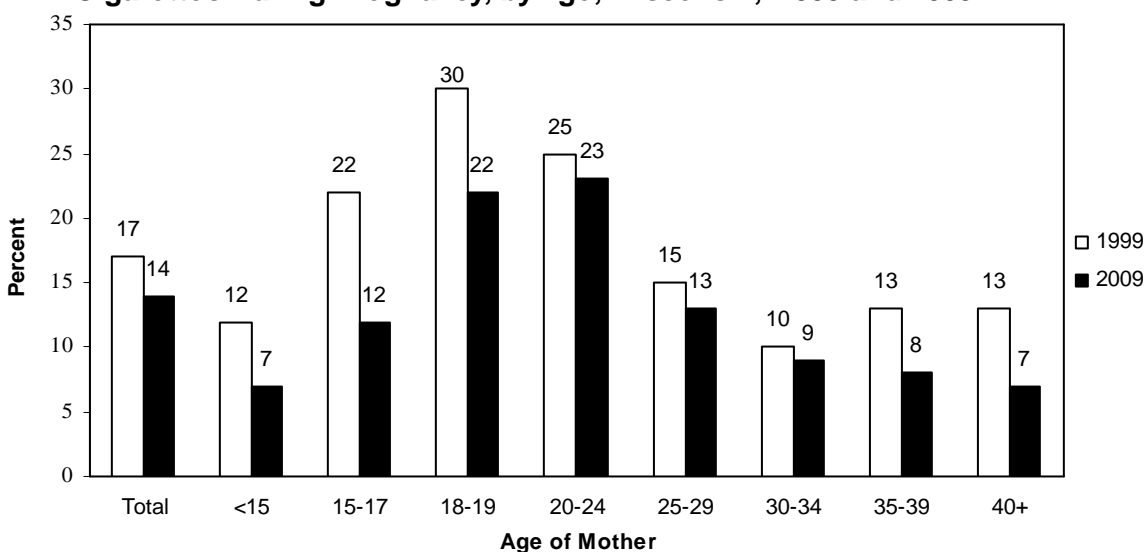
Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: See Technical Notes (page 107) for definition of race/ethnicity categories.

## Cigarette Smoking

- Smoking during pregnancy poses risks for fetal development and infant health. Maternal smoking is associated with low birthweight in two ways: it slows fetal growth during gestation and increases the risk of a premature birth.
- The proportion of women who reported they smoked during pregnancy decreased from 17 percent of births in 1999 to 14 percent of births in 2009 (Figure 13).
- From 1999 to 2009, smoking during pregnancy declined in every maternal age group (Figure 13).

**Figure 13. Percent of Births to Mothers Who Reported Smoking Cigarettes During Pregnancy, by Age, Wisconsin, 1999 and 2009**

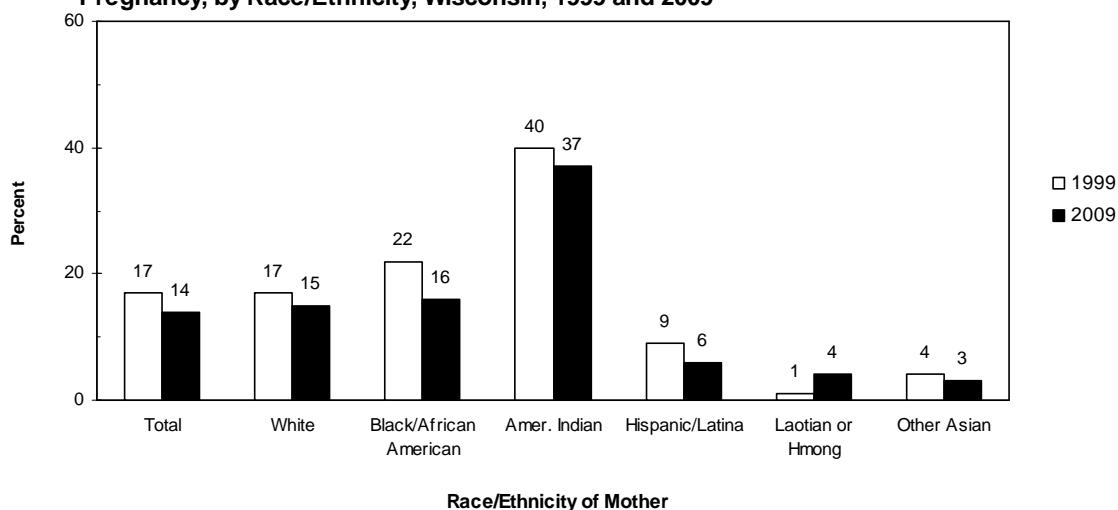


Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: For detailed information on 2009 births by smoking behavior during pregnancy, see Tables 4-1 through 4-5, pages 92-99.

- From 1999 to 2009, the percentage of mothers who reported smoking during pregnancy declined in most race/ethnicity groups (Figure 14). The only exception was found among Laotian or Hmong women.
- No data are presented on mother's self-reported use of alcohol during pregnancy because this item appears to be under-reported on the birth reporting form. This conclusion is based on the inconsistency between birth certificate data (0.7% of new mothers reported drinking during pregnancy in 2009) and the 2009 Behavioral Risk Factor Survey (64% of Wisconsin women aged 18-44 reported drinking within the past month).

**Figure 14. Percent of Births to Mothers Who Reported Smoking Cigarettes During Pregnancy, by Race/Ethnicity, Wisconsin, 1999 and 2009**



Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: See Technical Notes (page 107) for definition of race/ethnicity categories. For detailed information on 2009 births by smoking behavior during pregnancy, see Tables 4-1 through 4-5, pages 92-99.

## Medical Risk Factors

The most frequently reported maternal medical risk factors reported for 2009 births were hypertension (reported in 7.6 percent of births), lung disease (6.3 percent), sexually transmitted diseases (6.0 percent), diabetes (5.3 percent), a previous preterm or small-for-gestational age infant (5.2 percent), anemia (3.9 percent) and a previous infant weighing 4,000+ grams at birth (3.5 percent) (Table 1-6).

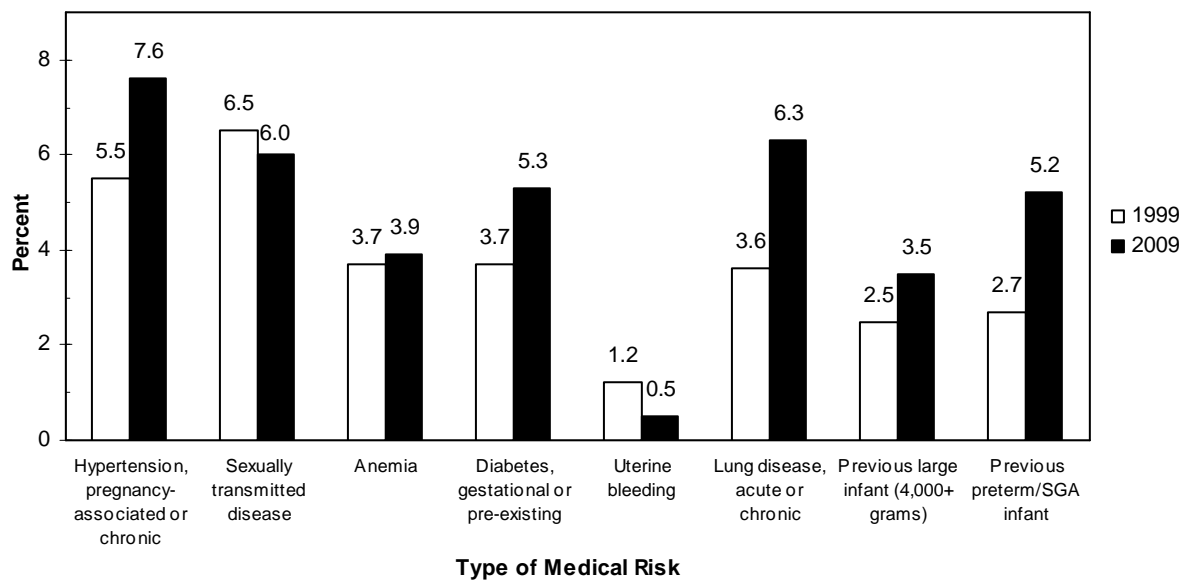
**Table 1-6. Births with Reported Medical Risk Factors, Wisconsin, 2009**

	Number	Percent
Sexually Transmitted Diseases	4,266	6.0
Hypertension	5,350	7.6
Pregnancy-Associated	4,209	5.9
Chronic	1,141	1.6
Diabetes	3,787	5.3
Gestational	3,248	4.6
Pre-Existing	539	0.8
Anemia	2,763	3.9
Lung Disease, Acute or Chronic	4,462	6.3
Previous Preterm/Small-for-Gestational-Age Infant	3,648	5.2
Previous Large Infant (4,000+ grams)	2,511	3.5
Uterine Bleeding	364	0.5
Cardiac Disease	547	0.8
Hydramnios/Oligohydramnios	1,216	1.7
Renal Disease	646	0.9
Rh Sensitization	660	0.9
Eclampsia	109	0.2
Incompetent Cervix	430	0.6
Hemoglobinopathy	184	0.3
Any Reported	37,072	52.3

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: See Technical Notes (page 109) for definitions of maternal medical risk factors. Since more than one medical risk factor may be indicated for each birth, and since conditions in the “other” checkbox are not reported in this table, columns will not sum to the “any reported” line.

**Figure 15. Percent of Births with Selected Maternal Medical Risk Factors, Wisconsin, 1999 and 2009**



Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

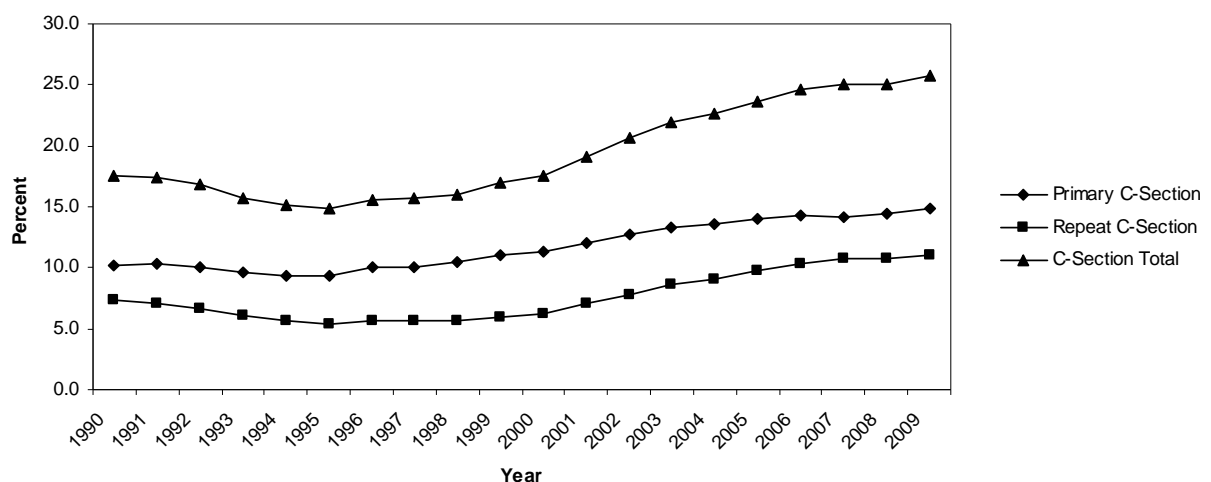
## Methods of Delivery

In 2009, the following methods of delivery were reported:

Vaginal (no previous C-section)	50,813	71.7%
Primary C-Section	10,491	14.8
Repeat C-Section	7,783	11.0
Vaginal After Previous C-Section (VBAC)	1,131	1.6
Forceps	606	0.9
Other	0	0.0
Total Births	70,824	100.0%

- The overall percent of cesarean sections increased from 17.6 percent of births in 1990 to 25.8 percent in 2009. The cesarean section percentage was at its lowest point in 1995 (14.8%) and has increased most years since then.
- Primary cesarean sections increased from 10.2 percent of births in 1990 to 14.8 percent in 2009.
- Repeat cesarean sections increased from 7.3 percent of births in 1990 to 11.0 percent in 2009.

**Figure 16. Cesarean Sections as a Percent of All Births, Wisconsin, 1990-2009**



Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

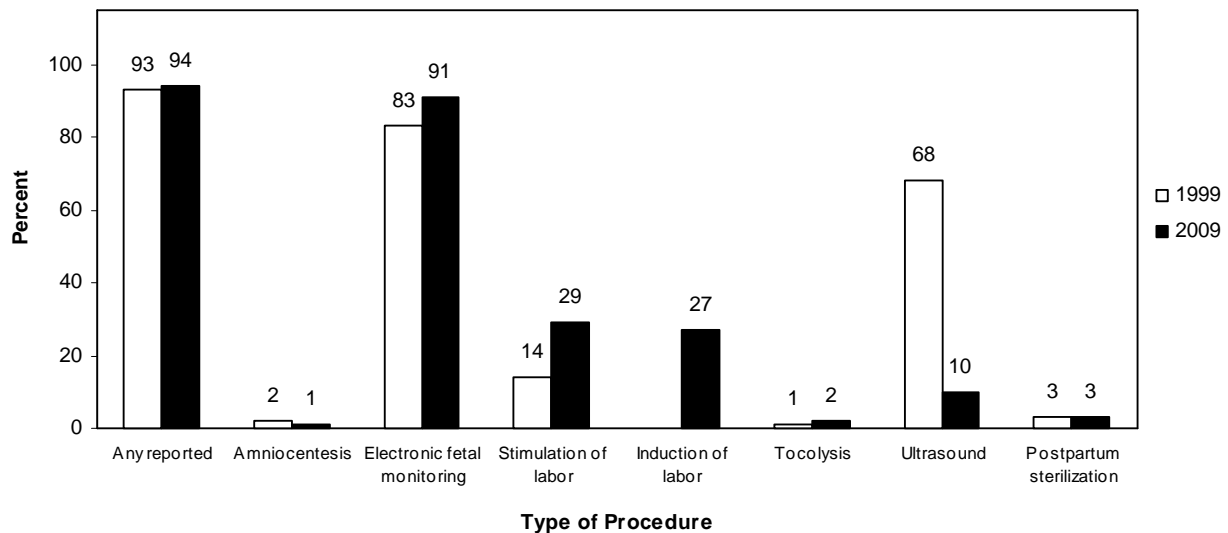
## Obstetric Procedures

In 2009, births with reported obstetric procedures included:

Electronic fetal monitoring	64,419	91.0%
Ultrasound	7,101	10.0
Induction of labor	19,068	26.9
Stimulation of labor	20,439	28.9
Amniocentesis	794	1.1
Postpartum sterilization	2,247	3.2
Tocolysis	1,623	2.3
Other procedures	8	0.0
<b>Births With Reported Procedure(s)</b>	<b>66,693</b>	<b>94.2</b>

Notes: See Technical Notes (page 110) for definitions of obstetric procedures. Each birth could have more than one type of procedure reported.

**Figure 17. Percent of Births with Obstetric Procedures Reported, Wisconsin, 1999 and 2009**



Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

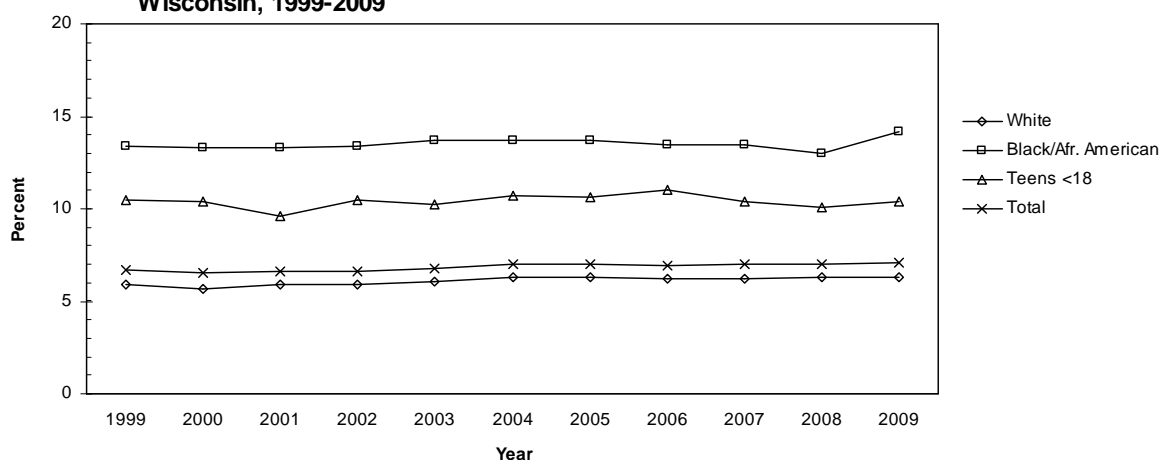
Note: No data is presented on induction of labor in 1999 because coding and reporting processes were being modified for this data item to address statistical discrepancies.

## Characteristics of the Newborn

### Low Birthweight

- In 2009, 5,040 Wisconsin infants were low birthweight; that is, they weighed less than 2,500 grams (about 5.5 pounds) at birth (Table 2-26). This total represented 7.1 percent of all births (compared to 7.0 percent in 2008). In comparison, 8.2 percent of all infants born in the United States in 2008 weighed less than 2,500 grams. The low birthweight percentage in Wisconsin was 6.3 percent among births to whites, 14.2 percent among births to blacks/African Americans, 5.0 percent among births to American Indians, 6.1 percent among births to Hispanics/Latinas, 6.8 percent among births to Laotians and Hmong, and 7.9 percent among births to other Asians (Table 4-5).
- Among these low birthweight infants, 864 were born at *very* low birthweight (less than 1,500 grams or about 3.3 pounds) and were thus at the highest risk for health problems (Table 2-26). The very low birthweight percentage was 1.2 percent among all births, and 1.0 percent of births to whites, 2.9 percent of births to blacks/African Americans, 1.2 percent of births to American Indians, 1.1 percent of births to Hispanics/Latinas, and 0.7 percent of births to Laotians or Hmong (Table 4-5).
- Compared with the overall incidence of low birthweight in 2009 (7.1 percent), higher percentages of low-birthweight infants were born to:
  - Mothers who received no prenatal care (19.5 percent),
  - Non-Hispanic black/African American women (14.2 percent),
  - Women who smoked during pregnancy (10.8 percent),
  - Women who were unmarried (9.3 percent),
  - Women with less than a high school education (8.6 percent).
- The low birthweight percentage among infants born to mothers less than 18 years of age was 10.4 percent (compared with 7.0 percent among mothers age 18 and older).
- Forty-four percent of premature infants were of low birthweight (Table 4-5). Twins or other multiple births made up 25.6 percent of all low-birthweight births in 2009.

**Figure 18. Percent of Births at Low Birthweight (< 2,500 grams), Wisconsin, 1999-2009**



Source: Office of Health Informatics, Division of Public Health, Department of Health Services.



- Three-year rolling average low birthweight percentages provide stable points of comparison to examine the low birthweight disparity in black/African American births over time. In the three-year period 2007-2009, 13.6 percent of black/African American infants and 6.2 percent of white infants weighed less than 2,500 grams or about 5.5 pounds at birth. The disparity ratio was 2.2, meaning that black/African American infants were born at low birthweight more than twice as frequently as white infants during the 2007-2009 period.
- The disparity between black/African American and white low birthweight rates has lessened since 1990-1992 (from 2.6 to 2.2), not because the black/African American low birthweight rate has improved but because the white low birthweight rate has increased.
- The disparity between black/African American and white infants is even greater for very low birthweight (less than 1,500 grams or about 3.3 pounds at birth). Infants born at these weights are at the highest risk of dying or experiencing other poor health outcomes. In 2007-2009, black/African American infants were 2.8 times as likely to be born at very low birthweight as were white infants. The magnitude of this disparity in very low birthweight has changed little since 1990-1992.

**Table 1-7. Percent of Births at Low Birthweight and Very Low Birthweight and Black or African American/White Disparity Ratios, Three-Year Rolling Averages, Wisconsin 1990-2009**

Years	Percent Low Birthweight		Disparity Ratio	Percent Very Low Birthweight		Disparity Ratio
	Black/African American	White		Black/African American	White	
1990-1992	10.9%	4.2%	2.6	3.1%	0.9%	3.4
1991-1993	10.9	4.2	2.6	3.0	0.9	3.3
1992-1994	11.0	4.3	2.6	2.9	0.9	3.2
1993-1995	11.1	4.3	2.6	3.0	0.9	3.3
1994-1996	10.7	4.4	2.4	3.0	1.0	3.0
1995-1997	10.2	4.4	2.3	3.1	1.0	3.1
1996-1998	10.3	4.6	2.2	3.0	1.0	3.0
1997-1999	10.6	4.7	2.3	2.9	1.0	2.9
1998-2000	10.5	4.7	2.2	3.0	1.0	3.0
1999-2001	10.1	4.8	2.1	3.2	1.1	2.9
2000-2002	10.0	4.8	2.1	3.4	1.0	3.4
2001-2003	10.0	4.9	2.0	3.4	1.0	3.4
2002-2004	10.3	5.0	2.1	3.3	1.0	3.3
2003-2005	10.3	5.2	2.0	3.4	1.0	3.4
2004-2006	11.4	5.6	2.0	3.3	1.0	3.3
2005-2007	12.4	5.9	2.1	3.1	1.0	3.1
2006-2008	13.3	6.2	2.1	2.9	1.0	2.9
2007-2009	13.6%	6.2%	2.2	2.8%	1.0%	2.8

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: Percent low birthweight is the percent of births to mothers in each race/ethnicity group that were low birthweight (less than 2,500 grams).

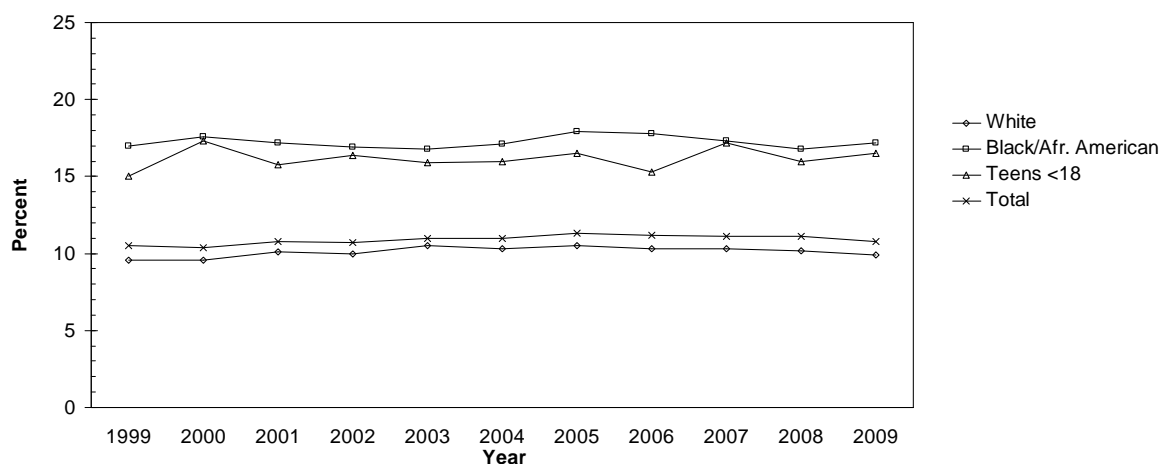
Percent very low birthweight is the percent of births to mothers in each race/ethnicity group that were very low birthweight (less than 1,500 grams).

The disparity ratio is the percentage of low birthweight (or very low birthweight) among black/African American infants divided by the corresponding percentage among white infants.

## Prematurity

- In 2009, 7,663 Wisconsin infants were born prematurely (with a gestation of less than 37 weeks) (Table 4-1). This total represented 10.8 percent of all births (compared to 11.1% in 2008). (See Technical Notes, page 108, for full definition of prematurity.)
- Compared with the overall proportion of premature infants in 2009 (10.8 percent), higher percentages of premature infants were born to:
  - Non-Hispanic black/African American women (17.2 percent),
  - Teenagers less than 18 years old (16.5 percent),
  - Women with less than a high school education (12.8 percent),
  - Women who were unmarried (12.9 percent),
  - Women who smoked during pregnancy (12.7 percent).
- Sixty-seven percent of low birthweight infants (birthweight under 2,500 grams) were premature.
- Twins or other multiple births made up 17.6 percent of all premature births in 2009. From 1999 to 2009, multiple births increased from 3.0 percent to 3.4 percent of all births.
- Prematurity increased from 10.5 percent of all births in 1999 to 10.8 percent of all births in 2009 (Figure 19).
- Prematurity among infants born to mothers less than 18 years of age was 16.5 percent in 2009, compared to 14.9 percent in 1999 (Figure 19). The prematurity rate among infants born to mothers 18 and older was 10.7 percent in 2009.

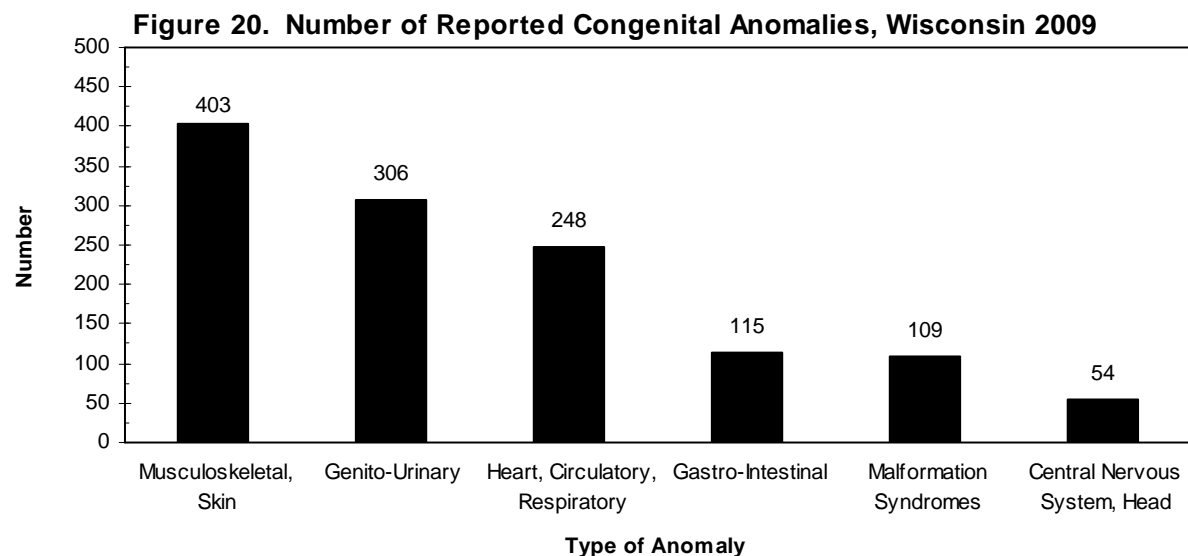
**Figure 19. Percent of Premature Births, Wisconsin, 1999-2009**



Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Note: 'Premature' means less than 37 weeks of gestation. Since 1980, gestational age has been calculated as the difference between the date of last normal menses and the date of delivery. Since 1993, clinical estimate of gestation has been substituted where date of last normal menses is unknown. Since 2004, if the date of last normal menses was unknown or invalid or the computed estimate of gestational age was less than 16 weeks or greater than 45 weeks, then the clinical estimate of gestation was used.

# Congenital Anomalies



Source: Wisconsin resident birth certificates, Office of Health Informatics, Division of Public Health, Department of Health Services.

**Table 1-8. Reported Congenital Anomalies, Wisconsin 2009**

<b>Total Births With Reported Anomalies</b>	<b>1,248</b>	<b>Genito-Urinary</b>	<b>306</b>
		Malformed Genitalia	168
<b>Central Nervous System, Head</b>	<b>54</b>	Renal Agenesis	33
Anencephalus	5	Other Urogenital	109
Spina Bifida/Meningocele	22		
Hydrocephalus	6	<b>Musculoskeletal/Skin</b>	<b>403</b>
Microcephalus	6	Cleft Lip, Palate	86
Other Central Nervous System	22	Polydactyly, Syndactyly, Adactyly	118
		Club Foot	71
<b>Heart, Circulatory, Respiratory</b>	<b>248</b>	Diaphragmatic Hernia	11
Heart Malformations	206	Other Musculoskeletal/ Integumental	139
Other Circulatory/Respiratory	51		
		<b>Malformation Syndromes</b>	<b>109</b>
<b>Gastro-Intestinal</b>	<b>115</b>	Down Syndrome	67
Rectal Atresia, Stenosis	10	Other Chromosomal	45
Tracheo-Esophageal Fistula	11		
Omphalocele, Gastroschisis	53	<b>All Other</b>	<b>128</b>
Other Gastrointestinal	42		

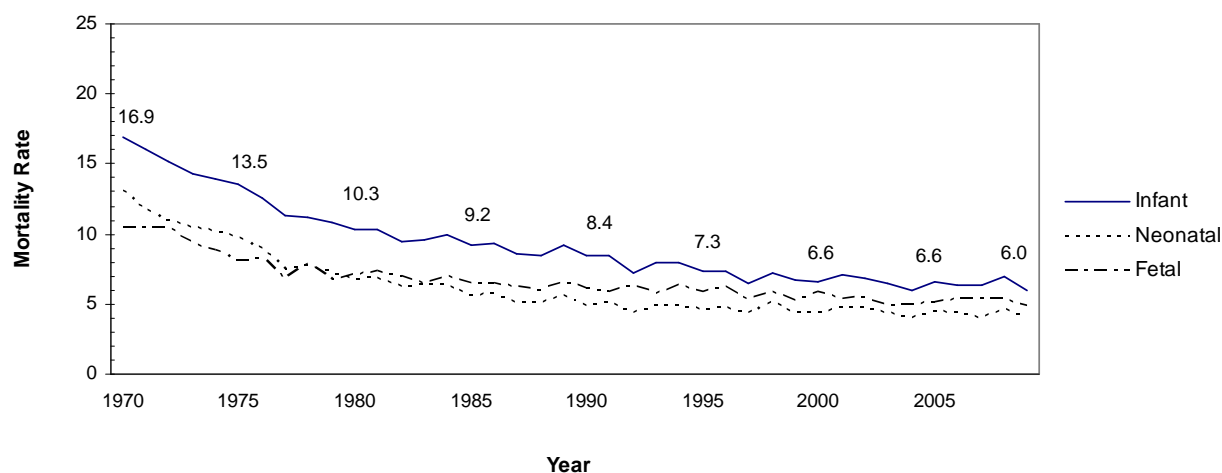
Source: Wisconsin resident birth certificates, Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: These numbers reflect only those congenital anomalies that can be discerned at birth and are reported on the birth certificate. Many are not detected before the newborn is discharged from the hospital. Since more than one anomaly may be reported for each infant, the columns do not add to total. This table is not comparable with congenital anomalies data published prior to 1989; see Technical Notes for explanation.

## Mortality

- In Wisconsin, 426 infants under the age of one year died in 2009 (Table 2-28). The 2009 infant mortality rate was 6.0 infant deaths per 1,000 live births, compared to 7.0 in 2008 and 6.7 in 1999 (Figure 21). The 2006 U.S. infant mortality rate (the latest available data) was 6.7 infant deaths per 1,000 live births.
- There were 281 neonatal deaths (deaths of infants less than 28 days of age) in 2009, accounting for 66 percent of total infant deaths that year. The neonatal mortality rate in 2009 was 4.0 neonatal deaths per 1,000 live births, compared with 4.6 in 2008 and 4.3 in 1999 (Figure 21). In the U.S. in 2006 (the latest available), the neonatal mortality rate was 4.5 per 1,000 live births.
- The fetal death rate (fetal deaths per 1,000 live births and fetal deaths) was 4.8 in 2009 (Figure 21). In comparison, the fetal death rate for 1999 was 5.2 per 1,000. (For the definition of “fetal death,” see Technical Notes, page 108.)
- There were 13 maternal deaths in 2009; these are deaths attributed to pregnancy-related health conditions or events of delivery.

**Figure 21. Infant, Neonatal, and Fetal Mortality Rates, Wisconsin, 1970-2009**

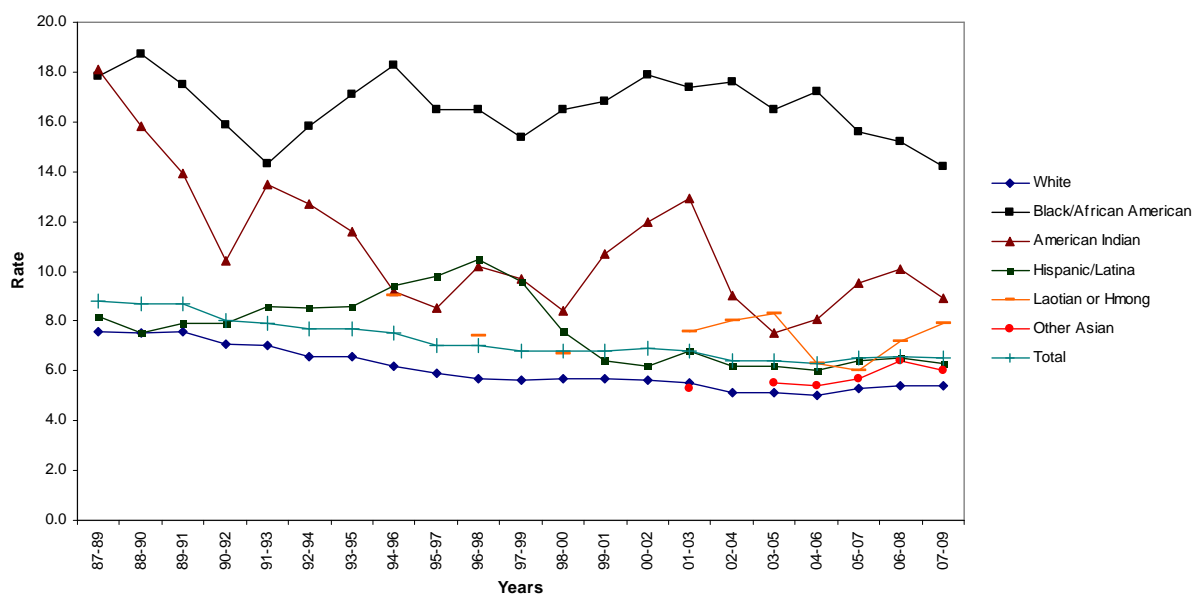


Source: Resident birth certificates, matched birth-death file, and fetal death file, Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: An infant death is one that occurs before one year of age. The infant death rate is the number of resident infant deaths divided by total resident live births times 1,000. For detailed information on 2009 infant, neonatal and fetal deaths, see Table 4-8, pages 102-103.

- The black/African American infant mortality rate for 2009 was 14.3 deaths per 1,000 births to black/African American women, compared to 13.8 in 2008 and 14.9 in 1999. The 2009 white infant mortality rate was 4.9 deaths per 1,000 births to white women, compared to 5.9 in 2008 and 5.7 in 1999. The Hispanic/Latino infant mortality rate for 2009 was 5.5 deaths per 1,000 births to Hispanic/Latina women, compared to 7.0 in 2008 and 7.7 in 1999. The number of American Indian infant deaths in any single year was too small to present a rate.
- Based on three-year rolling average infant mortality rates (Figure 22), American Indian infant mortality has dropped markedly since 1987. The rate was 18.1 per 1,000 live births in 1987-1989 and 8.9 per 1,000 in 2007-2009.
- The black/African American infant mortality rate has remained much higher than rates for other populations in Wisconsin for at least two decades. The three-year average rate was 17.8 per 1,000 live births in 1987-1989 and 14.2 in 2007-2009.
- The Laotian or Hmong and Other Asian infant mortality rates are not available for all years. The number of infant deaths in these race/ethnicity groups is often too small to present a rate. In 2007-2009, the Laotian or Hmong infant mortality rate was 7.9 per 1,000 live births compared to 7.6 in 2001-2003. The Other Asian infant mortality rate in 2007-2009 was 6.0 per 1,000 live births compared to 5.7 in 2005-2007.
- The Hispanic/Latino infant mortality rate fluctuated; it was 8.2 per 1,000 live births in 1987-1989 and 6.3 per 1,000 in 2007-2009. Total infant mortality and white infant mortality declined gradually over the 1987-2009 period, to 6.5 and 5.4, respectively.

**Figure 22. Infant Mortality Rates by Race/Ethnicity, Three-Year Rolling Averages, Wisconsin, 1987-2009**



Source: Resident birth certificates, matched birth-death file, Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: An infant death is one that occurs before one year of age. The infant death rate is the number of resident infant deaths divided by total resident live births times 1,000. For detailed information on 2009 infant, neonatal and fetal deaths, see Table 4-8, pages 102-103. Total includes all infant deaths, including those in groups with annual numbers too small to be shown separately in all years.

- In general, infants born to teenagers are at a higher risk of death than infants born to older mothers. In 2009, the infant mortality rate was 11.3 per 1,000 births among infants born to mothers aged less than 20, compared with 5.5 per 1,000 among infants born to women aged 20 and older.
- From 1990-1992 to 2007-2009, the non-Hispanic white infant mortality rate for mothers less than 20 years old dropped from 12.4 to 10.5 deaths per 1,000 live births. The black/African American infant mortality rate for mothers less than 20 dropped from a high of 21.4 in 2001-2003 to 13.7 in 2007-2009. The Hispanic/Latino infant mortality rate for mothers less than 20 dropped from 17.3 deaths per 1,000 live births in 1997-1999 to 8.7 in 2007-2009.
- Infant mortality rates also declined for most groups of mothers age 20 and older. In 1990-1992, the non-Hispanic white infant mortality rate for mothers aged 20 or older was 6.6. This rate dropped to 5.1 in 2007-2009. The Hispanic/Latino infant mortality rate for mothers aged 20 or older was 6.7 in 1990-1992 and 5.9 in 2007-2009. The non-Hispanic black/African American infant mortality rate for mothers aged 20 or older was 15.5 in 1990-1992 and 14.3 in 2007-2009.

**Table 1-9. Infant Mortality Rates by Race/Ethnicity and Mother's Age, Three-Year Rolling Averages, Wisconsin 1990-2009**

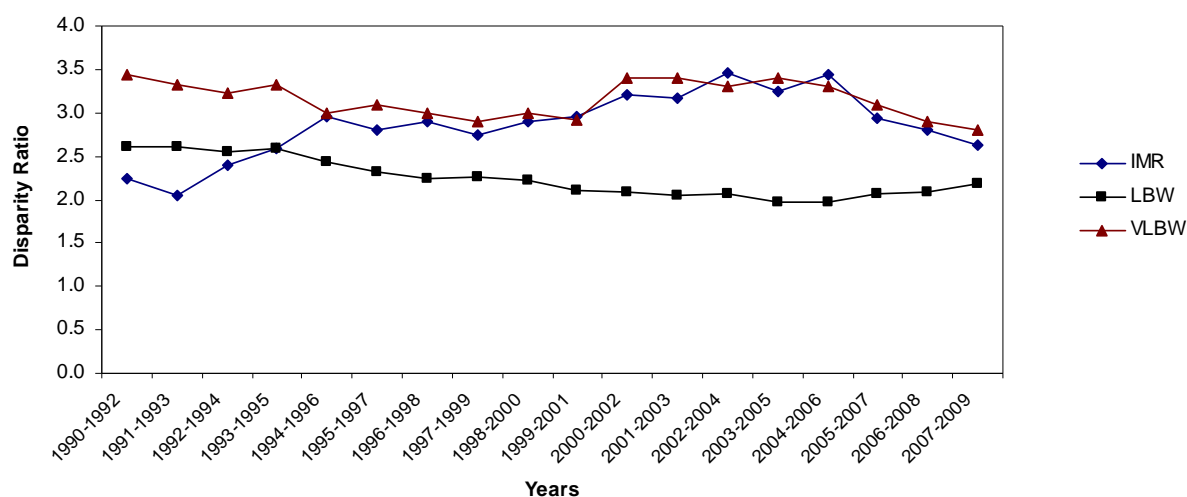
Years	Non-Hispanic White		Non-Hispanic Black/African American		Hispanic/Latino	
	<20	20+	<20	20+	<20	20+
1990-1992	12.4	6.6	16.5	15.5	-	6.7
1991-1993	11.3	6.7	14.4	14.3	-	7.2
1992-1994	10.5	6.3	15.3	16.0	14.4	6.9
1993-1995	10.5	6.3	16.4	17.4	-	8.3
1994-1996	10.6	5.8	17.0	18.8	-	9.3
1995-1997	10.3	5.5	16.5	16.6	-	10.2
1996-1998	10.0	5.3	17.5	16.2	14.7	9.4
1997-1999	9.9	5.3	17.9	14.4	17.3	7.7
1998-2000	9.9	5.3	17.9	16.0	14.8	5.8
1999-2001	9.4	5.4	18.1	16.3	10.2	5.6
2000-2002	9.3	5.3	19.4	17.4	-	6.1
2001-2003	8.4	5.3	21.4	16.1	8.4	6.5
2002-2004	8.7	4.8	21.0	16.5	8.4	5.7
2003-2005	9.0	4.9	20.1	15.4	8.9	5.7
2004-2006	8.5	4.8	17.8	16.9	7.3	5.8
2005-2007	9.5	5.0	14.2	15.9	7.5	6.3
2006-2008	8.6	5.2	13.3	15.6	9.4	6.0
2007-2009	10.5	5.1	13.7	14.3	8.7	5.9

Source: Resident birth certificates, matched birth-death file, and fetal death file, Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: A '-' indicates that there were too few infant deaths to present a rate. An infant death is one that occurs before one year of age. The infant death rate is the number of resident infant deaths divided by total resident live births times 1,000. For detailed information on 2009 infant, neonatal and fetal deaths, see Table 4-8, pages 102-103.

- The disparity ratio between the black/African American infant mortality rate and the white infant mortality rate increased from 2.2 in 1990-1992 to 2.6 in 2007-2009 (Figure 23). The disparity ratio is the black/African American rate divided by the white rate, and is one measure of the difference in magnitude between the two rates.
- In contrast, the disparity ratio between the black/African American low birthweight rate and the white low birthweight rate gradually decreased over the 15-year period but increased again in 2007-2009 to 2.2 (Figure 23 and Table 1-7).
- The disparity ratio between the black/African American very low birthweight rate and the white very low birthweight rate decreased from 3.4 in 1990-1992 to 2.8 in 2007-2009.

**Figure 23. Black or African American/White Disparity Ratio for Infant Mortality, Low Birthweight and Very Low Birthweight, Three-Year Rolling Averages, Wisconsin, 1990-2009**



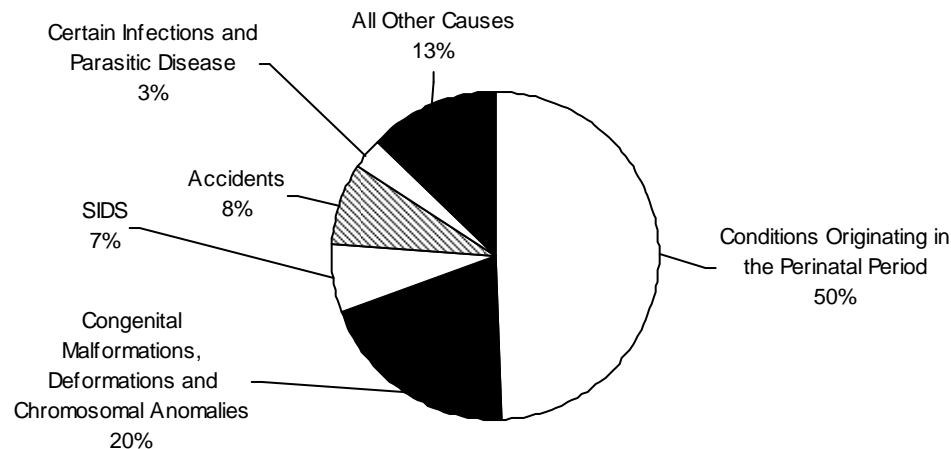
Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Note: The disparity ratio is the black/African American rate divided by the white rate.

## Causes of Infant Death

- “Conditions originating in the perinatal period” accounted for 50 percent of infant deaths in 2009 (Figure 24). This category includes a variety of conditions that occur just before, during and after birth, such as pregnancy complications; complications of the placenta, cord and membranes; and unspecified prematurity and low birthweight (Figure 25).
- Congenital malformations, deformations and chromosomal anomalies accounted for 20 percent of infant deaths in 2009.
- Seven percent of infant deaths in 2009 were attributed to Sudden Infant Death Syndrome (SIDS); another 8 percent of infant deaths were the result of accidents.

**Figure 24. Leading Causes of Infant Death, Wisconsin, 2009**



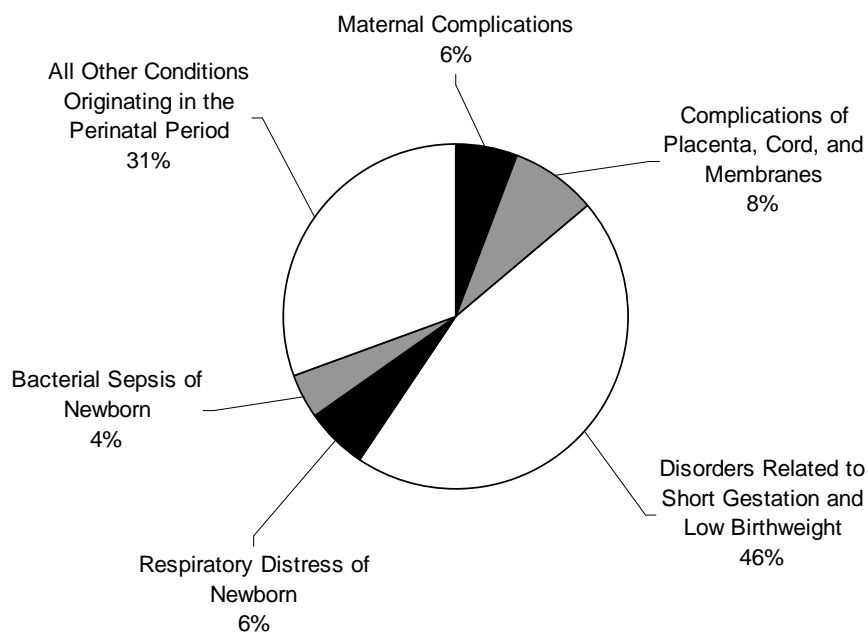
Source: Matched birth-death file, Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: Beginning with 1999 data, causes of death have been coded using the International Classification of Diseases, Tenth Revision (ICD 10). This may affect comparability with previous years for some categories of death. See Technical Notes, page 108.

Percents in this figure are based on all infant deaths.



**Figure 25. Causes of Infant Death: Conditions Originating in the Perinatal Period, Wisconsin, 2009**



Source: Matched birth-death file, Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: Beginning with 1999 data, causes of death have been coded using the International Classification of Diseases, Tenth Revision (ICD 10). This may affect comparability with previous years for some categories of death. See Technical Notes, page 108.

Percents in this figures are based on those infant deaths categorized as “conditions originating in the perinatal period.”

**Table 2-1. Population, Births by Sex, Crude and General Fertility Rates by County of Residence, Wisconsin 2009**

<b>County</b>	<b>Population Estimate</b>	<b>Total Births</b>	<b>Male</b>	<b>Female</b>	<b>Crude Birth Rate</b>	<b>General Fertility Rate</b>
<b>Total</b>	5,679,639	70,824	36,173	34,651	12.5	63.4
Adams	21,470	172	81	91	8.0	61.0
Ashland	16,769	207	108	99	12.3	63.4
Barron	47,397	499	268	231	10.5	59.2
Bayfield	15,963	133	78	55	8.3	54.6
Brown	246,466	3,428	1,760	1,668	13.9	67.4
Buffalo	14,004	148	70	78	10.6	60.8
Burnett	16,600	144	73	71	8.7	60.5
Calumet	46,116	584	297	287	12.7	64.9
Chippewa	61,828	758	392	366	12.3	69.6
Clark	34,417	574	288	286	16.7	90.3
Columbia	56,046	662	325	337	11.8	64.7
Crawford	17,385	185	87	98	10.6	64.8
Dane	479,942	6,124	3,126	2,998	12.8	56.6
Dodge	89,104	884	445	439	9.9	55.9
Door	29,647	271	143	128	9.1	65.1
Douglas	44,477	484	242	242	10.9	56.1
Dunn	43,549	455	238	217	10.4	47.6
Eau Claire	99,237	1,167	605	562	11.8	52.2
Florence	5,107	37	18	19	7.2	48.8
Fond du Lac	101,531	1,174	613	561	11.6	59.0
Forest	10,212	106	53	53	10.4	64.6
Grant	50,813	563	303	260	11.1	60.8
Green	36,448	436	215	221	12.0	65.9
Green Lake	19,323	210	102	108	10.9	68.6
Iowa	24,054	313	164	149	13.0	68.6
Iron	6,757	36	20	16	5.3	33.9
Jackson	20,186	259	136	123	12.8	76.4
Jefferson	81,168	997	519	478	12.3	60.3
Juneau	27,334	284	154	130	10.4	63.2
Kenosha	163,435	2,174	1,126	1,048	13.3	63.7
Kewaunee	21,115	227	113	114	10.8	58.6
La Crosse	113,586	1,372	705	667	12.1	55.0
Lafayette	16,298	206	110	96	12.6	70.9
Langlade	21,241	180	83	97	8.5	50.8
Lincoln	30,335	320	161	159	10.5	60.7
Manitowoc	83,572	813	433	380	9.7	54.3

(Continued)

**Table 2-1. Population, Births by Sex, Crude and General Fertility Rates by County of Residence, Wisconsin 2009**

County	Population Estimate	Total Births	Male	Female	Crude Birth Rate	General Fertility Rate
Marathon	134,963	1,664	881	783	12.3	64.5
Marinette	44,060	384	199	185	8.7	51.5
Marquette	15,263	154	82	72	10.1	63.5
Menominee	4,615	95	45	50	20.6	106.1
Milwaukee	939,935	15,248	7,720	7,528	16.2	76.2
Monroe	44,393	632	320	312	14.2	77.9
Oconto	38,722	414	204	210	10.7	59.6
Oneida	38,110	315	165	150	8.3	51.2
Outagamie	176,268	2,236	1,196	1,040	12.7	61.4
Ozaukee	86,978	783	394	389	9.0	50.7
Pepin	7,607	104	54	50	13.7	78.8
Pierce	40,519	416	233	183	10.3	46.0
Polk	45,552	512	272	240	11.2	64.2
Portage	70,404	808	419	389	11.5	53.9
Price	15,521	114	60	54	7.3	46.8
Racine	197,813	2,583	1,316	1,267	13.1	67.9
Richland	18,186	225	105	120	12.4	70.6
Rock	160,544	1,980	1,024	956	12.3	62.5
Rusk	15,250	169	85	84	11.1	67.3
St. Croix	81,056	1,141	556	585	14.1	69.0
Sauk	60,580	787	386	401	13.0	69.2
Sawyer	17,577	195	112	83	11.1	72.6
Shawano	42,234	432	224	208	10.2	58.4
Sheboygan	116,590	1,346	691	655	11.5	62.0
Taylor	19,862	249	127	122	12.5	70.5
Trempealeau	28,286	379	190	189	13.4	74.5
Vernon	29,737	441	221	220	14.8	86.7
Vilas	22,767	201	101	100	8.8	61.7
Walworth	101,476	1,145	585	560	11.3	58.7
Washburn	17,436	162	80	82	9.3	61.6
Washington	131,030	1,539	771	768	11.7	62.1
Waukesha	383,398	3,751	1,864	1,887	9.8	53.6
Waupaca	53,524	586	290	296	10.9	61.3
Waushara	25,196	234	106	128	9.3	62.6
Winnebago	165,180	1,961	1,001	960	11.9	58.1
Wood	76,075	853	440	413	11.2	61.8

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: The crude birth rate is the number of resident live births divided by the resident population times 1,000. The general fertility rate is the number of resident live births divided by the number of females ages 15-44 times 1,000. Population estimates are from the United States Census Bureau and the Wisconsin Department of Administration, Demographic Services Center; these estimates are provisional and subject to revision.

**Table 2-2. Population, Births and Crude Birth Rate by Selected Places of Residence, Wisconsin 2009**

City	Population Estimate	Births	Crude Birth Rate
Appleton	72,400	1,169	16.1
Beloit	37,000	570	15.4
Brookfield	39,600	275	6.9
Caledonia (V)	25,200	254	10.1
De Pere	22,780	320	14.0
Eau Claire	65,950	786	11.9
Fitchburg	23,520	417	17.7
Fond du Lac	43,600	644	14.8
Franklin	33,700	358	10.6
Grand Chute	20,550	128	6.2
Green Bay	103,500	1,950	18.8
Greenfield	36,300	391	10.8
Janesville	63,500	800	12.6
Kenosha	96,000	1,631	17.0
La Crosse	51,900	586	11.3
Madison	227,700	2,892	12.7
Manitowoc	34,700	385	11.1
Menomonee Falls (V)	34,600	366	10.6
Mequon/Thiensville	27,034	180	6.7
Milwaukee	584,000	11,130	19.1
Mount Pleasant (V)	26,100	284	10.9
Muskego	23,100	208	9.0
Neenah/Menasha	43,237	705	16.3
New Berlin	39,300	309	7.9
Oak Creek	32,600	439	13.5
Oshkosh	65,900	774	11.7
Racine	80,100	1,439	18.0
Sheboygan	50,400	732	14.5
South Milwaukee	21,250	233	11.0
Stevens Point	26,200	321	12.3
Sun Prairie	26,100	450	17.2
Superior	27,100	329	12.1
Watertown	23,165	335	14.5
Waukesha	68,800	1,008	14.7
Wausau	40,700	580	14.3
Wauwatosa	45,800	628	13.7
West Allis	60,600	825	13.6
West Bend	30,400	454	14.9

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: The crude birth rate is the number of resident live births divided by the resident population times 1,000.

This table includes cities, townships (T) and villages (V) with a population of 20,000 or more according to population estimates from the United States Census Bureau and the Wisconsin Department of Administration, Demographic Services Center. These estimates are provisional and subject to revision. Combined areas include: Mequon (C) with Thiensville (V); and Neenah (C) with Menasha (C).

**Table 2-3. Number of Births by County of Residence and Selected Minor Civil Divisions, Wisconsin 2009**

<b>STATE TOTAL</b>	70,824	Kiel (C) (Pt.)	2	Mount Horeb (V)	98
Urban*	56,498	Menasha (C) (Pt.)	40	Oregon (T)	52
Balance of State	14,326	New Holstein (C)	42	Oregon (V)	101
		Balance of County	139	Pleasant Springs (T)	17
<b>ADAMS</b>	172			Springfield (T)	20
Rome (T)	14	<b>CHIPPEWA</b>	758	Stoughton (C)	158
Balance of County	158	Bloomer (C)	50	Sun Prairie (C)	450
		Chippewa Falls (C)	223	Verona (C)	86
<b>ASHLAND</b>	207	Eagle Point (T)	32	Waunakee (V)	124
Ashland (C) (Pt.)	104	Eau Claire (C) (Pt.)	29	Westport (T)	34
Balance of County	103	Lafayette (T)	49	Windsor (T)	51
		Lake Hallie (V)	51	Balance of County	587
<b>BARRON</b>	499	Stanley (C) (Pt.)	45		
Barron (C)	41	Wheaton (T)	25	<b>DODGE</b>	884
Rice Lake (C)	102	Balance of County	254	Beaver Dam (C)	220
Rice Lake (T)	31			Beaver Dam (T)	24
Balance of County	325	<b>CLARK</b>	574	Columbus (C) (Pt.)	5
		Neillsville (C)	28	Fox Lake (T)	5
<b>BAYFIELD</b>	133	Balance of County	546	Horicon (C)	33
Ashland (C) (Pt.)	4			Juneau (C)	32
Balance of County	129	<b>COLUMBIA</b>	662	Mayville (C)	56
		Columbus (C) (Pt.)	73	Watertown (C) (Pt.)	107
<b>BROWN</b>	3,428	Lodi (C)	50	Waupun (C) (Pt.)	64
Allouez (V)	121	Lodi (T)	25	Balance of County	338
Ashwaubenon (V)	150	Pacific (T)	9		
Bellevue (V)	143	Portage (C)	128	<b>DOOR</b>	271
De Pere (C)	320	Poynette (V)	39	Sevastopol (T)	10
Green Bay (C)	1,950	Balance of County	338	Sturgeon Bay (C)	132
Hobart (V)	60			Balance of County	129
Howard (V) (Pt.)	169	<b>CRAWFORD</b>	185		
Lawrence (T)	47	Prairie du Chien (C)	74	<b>DOUGLAS</b>	484
Ledgeview (T)	66	Balance of County	111	Superior (C)	329
Pittsfield (T)	12			Balance of County	155
Pulaski (V) (Pt.)	55	<b>DANE</b>	6,124		
Scott (T)	30	Bristol (T)	36	<b>DUNN</b>	455
Suamico (V)	91	Burke (T)	38	Menomonie (C)	144
Wrightstown (V) (Pt.)	40	Cottage Grove (T)	51	Menomonie (T)	36
Balance of County	174	Cottage Grove (V)	67	Balance of County	275
		Cross Plains (V)	43		
<b>BUFFALO</b>	148	De Forest (V)	140	<b>EAU CLAIRE</b>	1,167
Mondovi (C)	37	Dunn (T)	27	Altoona (C)	88
Balance of County	111	Edgerton (C) (Pt.)	4	Eau Claire (C) (Pt.)	757
		Fitchburg (C)	417	Pleasant Valley (T)	29
<b>BURNETT</b>	144	Madison (C)	2,892	Seymour (T)	21
		Madison (T)	145	Union (T)	34
<b>CALUMET</b>	584	Marshall (V)	54	Washington (T)	68
Appleton (C) (Pt.)	174	McFarland (V)	91	Balance of County	170
Brillion (C)	38	Middleton (C)	185		
Chilton (C)	51	Middleton (T)	68	<b>FLORENCE</b>	37
Harrison (T)	98	Monona (C)	88		

\* "Urban" is the sum of incorporated places having a population of 2,500 or more according to 2009 population estimates provided by the Wisconsin Department of Administration, Demographic Services Center.

(Continued)

**Table 2-3. Number of Births by County of Residence and Selected Minor Civil Divisions, Wisconsin 2009**

<b>FOND DU LAC</b>	1,174	<b>JUNEAU</b>	284	Balance of County	241
Empire (T)	13	Mauston (C)	58		
Fond du Lac (C)	644	Balance of County	226	<b>MARATHON</b>	1,664
Friendship (T)	15			Kronenwetter (V)	81
Kewaskum (V) (Pt.)	1	<b>KENOSHA</b>	2,174	Marshfield (C) (Pt.)	7
North Fond du Lac (V)	64	Bristol (T)	24	Mosinee (C)	83
Ripon (C)	69	Genoa City (V) (Pt.)	2	Rib Mountain (T)	52
Taycheedah (T)	29	Kenosha (C)	1,631	Rothschild (V)	55
Waupun (C) (Pt.)	46	Paddock Lake (V)	32	Wausau (C)	580
Balance of County	293	Pleasant Prairie (V)	190	Weston (V)	175
		Randall (T)	16	Balance of County	631
<b>FOREST</b>	106	Salem (T)	84		
		Somers (T)	59	<b>MARINETTE</b>	384
<b>GRANT</b>	563	Twin Lakes (V)	73	Marinette (C)	128
Boscobel (C)	36	Wheatland (T)	24	Peshtigo (C)	30
Lancaster (C)	57	Balance of County	39	Peshtigo (T)	27
Platteville (C)	110			Stephenson (T)	10
Balance of County	360	<b>KEWAUNEE</b>	227	Balance of County	189
		Algoma (C)	43		
<b>GREEN</b>	436	Kewaunee (C)	32	<b>MARQUETTE</b>	154
Brodhead (C) (Pt.)	48	Balance of County	152		
Monroe (C)	139			<b>MENOMINEE</b>	95
Balance of County	249	<b>LA CROSSE</b>	1,372	Menominee (T)	95
		Campbell (T)	46		
<b>GREEN LAKE</b>	210	Holland (T)	31	<b>MILWAUKEE</b>	15,248
Berlin (C) (Pt.)	71	Holmen (V)	148	Bayside (V) (Pt.)	37
Balance of County	139	La Crosse (C)	586	Brown Deer (V)	145
		Onalaska (C)	239	Cudahy (C)	239
<b>IOWA</b>	313	Onalaska (T)	83	Fox Point (V)	66
Dodgeville (C)	79	Shelby (T)	34	Franklin (C)	358
Mineral Point (C)	44	West Salem (V)	67	Glendale (C)	112
Balance of County	190	Balance of County	138	Greendale (V)	122
				Greenfield (C)	391
<b>IRON</b>	36	<b>LAFAYETTE</b>	206	Hales Corners (V)	81
				Milwaukee (C) (Pt.)	11,129
<b>JACKSON</b>	259	<b>LANGLADE</b>	180	Oak Creek (C)	439
Black River Falls (C)	66	Antigo (C)	89	Shorewood (V)	112
Brockway (T)	18	Balance of County	91	South Milwaukee (C)	233
Balance of County	175			St. Francis (C)	97
		<b>LINCOLN</b>	320	Wauwatosa (C)	628
<b>JEFFERSON</b>	997	Bradley (T)	22	West Allis (C)	825
Ft. Atkinson (C)	161	Merrill (C)	130	West Milwaukee (V)	64
Ixonia (T)	63	Merrill (T)	32	Whitefish Bay (V)	165
Jefferson (C)	115	Tomahawk (C)	41	Balance of County	5
Koshkonong (T)	23	Balance of County	95		
Lake Mills (C)	93			<b>MONROE</b>	632
Oakland (T)	16	<b>MANITOWOC</b>	813	Sparta (C)	170
Waterloo (C)	48	Kiel (C) (Pt.)	44	Sparta (T)	42
Watertown (C) (Pt.)	228	Manitowoc (C)	385	Tomah (C)	132
Whitewater (C) (Pt.)	15	Manitowoc Rapids (T)	15	Balance of County	288
Balance of County	235	Two Rivers (C)	128		

(Continued)

**Table 2-3. Number of Births by County of Residence and Selected Minor Civil Divisions, Wisconsin 2009**

<b>OCONTO</b>	414	River Falls (C) (Pt.)	113	Milton (T)	16
Chase (T)	40	Balance of County	200	Rock (T)	21
Little Suamico (T)	42			Balance of County	252
Oconto (C)	75	<b>POLK</b>	512		
Oconto Falls (C)	35	Alden (T)	14	<b>RUSK</b>	169
Balance of County	222	Amery (C)	36	Ladysmith (C)	44
		Osceola (T)	56	Balance of County	125
<b>ONEIDA</b>	315	Osceola (V)	26		
Minocqua (T)	31	Balance of County	380	<b>ST. CROIX</b>	1,141
Newbold (T)	24			Baldwin (V)	62
Pelican (T)	16	<b>PORTAGE</b>	808	Hudson (C)	286
Pine Lake (T)	26	Hull (T)	40	Hudson (T)	51
Rhineland (C)	118	Plover (V)	161	New Richmond (C)	188
Balance of County	100	Stevens Point (C)	321	North Hudson (V)	16
		Stockton (T)	23	Richmond (T)	15
<b>OUTAGAMIE</b>	2,236	Balance of County	263	River Falls (C) (Pt.)	57
Appleton (C) (Pt.)	954			Somerset (T)	83
Buchanan (T)	43	<b>PRICE</b>	114	St. Joseph (T)	24
Center (T)	20	Park Falls (C)	32	Star Prairie (T)	30
Combined Locks (V)	44	Balance of County	82	Troy (T)	11
Dale (T)	21			Balance of County	318
Ellington (T)	25	<b>RACINE</b>	2,583		
Freedom (T)	64	Burlington (C) (Pt.)	149	<b>SAUK</b>	787
Grand Chute (T)	128	Burlington (T)	61	Baraboo (C)	160
Greenville (T)	132	Caledonia (V)	254	Lake Delton (V)	37
Hortonville (V)	47	Dover (T)	32	Prairie du Sac (V)	53
Kaukauna (C)	256	Mt. Pleasant (V)	284	Reedsburg (C)	153
Kimberly (V)	67	Norway (T)	44	Sauk City (V)	42
Little Chute (V)	114	Racine (C)	1,439	Balance of County	342
New London (C) (Pt.)	34	Raymond (T)	18		
Oneida (T)	51	Rochester (T)	6	<b>SAWYER</b>	195
Seymour (C)	62	Sturtevant (V)	70	Hayward (T)	54
Wrightstown (V) (Pt.)	4	Union Grove (V)	59	Balance of County	141
Balance of County	170	Waterford (T)	52		
		Waterford (V)	53	<b>SHAWANO</b>	432
<b>OZAUKEE</b>	783	Yorkville (T)	26	Pulaski (V) (Pt.)	4
Bayside (V) (Pt.)	2	Balance of County	36	Shawano (C)	122
Cedarburg (C)	94			Wescott (T)	21
Cedarburg (T)	42	<b>RICHLAND</b>	225	Balance of County	285
Grafton (T)	37	Richland Center (C)	91		
Grafton (V)	123	Balance of County	134	<b>SHEBOYGAN</b>	1,346
Mequon (C)	143			Greenbush (T)	5
Port Washington (C)	135	<b>ROCK</b>	1,980	Howards Grove (V)	33
Saukville (V)	56	Beloit (C)	570	Lima (T)	20
Thiensville (V)	37	Beloit (T)	73	Oostburg (V)	47
Balance of County	114	Edgerton (C) (Pt.)	73	Plymouth (C)	120
		Evansville (C)	66	Plymouth (T)	28
<b>PEPIN</b>	104	Fulton (T)	28	Sheboygan (C)	732
		Janesville (C)	800	Sheboygan (T)	67
<b>PIERCE</b>	416	Janesville (T)	18	Sheboygan Falls (C)	77
Ellsworth (V)	30	Milton (C)	63	Wilson (T)	19
Prescott (C)	73			Balance of County	198

(Continued)

**Table 2-3. Number of Births by County of Residence and Selected Minor Civil Divisions, Wisconsin 2009**

<b>TAYLOR</b>	249	Erin (T)	21	Wales (V)	11
Medford (C)	51	Farmington (T)	24	Waukesha (C)	1,008
Balance of County	198	Germantown (V)	171	Waukesha (T)	86
		Hartford (C) (Pt.)	261	Balance of County	153
<b>TREMPEALEAU</b>	379	Hartford (T)	46		
		Jackson (T)	40	<b>WAUPACA</b>	586
<b>VERNON</b>	441	Jackson (V)	94	Clintonville (C)	80
Viroqua (C)	56	Kewaskum (V) (Pt.)	52	Dayton (T)	15
Balance of County	385	Polk (T)	29	Farmington (T)	16
		Richfield (V)	91	Mukwa (T)	20
<b>VILAS</b>	201	Slinger (V)	71	New London (C) (Pt.)	87
Arbor Vitae (T)	34	Trenton (T)	27	Waupaca (C)	106
Lac du Flambeau (T)	71	West Bend (C)	454	Balance of County	262
Lincoln (T)	4	West Bend (T)	30		
Balance of County	92	Balance of County	72	<b>WAUSHARA</b>	234
				Berlin (C) (Pt.)	3
<b>WALWORTH</b>	1,145	<b>WAUKESHA</b>	3,751	Balance of County	231
Bloomfield (T)	48	Brookfield (C)	275		
Burlington (C) (Pt.)	7	Brookfield (T)	49	<b>WINNEBAGO</b>	1,961
Delavan (C)	154	Delafield (C)	54	Algoma (T)	47
Delavan (T)	55	Delafield (T)	26	Appleton (C) (Pt.)	41
East Troy (T)	47	Eagle (T)	23	Clayton (T)	24
East Troy (V)	55	Elm Grove (V)	43	Menasha (C) (Pt.)	239
Elkhorn (C)	165	Genesee (T)	35	Menasha (T)	182
Geneva (T)	34	Hartland (V)	115	Neenah (C)	426
Genoa City (V) (Pt.)	61	Lisbon (T)	55	Neenah (T)	30
La Grange (T)	15	Menomonee Falls (V)	366	Omro (C)	37
Lake Geneva (C)	129	Merton (T)	42	Oshkosh (C)	774
Lyons (T)	27	Merton (V)	12	Oshkosh (T)	31
Mukwonago (V) (Pt.)	1	Milwaukee (C) (Pt.)	1	Winneconne (V)	28
Sugar Creek (T)	30	Mukwonago (T)	57	Balance of County	102
Walworth (V)	43	Mukwonago (V) (Pt.)	81		
Whitewater (C) (Pt.)	87	Muskego (C)	208	<b>WOOD</b>	853
Williams Bay (V)	20	New Berlin (C)	309	Grand Rapids (T)	64
Balance of County	167	Oconomowoc (C)	224	Marshfield (C) (Pt.)	226
		Oconomowoc (T)	79	Nekoosa (C)	35
<b>WASHBURN</b>	162	Ottawa (T)	14	Saratoga (T)	37
Spooner (C)	34	Pewaukee (C)	157	Wisconsin Rapids (C)	261
Balance of County	128	Pewaukee (V)	78	Balance of County	230
		Summit (T)	33		
<b>WASHINGTON</b>	1,539	Sussex (V)	123		
Addison (T)	38	Vernon (T)	34		
Barton (T)	18				

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Note: Minor civil divisions are City (C), Village (V), Township (T). Places located in more than one county are indicated by (Pt.) (an abbreviation of "Part").



**Table 2-4. Births by County, City and Facility of Occurrence, Wisconsin 2009**

<b>County</b>	<b>City</b>	<b>Hospital</b>	<b>Births</b>
Ashland	Ashland	Memorial Medical Center	276
Barron	Cumberland	Cumberland Memorial Hospital	56
	Rice Lake	Lakeview Medical Center	416
	Barron	Barron Memorial Medical Center	103
Brown	Green Bay	Aurora Baycare Medical Center	1,658
	Green Bay	Bellin Health System	1,261
	Green Bay	St Marys Hospital Medical Center	691
	Green Bay	St Vincent Hospital	944
Burnett	Grantsburg	Burnett Medical Center, Inc.	58
Chippewa	Chippewa Falls	St Josephs Hospital	487
Clark	Neillsville	Memorial Hospital, Inc.	34
Columbia	Columbus	Columbus Community Hospital, Inc.	49
	Portage	Divine Savior Healthcare	269
Crawford	Prairie du Chien	Prairie du Chien Memorial Hospital	141
Dane	Madison	Meriter Hospital, Inc	3,861
	Madison	St Marys Hospital Medical Center	3,356
	Middleton	Madison Birth Center	49
Dodge	Beaver Dam	Beaver Dam Community Hospital	423
	Watertown	Watertown Memorial Hospital	322
	Waupun	Waupun Memorial Hospital	132
Door	Sturgeon Bay	Door County Memorial Hospital	186
Douglas	Superior	St Marys Hospital of Superior	1
Dunn	Menomonie	Red Cedar Medical Center	340
Eau Claire	Eau Claire	Luther Hospital	850
	Eau Claire	Sacred Heart Hospital	1,022
Fond du Lac	Fond du Lac	St. Agnes Hospital	906
Grant	Boscobel	Boscobel Area Health Care	49
	Lancaster	Grant Regional Health Center, Inc.	140
	Platteville	Southwest Health Center	152
Green	Monroe	The Monroe Clinic	453
Green Lake	Berlin	Berlin Memorial Hospital	223
Iowa	Dodgeville	Upland Hills Health, Inc.	272
Jackson	Black River Falls	Black River Memorial Hospital	154
Jefferson	Fort Atkinson	Fort Atkinson Memorial Hospital	516
Juneau	Mauston	Hess Memorial Hospital	184
Kenosha	Kenosha	Aurora Medical Center	905
	Kenosha	United Hospital Systems-Keno Med Ctr Camp	1,035
La Crosse	La Crosse	Gundersen Lutheran Medical Center	1,566
	La Crosse	Franciscan Skemp Healthcare	921
Lafayette	Darlington	Memorial Hospital of Lafayette County	56
Langlade	Antigo	Langlade Memorial Hospital	179
Lincoln	Tomahawk	Sacred Heart Hospital	1
Manitowoc	Manitowoc	Holy Family Memorial Medical Center	264
	Two Rivers	Aurora Medical Center	385
Marathon	Wausau	Wausau Hospital	1,202
	Weston	St Clares Hospital	769
Marinette	Marinette	Bay Area Medical Center	344
Milwaukee	Cudahy	Aurora St. Lukes South Shore	2

(Continued)

**Table 2-4. Births by County, City and Facility of Occurrence, Wisconsin 2009**

County	City	Hospital	Births
	Milwaukee	Aurora Sinai Medical Center, Inc.	2,882
	Milwaukee	St. Francis Hospital	989
	Milwaukee	St. Josephs Regional Medical Center	3,607
	Milwaukee	St. Marys Hospital	3,508
	Wauwatosa	Children's Hospital of Wisconsin	1
	Wauwatosa	Froedert Memorial Lutheran Hospital	1,903
	West Allis	West Allis Memorial Hospital	3,434
Monroe	Tomah	Tomah Memorial Hospital, Inc.	339
Oconto	Oconto Falls	Community Memorial Hospital	108
Oneida	Rhineland	Sacred Heart-St Marys Hospital, Inc.	394
	Woodruff	Howard Young Medical Center	337
Outagamie	Appleton	Appleton Medical Center	1,084
	Appleton	St Elizabeth Hospital	1,163
	New London	New London Family Medical Center	134
Ozaukee	Mequon	The Columbia Center	922
Polk	Amery	Amery Regional Medical Center	178
	Osceola	Osceola Medical Center	68
	Saint Croix	St Croix Regional Medical Center	333
Portage	Stevens Point	St. Michaels Hospital	608
Price	Park Falls	Flambeau Hospital, Inc.	2
Racine	Burlington	Aurora Memorial Hospital Of Burlington	339
	Racine	All Saints-St. Lukes Health Pavilion	1,904
Richland	Richland Center	The Richland Hospital	193
Rock	Beloit	Beloit Memorial Hospital, Inc.	657
	Janesville	Mercy Health System	1,133
Rusk	Ladysmith	Rusk County Memorial Hospital	75
Sauk	Baraboo	St Clare Hospital and Health Services	285
	Prairie du Sac	Sauk Prairie Memorial Hospital	292
	Reedsburg	Reedsburg Area Medical Center	289
Sawyer	Hayward	Hayward Area Memorial Hospital	174
Shawano	Shawano	Shawano Medical Center	360
Sheboygan	Sheboygan	Aurora Sheboygan Memorial Medical Center	1,077
	Sheboygan	St. Nicholas Hospital	299
St.Croix	Baldwin	Baldwin Area Medical Center	86
	Hudson	Hudson Hospital	472
	New Richmond	Westfields Hospital	95
	River Falls	River Falls Area Hospital	240
Taylor	Medford	Memorial Health Center, Inc.	202
Trempealeau	Arcadia	Franciscan Skemp Healthcare-Arcadia	83
Vernon	Hillsboro	St Josephs Community Health Services	22
	La Farge	The LaFarge Clinic	61
	Viroqua	Vernon Memorial Hospital	210
Walworth	Elkhorn	Aurora Lakeland Medical Center	788
Washburn	Shell Lake	Indianhead Medical Center, Inc.	12
	Spooner	Spooner Health System	74
Washington	Hartford	Aurora Medical Center	229

(Continued)

**Table 2-4. Births by County, City and Facility of Occurrence, Wisconsin 2009**

<b>County</b>	<b>City</b>	<b>Hospital</b>	<b>Births</b>
Waukesha	West Bend	St. Josephs Community Hospital	776
	Brookfield	Wheaten Franciscan – St. Joseph/Elmbrook Unit	488
	Menomonee Falls	Community Memorial Hospital	1,013
	Oconomowoc	Oconomowoc Memorial Hospital	740
	Waukesha	Waukesha Memorial Hospital	2026
Waupaca	Waupaca	Riverside Medical Center	172
Winnebago	Neenah	Theda Clark Regional Medical Center	1,468
	Oshkosh	Aurora Medical Center Of Oshkosh	740
	Oshkosh	Mercy Medical Center	570
Wood	Marshfield	St. Josephs Hospital	1,058
	Wisconsin Rapids	Riverview Hospital Association	487

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Note: Number shown includes all births that occurred at the hospital, including births to women who were not Wisconsin residents.

Table 2-5. Home Births by County of Birth, Wisconsin 2009

County of Birth	Number of Births	County of Birth	Number of Births
Adams	3	Marathon	39
Ashland	1	Marinette	3
Barron	5	Marquette	12
Bayfield	3	Menominee	-
Brown	11	Milwaukee	51
Buffalo	3	Monroe	51
Burnett	-	Oconto	9
Calumet	5	Oneida	1
Chippewa	21	Outagamie	15
Clark	197	Ozaukee	7
Columbia	21	Pepin	63
Crawford	4	Pierce	4
Dane	66	Polk	4
Dodge	7	Portage	13
Door	5	Price	1
Douglas	2	Racine	5
Dunn	4	Richland	5
Eau Claire	30	Rock	18
Florence	-	Rusk	13
Fond du Lac	11	St. Croix	4
Forest	-	Sauk	27
Grant	44	Sawyer	2
Green	7	Shawano	15
Green Lake	43	Sheboygan	11
Iowa	6	Taylor	14
Iron	-	Trempealeau	19
Jackson	17	Vernon	98
Jefferson	6	Vilas	3
Juneau	1	Walworth	8
Kenosha	8	Washburn	3
Kewaunee	1	Washington	17
La Crosse	10	Waukesha	22
Lafayette	14	Waupaca	21
Langlade	-	Waushara	11
Lincoln	5	Winnebago	10
Manitowoc	9	Wood	7
		<b>Total</b>	<b>1,176</b>

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: This table shows the number of Wisconsin resident births in 2009 that occurred at home by the county in which the birth occurred. Almost all births (69,491 or 98 percent) occurred in hospitals. A dash (-) indicates there were no home births in that county.

**Table 2-6. Number of Births by Age of Mother and County of Residence, Wisconsin 2009**

County	Total	< 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+
<b>Total</b>	<b>70,824</b>	<b>61</b>	<b>1,608</b>	<b>4,186</b>	<b>15,956</b>	<b>22,420</b>	<b>17,569</b>	<b>7,372</b>	<b>1,527</b>	<b>107</b>
Adams	172	-	7	27	48	47	26	16	1	-
Ashland	207	-	4	9	56	79	43	13	3	-
Barron	499	-	4	32	155	158	104	34	12	-
Bayfield	133	-	3	7	29	50	26	13	5	-
Brown	3,428	2	83	197	767	1,144	856	310	63	6
Buffalo	148	-	2	5	28	58	37	16	2	-
Burnett	144	-	5	12	45	46	26	9	1	-
Calumet	584	-	4	16	94	220	180	57	12	1
Chippewa	758	-	11	42	184	281	170	59	10	1
Clark	574	-	5	28	146	185	115	69	24	2
Columbia	662	-	7	31	146	223	170	73	11	1
Crawford	185	-	1	11	58	57	37	16	5	-
Dane	6,124	6	88	236	947	1,827	1,986	870	147	17
Dodge	884	-	8	43	214	325	192	81	21	-
Door	271	-	3	10	64	87	70	27	10	-
Douglas	484	-	12	35	144	164	92	30	5	2
Dunn	455	-	7	21	110	153	115	44	4	1
Eau Claire	1,167	1	17	49	293	414	261	107	22	2
Florence	37	-	1	2	8	14	9	2	1	-
Fond du Lac	1,174	1	14	83	265	414	278	103	16	-
Forest	106	-	5	9	37	33	19	3	-	-
Grant	563	-	5	26	126	216	124	57	8	-
Green	436	-	12	25	82	146	115	47	9	-
Green Lake	210	-	1	14	46	69	49	26	5	-
Iowa	313	-	1	11	66	116	76	34	9	-
Iron	36	-	-	2	8	14	7	3	2	-
Jackson	259	-	5	17	75	79	57	23	2	1
Jefferson	997	-	13	54	205	358	249	85	33	-
Juneau	284	-	9	18	88	93	50	23	3	-
Kenosha	2,174	2	72	171	530	638	484	229	48	-
Kewaunee	227	-	2	8	48	87	55	22	5	-
La Crosse	1,372	-	19	71	278	442	379	155	28	-
Lafayette	206	-	2	6	58	69	36	29	4	2
Langlade	180	-	11	8	44	61	35	17	4	-
Lincoln	320	1	2	26	80	110	78	19	4	-
Manitowoc	813	1	18	42	196	261	200	77	18	-
Marathon	1,664	1	27	97	382	594	351	185	24	3
Marinette	384	-	8	29	100	123	79	32	12	-
Marquette	154	1	3	7	39	55	36	11	2	-
Menominee	95	-	10	12	38	16	13	6	-	-
Milwaukee	15,248	33	644	1,294	3,914	4,294	3,321	1,420	287	32
Monroe	632	-	15	36	184	196	119	62	17	3

(Continued)

**Table 2-6. Number of Births by Age of Mother and County of Residence, Wisconsin 2009**

County	Total	< 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+
Oconto	414	-	4	31	106	127	97	35	10	1
Oneida	315	-	6	22	75	104	67	37	3	1
Outagamie	2,236	-	43	104	464	734	619	233	39	-
Ozaukee	783	-	4	9	95	228	255	150	39	2
Pepin	104	-	1	5	20	46	22	10	-	-
Pierce	416	-	3	15	75	147	120	51	5	-
Polk	512	-	6	37	124	172	111	49	11	2
Portage	808	-	10	34	181	290	214	64	15	-
Price	114	-	1	5	30	39	31	5	2	1
Racine	2,583	3	85	177	644	780	620	224	47	2
Richland	225	-	2	8	60	86	46	17	6	-
Rock	1,980	-	55	174	510	617	427	162	32	2
Rusk	169	-	3	14	43	55	43	8	3	-
St. Croix	1,141	-	6	21	176	412	355	140	30	1
Sauk	787	-	9	50	211	264	158	81	14	-
Sawyer	195	1	5	17	62	51	38	20	1	-
Shawano	432	-	9	23	116	159	77	36	11	1
Sheboygan	1,346	1	30	75	295	453	337	124	30	1
Taylor	249	-	4	8	66	85	64	16	5	1
Trempealeau	379	1	6	17	103	120	94	25	12	1
Vernon	441	-	8	12	117	133	91	63	17	-
Vilas	201	-	5	20	61	60	29	20	5	1
Walworth	1,145	-	19	49	270	377	259	137	32	2
Washburn	162	-	3	8	48	55	28	17	3	-
Washington	1,539	-	11	52	217	500	482	222	53	2
Waukesha	3,751	2	42	89	474	1,105	1,281	608	143	7
Waupaca	586	3	13	42	136	206	131	47	7	1
Waushara	234	-	2	22	62	68	47	28	5	-
Winnebago	1,961	1	31	109	462	641	503	178	35	1
Wood	853	-	12	58	228	290	198	51	13	3

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: Included in the total column are 18 births for which age of mother was not reported. A dash (-) indicates that there were no births in that category.

**Table 2-7. Percent of Births by Age of Mother and County of Residence, Wisconsin 2009**

County	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+
<b>Total</b>	<b>70,824</b>	<b>0.1%</b>	<b>2.3%</b>	<b>5.9%</b>	<b>22.5%</b>	<b>31.7%</b>	<b>24.8%</b>	<b>10.4%</b>	<b>2.2%</b>	<b>0.2%</b>
Adams	172	-	4.1	15.7	27.9	27.3	15.1	9.3	0.6	-
Ashland	207	-	1.9	4.3	27.1	38.2	20.8	6.3	1.4	-
Barron	499	-	0.8	6.4	31.1	31.7	20.8	6.8	2.4	-
Bayfield	133	-	2.3	5.3	21.8	37.6	19.5	9.8	3.8	-
Brown	3,428	0.1	2.4	5.7	22.4	33.4	25.0	9.0	1.8	0.2
Buffalo	148	-	1.4	3.4	18.9	39.2	25.0	10.8	1.4	-
Burnett	144	-	3.5	8.3	31.3	31.9	18.1	6.3	0.7	-
Calumet	584	-	0.7	2.7	16.1	37.7	30.8	9.8	2.1	0.2
Chippewa	758	-	1.5	5.5	24.3	37.1	22.4	7.8	1.3	0.1
Clark	574	-	0.9	4.9	25.4	32.2	20.0	12.0	4.2	0.3
Columbia	662	-	1.1	4.7	22.1	33.7	25.7	11.0	1.7	0.2
Crawford	185	-	0.5	5.9	31.4	30.8	20.0	8.6	2.7	-
Dane	6,124	0.1	1.4	3.9	15.5	29.8	32.4	14.2	2.4	0.3
Dodge	884	-	0.9	4.9	24.2	36.8	21.7	9.2	2.4	-
Door	271	-	1.1	3.7	23.6	32.1	25.8	10.0	3.7	-
Douglas	484	-	2.5	7.2	29.8	33.9	19.0	6.2	1.0	0.4
Dunn	455	-	1.5	4.6	24.2	33.6	25.3	9.7	0.9	0.2
Eau Claire	1,167	0.1	1.5	4.2	25.1	35.5	22.4	9.2	1.9	0.2
Florence	37	-	2.7	5.4	21.6	37.8	24.3	5.4	2.7	-
Fond du Lac	1,174	0.1	1.2	7.1	22.6	35.3	23.7	8.8	1.4	-
Forest	106	-	4.7	8.5	34.9	31.1	17.9	2.8	-	-
Grant	563	-	0.9	4.6	22.4	38.4	22.0	10.1	1.4	-
Green	436	-	2.8	5.7	18.8	33.5	26.4	10.8	2.1	-
Green Lake	210	-	0.5	6.7	21.9	32.9	23.3	12.4	2.4	-
Iowa	313	-	0.3	3.5	21.1	37.1	24.3	10.9	2.9	-
Iron	36	-	-	5.6	22.2	38.9	19.4	8.3	5.6	-
Jackson	259	-	1.9	6.6	29.0	30.5	22.0	8.9	0.8	0.4
Jefferson	997	-	1.3	5.4	20.6	35.9	25.0	8.5	3.3	-
Juneau	284	-	3.2	6.3	31.0	32.7	17.6	8.1	1.1	-
Kenosha	2,174	0.1	3.3	7.9	24.4	29.3	22.3	10.5	2.2	-
Kewaunee	227	-	0.9	3.5	21.1	38.3	24.2	9.7	2.2	-
La Crosse	1,372	-	1.4	5.2	20.3	32.2	27.6	11.3	2.0	-
Lafayette	206	-	1.0	2.9	28.2	33.5	17.5	14.1	1.9	1.0
Langlade	180	-	6.1	4.4	24.4	33.9	19.4	9.4	2.2	-
Lincoln	320	0.3	0.6	8.1	25.0	34.4	24.4	5.9	1.3	-
Manitowoc	813	0.1	2.2	5.2	24.1	32.1	24.6	9.5	2.2	-
Marathon	1,664	0.1	1.6	5.8	23.0	35.7	21.1	11.1	1.4	0.2
Marinette	384	-	2.1	7.6	26.0	32.0	20.6	8.3	3.1	-
Marquette	154	0.6	1.9	4.5	25.3	35.7	23.4	7.1	1.3	-
Menominee	95	-	10.5	12.6	40.0	16.8	13.7	6.3	-	-
Milwaukee	15,248	0.2	4.2	8.5	25.7	28.2	21.8	9.3	1.9	0.2
Monroe	632	-	2.4	5.7	29.1	31.0	18.8	9.8	2.7	0.5

(Continued)

**Table 2-7. Percent of Births by Age of Mother and County of Residence, Wisconsin 2009**

County	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+
Oconto	414	-	1.0	7.5	25.6	30.7	23.4	8.5	2.4	0.2
Oneida	315	-	1.9	7.0	23.8	33.0	21.3	11.7	1.0	0.3
Outagamie	2,236	-	1.9	4.7	20.8	32.8	27.7	10.4	1.7	-
Ozaukee	783	-	0.5	1.1	12.1	29.1	32.6	19.2	5.0	0.3
Pepin	104	-	1.0	4.8	19.2	44.2	21.2	9.6	-	-
Pierce	416	-	0.7	3.6	18.0	35.3	28.8	12.3	1.2	-
Polk	512	-	1.2	7.2	24.2	33.6	21.7	9.6	2.1	0.4
Portage	808	-	1.2	4.2	22.4	35.9	26.5	7.9	1.9	-
Price	114	-	0.9	4.4	26.3	34.2	27.2	4.4	1.8	0.9
Racine	2,583	0.1	3.3	6.9	24.9	30.2	24.0	8.7	1.8	0.1
Richland	225	-	0.9	3.6	26.7	38.2	20.4	7.6	2.7	-
Rock	1,980	-	2.8	8.8	25.8	31.2	21.6	8.2	1.6	0.1
Rusk	169	-	1.8	8.3	25.4	32.5	25.4	4.7	1.8	-
St. Croix	1,141	-	0.5	1.8	15.4	36.1	31.1	12.3	2.6	0.1
Sauk	787	-	1.1	6.4	26.8	33.5	20.1	10.3	1.8	-
Sawyer	195	0.5	2.6	8.7	31.8	26.2	19.5	10.3	0.5	-
Shawano	432	-	2.1	5.3	26.9	36.8	17.8	8.3	2.5	0.2
Sheboygan	1,346	0.1	2.2	5.6	21.9	33.7	25.0	9.2	2.2	0.1
Taylor	249	-	1.6	3.2	26.5	34.1	25.7	6.4	2.0	0.4
Trempealeau	379	0.3	1.6	4.5	27.2	31.7	24.8	6.6	3.2	0.3
Vernon	441	-	1.8	2.7	26.5	30.2	20.6	14.3	3.9	-
Vilas	201	-	2.5	10.0	30.3	29.9	14.4	10.0	2.5	0.5
Walworth	1,145	-	1.7	4.3	23.6	32.9	22.6	12.0	2.8	0.2
Washburn	162	-	1.9	4.9	29.6	34.0	17.3	10.5	1.9	-
Washington	1,539	-	0.7	3.4	14.1	32.5	31.3	14.4	3.4	0.1
Waukesha	3,751	0.1	1.1	2.4	12.6	29.5	34.2	16.2	3.8	0.2
Waupaca	586	0.5	2.2	7.2	23.2	35.2	22.4	8.0	1.2	0.2
Waushara	234	-	0.9	9.4	26.5	29.1	20.1	12.0	2.1	-
Winnebago	1,961	0.1	1.6	5.6	23.6	32.7	25.7	9.1	1.8	0.1
Wood	853	-	1.4	6.8	26.7	34.0	23.2	6.0	1.5	0.4

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: Included in the total column are 18 births for which age of mother was not reported. A dash (-) indicates that there were no births in that category.



**Table 2-8. Number of Births by Age of Mother and Region, Wisconsin 2009**

	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+
<b>Total</b>	<b>70,824</b>	<b>61</b>	<b>1,608</b>	<b>4,186</b>	<b>15,956</b>	<b>22,420</b>	<b>17,569</b>	<b>7,372</b>	<b>1,527</b>	<b>107</b>
<b>DHS Regions</b>										
Southern	13,262	6	214	678	2,731	4,219	3,534	1,569	287	22
Southeastern	28,220	40	890	1,895	6,349	8,280	6,951	3,075	682	47
Northeastern	14,549	10	278	824	3,298	4,864	3,627	1,352	280	12
Western	9,375	2	130	465	2,231	3,183	2,248	908	191	16
Northern	5,418	3	96	324	1,347	1,874	1,209	468	87	10
<b>Perinatal Regions</b>										
South Central	14,778	6	237	758	3,031	4,764	3,914	1,712	330	24
Southeast	27,424	41	888	1,867	6,169	7,998	6,780	2,977	647	46
Fox Valley	7,139	6	111	397	1,568	2,407	1,843	683	121	3
Northeast	6,064	3	137	352	1,435	2,004	1,447	545	129	8
Western	8,468	2	111	391	1,980	2,868	2,072	854	177	12
North Central	5,590	2	92	331	1,381	1,920	1,253	496	103	12
Northwest	1,361	1	32	90	392	459	260	105	20	2

**Table 2-9. Percent of Births by Age of Mother and Region, Wisconsin 2009**

	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+
<b>Total</b>	<b>70,824</b>	<b>0.1%</b>	<b>2.3%</b>	<b>5.9%</b>	<b>22.5%</b>	<b>31.7%</b>	<b>24.8%</b>	<b>10.4%</b>	<b>2.2%</b>	<b>0.2%</b>
<b>DHS Regions</b>										
Southern	13,262	0.0	1.6	5.1	20.6	31.8	26.6	11.8	2.2	0.2
Southeastern	28,220	0.1	3.2	6.7	22.5	29.3	24.6	10.9	2.4	0.2
Northeastern	14,549	0.1	1.9	5.7	22.7	33.4	24.9	9.3	1.9	0.1
Western	9,375	0.0	1.4	5.0	23.8	34.0	24.0	9.7	2.0	0.2
Northern	5,418	0.1	1.8	6.0	24.9	34.6	22.3	8.6	1.6	0.2
<b>Perinatal Regions</b>										
South Central	14,778	0.0	1.6	5.1	20.5	32.2	26.5	11.6	2.2	0.2
Southeast	27,424	0.1	3.2	6.8	22.5	29.2	24.7	10.9	2.4	0.2
Fox Valley	7,139	0.1	1.6	5.6	22.0	33.7	25.8	9.6	1.7	0.0
Northeast	6,064	0.0	2.3	5.8	23.7	33.0	23.9	9.0	2.1	0.1
Western	8,468	0.0	1.3	4.6	23.4	33.9	24.5	10.1	2.1	0.1
North Central	5,590	0.0	1.6	5.9	24.7	34.3	22.4	8.9	1.8	0.2
Northwest	1,361	0.1	2.4	6.6	28.8	33.7	19.1	7.7	1.5	0.1

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: Included in the totals are 18 births for which age of mother was not reported. A dash (-) indicates that there were no births in that category. Percents may not add to 100 due to rounding. For maps of the Department of Health Services (DHS) and Perinatal Regions, see Technical Notes (pages 105 and 106).

**Table 2-10. Number of Births by Race/Ethnicity of Mother and County of Residence,  
Wisconsin 2009**

County	Total	White	Black/Afr. American	Amer. Indian	Hispanic/ Latina	Laotian or Hmong	Other Asian
<b>Total</b>	<b>70,824</b>	<b>52,454</b>	<b>7,281</b>	<b>1,159</b>	<b>6,926</b>	<b>1,368</b>	<b>1,595</b>
Adams	172	165	1	- 3	2		1
Ashland	207	167	1	35	2	-	2
Barron	499	457	12	14	15	-	1
Bayfield	133	97	1	30	5	-	-
Brown	3,428	2,501	132	181	446	115	52
Buffalo	148	145	-	1	2	-	-
Burnett	144	130	-	12	2	-	-
Calumet	584	512	4	5	40	12	11
Chippewa	758	728	4	3	9	13	1
Clark	574	536	2	3	30	-	3
Columbia	662	629	4	6	18	1	4
Crawford	185	179	2	- 1	1		2
Dane	6,124	4,509	507	45	613	104	342
Dodge	884	813	3	5	57	-	6
Door	271	242	1	6	17	-	5
Douglas	484	438	3	17	19	-	6
Dunn	455	421	1	2	5	22	4
Eau Claire	1,167	1,034	16	9	33	56	18
Florence	37	32	-	2	1	-	2
Fond du Lac	1,174	1,038	18	9	84	14	10
Forest	106	80	-	22	4	-	-
Grant	563	540	3	-	16	-	3
Green	436	407	2	1	23	-	3
Green Lake	210	191	2	1	13	2	-
Iowa	313	307	-	-	3	1	2
Iron	36	32	-	3	-	-	1
Jackson	259	224	2	22	10	-	1
Jefferson	997	823	6	3	144	5	16
Juneau	284	259	2	11	11	-	1
Kenosha	2,174	1,499	228	14	386	1	42
Kewaunee	227	215	1	-	10	-	1
La Crosse	1,372	1,178	25	5	28	109	27
Lafayette	206	193	-	1	12	-	-
Langlade	180	166	-	5	9	-	-
Lincoln	320	311	1	- 1	5		2
Manitowoc	813	720	9	2	42	29	11
Marathon	1,664	1,339	10	11	77	185	42
Marinette	384	370	-	4	6	-	3
Marquette	154	147	-	-	7	-	-
Menominee	95	5	-	86	4	-	-
Milwaukee	15,248	6,011	5,484	183	2,761	386	414
Monroe	632	565	6	9	42	2	8

(Continued)

**Table 2-10. Number of Births by Race/Ethnicity of Mother and County of Residence, Wisconsin 2009**

County	Total	White	Black/Afr. American	Amer. Indian	Hispanic/ Latina	Laotian or Hmong	Other Asian
Oconto	414	390	-	10	10	-	3
Oneida	315	298	-	6	5	-	6
Outagamie	2,236	1,938	24	52	112	60	49
Ozaukee	783	722	14	3	22	3	18
Pepin	104	101	-	-	3	-	-
Pierce	416	410	2	-	4	-	-
Polk	512	480	-	20	10	-	2
Portage	808	710	3	4	37	43	11
Price	114	111	-	1	2	-	-
Racine	2,583	1,633	433	8	464	3	39
Richland	225	209	-	-	14	-	2
Rock	1,980	1,518	167	12	247	2	32
Rusk	169	167	-	-	-	-	2
St. Croix	1,141	1,085	4	4	20	9	18
Sauk	787	703	3	19	57	-	5
Sawyer	195	118	-	68	8	-	1
Shawano	432	363	-	57	11	-	1
Sheboygan	1,346	1,053	18	6	116	101	51
Taylor	249	241	1	1	- 5	1	
Trempealeau	379	311	2	-	62	2	2
Vernon	441	428	1	- 1	8		3
Vilas	201	142	-	55	2	-	2
Walworth	1,145	914	8	3	207	-	13
Washburn	162	159	1	-	1	-	1
Washington	1,539	1,435	12	8	58	3	23
Waukesha	3,751	3,226	52	13	241	6	210
Waupaca	586	557	2	4	20	-	3
Waushara	234	196	2	1	34	-	1
Winnebago	1,961	1,709	36	17	100	60	38
Wood	853	772	3	13	32	18	12

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: See Technical Notes (page 107) for definition of race/ethnicity categories. Included in the totals are 41 births for which race/ethnicity of mother was not reported. A dash (-) indicates that there were no births in that category.

**Table 2-11. Percent of Births by Race/Ethnicity of Mother and County of Residence, Wisconsin 2009**

County	Total	White	Black/Afr. American	Amer. Indian	Hispanic/ Latina	Laotian or Hmong	Other Asian
<b>Total</b>	<b>70,824</b>	<b>74.1%</b>	<b>10.3%</b>	<b>1.6%</b>	<b>9.8%</b>	<b>1.9%</b>	<b>2.3%</b>
Adams	172	95.9	0.6	1.7	1.2	-	0.6
Ashland	207	80.7	0.5	16.9	1.0	-	1.0
Barron	499	91.6	2.4	2.8	3.0	-	0.2
Bayfield	133	72.9	0.8	22.6	3.8	-	-
Brown	3,428	73.0	3.9	5.3	13.0	3.4	1.5
Buffalo	148	98.0	-	0.7	1.4	-	-
Burnett	144	90.3	-	8.3	1.4	-	-
Calumet	584	87.7	0.7	0.9	6.8	2.1	1.9
Chippewa	758	96.0	0.5	0.4	1.2	1.7	0.1
Clark	574	93.4	0.3	0.5	5.2	-	0.5
Columbia	662	95.0	0.6	0.9	2.7	0.2	0.6
Crawford	185	96.8	1.1	0.5	0.5	-	1.1
Dane	6,124	73.6	8.3	0.7	10.0	1.7	5.6
Dodge	884	92.0	0.3	0.6	6.4	-	0.7
Door	271	89.3	0.4	2.2	6.3	-	1.8
Douglas	484	90.5	0.6	3.5	3.9	-	1.2
Dunn	455	92.5	0.2	0.4	1.1	4.8	0.9
Eau Claire	1,167	88.6	1.4	0.8	2.8	4.8	1.5
Florence	37	86.5	-	5.4	2.7	-	5.4
Fond du Lac	1,174	88.4	1.5	0.8	7.2	1.2	0.9
Forest	106	75.5	-	20.8	3.8	-	-
Grant	563	95.9	0.5	-	2.8	-	0.5
Green	436	93.3	0.5	0.2	5.3	-	0.7
Green Lake	210	91.0	1.0	0.5	6.2	1.0	-
Iowa	313	98.1	-	-	1.0	0.3	0.6
Iron	36	88.9	-	8.3	-	-	2.8
Jackson	259	86.5	0.8	8.5	3.9	-	0.4
Jefferson	997	82.5	0.6	0.3	14.4	0.5	1.6
Juneau	284	91.2	0.7	3.9	3.9	-	0.4
Kenosha	2,174	69.0	10.5	0.6	17.8	0.0	1.9
Kewaunee	227	94.7	0.4	-	4.4	-	0.4
La Crosse	1,372	85.9	1.8	0.4	2.0	7.9	2.0
Lafayette	206	93.7	-	0.5	5.8	-	-
Langlade	180	92.2	-	2.8	5.0	-	-
Lincoln	320	97.2	0.3	0.3	1.6	-	0.6
Manitowoc	813	88.6	1.1	0.2	5.2	3.6	1.4
Marathon	1,664	80.5	0.6	0.7	4.6	11.1	2.5
Marinette	384	96.4	-	1.0	1.6	-	0.8
Marquette	154	95.5	-	-	4.5	-	-
Menominee	95	5.3	-	90.5	4.2	-	-
Milwaukee	15,248	39.4	36.0	1.2	18.1	2.5	2.7
Monroe	632	89.4	0.9	1.4	6.6	0.3	1.3

(Continued)

**Table 2-11. Percent of Births by Race/Ethnicity of Mother and County of Residence, Wisconsin 2009**

County	Total	White	Black/Afr. American	Amer. Indian	Hispanic/ Latina	Laotian or Hmong	Other Asian
Oconto	414	94.2	-	2.4	2.4	-	0.7
Oneida	315	94.6	-	1.9	1.6	-	1.9
Outagamie	2,236	86.7	1.1	2.3	5.0	2.7	2.2
Ozaukee	783	92.2	1.8	0.4	2.8	0.4	2.3
Pepin	104	97.1	-	-	2.9	-	-
Pierce	416	98.6	0.5	-	1.0	-	-
Polk	512	93.8	-	3.9	2.0	-	0.4
Portage	808	87.9	0.4	0.5	4.6	5.3	1.4
Price	114	97.4	-	0.9	1.8	-	-
Racine	2,583	63.2	16.8	0.3	18.0	0.1	1.5
Richland	225	92.9	-	-	6.2	-	0.9
Rock	1,980	76.7	8.4	0.6	12.5	0.1	1.6
Rusk	169	98.8	-	-	-	-	1.2
St. Croix	1,141	95.1	0.4	0.4	1.8	0.8	1.6
Sauk	787	89.3	0.4	2.4	7.2	-	0.6
Sawyer	195	60.5	-	34.9	4.1	-	0.5
Shawano	432	84.0	-	13.2	2.5	-	0.2
Sheboygan	1,346	78.2	1.3	0.4	8.6	7.5	3.8
Taylor	249	96.8	0.4	0.4	2.0	0.4	-
Trempealeau	379	82.1	0.5	-	16.4	0.5	0.5
Vernon	441	97.1	0.2	0.2	1.8	-	0.7
Vilas	201	70.6	-	27.4	1.0	-	1.0
Walworth	1,145	79.8	0.7	0.3	18.1	-	1.1
Washburn	162	98.1	0.6	-	0.6	-	0.6
Washington	1,539	93.2	0.8	0.5	3.8	0.2	1.5
Waukesha	3,751	86.0	1.4	0.3	6.4	0.2	5.6
Waupaca	586	95.1	0.3	0.7	3.4	-	0.5
Waushara	234	83.8	0.9	0.4	14.5	-	0.4
Winnebago	1,961	87.1	1.8	0.9	5.1	3.1	1.9
Wood	853	90.5	0.4	1.5	3.8	2.1	1.4

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: See Technical Notes (page 107) for definition of race/ethnicity categories. Included in the totals are 41 births for which race/ethnicity of mother was not reported. A dash (-) indicates that there were no births in that category.

**Table 2-12. Number of Births by Race/Ethnicity of Mother and Region, Wisconsin 2009**

	<b>Total</b>	<b>White</b>	<b>Black/Afr. American</b>	<b>Amer. Indian</b>	<b>Hispanic/ Latina</b>	<b>Laotian or Hmong</b>	<b>Other Asian</b>
<b>Total</b>	<b>70,824</b>	<b>52,454</b>	<b>7,281</b>	<b>1,159</b>	<b>6,926</b>	<b>1,368</b>	<b>1,595</b>
<b>DHS Regions</b>							
Southern	13,262	10,859	695	105	1,082	108	406
Southeastern	28,220	16,263	6,237	235	4,283	407	775
Northeastern	14,549	12,147	249	441	1,072	393	239
Western	9,375	8,569	80	121	295	213	94
Northern	5,418	4,616	20	257	194	247	81
<b>Perinatal Regions</b>							
South Central	14,778	11,989	706	109	1,424	113	430
Southeast	27,424	15,579	6,241	235	4,048	503	797
Fox Valley	7,139	6,288	88	89	410	148	112
Northeast	6,064	4,806	143	346	546	144	76
Western	8,468	7,746	77	91	252	213	87
North Central	5,590	4,905	20	124	209	247	82
Northwest	1,361	1,141	6	165	37	-	11

**Table 2-13. Percent of Births by Race/Ethnicity of Mother and Region, Wisconsin 2009**

	<b>Total</b>	<b>White</b>	<b>Black/Afr. American</b>	<b>Amer. Indian</b>	<b>Hispanic/ Latina</b>	<b>Laotian or Hmong</b>	<b>Other Asian</b>
<b>Total</b>	<b>70,824</b>	<b>74.1%</b>	<b>10.3%</b>	<b>1.6%</b>	<b>9.8%</b>	<b>1.9%</b>	<b>2.3%</b>
<b>DHS Regions</b>							
Southern	13,262	81.9	5.2	0.8	8.2	0.8	3.1
Southeastern	28,220	57.6	22.1	0.8	15.2	1.4	2.7
Northeastern	14,549	83.5	1.7	3.0	7.4	2.7	1.6
Western	9,375	91.4	0.9	1.3	3.1	2.3	1.0
Northern	5,418	85.2	0.4	4.7	3.6	4.6	1.5
<b>Perinatal Regions</b>							
South Central	14,778	81.1	4.8	0.7	9.6	0.8	2.9
Southeast	27,424	56.8	22.8	0.9	14.8	1.8	2.9
Fox Valley	7,139	88.1	1.2	1.2	5.7	2.1	1.6
Northeast	6,064	79.3	2.4	5.7	9.0	2.4	1.3
Western	8,468	91.5	0.9	1.1	3.0	2.5	1.0
North Central	5,590	87.7	0.4	2.2	3.7	4.4	1.5
Northwest	1,361	83.8	0.4	12.1	2.7	-	0.8

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: See Technical Notes (page 107) for definition of race/ethnicity categories. Included in the totals are 41 births for which race/ethnicity of mother was not reported. Percents may not add to 100 due to rounding. For maps of the Department of Health Services (DHS) and Perinatal Regions, see Technical Notes (pages 105 and 106).

**Table 2-14. Number of Births by Education of Mother and County of Residence, Wisconsin 2009**

County	Total	Elementary or Less	Some High School	High School Graduate	Some College	College Graduate	Post Graduate
<b>Total</b>	<b>70,824</b>	<b>2,702</b>	<b>7,319</b>	<b>19,663</b>	<b>18,386</b>	<b>15,116</b>	<b>7,144</b>
Adams	172	1	22	73	51	21	3
Ashland	207	1	28	85	60	23	9
Barron	499	22	37	156	193	75	14
Bayfield	133	-	13	38	52	23	7
Brown	3,428	143	399	934	867	730	349
Buffalo	148	5	2	57	41	37	6
Burnett	144	2	22	55	37	21	6
Calumet	584	20	19	140	164	143	98
Chippewa	758	32	53	238	244	140	51
Clark	574	224	38	147	104	55	6
Columbia	662	25	39	216	181	155	43
Crawford	185	4	10	69	64	21	15
Dane	6,124	174	471	1,092	1,312	1,837	1,214
Dodge	884	10	68	287	282	195	39
Door	271	4	22	79	85	58	20
Douglas	484	-	51	152	149	71	53
Dunn	455	5	32	137	144	77	59
Eau Claire	1,167	52	52	326	359	270	103
Florence	37	-	5	7	18	6	1
Fond du Lac	1,174	26	105	387	315	247	89
Forest	106	-	16	38	32	8	12
Grant	563	52	24	113	214	109	49
Green	436	12	35	105	132	112	40
Green Lake	210	40	12	74	37	32	15
Iowa	313	3	21	84	101	81	23
Iron	36	1	3	11	14	5	2
Jackson	259	32	20	86	70	32	18
Jefferson	997	34	85	286	269	219	101
Juneau	284	2	32	129	77	34	8
Kenosha	2,174	56	292	705	546	366	178
Kewaunee	227	3	15	83	64	46	16
La Crosse	1,372	22	61	293	455	381	151
Lafayette	206	18	8	52	70	40	14
Langlade	180	2	27	59	63	18	11
Lincoln	320	4	21	116	104	50	19
Manitowoc	813	16	82	252	255	143	58
Marathon	1,664	75	111	484	550	300	115
Marinette	384	2	38	133	140	54	16
Marquette	154	15	14	60	41	19	5
Menominee	95	-	18	51	25	1	-
Milwaukee	15,248	758	2,726	4,563	3,160	2,609	1,277
Monroe	632	91	67	181	171	95	24

(Continued)

**Table 2-14. Number of Births by Education of Mother and County of Residence, Wisconsin 2009**

County	Total	Elementary or Less	Some High School	High School Graduate	Some College	College Graduate	Post Graduate
Oconto	414	8	41	136	138	64	25
Oneida	315	-	20	100	100	61	33
Outagamie	2,236	40	160	657	592	459	324
Ozaukee	783	3	18	109	180	313	154
Pepin	104	8	2	28	41	21	4
Pierce	416	-	10	77	126	105	98
Polk	512	-	36	170	178	81	46
Portage	808	5	44	234	240	173	102
Price	114	-	8	47	36	18	5
Racine	2,583	64	431	690	754	426	192
Richland	225	17	18	74	81	27	8
Rock	1,980	68	303	584	531	310	144
Rusk	169	12	16	58	61	14	8
St. Croix	1,141	4	26	230	304	332	234
Sauk	787	39	92	242	220	148	45
Sawyer	195	4	20	54	79	22	14
Shawano	432	16	33	157	126	73	26
Sheboygan	1,346	52	101	414	377	277	116
Taylor	249	27	17	90	81	26	7
Trempealeau	379	49	31	112	109	60	17
Vernon	441	114	20	101	92	91	20
Vilas	201	-	26	92	46	25	12
Walworth	1,145	48	125	351	290	225	104
Washburn	162	-	18	52	51	28	13
Washington	1,539	7	64	355	433	481	195
Waukesha	3,751	28	132	613	797	1,594	544
Waupaca	586	18	44	232	164	85	40
Waushara	234	26	27	99	47	23	11
Winnebago	1,961	35	164	588	519	435	216
Wood	853	22	56	284	281	160	50

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: "Some High School" or "Some College" means the mother completed at least one year of schooling at that level. Included in the totals are 494 births for which education of mother was not reported. A dash (-) indicates that there were no births in that category.



**Table 2-15. Percent of Births by Education of Mother and County of Residence, Wisconsin 2009**

County	Total	Elementary or Less	Some High School	High School Graduate	Some College	College Graduate	Post Graduate
<b>Total</b>	<b>70,824</b>	<b>3.8%</b>	<b>10.3%</b>	<b>27.8%</b>	<b>26.0%</b>	<b>21.3%</b>	<b>10.1%</b>
Adams	172	0.6	12.8	42.4	29.7	12.2	1.7
Ashland	207	0.5	13.5	41.1	29.0	11.1	4.3
Barron	499	4.4	7.4	31.3	38.7	15.0	2.8
Bayfield	133	-	9.8	28.6	39.1	17.3	5.3
Brown	3,428	4.2	11.6	27.2	25.3	21.3	10.2
Buffalo	148	3.4	1.4	38.5	27.7	25.0	4.1
Burnett	144	1.4	15.3	38.2	25.7	14.6	4.2
Calumet	584	3.4	3.3	24.0	28.1	24.5	16.8
Chippewa	758	4.2	7.0	31.4	32.2	18.5	6.7
Clark	574	39.0	6.6	25.6	18.1	9.6	1.0
Columbia	662	3.8	5.9	32.6	27.3	23.4	6.5
Crawford	185	2.2	5.4	37.3	34.6	11.4	8.1
Dane	6,124	2.8	7.7	17.8	21.4	30.0	19.8
Dodge	884	1.1	7.7	32.5	31.9	22.1	4.4
Door	271	1.5	8.1	29.2	31.4	21.4	7.4
Douglas	484	-	10.5	31.4	30.8	14.7	11.0
Dunn	455	1.1	7.0	30.1	31.6	16.9	13.0
Eau Claire	1,167	4.5	4.5	27.9	30.8	23.1	8.8
Florence	37	-	13.5	18.9	48.6	16.2	2.7
Fond du Lac	1,174	2.2	8.9	33.0	26.8	21.0	7.6
Forest	106	-	15.1	35.8	30.2	7.5	11.3
Grant	563	9.2	4.3	20.1	38.0	19.4	8.7
Green	436	2.8	8.0	24.1	30.3	25.7	9.2
Green Lake	210	19.0	5.7	35.2	17.6	15.2	7.1
Iowa	313	1.0	6.7	26.8	32.3	25.9	7.3
Iron	36	2.8	8.3	30.6	38.9	13.9	5.6
Jackson	259	12.4	7.7	33.2	27.0	12.4	6.9
Jefferson	997	3.4	8.5	28.7	27.0	22.0	10.1
Juneau	284	0.7	11.3	45.4	27.1	12.0	2.8
Kenosha	2,174	2.6	13.4	32.4	25.1	16.8	8.2
Kewaunee	227	1.3	6.6	36.6	28.2	20.3	7.0
La Crosse	1,372	1.6	4.4	21.4	33.2	27.8	11.0
Lafayette	206	8.7	3.9	25.2	34.0	19.4	6.8
Langlade	180	1.1	15.0	32.8	35.0	10.0	6.1
Lincoln	320	1.3	6.6	36.3	32.5	15.6	5.9
Manitowoc	813	2.0	10.1	31.0	31.4	17.6	7.1
Marathon	1,664	4.5	6.7	29.1	33.1	18.0	6.9
Marinette	384	0.5	9.9	34.6	36.5	14.1	4.2
Marquette	154	9.7	9.1	39.0	26.6	12.3	3.2
Menominee	95	-	18.9	53.7	26.3	1.1	-
Milwaukee	15,248	5.0	17.9	29.9	20.7	17.1	8.4
Monroe	632	14.4	10.6	28.6	27.1	15.0	3.8

(Continued)

**Table 2-15. Percent of Births by Education of Mother and County of Residence, Wisconsin 2009**

County	Total	Elementary or Less	Some High School	High School Graduate	Some College	College Graduate	Post Graduate
Oconto	414	1.9	9.9	32.9	33.3	15.5	6.0
Oneida	315	-	6.3	31.7	31.7	19.4	10.5
Outagamie	2,236	1.8	7.2	29.4	26.5	20.5	14.5
Ozaukee	783	0.4	2.3	13.9	23.0	40.0	19.7
Pepin	104	7.7	1.9	26.9	39.4	20.2	3.8
Pierce	416	-	2.4	18.5	30.3	25.2	23.6
Polk	512	-	7.0	33.2	34.8	15.8	9.0
Portage	808	0.6	5.4	29.0	29.7	21.4	12.6
Price	114	-	7.0	41.2	31.6	15.8	4.4
Racine	2,583	2.5	16.7	26.7	29.2	16.5	7.4
Richland	225	7.6	8.0	32.9	36.0	12.0	3.6
Rock	1,980	3.4	15.3	29.5	26.8	15.7	7.3
Rusk	169	7.1	9.5	34.3	36.1	8.3	4.7
St. Croix	1,141	0.4	2.3	20.2	26.6	29.1	20.5
Sauk	787	5.0	11.7	30.7	28.0	18.8	5.7
Sawyer	195	2.1	10.3	27.7	40.5	11.3	7.2
Shawano	432	3.7	7.6	36.3	29.2	16.9	6.0
Sheboygan	1,346	3.9	7.5	30.8	28.0	20.6	8.6
Taylor	249	10.8	6.8	36.1	32.5	10.4	2.8
Trempealeau	379	12.9	8.2	29.6	28.8	15.8	4.5
Vernon	441	25.9	4.5	22.9	20.9	20.6	4.5
Vilas	201	-	12.9	45.8	22.9	12.4	6.0
Walworth	1,145	4.2	10.9	30.7	25.3	19.7	9.1
Washburn	162	-	11.1	32.1	31.5	17.3	8.0
Washington	1,539	0.5	4.2	23.1	28.1	31.3	12.7
Waukesha	3,751	0.7	3.5	16.3	21.2	42.5	14.5
Waupaca	586	3.1	7.5	39.6	28.0	14.5	6.8
Waushara	234	11.1	11.5	42.3	20.1	9.8	4.7
Winnebago	1,961	1.8	8.4	30.0	26.5	22.2	11.0
Wood	853	2.6	6.6	33.3	32.9	18.8	5.9

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: "Some High School" or "Some College" means the mother completed at least one year of schooling at that level. Included in the totals are 494 births for which education of mother was not reported. A dash (-) indicates that there were no births in that category.

**Table 2-16. Number of Births by Education of Mother and Region, Wisconsin 2009**

	Total	Elementary or Less	Some High School	High School Graduate	Some College	College Graduate	Post Graduate
<b>Total</b>	<b>70,824</b>	<b>2,702</b>	<b>7,319</b>	<b>19,663</b>	<b>18,386</b>	<b>15,116</b>	<b>7,144</b>
<b>DHS Regions</b>							
Southern	13,262	539	1,163	3,221	3,408	3,181	1,665
Southeastern	28,220	998	3,873	7,672	6,429	6,233	2,745
Northeastern	14,549	464	1,294	4,476	3,956	2,889	1,424
Western	9,375	560	574	2,555	2,837	1,895	911
Northern	5,418	141	415	1,739	1,756	918	399
<b>Perinatal Regions</b>							
South Central	14,778	503	1,343	3,688	3,811	3,513	1,835
Southeast	27,424	968	3,764	7,449	6,247	6,066	2,656
Fox Valley	7,139	220	545	2,237	1,879	1,443	798
Northeast	6,064	192	648	1,825	1,700	1,169	510
Western	8,468	440	459	2,261	2,591	1,818	860
North Central	5,590	371	405	1,756	1,716	914	381
Northwest	1,361	8	155	447	442	193	104

**Table 2-17. Percent of Births by Education of Mother and Region, Wisconsin 2009**

	Total	Elementary or Less	Some High School	High School Graduate	Some College	College Graduate	Post Graduate
<b>Total</b>	<b>70,824</b>	<b>3.8%</b>	<b>10.3%</b>	<b>27.8%</b>	<b>26.0%</b>	<b>21.3%</b>	<b>10.1%</b>
<b>DHS Regions</b>							
Southern	13,262	4.1	8.8	24.3	25.7	24.0	12.6
Southeastern	28,220	3.5	13.7	27.2	22.8	22.1	9.7
Northeastern	14,549	3.2	8.9	30.8	27.2	19.9	9.8
Western	9,375	6.0	6.1	27.3	30.3	20.2	9.7
Northern	5,418	2.6	7.7	32.1	32.4	16.9	7.4
<b>Perinatal Regions</b>							
South Central	14,778	3.4	9.1	25.0	25.8	23.8	12.4
Southeast	27,424	3.5	13.7	27.2	22.8	22.1	9.7
Fox Valley	7,139	3.1	7.6	31.3	26.3	20.2	11.2
Northeast	6,064	3.2	10.7	30.1	28.0	19.3	8.4
Western	8,468	5.2	5.4	26.7	30.6	21.5	10.2
North Central	5,590	6.6	7.2	31.4	30.7	16.4	6.8
Northwest	1,361	0.6	11.4	32.8	32.5	14.2	7.6

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: "Some High School" or "Some College" means the mother completed at least one year of schooling at that level. Included in the totals are 494 births for which education of mother was not reported. For maps of the Department of Health Services (DHS) and Perinatal Regions, see Technical Notes (pages 105 and 106).

**Table 2-18. Number of Births to Unmarried Mothers by Age and County of Residence, Wisconsin 2009**

County	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40+
<b>Total</b>	<b>26,656</b>	<b>61</b>	<b>1,515</b>	<b>3,689</b>	<b>10,236</b>	<b>6,593</b>	<b>3,011</b>	<b>1,245</b>	<b>306</b>
Adams	80	-	6	21	26	15	6	6	-
Ashland	81	-	n/s	5	36	29	5	-	n/s
Barron	183	-	n/s	25	77	49	19	7	2
Bayfield	40	-	n/s	6	13	11	4	3	-
Brown	1,266	n/s	76	171	486	327	140	49	15
Buffalo	45	-	n/s	4	16	16	4	3	-
Burnett	67	-	5	12	30	10	6	3	n/s
Calumet	109	-	n/s	14	49	26	12	3	3
Chippewa	230	-	11	36	92	58	20	11	2
Clark	127	-	4	25	57	24	10	6	1
Columbia	198	-	7	27	73	54	27	8	2
Crawford	66	-	n/s	6	35	19	3	2	-
Dane	1,802	6	82	220	630	465	250	129	20
Dodge	285	-	8	34	120	73	29	17	4
Door	88	-	n/s	10	40	20	7	5	3
Douglas	218	-	12	30	89	56	17	13	1
Dunn	127	-	6	16	51	36	11	7	-
Eau Claire	395	n/s	16	42	167	105	35	25	4
Florence	16	-	n/s	n/s	6	6	-	-	n/s
Fond du Lac	386	n/s	12	71	157	84	44	15	2
Forest	58	-	5	9	27	9	6	n/s	-
Grant	154	-	5	20	57	44	18	9	1
Green	143	-	10	22	53	38	12	7	1
Green Lake	56	-	n/s	12	21	14	4	4	-
Iowa	72	-	n/s	8	31	18	9	5	-
Iron	14	-	-	n/s	7	4	1	-	-
Jackson	98	-	3	14	42	28	7	4	-
Jefferson	314	-	11	42	120	83	38	20	-
Juneau	111	-	7	15	46	16	19	7	n/s
Kenosha	953	n/s	67	152	365	222	99	35	11
Kewaunee	56	-	n/s	8	24	13	4	4	2
La Crosse	385	-	18	58	146	108	33	19	3
Lafayette	54	-	n/s	5	24	15	4	4	-
Langlade	87	-	10	7	32	20	10	8	-
Lincoln	121	n/s	n/s	23	54	26	11	4	-
Manitowoc	268	n/s	17	31	102	75	30	10	2
Marathon	501	n/s	21	75	196	138	43	21	6
Marinette	152	-	7	27	61	34	16	3	4
Marquette	59	n/s	n/s	4	23	17	8	3	-
Menominee	78	-	10	12	30	15	8	3	-
Milwaukee	8,685	33	629	1,213	3,160	2,145	1,024	381	100
Monroe	223	-	14	30	102	49	23	4	1

(Continued)

**Table 2-18. Number of Births to Unmarried Mothers by Age and County of Residence, Wisconsin 2009**

County	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40+
Oconto	130	-	n/s	26	56	27	8	5	4
Oneida	106	-	6	14	39	29	15	3	-
Outagamie	650	-	40	88	260	154	75	29	4
Ozaukee	136	-	n/s	9	53	29	22	15	4
Pepin	26	-	n/s	4	9	9	1	2	-
Pierce	103	-	n/s	12	40	26	17	5	-
Polk	172	-	6	36	63	42	13	9	3
Portage	223	-	6	25	97	58	29	7	1
Price	34	-	n/s	3	18	8	1	1	2
Racine	1,226	n/s	77	165	492	277	144	55	13
Richland	68	-	n/s	6	30	16	10	3	1
Rock	894	-	52	163	351	196	91	31	10
Rusk	66	-	n/s	14	25	16	7	1	-
St. Croix	257	-	6	17	98	80	33	18	5
Sauk	291	-	7	40	114	81	36	10	3
Sawyer	102	n/s	5	16	44	21	8	7	-
Shawano	152	-	9	19	64	38	11	7	4
Sheboygan	404	n/s	24	58	141	108	46	20	6
Taylor	68	-	n/s	5	34	13	11	1	-
Trempealeau	147	n/s	6	12	66	35	21	3	3
Vernon	102	-	8	10	46	22	7	8	1
Vilas	105	-	5	19	41	26	8	5	1
Walworth	376	-	18	41	158	83	43	28	5
Washburn	54	-	n/s	6	23	13	6	3	-
Washington	320	-	10	51	123	85	32	15	4
Waukesha	751	n/s	42	76	284	183	101	42	21
Waupaca	195	n/s	11	34	67	54	17	8	1
Waushara	73	-	n/s	14	21	21	9	6	-
Winnebago	670	n/s	29	93	286	156	73	22	10
Wood	304	-	12	47	120	73	40	7	5

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: A dash (-) indicates that there were no births to unmarried women in this age group. An n/s indicates that births to unmarried women are not shown, and at least one but fewer than five *total* births (to married and unmarried mothers) occurred in the age group (see Table 2-6).

**Table 2-19. Percent of Births to Unmarried Mothers by Age and County of Residence, Wisconsin 2009**

County	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40+
<b>Total</b>	<b>26,656</b>	<b>0.2%</b>	<b>5.7%</b>	<b>13.8%</b>	<b>38.4%</b>	<b>24.7%</b>	<b>11.3%</b>	<b>4.7%</b>	<b>1.1%</b>
Adams	80	-	7.5	26.3	32.5	18.8	7.5	7.5	-
Ashland	81	-	n/s	6.2	44.4	35.8	6.2	-	n/s
Barron	183	-	n/s	13.7	42.1	26.8	10.4	3.8	1.1
Bayfield	40	-	n/s	15.0	32.5	27.5	10.0	7.5	-
Brown	1,266	n/s	6.0	13.5	38.4	25.8	11.1	3.9	1.2
Buffalo	45	-	n/s	8.9	35.6	35.6	8.9	6.7	-
Burnett	67	-	7.5	17.9	44.8	14.9	9.0	4.5	n/s
Calumet	109	-	n/s	12.8	45.0	23.9	11.0	2.8	2.8
Chippewa	230	-	4.8	15.7	40.0	25.2	8.7	4.8	0.9
Clark	127	-	3.1	19.7	44.9	18.9	7.9	4.7	0.8
Columbia	198	-	3.5	13.6	36.9	27.3	13.6	4.0	1.0
Crawford	66	-	n/s	9.1	53.0	28.8	4.5	3.0	-
Dane	1,802	0.3	4.6	12.2	35.0	25.8	13.9	7.2	1.1
Dodge	285	-	2.8	11.9	42.1	25.6	10.2	6.0	1.4
Door	88	-	n/s	11.4	45.5	22.7	8.0	5.7	3.4
Douglas	218	-	5.5	13.8	40.8	25.7	7.8	6.0	0.5
Dunn	127	-	4.7	12.6	40.2	28.3	8.7	5.5	-
Eau Claire	395	n/s	4.1	10.6	42.3	26.6	8.9	6.3	1.0
Florence	16	-	n/s	n/s	37.5	37.5	-	-	n/s
Fond du Lac	386	n/s	3.1	18.4	40.7	21.8	11.4	3.9	0.5
Forest	58	-	8.6	15.5	46.6	15.5	10.3	n/s	-
Grant	154	-	3.2	13.0	37.0	28.6	11.7	5.8	0.6
Green	143	-	7.0	15.4	37.1	26.6	8.4	4.9	0.7
Green Lake	56	-	n/s	21.4	37.5	25.0	7.1	7.1	-
Iowa	72	-	n/s	11.1	43.1	25.0	12.5	6.9	-
Iron	14	-	-	n/s	50.0	28.6	7.1	-	-
Jackson	98	-	3.1	14.3	42.9	28.6	7.1	4.1	-
Jefferson	314	-	3.5	13.4	38.2	26.4	12.1	6.4	-
Juneau	111	-	6.3	13.5	41.4	14.4	17.1	6.3	n/s
Kenosha	953	n/s	7.0	15.9	38.3	23.3	10.4	3.7	1.2
Kewaunee	56	-	n/s	14.3	42.9	23.2	7.1	7.1	3.6
La Crosse	385	-	4.7	15.1	37.9	28.1	8.6	4.9	0.8
Lafayette	54	-	n/s	9.3	44.4	27.8	7.4	7.4	-
Langlade	87	-	11.5	8.0	36.8	23.0	11.5	9.2	-
Lincoln	121	n/s	n/s	19.0	44.6	21.5	9.1	3.3	-
Manitowoc	268	n/s	6.3	11.6	38.1	28.0	11.2	3.7	0.7
Marathon	501	n/s	4.2	15.0	39.1	27.5	8.6	4.2	1.2
Marinette	152	-	4.6	17.8	40.1	22.4	10.5	2.0	2.6
Marquette	59	n/s	n/s	6.8	39.0	28.8	13.6	5.1	-
Menominee	78	-	12.8	15.4	38.5	19.2	10.3	3.8	-
Milwaukee	8,685	0.4	7.2	14.0	36.4	24.7	11.8	4.4	1.2
Monroe	223	-	6.3	13.5	45.7	22.0	10.3	1.8	0.4

(Continued)

**Table 2-19. Percent of Births to Unmarried Mothers by Age and County of Residence, Wisconsin 2009**

County	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40+
Oconto	130	-	n/s	20.0	43.1	20.8	6.2	3.8	3.1
Oneida	106	-	5.7	13.2	36.8	27.4	14.2	2.8	-
Outagamie	650	-	6.2	13.5	40.0	23.7	11.5	4.5	0.6
Ozaukee	136	-	n/s	6.6	39.0	21.3	16.2	11.0	2.9
Pepin	26	-	n/s	15.4	34.6	34.6	3.8	7.7	-
Pierce	103	-	n/s	11.7	38.8	25.2	16.5	4.9	-
Polk	172	-	3.5	20.9	36.6	24.4	7.6	5.2	1.7
Portage	223	-	2.7	11.2	43.5	26.0	13.0	3.1	0.4
Price	34	-	n/s	8.8	52.9	23.5	2.9	2.9	5.9
Racine	1,226	n/s	6.3	13.5	40.1	22.6	11.7	4.5	1.1
Richland	68	-	n/s	8.8	44.1	23.5	14.7	4.4	1.5
Rock	894	-	5.8	18.2	39.3	21.9	10.2	3.5	1.1
Rusk	66	-	n/s	21.2	37.9	24.2	10.6	1.5	-
St. Croix	257	-	2.3	6.6	38.1	31.1	12.8	7.0	1.9
Sauk	291	-	2.4	13.7	39.2	27.8	12.4	3.4	1.0
Sawyer	102	n/s	4.9	15.7	43.1	20.6	7.8	6.9	-
Shawano	152	-	5.9	12.5	42.1	25.0	7.2	4.6	2.6
Sheboygan	404	n/s	5.9	14.4	34.9	26.7	11.4	5.0	1.5
Taylor	68	-	n/s	7.4	50.0	19.1	16.2	1.5	-
Trempealeau	147	n/s	4.1	8.2	44.9	23.8	14.3	2.0	2.0
Vernon	102	-	7.8	9.8	45.1	21.6	6.9	7.8	1.0
Vilas	105	-	4.8	18.1	39.0	24.8	7.6	4.8	1.0
Walworth	376	-	4.8	10.9	42.0	22.1	11.4	7.4	1.3
Washburn	54	-	n/s	11.1	42.6	24.1	11.1	5.6	-
Washington	320	-	3.1	15.9	38.4	26.6	10.0	4.7	1.3
Waukesha	751	n/s	5.6	10.1	37.8	24.4	13.4	5.6	2.8
Waupaca	195	n/s	5.6	17.4	34.4	27.7	8.7	4.1	0.5
Waushara	73	-	n/s	19.2	28.8	28.8	12.3	8.2	-
Winnebago	670	n/s	4.3	13.9	42.7	23.3	10.9	3.3	1.5
Wood	304	-	3.9	15.5	39.5	24.0	13.2	2.3	1.6

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: A dash (-) indicates that there were no births to unmarried women in this age group. An n/s indicates that births to unmarried women are not shown, and at least one but fewer than five *total* births (to married and unmarried mothers) occurred in the age group (see Table 2-6).

**Table 2-20. Number of Births to Unmarried Mothers by Age and Region, Wisconsin 2009**

	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40+
<b>Total</b>	<b>26,656</b>	<b>61</b>	<b>1,515</b>	<b>3,689</b>	<b>10,236</b>	<b>6,593</b>	<b>3,011</b>	<b>1,245</b>	<b>306</b>
<b>DHS Regions</b>									
Southern	4,320	6	198	597	1,636	1,072	521	246	44
Southeastern	12,761	40	858	1,749	4,755	3,107	1,503	591	158
Northeastern	4,792	10	251	692	1,888	1,183	512	196	60
Western	2,923	n/s	123	393	1,193	760	283	143	26
Northern	1,860	n/s	85	258	764	471	192	69	18
<b>Perinatal Regions</b>									
South Central	4,842	6	218	664	1,833	1,197	592	284	48
Southeast	12,475	41	853	1,724	4,618	3,049	1,468	563	159
Fox Valley	2,198	6	100	330	884	526	242	90	20
Northeast	2,190	n/s	127	304	863	549	224	86	34
Western	2,559	n/s	105	322	1,050	682	247	127	24
North Central	1,816	n/s	80	268	746	446	191	66	17
Northwest	576	n/s	32	77	242	144	47	29	4

**Table 2-21. Percent of Births to Unmarried Mothers by Age and Region, Wisconsin 2009**

	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40+
<b>Total</b>	<b>26,656</b>	<b>0.2%</b>	<b>5.7%</b>	<b>13.8%</b>	<b>38.4%</b>	<b>24.7%</b>	<b>11.3%</b>	<b>4.7%</b>	<b>1.1%</b>
<b>DHS Regions</b>									
Southern	4,320	0.1	4.6	13.8	37.9	24.8	12.1	5.7	1.0
Southeastern	12,761	0.3	6.7	13.7	37.3	24.3	11.8	4.6	1.2
Northeastern	4,792	0.2	5.2	14.4	39.4	24.7	10.7	4.1	1.3
Western	2,923	n/s	4.2	13.4	40.8	26.0	9.7	4.9	0.9
Northern	1,860	n/s	4.6	13.9	41.1	25.3	10.3	3.7	1.0
<b>Perinatal Regions</b>									
South Central	4,842	0.1	4.5	13.7	37.9	24.7	12.2	5.9	1.0
Southeast	12,475	0.3	6.8	13.8	37.0	24.4	11.8	4.5	1.3
Fox Valley	2,198	0.3	4.5	15.0	40.2	23.9	11.0	4.1	0.9
Northeast	2,190	n/s	5.8	13.9	39.4	25.1	10.2	3.9	1.6
Western	2,559	n/s	4.1	12.6	41.0	26.7	9.7	5.0	0.9
North Central	1,816	n/s	4.4	14.8	41.1	24.6	10.5	3.6	0.9
Northwest	576	n/s	5.6	13.4	42.0	25.0	8.2	5.0	0.7

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: For maps of the Department of Health Services (DHS) and Perinatal Regions, see Technical Notes (pages 105 and 106). An n/s indicates that births to unmarried women are not shown, and at least one but fewer than five *total* births (to married and unmarried mothers) occurred in the age group (see Table 2-8).



**Table 2-22. Births by Trimester Prenatal Care Began and County of Residence, Wisconsin 2009**

County	Total	Trimester Prenatal Care Began				Percent That Received First-Trimester Care		
		First	Second	Third	No Care	2009	2008	2007
<b>Total</b>	<b>70,824</b>	<b>59,060</b>	<b>8,690</b>	<b>1,582</b>	<b>426</b>	<b>83.4%</b>	<b>82.2%</b>	<b>82.8%</b>
Adams	172	139	26	5	1	80.8	72.7	76.0
Ashland	207	165	33	1	1	79.7	78.3	78.0
Barron	499	420	63	10	2	84.2	80.4	78.8
Bayfield	133	112	10	1	1	84.2	88.9	86.0
Brown	3,428	2,853	482	61	12	83.2	82.6	82.6
Buffalo	148	124	22	1	-	83.8	81.9	82.4
Burnett	144	119	20	3	1	82.6	80.4	72.1
Calumet	584	526	44	8	1	90.1	89.7	89.5
Chippewa	758	661	81	5	3	87.2	86.1	87.2
Clark	574	329	181	54	5	57.3	54.9	59.9
Columbia	662	548	86	18	3	82.8	83.3	85.4
Crawford	185	149	26	5	-	80.5	76.0	79.2
Dane	6,124	5,433	512	69	9	88.7	87.9	87.6
Dodge	884	721	129	14	-	81.6	82.3	82.7
Door	271	224	36	3	1	82.7	85.4	90.3
Douglas	484	381	41	10	1	78.7	88.7	85.7
Dunn	455	372	73	9	-	81.8	76.7	83.3
Eau Claire	1,167	965	166	27	4	82.7	82.1	84.3
Florence	37	30	5	1	1	81.1	91.9	81.3
Fond du Lac	1,174	1,000	111	22	2	85.2	81.9	83.9
Forest	106	88	14	3	1	83.0	83.7	86.4
Grant	563	420	109	25	3	74.6	75.9	77.6
Green	436	368	53	7	2	84.4	89.0	91.1
Green Lake	210	144	47	18	-	68.6	71.6	66.8
Iowa	313	275	26	3	3	87.9	88.3	90.6
Iron	36	28	4	-	-	77.8	84.6	86.8
Jackson	259	185	44	17	3	71.4	74.8	72.0
Jefferson	997	829	134	20	1	83.1	85.0	84.7
Juneau	284	235	40	4	-	82.7	82.2	79.8
Kenosha	2,174	1,735	320	62	12	79.8	80.4	81.7
Kewaunee	227	204	18	-	1	89.9	87.7	87.9
La Crosse	1,372	1,164	159	21	4	84.8	84.8	82.1
Lafayette	206	153	34	14	2	74.3	72.4	83.4
Langlade	180	155	22	3	-	86.1	84.9	82.5
Lincoln	320	276	35	8	1	86.3	81.1	79.2
Manitowoc	813	731	63	10	6	89.9	87.9	85.9
Marathon	1,664	1,301	311	39	4	78.2	76.6	78.4
Marinette	384	316	59	5	1	82.3	79.0	82.6
Marquette	154	114	33	4	1	74.0	80.9	71.9
Menominee	95	69	13	2	1	72.6	73.8	78.4
Milwaukee	15,248	12,267	2,149	370	193	80.4	77.5	79.3
Monroe	632	441	100	52	14	69.8	73.7	69.7

(Continued)

**Table 2-22. Births by Trimester Prenatal Care Began and County of Residence, Wisconsin 2009**

County	Total	Trimester Prenatal Care Began				Percent That Received First-Trimester Care		
		First	Second	Third	No Care	2009	2008	2007
Oconto	414	332	66	9	3	80.2	85.5	84.6
Oneida	315	287	23	1	-	91.1	92.2	89.5
Outagamie	2,236	1,976	202	34	5	88.4	87.2	87.0
Ozaukee	783	711	37	18	4	90.8	91.2	93.3
Pepin	104	88	10	2	-	84.6	81.7	72.5
Pierce	416	367	38	7	-	88.2	86.7	85.5
Polk	512	433	63	9	1	84.6	81.5	83.5
Portage	808	686	105	14	1	84.9	86.2	85.2
Price	114	100	10	1	-	87.7	82.4	81.5
Racine	2,583	2,065	392	87	26	79.9	77.7	79.6
Richland	225	180	25	7	1	80.0	76.8	78.6
Rock	1,980	1,610	253	48	11	81.3	83.6	83.3
Rusk	169	139	24	6	-	82.2	77.5	76.0
St. Croix	1,141	989	116	15	8	86.7	89.3	88.7
Sauk	787	668	84	21	1	84.9	83.8	82.8
Sawyer	195	148	27	13	-	75.9	67.5	72.1
Shawano	432	351	62	7	2	81.3	82.0	82.2
Sheboygan	1,346	1,173	129	21	3	87.1	85.7	81.2
Taylor	249	197	35	15	2	79.1	81.9	78.2
Trempealeau	379	269	83	19	-	71.0	72.6	74.8
Vernon	441	276	88	62	5	62.6	61.9	63.4
Vilas	201	165	25	4	3	82.1	80.0	80.9
Walworth	1,145	953	142	32	6	83.2	78.9	81.5
Washburn	162	128	28	1	2	79.0	77.4	82.2
Washington	1,539	1,408	108	16	3	91.5	88.8	89.2
Waukesha	3,751	3,486	196	22	8	92.9	91.7	91.4
Waupaca	586	483	75	16	5	82.4	85.1	88.0
Waushara	234	183	39	11	-	78.2	70.7	72.2
Winnebago	1,961	1,736	172	31	6	88.5	86.4	86.1
Wood	853	704	99	19	19	82.5	80.3	80.3

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: Included in the totals are 1,066 births for which prenatal care initiation was not reported. A dash (-) indicates that there were no births in that category.

**Table 2-23. Births by Trimester Prenatal Care Began and Region, Wisconsin 2009**

	Total	Trimester Prenatal Care Began				Percent That Received First-Trimester Care		
		First	Second	Third	No Care	2009	2008	2007
<b>Total</b>	<b>70,824</b>	<b>59,060</b>	<b>8,690</b>	<b>1,582</b>	<b>426</b>	<b>83.4%</b>	<b>82.2%</b>	<b>82.8%</b>
<b>DHS Regions</b>								
Southern	13,262	11,175	1,491	302	41	84.3	84.1	84.6
Southeastern	28,220	23,454	3,478	627	253	83.1	81.0	82.4
Northeastern	14,549	12,415	1,651	262	50	85.3	84.5	84.1
Western	9,375	7,574	1,312	268	48	80.8	80.7	80.8
Northern	5,418	4,442	758	123	34	82.0	80.8	80.8
<b>Perinatal Regions</b>								
South Central	14,778	12,532	1,653	287	43	84.8	84.5	85.0
Southeast	27,424	22,845	3,331	596	249	83.3	81.2	82.3
Fox Valley	7,139	6,162	723	144	20	86.3	85.1	85.1
Northeast	6,064	5,080	799	97	27	83.8	83.4	83.6
Western	8,468	6,903	1,132	261	44	81.5	81.1	81.3
North Central	5,590	4,457	889	168	37	79.7	78.4	78.8
Northwest	1,361	1,081	163	29	6	79.4	81.7	80.8

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: Included in the totals are 1,066 births for which prenatal care initiation was not reported. For maps of the Department of Health Services (DHS) and Perinatal Regions, see Technical Notes (pages 105 and 106).

**Table 2-24. Births by Number of Prenatal Care Visits and County of Residence, Wisconsin 2009**

County	Total	Number of Prenatal Care Visits					Percent of Births With <10 Visits
		No Visits	1-4	5-9	10-12	13+	
<b>Total</b>	<b>70,824</b>	<b>426</b>	<b>1,790</b>	<b>11,921</b>	<b>29,792</b>	<b>25,655</b>	<b>20.0%</b>
Adams	172	1	7	43	70	49	29.7
Ashland	207	1	4	36	77	80	19.8
Barron	499	2	19	109	271	95	26.1
Bayfield	133	1	2	13	64	43	12.0
Brown	3,428	12	52	550	1,582	1,211	17.9
Buffalo	148	-	4	27	74	42	20.9
Burnett	144	1	3	36	53	48	27.8
Calumet	584	1	10	73	267	223	14.4
Chippewa	758	3	23	276	267	178	39.8
Clark	574	5	93	209	172	92	53.5
Columbia	662	3	11	130	287	219	21.8
Crawford	185	-	6	21	57	97	14.6
Dane	6,124	9	73	1,056	2,472	2,404	18.6
Dodge	884	-	12	132	355	352	16.3
Door	271	1	6	46	106	107	19.6
Douglas	484	1	13	74	177	165	18.2
Dunn	455	-	16	99	188	151	25.3
Eau Claire	1,167	4	33	220	479	426	22.0
Florence	37	1	1	9	9	17	29.7
Fond du Lac	1,174	2	38	481	419	218	44.4
Forest	106	1	2	15	44	44	17.0
Grant	563	3	33	153	236	132	33.6
Green	436	2	3	73	172	183	17.9
Green Lake	210	-	10	58	91	49	32.4
Iowa	313	3	3	68	154	79	23.6
Iron	36	-	-	6	15	14	16.7
Jackson	259	3	21	60	102	66	32.4
Jefferson	997	1	18	133	476	347	15.2
Juneau	284	-	7	76	125	74	29.2
Kenosha	2,174	12	45	338	1,007	712	18.2
Kewaunee	227	1	2	36	102	83	17.2
La Crosse	1,372	5	17	261	534	541	20.6
Lafayette	206	2	13	55	81	53	34.0
Langlade	180	-	1	41	98	40	23.3
Lincoln	320	1	4	38	162	115	13.4
Manitowoc	813	6	13	95	273	416	14.0
Marathon	1,664	4	35	294	856	467	20.0
Marinette	384	-	4	53	162	164	14.8
Marquette	154	1	3	56	68	24	39.0
Menominee	95	1	5	38	24	16	46.3
Milwaukee	15,248	193	499	2,496	6,188	5,594	20.9
Monroe	632	14	67	118	189	229	31.5

(Continued)

**Table 2-24. Births by Number of Prenatal Care Visits and County of Residence, Wisconsin 2009**

County	Total	Number of Prenatal Care Visits					Percent of Births With <10 Visits
		No Visits	1-4	5-9	10-12	13+	
Oconto	414	3	12	66	190	140	19.6
Oneida	315	-	1	32	118	163	10.5
Outagamie	2,236	5	35	286	984	892	14.6
Ozaukee	783	4	12	83	349	323	12.6
Pepin	104	-	7	13	35	45	19.2
Pierce	416	-	9	72	192	143	19.5
Polk	512	1	11	99	230	167	21.7
Portage	808	1	8	128	380	289	17.0
Price	114	-	1	18	52	41	16.7
Racine	2,583	26	59	377	974	1,133	17.9
Richland	225	1	10	53	98	48	28.4
Rock	1,980	11	31	261	951	641	15.3
Rusk	169	-	16	60	77	16	45.0
St. Croix	1,141	8	10	206	545	360	19.6
Sauk	787	1	30	124	363	259	19.7
Sawyer	195	-	11	49	92	39	30.8
Shawano	432	2	13	85	202	114	23.1
Sheboygan	1,346	3	14	168	463	612	13.7
Taylor	249	2	19	58	100	70	31.7
Trempealeau	379	-	21	87	145	123	28.5
Vernon	441	5	96	83	124	125	41.7
Vilas	201	3	10	40	75	73	26.4
Walworth	1,145	6	23	171	605	325	17.5
Washburn	162	2	1	41	87	28	27.2
Washington	1,539	3	6	130	568	825	9.0
Waukesha	3,751	8	32	321	1,682	1,630	9.6
Waupaca	586	5	11	127	270	162	24.4
Waushara	234	-	7	59	92	75	28.2
Winnebago	1,961	6	24	258	761	888	14.7
Wood	853	19	19	165	383	247	23.8

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: Included in the totals are 1,240 births for which number of prenatal care visits was not reported. A dash (-) indicates that there were no births in that category.

**Table 2-25. Births by Number of Prenatal Care Visits and Region, Wisconsin 2009**

	Total	Number of Prenatal Care Visits					Percent of Births With <10 Visits
		No Visits	1-4	5-9	10-12	13+	
<b>Total</b>	<b>70,824</b>	<b>426</b>	<b>1,790</b>	<b>11,921</b>	<b>29,792</b>	<b>25,655</b>	<b>20.0%</b>
<b>DHS Regions</b>							
Southern	13,262	41	335	2,328	5,545	4,715	20.4
Southeastern	28,220	253	694	4,049	11,849	10,889	17.7
Northeastern	14,549	49	259	2,535	6,056	5,394	19.5
Western	9,375	49	384	2,067	3,817	2,915	26.7
Northern	5,418	34	118	942	2,525	1,742	20.2
<b>Perinatal Regions</b>							
South Central	14,778	43	274	2,528	6,445	5,165	19.3
Southeast	27,424	249	667	3,913	11,231	10,829	17.6
Fox Valley	7,139	20	138	1,398	2,952	2,531	21.8
Northeast	6,064	26	107	969	2,641	2,251	18.2
Western	8,468	45	360	1,751	3,432	2,788	25.5
North Central	5,590	37	210	1,107	2,526	1,674	24.2
Northwest	1,361	6	34	255	565	417	21.7

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: Included in the totals are 1,240 births for which number of prenatal care visits was not reported. For maps of the Department of Health Services (DHS) and Perinatal Regions, see Technical Notes (pages 105 and 106).

**Table 2-26. Births by Birthweight and County of Residence, Wisconsin 2009**

County	Total Births	<1,500 Grams	1,500- 2,499 Grams	2,500+ Grams	Total <2,500 Grams	Percent Low Birthweight	
						2009	2008
<b>Total</b>	<b>70,824</b>	<b>864</b>	<b>4,176</b>	<b>65,768</b>	<b>5,040</b>	<b>7.1%</b>	<b>7.0%</b>
Adams	172	2	10	160	12	7.0	6.6
Ashland	207	3	8	196	11	5.3	4.5
Barron	499	3	26	470	29	5.8	6.3
Bayfield	133	1	6	126	7	5.3	4.0
Brown	3,428	35	165	3,228	200	5.8	6.3
Buffalo	148	1	9	138	10	6.8	10.1
Burnett	144	-	7	137	7	4.9	7.4
Calumet	584	5	25	554	30	5.1	5.4
Chippewa	758	9	36	713	45	5.9	6.9
Clark	574	1	29	544	30	5.2	5.2
Columbia	662	10	39	613	49	7.4	7.4
Crawford	185	-	7	178	7	3.8	10.2
Dane	6,124	49	304	5,771	353	5.8	6.0
Dodge	884	10	33	841	43	4.9	6.3
Door	271	1	15	255	16	5.9	6.7
Douglas	484	6	23	454	29	6.0	7.0
Dunn	455	5	32	418	37	8.1	4.5
Eau Claire	1,167	5	59	1,103	64	5.5	5.0
Florence	37	-	2	35	2	5.4	8.1
Fond du Lac	1,174	12	87	1,075	99	8.4	6.5
Forest	106	-	8	98	8	7.5	9.2
Grant	563	1	27	535	28	5.0	5.8
Green	436	2	23	411	25	5.7	7.7
Green Lake	210	-	10	200	10	4.8	5.5
Iowa	313	1	10	302	11	3.5	4.3
Iron	36	1	-	35	1	2.8	5.8
Jackson	259	6	11	242	17	6.6	6.6
Jefferson	997	11	39	946	50	5.0	6.6
Juneau	284	6	15	263	21	7.4	5.5
Kenosha	2,174	20	146	2,008	166	7.6	8.6
Kewaunee	227	7	9	211	16	7.0	5.7
La Crosse	1,372	12	62	1,296	74	5.4	6.6
Lafayette	206	1	7	198	8	3.9	4.2
Langlade	180	-	12	168	12	6.7	4.9
Lincoln	320	1	14	305	15	4.7	5.4
Manitowoc	813	11	46	756	57	7.0	8.3
Marathon	1,664	14	77	1,573	91	5.5	6.0
Marinette	384	2	25	357	27	7.0	6.6
Marquette	154	-	6	148	6	3.9	6.6
Menominee	95	2	3	90	5	5.3	3.1
Milwaukee	15,248	283	1,180	13,779	1,463	9.6	8.9
Monroe	632	1	24	607	25	4.0	5.6

(Continued)

**Table 2-26. Births by Birthweight and County of Residence, Wisconsin 2009**

County	Total Births	<1,500 Grams	1,500-2,499 Grams	2,500+ Grams	Total <2,500 Grams	Percent Low Birthweight	
						2009	2008
Oconto	414	4	18	392	22	5.3	6.0
Oneida	315	3	15	297	18	5.7	7.8
Outagamie	2,236	38	128	2,070	166	7.4	8.3
Ozaukee	783	6	39	738	45	5.7	5.6
Pepin	104	1	7	96	8	7.7	6.1
Pierce	416	6	32	378	38	9.1	5.2
Polk	512	8	22	482	30	5.9	4.3
Portage	808	4	49	755	53	6.6	6.1
Price	114	-	8	106	8	7.0	6.5
Racine	2,583	42	179	2,360	221	8.6	9.5
Richland	225	4	9	212	13	5.8	3.0
Rock	1,980	31	130	1,819	161	8.1	5.5
Rusk	169	1	9	159	10	5.9	6.9
St. Croix	1,141	18	44	1,078	62	5.4	6.1
Sauk	787	10	39	738	49	6.2	4.8
Sawyer	195	1	11	183	12	6.2	6.7
Shawano	432	9	25	398	34	7.9	5.8
Sheboygan	1,346	16	70	1,260	86	6.4	6.1
Taylor	249	1	21	227	22	8.8	7.1
Trempealeau	379	8	21	350	29	7.7	4.2
Vernon	441	4	20	417	24	5.4	5.2
Vilas	201	5	9	187	14	7.0	8.0
Walworth	1,145	14	55	1,074	69	6.0	5.1
Washburn	162	-	5	157	5	3.1	6.5
Washington	1,539	14	77	1,448	91	5.9	6.4
Waukesha	3,751	31	246	3,474	277	7.4	6.5
Waupaca	586	12	31	542	43	7.3	7.6
Waushara	234	2	15	217	17	7.3	3.9
Winnebago	1,961	23	130	1,808	153	7.8	6.9
Wood	853	8	36	809	44	5.2	6.9

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: Included in the totals are 16 births for which birthweight was not reported. Infants weighing less than 2,500 grams (5.5 pounds) at birth are considered low birthweight. Infants weighing less than 1,500 grams (3.3 pounds) at birth are considered very low birthweight. A dash (-) indicates that there were no births in that category.



**Table 2-27. Births by Birthweight and Region, Wisconsin 2009**

	Total Births	<1,500 Grams	1,500- 2,499 Grams	2,500+ Grams	Total <2,500 Grams	Percent Low Birthweight	
						2009	2008
<b>Total</b>	<b>70,824</b>	<b>864</b>	<b>4,176</b>	<b>65,768</b>	<b>5,040</b>	<b>7.1%</b>	<b>7.0%</b>
<b>DHS Regions</b>							
Southern	13,262	131	673	12,458	804	6.1	5.9
Southeastern	28,220	421	1,961	25,827	2,382	8.4	8.2
Northeastern	14,549	179	808	13,561	987	6.8	6.7
Western	9,375	91	458	8,822	549	5.9	5.9
Northern	5,418	42	276	5,100	318	5.9	6.3
<b>Perinatal Regions</b>							
South Central	14,778	152	740	13,883	892	6.0	5.9
Southeast	27,424	412	1,937	25,067	2,349	8.6	8.3
Fox Valley	7,139	92	432	6,614	524	7.3	7.1
Northeast	6,064	71	306	5,687	377	6.2	6.5
Western	8,468	87	412	7,966	499	5.9	5.9
North Central	5,590	38	289	5,263	327	5.8	6.3
Northwest	1,361	12	60	1,288	72	5.3	6.3

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: Included in the totals are 16 births for which birthweight was not reported. Infants weighing less than 2,500 grams or 5.5 pounds at birth are considered low birthweight. Infants weighing less than 1,500 grams or 3.3 pounds at birth are considered very low birthweight. For maps of the Department of Health Services (DHS) and Perinatal Regions, see Technical Notes (pages 105 and 106).

**Table 2-28. Fetal, Neonatal, Postneonatal and Infant Deaths by County of Residence, Wisconsin 2009**

<b>County</b>	<b>Fetal Deaths (Gestation <math>\geq</math>20 weeks)</b>	<b>Neonatal Deaths (Age &lt;28 days)</b>	<b>+ Postneonatal Deaths (Age 28 days to 1 year)</b>	<b>= Infant Deaths (Age &lt; 1 year)</b>
<b>Total</b>	<b>341</b>	<b>281</b>	<b>145</b>	<b>426</b>
Adams	2	1	-	1
Ashland	-	1	1	2
Barron	2	2	2	4
Bayfield	1	-	2	2
Brown	15	12	6	18
Buffalo	1	1	-	1
Burnett	-	-	-	-
Calumet	2	2	1	3
Chippewa	3	1	2	3
Clark	4	2	1	3
Columbia	1	3	2	5
Crawford	1	-	-	-
Dane	38	20	9	29
Dodge	1	5	-	5
Door	1	1	-	1
Douglas	-	-	2	2
Dunn	2	1	-	1
Eau Claire	6	2	1	3
Florence	1	-	-	-
Fond du Lac	5	6	-	6
Forest	2	-	1	1
Grant	1	1	-	1
Green	6	1	-	1
Green Lake	1	1	-	1
Iowa	4	-	1	1
Iron	1	-	-	-
Jackson	1	1	-	1
Jefferson	2	5	5	10
Juneau	5	-	1	1
Kenosha	7	6	6	12
Kewaunee	1	1	-	1
La Crosse	6	6	-	6
Lafayette	-	-	-	-
Langlade	-	-	-	-
Lincoln	-	-	1	1
Manitowoc	11	3	3	6

(Continued)

**Table 2-28. Fetal, Neonatal, Postneonatal and Infant Deaths by County of Residence, Wisconsin 2009**

County	Fetal Deaths (Gestation $\geq$ 20 weeks)	Neonatal Deaths (Age <28 days)	+ Postneonatal Deaths (Age 28 days to 1 year)	= Infant Deaths (Age < 1 year)
Marathon	5	2	1	3
Marinette	1	-	-	-
Marquette	1	-	-	-
Menominee	-	2	-	2
Milwaukee	80	92	52	144
Monroe	2	2	-	2
Oconto	-	-	1	1
Oneida	2	1	1	2
Outagamie	11	10	3	13
Ozaukee	5	2	2	4
Pepin	-	1	-	1
Pierce	-	1	-	1
Polk	1	3	1	4
Portage	2	-	2	2
Price	1	-	-	-
Racine	13	17	2	19
Richland	1	1	-	1
Rock	10	7	8	15
Rusk	1	-	-	-
St. Croix	1	4	2	6
Sauk	2	3	1	4
Sawyer	2	-	-	-
Shawano	1	2	-	2
Sheboygan	8	6	-	6
Taylor	1	3	-	3
Trempealeau	1	-	1	1
Vernon	2	3	2	5
Vilas	-	1	-	1
Walworth	9	1	-	1
Washburn	2	-	1	1
Washington	7	6	2	8
Waukesha	15	10	8	18
Waupaca	4	1	2	3
Waushara	4	-	1	1
Winnebago	10	10	4	14
Wood	2	5	1	6
Unknown	-	-	-	-

Source: Fetal death and matched birth-death files, Office of Health Informatics, Division of Public Health, Department of Health Services.

Note: A dash (-) indicates that there were no events in that category.

**Table 2-29. Fetal, Neonatal, Postneonatal and Infant Deaths by Region, Wisconsin 2009**

	<b>Fetal Deaths</b> (Gestation $\geq$ 20 weeks)	<b>Neonatal Deaths</b> (Age <28 days)	<b>+ Postneonatal Deaths</b> (Age 28 days to 1 year)	<b>= Infant Deaths</b> (Age < 1 year)
<b>Total</b>	<b>341</b>	<b>281</b>	<b>145</b>	<b>426</b>
<b>DHS Region</b>				
Southern	74	45	24	69
Southeastern	138	139	77	216
Northeastern	76	57	21	78
Western	33	27	13	40
Northern	20	13	10	23
<b>Perinatal Regions</b>				
South Central	82	48	27	75
Southeast	135	139	72	211
Fox Valley	38	30	11	41
Northeast	30	21	10	31
Western	29	28	11	39
North Central	21	14	8	22
Northwest	6	1	6	7

**Table 2-30. Rates of Fetal, Neonatal, Postneonatal and Infant Deaths by Region, Wisconsin 2009**

	<b>Fetal Deaths</b> (Gestation $\geq$ 20 weeks)	<b>Neonatal Deaths</b> (Age <28 days)	<b>+ Postneonatal Deaths</b> (Age 28 days to 1 year)	<b>= Infant Deaths</b> (Age < 1 year)
<b>Total</b>	<b>4.8</b>	<b>4.0</b>	<b>2.0</b>	<b>6.0</b>
<b>DHS Region</b>				
Southern	5.5	3.4	1.8	5.2
Southeastern	4.9	4.9	2.7	7.7
Northeastern	5.2	3.9	1.4	5.4
Western	3.5	2.9	-	4.3
Northern	3.7	-	-	4.2
<b>Perinatal Regions</b>				
South Central	5.5	3.2	1.8	5.1
Southeast	4.9	5.1	2.6	7.7
Fox Valley	5.3	4.2	-	5.7
Northeast	4.9	3.5	-	5.1
Western	3.4	3.3	-	4.6
North Central	3.7	-	-	3.9
Northwest	-	-	-	-

Source: Fetal death and matched birth-death files, Office of Health Informatics, Division of Public Health, Department of Health Services.

Note: The fetal death rate is based on the number of fetal deaths per 1,000 live births and reported fetal deaths. The neonatal death rate is based on the number of neonatal deaths per 1,000 live births. The infant death rate is based on the number of infant deaths per 1,000 live births. Rates based on fewer than 20 deaths are omitted because they are subject to large random fluctuations.

**Table 2-31. Fetal, Neonatal, Postneonatal and Infant Deaths by Selected Places, Wisconsin 2009**

<b>City of Residence</b>	<b>Fetal Deaths (Gestation <math>\geq</math>20 weeks)</b>	<b>Neonatal Deaths (Age &lt;28 days)</b>	<b>+ Postneonatal Deaths (Age 28 days to 1 year)</b>	<b>= Infant Deaths (Age &lt; 1 year)</b>
Appleton	4	5	3	8
Beloit	1	1	3	4
Brookfield	2	1	-	1
Caledonia (V)	1	1	1	2
De Pere	-	2	-	2
Eau Claire	6	1	1	2
Fitchburg	4	1	1	2
Fond du Lac	2	4	-	4
Franklin	-	-	-	-
Grand Chute	-	3	-	3
Green Bay	11	5	4	9
Greenfield	2	4	-	4
Janesville	5	5	2	7
Kenosha	7	5	6	11
La Crosse	2	1	-	1
Madison	19	15	5	20
Manitowoc	8	-	2	2
Menomonee Falls (V)	4	-	-	-
Mequon/Thiensville	-	-	-	-
Milwaukee	73	73	49	122
Mount Pleasant (V)	-	-	-	-
Muskego	1	1	-	1
Neenah/Menasha	4	4	-	4
New Berlin	1	-	2	2
Oak Creek	-	4	-	4
Oshkosh	5	4	2	6
Racine	8	13	1	14
Sheboygan	6	3	-	3
South Milwaukee	1	1	2	3
Stevens Point	-	-	1	1
Sun Prairie	4	-	-	-
Superior	-	-	2	2
Watertown	-	2	2	4
Waukesha	5	2	1	3
Wausau	3	-	1	1
Wauwatosa	-	1	-	1
West Allis	3	4	-	4
West Bend	4	4	1	5

Source: Fetal death and matched birth-death files, Office of Health Informatics, Division of Public Health, Department of Health Services.

Note: A dash (-) indicates that there were no events in that category. This table includes cities, townships (T) and villages (V) with a population of 20,000 or more according to population estimates from the United States Census Bureau and the Wisconsin Department of Administration, Demographic Services Center. These population estimates are provisional and subject to revision. Combined areas include: Mequon (C) with Thiensville (V); and Neenah (C) with Menasha (C).

**Table 3-1. Number of Births by County of Residence, Wisconsin 1980-2009**

<b>County</b>	<b>1980</b>	<b>1981</b>	<b>1982</b>	<b>1983</b>	<b>1984</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>
<b>Total</b>	<b>74,763</b>	<b>74,309</b>	<b>74,327</b>	<b>72,499</b>	<b>73,050</b>	<b>73,647</b>	<b>72,229</b>	<b>70,907</b>	<b>70,711</b>	<b>71,890</b>
Adams	179	177	175	164	182	170	170	164	173	144
Ashland	279	302	282	295	256	248	274	220	256	249
Barron	654	693	745	679	672	628	578	567	571	557
Bayfield	219	212	209	230	200	193	187	174	174	153
Brown	2,802	2,824	2,833	2,856	2,821	2,917	2,829	2,910	2,847	2,968
Buffalo	236	197	239	229	184	227	213	220	165	175
Burnett	167	203	179	194	162	160	157	152	142	164
Calumet	546	519	556	551	550	514	567	546	536	538
Chippewa	903	924	854	920	851	867	822	709	715	738
Clark	641	581	587	576	533	514	468	488	518	434
Columbia	667	668	682	655	624	650	657	608	579	585
Crawford	293	284	296	276	272	239	251	250	241	203
Dane	4,685	4,638	4,684	4,657	4,902	4,984	5,067	5,124	5,070	5,136
Dodge	1,186	1,173	1,187	1,108	1,115	1,146	1,115	1,055	1,020	1,029
Door	412	397	406	379	345	400	368	376	317	320
Douglas	702	713	676	645	580	590	549	547	532	517
Dunn	537	536	551	503	506	501	467	398	436	436
Eau Claire	1,117	1,265	1,255	1,185	1,203	1,201	1,111	1,178	1,237	1,238
Florence	55	64	66	54	50	63	51	45	57	26
Fond du Lac	1,512	1,406	1,409	1,333	1,382	1,368	1,316	1,247	1,248	1,162
Forest	140	161	147	156	144	156	136	152	136	114
Grant	867	814	812	805	785	743	753	713	626	635
Green	483	471	514	507	439	471	469	404	404	429
Green Lake	262	325	287	310	279	266	240	230	237	214
Iowa	345	342	340	366	335	319	346	305	306	302
Iron	84	72	86	64	63	76	63	68	66	55
Jackson	276	271	291	257	236	240	228	230	249	229
Jefferson	973	1,029	952	953	987	1,004	893	901	849	927
Juneau	347	355	331	343	327	339	301	323	279	278
Kenosha	1,826	1,815	1,789	1,839	1,796	1,910	1,787	1,931	1,909	2,077
Kewaunee	323	347	311	303	336	303	274	301	227	259
La Crosse	1,350	1,396	1,372	1,470	1,443	1,394	1,408	1,365	1,362	1,388
Lafayette	289	339	300	321	314	271	265	229	213	220
Langlade	287	313	271	334	276	259	299	249	280	242
Lincoln	406	460	383	384	405	363	323	349	315	372
Manitowoc	1,338	1,262	1,345	1,208	1,263	1,228	1,127	1,136	1,040	1,035

(Continued)

**Table 3-1. Number of Births by County of Residence, Wisconsin 1980-2009**

County	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Marathon	1,930	1,806	1,804	1,728	1,730	1,812	1,650	1,644	1,620	1,685
Marinette	662	671	578	559	551	592	562	535	494	471
Marquette	167	163	183	148	184	158	175	169	141	149
Menominee	111	96	108	116	112	132	151	138	113	114
Milwaukee	15,842	15,806	16,063	15,631	15,887	16,296	16,254	16,035	16,358	17,009
Monroe	607	582	638	564	581	600	555	552	569	622
Oconto	469	435	461	415	458	451	453	413	433	410
Oneida	423	467	429	425	455	437	423	373	387	365
Outagamie	2,340	2,229	2,172	2,197	2,171	2,320	2,180	2,227	2,268	2,258
Ozaukee	992	963	932	935	943	960	954	955	947	973
Pepin	128	127	112	131	128	94	122	97	98	87
Pierce	507	527	532	484	494	492	498	434	452	436
Polk	506	561	560	520	596	506	488	506	466	441
Portage	928	891	896	851	956	876	903	818	850	804
Price	242	232	243	238	238	225	215	182	209	190
Racine	2,980	2,855	2,717	2,691	2,794	2,641	2,653	2,661	2,640	2,782
Richland	275	302	281	278	284	267	228	246	219	234
Rock	2,256	2,115	2,196	2,088	2,116	2,189	2,183	2,106	2,079	2,120
Rusk	222	251	259	256	258	216	234	203	202	229
St. Croix	835	773	762	788	815	741	805	824	740	817
Sauk	654	696	691	661	697	690	674	671	663	669
Sawyer	219	239	228	215	224	203	224	228	196	187
Shawano	528	543	550	536	530	488	499	507	531	501
Sheboygan	1,588	1,595	1,588	1,515	1,517	1,507	1,492	1,379	1,397	1,380
Taylor	379	339	370	345	340	354	294	280	309	292
Trempealeau	373	416	400	387	392	370	352	324	316	327
Vernon	408	440	408	376	409	409	406	328	344	356
Vilas	228	218	226	222	236	240	214	228	190	195
Walworth	1,026	971	1,053	915	896	1,009	951	914	995	891
Washburn	226	202	208	210	227	198	201	171	158	157
Washington	1,442	1,422	1,387	1,359	1,359	1,383	1,335	1,305	1,315	1,335
Waukesha	3,841	3,824	3,808	3,610	3,661	3,727	3,799	3,779	3,940	4,038
Waupaca	697	690	677	660	625	656	637	597	603	604
Waushara	243	236	267	294	241	247	266	259	231	234
Winnebago	1,901	1,867	1,945	1,887	1,961	2,028	1,964	1,894	1,901	1,909
Wood	1,199	1,211	1,192	1,155	1,166	1,211	1,106	1,061	1,005	1,070
Unknown	1	-	1	-	-	-	-	-	-	1

(Continued)

**Table 3-1. Number of Births by County of Residence, Wisconsin 1980-2009**

County	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>Total</b>	<b>72,636</b>	<b>72,039</b>	<b>70,662</b>	<b>69,760</b>	<b>68,267</b>	<b>67,493</b>	<b>67,076</b>	<b>66,490</b>	<b>67,379</b>	<b>68,181</b>
Adams	175	162	189	163	162	167	184	157	167	179
Ashland	202	197	207	225	199	239	234	202	208	195
Barron	579	553	556	496	517	550	503	463	475	506
Bayfield	155	150	183	157	141	135	149	147	139	150
Brown	3,169	3,141	2,947	3,035	3,051	2,962	3,050	3,051	3,130	3,098
Buffalo	176	182	156	169	156	165	146	143	143	159
Burnett	143	149	154	142	135	171	147	133	149	146
Calumet	491	478	524	485	495	488	466	452	480	504
Chippewa	704	720	668	675	643	633	590	638	633	684
Clark	464	429	405	434	452	448	467	470	537	493
Columbia	610	605	584	640	610	607	616	633	620	623
Crawford	230	206	203	184	197	215	183	182	206	202
Dane	5,306	5,224	5,209	5,181	4,848	5,023	4,976	5,023	5,125	5,189
Dodge	985	995	938	1,013	936	947	976	926	944	986
Door	325	322	298	305	270	254	260	218	239	265
Douglas	540	599	532	525	527	493	532	507	509	468
Dunn	417	399	451	428	439	444	434	466	471	441
Eau Claire	1,208	1,188	1,134	1,163	1,133	1,118	1,079	1,105	1,058	1,084
Florence	-	62	66	45	48	36	48	38	33	49
Fond du Lac	1,270	1,224	1,215	1,107	1,128	1,119	1,138	1,118	1,141	1,202
Forest	132	134	136	138	125	137	92	117	93	114
Grant	661	606	595	555	544	561	497	526	505	476
Green	418	420	419	380	368	390	408	370	379	392
Green Lake	241	217	198	187	204	192	208	216	228	214
Iowa	318	289	292	279	254	296	260	259	290	297
Iron	68	65	55	64	66	63	57	63	38	20
Jackson	217	219	215	217	204	189	193	211	198	198
Jefferson	873	872	824	898	877	852	891	914	892	939
Juneau	277	307	305	277	296	308	264	271	277	282
Kenosha	2,043	2,234	2,167	2,039	2,026	2,040	2,008	2,027	2,077	2,162
Kewaunee	237	216	229	226	216	218	214	228	220	240
La Crosse	1,416	1,406	1,364	1,346	1,343	1,267	1,236	1,327	1,267	1,238
Lafayette	227	240	214	198	180	176	180	159	175	169
Langlade	232	244	263	266	219	228	214	229	199	236
Lincoln	343	332	358	343	356	320	338	329	304	342
Manitowoc	1,072	1,060	1,006	1,000	955	898	941	902	922	918

(Continued)



**Table 3-1. Number of Births by County of Residence, Wisconsin 1980-2009**

County	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Marathon	1,685	1,651	1,664	1,631	1,649	1,585	1,621	1,581	1,476	1,484
Marinette	431	508	428	492	467	454	424	424	445	398
Marquette	148	137	138	138	147	121	147	177	126	176
Menominee	128	128	115	118	76	92	91	95	89	97
Milwaukee	17,013	16,686	16,547	16,076	15,539	15,067	14,791	14,338	14,733	14,832
Monroe	591	569	564	537	514	529	557	511	549	510
Oconto	398	404	370	392	360	388	374	347	367	379
Oneida	371	355	387	361	382	352	326	347	332	313
Outagamie	2,273	2,273	2,212	2,134	2,166	2,056	2,101	2,176	2,172	2,191
Ozaukee	945	964	950	956	929	934	961	860	967	871
Penin	90	100	83	80	76	83	75	87	81	98
Pierce	477	423	398	405	435	403	373	344	434	379
Polk	529	461	453	469	463	470	409	415	425	471
Portage	913	804	851	815	814	788	796	759	741	789
Price	185	206	178	181	157	184	154	150	157	141
Racine	2,697	2,771	2,617	2,690	2,561	2,512	2,592	2,564	2,633	2,534
Richland	219	213	201	200	208	196	187	192	199	193
Rock	2,166	2,155	2,121	2,149	2,021	1,963	1,969	1,990	2,040	2,013
Rusk	213	195	192	222	195	192	161	162	158	176
St. Croix	840	797	819	713	754	725	767	758	777	886
Sauk	670	648	620	678	662	670	676	697	711	671
Sawyer	176	178	200	176	199	196	188	175	154	161
Shawano	525	497	463	449	454	456	458	438	467	480
Sheboygan	1,401	1,369	1,343	1,351	1,389	1,336	1,333	1,348	1,323	1,380
Taylor	289	258	248	247	232	221	225	198	225	229
Trempealeau	369	356	367	333	348	315	326	328	337	296
Vernon	332	352	318	319	334	351	338	347	344	374
Vilas	201	208	205	201	152	205	167	171	175	170
Walworth	996	999	935	911	978	952	1,019	1,019	1,067	1,107
Washburn	159	141	167	162	155	168	148	144	148	155
Washington	1,349	1,421	1,396	1,405	1,393	1,440	1,456	1,415	1,469	1,566
Waukesha	4,046	4,058	4,026	3,963	4,122	4,120	4,138	4,156	4,124	4,284
Waupaca	667	640	661	630	599	619	617	573	596	599
Waushara	245	240	237	225	231	240	219	236	240	217
Winnebago	1,936	1,983	1,883	1,901	1,864	1,838	1,756	1,826	1,725	1,798
Wood	1,039	1,045	1,046	1,065	921	923	957	922	902	903
Unknown	-	-	-	-	1	-	-	-	-	-

(Continued)

**Table 3-1. Number of Births by County of Residence, Wisconsin 1980-2009**

County	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
<b>Total</b>	<b>69,289</b>	<b>69,012</b>	<b>68,510</b>	<b>69,999</b>	<b>70,130</b>	<b>70,934</b>	<b>72,302</b>	<b>72,757</b>	<b>72,002</b>	<b>70,824</b>
Adams	158	179	160	161	162	159	160	154	183	172
Ashland	224	190	211	208	184	198	203	214	198	207
Barron	466	472	514	540	527	528	566	548	505	499
Bayfield	141	135	151	111	140	121	138	121	126	133
Brown	3,212	3,232	3,282	3,364	3,211	3,332	3,441	3,518	3,451	3,428
Buffalo	163	143	160	150	155	147	151	148	138	148
Burnett	136	155	172	138	144	159	166	136	148	144
Calumet	513	597	566	640	701	630	690	679	633	584
Chippewa	673	672	695	681	719	738	809	786	811	758
Clark	496	518	526	532	564	581	570	561	576	574
Columbia	616	651	622	646	637	691	637	679	652	662
Crawford	183	199	185	224	177	201	195	168	196	185
Dane	5,555	5,520	5,561	5,725	5,995	6,055	6,104	6,198	6,224	6,124
Dodge	994	926	950	963	980	910	979	962	954	884
Door	232	262	226	265	232	258	248	248	253	271
Douglas	513	513	474	501	485	466	490	510	470	484
Dunn	483	445	464	470	453	511	521	467	425	455
Eau Claire	1,116	1,146	1,098	1,110	1,105	1,178	1,177	1,215	1,211	1,167
Florence	36	40	36	37	33	37	33	32	37	37
Fond du Lac	1,151	1,091	1,132	1,209	1,117	1,187	1,188	1,257	1,164	1,174
Forest	114	100	100	122	108	114	106	118	98	106
Grant	540	547	548	584	590	559	615	576	605	563
Green	402	397	377	397	404	447	435	472	390	436
Green Lake	219	230	222	231	229	204	222	217	218	210
Iowa	263	310	301	308	312	320	321	308	325	313
Iron	40	48	42	53	42	45	40	38	52	36
Jackson	233	205	226	231	244	237	251	257	242	259
Jefferson	931	914	960	980	1,020	1,028	1,043	1,026	1,011	997
Juneau	275	252	298	285	293	277	301	307	275	284
Kenosha	2,151	2,119	2,091	2,160	2,125	2,133	2,212	2,142	2,306	2,174
Kewaunee	224	243	235	255	235	232	231	199	212	227
La Crosse	1,234	1,260	1,253	1,247	1,259	1,292	1,323	1,304	1,334	1,372
Lafayette	174	200	194	173	223	207	196	217	214	206
Langlade	209	213	238	212	216	202	226	217	205	180
Lincoln	281	329	334	284	315	275	348	318	317	320
Manitowoc	894	908	846	867	889	855	855	914	932	813

(Continued)

**Table 3-1. Number of Births by County of Residence, Wisconsin 1980-2009**

County	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Marathon	1,520	1,534	1,503	1,546	1,531	1,554	1,633	1,760	1,683	1,664
Marinette	457	386	395	458	423	460	411	448	396	384
Marquette	146	162	150	165	156	182	156	167	152	154
Menominee	93	93	85	90	102	104	117	102	130	95
Milwaukee	14,846	14,727	14,332	14,793	14,635	14,906	15,195	15,318	15,368	15,248
Monroe	602	593	559	624	587	615	633	666	674	632
Oconto	383	392	383	392	400	388	400	397	351	414
Oneida	316	278	327	301	333	355	296	304	320	315
Outagamie	2,289	2,244	2,337	2,255	2,294	2,291	2,252	2,281	2,384	2,236
Ozaukee	869	867	925	874	883	852	842	864	822	783
Pepin	79	88	84	79	91	99	95	91	82	104
Pierce	412	383	411	481	466	443	461	442	405	416
Polk	454	508	435	477	508	506	542	521	508	512
Portage	805	743	706	772	710	726	747	782	719	808
Price	125	139	137	123	137	130	107	130	108	114
Racine	2,650	2,581	2,540	2,539	2,499	2,623	2,652	2,623	2,673	2,583
Richland	201	204	207	205	231	228	229	220	233	225
Rock	2,075	2,028	1,966	2,055	2,002	2,052	2,125	2,161	2,076	1,980
Rusk	148	185	160	170	150	163	134	179	160	169
St. Croix	908	912	998	1,018	1,138	1,193	1,220	1,195	1,081	1,141
Sauk	755	701	722	730	764	785	796	816	773	787
Sawyer	182	182	171	157	184	205	223	208	194	195
Shawano	470	462	464	479	473	478	513	510	451	432
Sheboygan	1,437	1,339	1,380	1,376	1,382	1,481	1,422	1,407	1,403	1,346
Taylor	247	246	230	242	240	246	229	257	254	249
Trempealeau	322	330	284	338	359	331	333	385	401	379
Vernon	390	377	381	409	432	403	438	415	444	441
Vilas	155	194	189	186	188	164	204	199	175	201
Walworth	1,102	1,136	1,161	1,160	1,147	1,209	1,266	1,231	1,191	1,145
Washburn	163	156	159	183	168	173	198	191	168	162
Washington	1,490	1,484	1,517	1,489	1,429	1,495	1,537	1,518	1,524	1,539
Waukesha	4,357	4,421	4,268	4,311	4,362	4,108	4,140	4,067	3,956	3,751
Waupaca	567	602	598	596	556	537	566	592	551	586
Waushara	225	232	239	247	260	241	245	263	205	234
Winnebago	1,926	1,851	1,845	1,745	1,839	1,826	1,887	1,931	1,955	1,961
Wood	878	891	812	870	846	868	867	885	941	853
Unknown	-	-	-	-	-	-	-	-	-	-

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: In Wisconsin counties close to the Michigan border, births for 1990 are underreported to an unknown extent since Michigan did not report Wisconsin resident births for that year. In particular, all 1990 births among Florence County residents occurred in Michigan. Numbers of births for 1996 reported here are slightly different from those published in the 1996 report because other states filed 74 duplicate records for Wisconsin residents. The 2004 births total initially reported has been corrected. A dash (-) indicates there were no births in that category.

**Table 3-2. Number and Rate of Births by Age of Mother, Wisconsin 1986-2009**

		Crude Rate	Age of Mother						
Year			Total	<15	15-17	<18	18-19	15-19	<20
1986	Number		72,229	121	2,340	2,461	4,679	7,019	7,140
	Rate	15.1	63.9		21.2	20.9	60.6	37.1	37.8
1987	Number		70,907	114	2,369	2,483	4,425	6,794	6,908
	Rate	14.7	63.7		22.1	21.6	58.0	36.5	37.1
1988	Number		70,711	133	2,322	2,455	4,486	6,808	6,941
	Rate	14.6	62.6		22.7	22.8	59.5	38.4	39.2
1989	Number		71,890	141	2,416	2,557	4,707	7,123	7,264
	Rate	14.8	63.8		24.5	25.4	62.5	40.7	42.6
1990	Number		72,636	148	2,337	2,485	4,925	7,262	7,410
	Rate	14.8	64.5		24.3	24.3	65.7	42.4	43.3
1991	Number		72,039	147	2,440	2,587	4,828	7,268	7,415
	Rate	14.6	63.4		24.9	24.9	71.1	43.8	44.7
1992	Number		70,662	159	2,427	2,586	4,622	7,049	7,208
	Rate	14.2	62.2		23.9	23.9	70.1	42.1	43.0
1993	Number		69,760	175	2,481	2,656	4,576	7,057	7,232
	Rate	13.8	61.4		23.8	23.8	67.7	41.0	42.0
1994	Number		68,267	161	2,497	2,658	4,379	6,876	7,037
	Rate	13.4	59.9		23.0	23.0	63.8	38.8	39.7
1995	Number		67,493	182	2,549	2,731	4,379	6,928	7,110
	Rate	13.2	58.9		22.5	22.5	62.7	37.8	38.8
1996	Number		67,076	143	2,507	2,650	4,453	6,963	7,103
	Rate	13.0	58.2		21.4	21.4	61.9	36.8	37.5
1997	Number		66,490	163	2,541	2,704	4,384	6,925	7,088
	Rate	12.7	57.6		21.1	21.1	58.5	35.5	36.3
1998	Number		67,379	111	2,366	2,477	4,570	6,936	7,047
	Rate	12.8	58.1		19.4	19.4	57.7	34.5	35.1
1999	Number		68,181	116	2,432	2,548	4,760	7,192	7,308
	Rate	12.9	58.8		20.2	20.2	57.4	35.4	36.0
2000	Number		69,289	99	2,225	2,324	4,753	6,978	7,077
	Rate	12.9	59.9		18.8	19.6	59.4	35.2	35.7
2001	Number		69,012	80	2,167	2,247	4,602	6,769	6,849
	Rate	12.7	59.0		18.1	18.8	56.9	33.9	34.2
2002	Number		68,510	108	1,898	2,006	4,528	6,426	6,534
	Rate	12.6	58.7		16.0	17.0	55.5	32.2	32.7
2003	Number		69,999	85	1,861	1,946	4,371	6,232	6,317
	Rate	12.7	60.4		15.5	16.3	54.6	31.2	31.6
2004	Number		70,130	91	1,856	1,947	4,230	5,995	6,086
	Rate	12.7	60.3		15.7	15.7	52.1	30.0	30.5
2005	Number		70,934	86	1,776	1,862	4,231	6,007	6,093
	Rate	12.7	61.2		14.9	15.6	52.5	30.1	30.5
2006	Number		72,302	92	1,840	1,932	4,168	6,008	6,100
	Rate	12.9	63.4		15.6	16.4	53.1	30.6	31.1
2007	Number		72,757	80	1,874	1,954	4,366	6,240	6,320
	Rate	12.9	64.5		16.0	16.7	56.0	32.0	32.4
2008	Number		72,002	76	1,783	1,859	4,237	6,020	6,096
	Rate	12.7	64.2		15.4	16.1	53.4	30.9	31.3
2009	Number		70,824	61	1,608	1,669	4,186	5,794	5,855
	Rate	12.5	63.4		13.9	14.4	50.9	29.3	29.6

(Continued)

**Table 3-2. Number and Rate of Births by Age of Mother, Wisconsin 1986-2009**

Year		Age of Mother						
		20-24	25-29	30-34	35-39	40+	40-44	45+ Unknown
1986	Number	20,342	25,718	14,374	4,121	534	499	35
	Rate	103.3	120.2	70.5	23.0	3.6	3.4	
1987	Number	19,015	25,393	14,709	4,353	528	498	30 1
	Rate	103.9	119.8	72.8	24.1	3.5	3.3	
1988	Number	18,018	25,267	15,338	4,474	669	630	39 4
	Rate	94.2	116.6	73.9	24.1	4.4	4.2	
1989	Number	17,800	25,265	15,922	4,909	721	683	38 9
	Rate	96.8	118.8	75.2	25.8	4.5	4.3	
1990	Number	17,477	24,956	16,626	5,393	768	730	38 6
	Rate	96.2	123.7	78.7	27.8	4.6	4.4	
1991	Number	17,407	23,958	16,960	5,481	817	773	44 1
	Rate	94.9	123.1	79.5	27.5	4.5	4.3	
1992	Number	16,597	22,918	17,269	5,756	905	859	46 9
	Rate	91.7	121.5	81.1	28.3	5.0	4.7	
1993	Number	16,056	22,154	17,347	6,024	942	898	44 5
	Rate	90.9	121.0	82.4	29.1	5.1	4.8	
1994	Number	15,331	20,961	17,642	6,292	997	955	42 7
	Rate	89.5	117.9	84.6	29.6	5.2	4.9	
1995	Number	14,874	20,374	17,442	6,612	1,074	1,026	48 7
	Rate	88.7	115.4	85.4	30.7	5.4	5.2	
1996	Number	14,331	20,279	17,254	6,931	1,175	1,132	43 3
	Rate	87.4	115.0	86.6	31.6	5.7	5.5	
1997	Number	13,972	19,994	17,198	7,008	1,228	1,172	56 2
	Rate	84.8	115.5	89.0	32.0	5.9	5.9	
1998	Number	14,632	19,932	17,126	7,385	1,252	1,191	61 5
	Rate	86.8	117.7	90.5	33.8	5.9	5.6	
1999	Number	14,986	19,716	17,407	7,427	1,328	1,257	71 9
	Rate	86.9	119.8	93.8	34.3	6.1	5.8	
2000	Number	15,606	19,594	17,692	7,776	1,539	1,463	76 5
	Rate	89.2	119.5	96.2	35.7	7.0	6.7	
2001	Number	15,951	19,176	17,745	7,737	1,552	1,480	72 2
	Rate	90.2	115.8	95.5	35.2	7.0	6.7	
2002	Number	15,688	19,462	17,527	7,746	1,544	1,478	66 9
	Rate	80.7	121.8	97.3	37.6	6.8	6.5	
2003	Number	16,011	20,157	17,855	8,087	1,557	1,486	71 15
	Rate	80.9	123.7	102.6	40.8	6.9	6.6	
2004	Number	16,304	20,513	17,541	7,946	1,726	1,649	77 14
	Rate	81.0	120.4	102.6	41.1	7.6	7.3	
2005	Number	16,430	21,305	17,387	8,070	1,639	1,564	75 10
	Rate	81.5	119.4	104.1	42.4	7.3	7.0	
2006	Number	17,163	22,235	16,886	8,200	1,702	1,611	91 16
	Rate	86.5	126.9	101.1	43.6	7.9	7.5	
2007	Number	16,969	22,557	17,269	7,958	1,672	1,575	97 12
	Rate	87.7	124.6	104.0	43.1	8.0	7.6	
2008	Number	16,828	22,383	17,381	7,653	1,636	1,533	103 25
	Rate	86.5	121.8	104.2	42.3	8.1	7.6	
2009	Number	15,956	22,420	17,569	7,372	1,634	1,527	107 18
	Rate	77.2	123.1	108.3	42.2	8.5	7.9	

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: Rates shown for ages <18 and <20 include births to mothers less than 15 years old, with population ages 15-17 and 15-19, respectively. Rates shown for age 40+ include births to mothers ages 45 or older, with population ages 40-44. See Technical Notes (page 107) for an explanation of birth rate calculations.

**Table 3-3. Total Births and Births to Teenagers and Unmarried Mothers, Wisconsin 1980-2009**

Year	Total Births		Ages Under 18		Ages 18-19		Mother Unmarried	
	Number	Rate*	Number	Percent**	Number	Percent**	Number	Percent**
1980	74,763	15.9	2,834	3.8	6,379	8.5	10,352	13.8
1981	74,309	15.7	2,749	3.7	6,029	8.1	10,622	14.3
1982	74,327	15.6	2,543	3.4	5,659	7.6	11,187	15.1
1983	72,499	15.3	2,495	3.4	5,258	7.3	11,501	15.9
1984	73,050	15.3	2,403	3.3	4,973	6.8	12,101	16.6
1985	73,647	15.4	2,512	3.4	4,976	6.8	13,346	18.1
1986	72,229	15.1	2,461	3.4	4,679	6.5	14,166	19.6
1987	70,907	14.7	2,483	3.5	4,425	6.2	14,686	20.7
1988	70,711	14.6	2,455	3.5	4,486	6.3	15,511	21.9
1989	71,890	14.8	2,557	3.6	4,707	6.5	16,790	23.4
1990	72,636	14.8	2,485	3.4	4,925	6.8	17,615	24.3
1991	72,039	14.6	2,587	3.6	4,828	6.7	18,226	25.3
1992	70,662	14.2	2,586	3.7	4,622	6.5	18,443	26.1
1993	69,760	13.8	2,656	3.8	4,576	6.6	18,878	27.1
1994	68,267	13.4	2,658	3.9	4,379	6.4	18,523	27.1
1995	67,493	13.2	2,731	4.0	4,379	6.5	18,420	27.3
1996	67,076	13.0	2,650	4.0	4,453	6.6	18,526	27.6
1997	66,490	12.7	2,704	4.1	4,384	6.6	18,884	28.4
1998	67,379	12.8	2,477	3.7	4,570	6.8	19,599	29.1
1999	68,181	12.9	2,548	3.7	4,760	7.0	20,131	29.5
2000	69,289	12.9	2,324	3.4	4,753	6.9	20,543	29.6
2001	69,012	12.7	2,247	3.3	4,602	6.7	20,879	30.3
2002	68,510	12.6	2,006	2.9	4,528	6.6	20,707	30.2
2003	69,999	12.7	1,946	2.8	4,371	6.2	21,497	30.7
2004	70,130	12.7	1,856	2.6	4,230	6.0	22,151	31.6
2005	70,934	12.7	1,862	2.6	4,231	6.0	23,244	32.8
2006	72,302	12.9	1,932	2.7	4,168	5.8	24,809	34.3
2007	72,757	12.9	1,954	2.7	4,366	6.0	26,020	35.8
2008	72,002	12.7	1,859	2.6	4,237	5.9	26,504	36.8
2009	70,824	12.5	1,669	2.4	4,186	5.9	26,656	37.6

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

\* Crude birth rate, which is the number of live births per 1,000 estimated mid-year total population.

\*\* Percentages are based on total live births.

**Table 3-4. Births by Selected Birth Indicators, Wisconsin 1980-2009**

Year	Birth Order 4 and Above		Prenatal Care During First Trimester		Birthweight Less Than 2,500 Grams		Premature (Gestation <37 Weeks)		Congenital Anomalies	
	Number	Percent*	Number	Percent*	Number	Percent*	Number	Percent*	Number	Rate**
1980	7,035	9.4	61,796	82.7	4,037	5.4	4,037	5.4	795	10.6
1981	7,054	9.5	61,582	82.9	3,925	5.3	3,925	5.3	926	12.5
1982	6,677	9.0	61,420	82.6	3,734	5.0	3,734	5.0	877	11.8
1983	6,904	9.5	60,240	83.1	3,943	5.4	4,629	6.4	983	13.6
1984	6,973	9.5	61,225	83.8	3,756	5.1	4,488	6.1	1,103	15.1
1985	7,206	9.8	60,859	82.6	3,889	5.3	4,720	6.4	1,006	13.7
1986	7,587	10.5	59,652	82.6	3,876	5.4	4,802	6.6	952	13.2
1987	7,387	10.4	58,882	83.0	3,849	5.4	4,825	6.8	1,144	16.1
1988	7,849	11.1	58,551	82.8	3,857	5.5	4,834	6.8	1,197	16.9
1989	8,022	11.2	58,564	81.5	4,145	5.8	6,120	8.5	1,742	24.2
1990	8,272	11.4	59,275	81.6	4,284	5.9	6,544	9.0	1,523	21.0
1991	8,323	11.6	58,705	81.5	4,435	6.2	6,825	9.5	1,355	18.8
1992	8,396	11.9	57,804	81.8	4,204	5.9	6,552	9.3	1,260	17.8
1993	8,274	11.9	57,251	82.1	4,299	6.2	6,601	9.5	1,098	15.7
1994	8,149	11.9	56,717	83.1	4,358	6.4	6,828	10.0	847	12.4
1995	7,935	11.8	56,155	83.2	4,066	6.0	6,593	9.8	899	13.3
1996	7,689	11.5	56,273	83.9	4,217	6.3	6,648	9.9	912	13.6
1997	7,622	11.5	56,112	84.4	4,262	6.4	6,738	10.1	1,038	15.6
1998	7,644	11.3	56,645	84.1	4,412	6.5	6,947	10.3	988	14.7
1999	7,494	11.0	57,203	83.9	4,552	6.7	7,148	10.5	908	13.3
2000	7,800	11.3	58,129	83.9	4,526	6.5	7,236	10.4	902	13.0
2001	7,897	11.4	57,747	83.7	4,557	6.6	7,468	10.8	876	12.7
2002	7,578	11.1	57,686	84.2	4,549	6.6	7,328	10.7	879	12.8
2003	7,808	11.2	59,296	84.7	4,773	6.8	7,733	11.0	890	12.7
2004	7,825	11.2	59,666	85.1	4,906	7.0	7,702	11.0	971	13.8
2005	8,030	11.3	60,309	85.0	4,992	7.0	8,033	11.3	916	12.9
2006	8,628	11.9	60,610	83.8	4,994	6.9	8,104	11.2	1,142	15.8
2007	8,518	11.7	60,275	82.8	5,089	7.0	8,072	11.1	1,259	17.3
2008	8,507	11.8	59,217	82.2	5,051	7.0	7,970	11.1	1,117	15.5
2009	8,642	12.2	59,060	83.4	5,040	7.1	7,663	10.8	1,248	17.6

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

\* Percentages are based on total live births.

\*\* Rates are per 1,000 live births.

Notes: "Premature" means less than 37 weeks of gestation. Since 1980, gestational age has been calculated as the difference between the date of last normal menses and the date of delivery. Since 1993, clinical estimate of gestation has been substituted when date of last normal menses is unknown. Beginning in 2004, if the date of last normal menses was unknown or invalid or the computed estimate of gestational age was less than 16 weeks or greater than 45 weeks, the clinical estimate of gestation was substituted. Data for 1989-2003 shown on this page were recalculated to make them comparable with data for subsequent years, and differ from previously published data. Caution is advised in making comparisons between data for 1989-2009 and data for the years before 1989.

See Technical Notes (page 107) regarding comparability of data on congenital anomalies since 1989.

**Table 3-5. Infant, Neonatal, Fetal and Perinatal Deaths and Mortality Rates, Wisconsin 1980-2009**

Year	<u>Infant Deaths</u>			<u>Neonatal Deaths</u>			<u>Fetal Deaths</u>			<u>Perinatal Deaths</u>		
	Wisconsin Number	Rate*	U.S. Rate*	Wisconsin Number	Rate*	U.S. Rate*	Wisconsin Number	Rate**	U.S. Rate**	Wisconsin Number	Rate**	U.S. Rate**
1980	769	10.3	12.6	500	6.7	8.5	532	7.1	9.1	1,032	13.7	17.4
1981	769	10.3	11.9	514	6.9	8.0	552	7.4	8.9	1,066	14.2	16.9
1982	700	9.4	11.5	460	6.2	7.7	524	7.0	8.8	984	13.1	16.4
1983	699	9.6	11.2	459	6.3	7.3	476	6.5	8.4	935	12.8	15.6
1984	724	9.9	10.8	458	6.3	7.0	517	7.0	8.1	975	13.2	15.1
1985	674	9.2	10.6	414	5.6	7.0	481	6.5	7.8	895	12.1	14.7
1986	671	9.3	10.4	414	5.7	6.7	471	6.5	7.7	885	12.2	14.3
1987	611	8.6	10.1	361	5.1	6.5	445	6.2	7.6	806	11.3	14.1
1988	598	8.5	10.0	358	5.1	6.3	430	6.0	7.5	788	11.1	13.7
1989	662	9.2	9.8	401	5.6	6.2	480	6.6	7.5	881	12.2	13.7
1990	611	8.4	9.2	358	4.9	5.8	444	6.1	7.5	802	11.0	13.3
1991	608	8.4	8.9	370	5.1	5.6	427	5.9	7.3	797	11.0	12.8
1992	514	7.3	8.6	310	4.4	5.4	457	6.4	7.4	767	10.8	12.7
1993	553	7.9	8.4	331	4.7	5.3	401	5.7	7.1	732	10.4	12.4
1994	541	7.9	8.0	327	4.8	5.1	438	6.4	7.0	765	11.1	12.1
1995	493	7.3	7.6	311	4.6	4.9	403	5.9	7.0	714	10.5	11.8
1996	492	7.3	7.3	314	4.7	4.8	416	6.2	6.9	730	10.9	11.6
1997	431	6.5	7.2	294	4.4	4.8	361	5.4	6.8	655	9.8	11.5
1998	488	7.2	7.2	343	5.1	4.8	401	5.9	6.7	744	11.0	n/a
1999	456	6.7	7.1	294	4.3	4.7	353	5.2	6.7	647	9.4	n/a
2000	457	6.6	6.9	302	4.4	4.6	414	5.9	6.6	716	10.3	n/a
2001	491	7.1	6.8	323	4.7	4.5	375	5.4	6.5	698	10.1	n/a
2002	471	6.9	7.0	324	4.7	4.7	379	5.5	6.4	703	10.2	n/a
2003	454	6.5	6.8	309	4.4	4.6	344	4.9	6.2	653	9.3	n/a
2004	420	6.0	6.8	280	4.0	4.5	352	5.0	6.3	632	9.0	n/a
2005	469	6.6	6.9	319	4.5	4.5	363	5.1	6.2	682	9.6	n/a
2006	462	6.4	6.7	311	4.3	4.5	384	5.3	n/a	695	9.6	n/a
2007	469	6.4	n/a	292	4.0	n/a	386	5.3	n/a	678	9.3	n/a
2008	501	7.0	n/a	329	4.6	n/a	387	5.3	n/a	716	9.9	n/a
2009	426	6.0	n/a	281	4.0	n/a	341	4.8	n/a	622	8.7	n/a

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

\* Rates are per 1,000 live births.

\*\* Rates are per 1,000 live births and fetal deaths.

n/a Not available

Notes: U.S. rates of perinatal death for the years 1992-1997 are from the National Center for Health Statistics (unpublished data). See Technical Notes (page 108) for definition of perinatal deaths.



**Table 3-6. Infant Deaths and Mortality Rates by Race/Ethnicity, Wisconsin 1985-2009**

Year	White			Black/African American			Hispanic/Latino			Total		
	Wisconsin		U.S.	Wisconsin		U.S.	Wisconsin		U.S.	Wisconsin		U.S.
	Number	Rate*	Rate	Number	Rate*	Rate	Number	Rate*	Rate	Number	Rate*	Rate
1985	546	8.4	n/a	94	17.5	n/a	5	-	n/a	674	9.2	10.6
1986	533	8.4	n/a	103	18.0	n/a	9	-	n/a	671	9.3	10.4
1987	473	7.7	n/a	104	17.3	n/a	8	-	n/a	611	8.6	10.1
1988	441	7.2	n/a	109	17.2	n/a	12	-	n/a	598	8.5	10.0
1989	484	7.9	n/a	130	18.9	n/a	14	-	n/a	662	9.2	9.8
1990	440	7.2	n/a	140	19.7	n/a	10	-	n/a	611	8.4	9.2
1991	468	7.7	n/a	100	14.0	n/a	19	-	n/a	608	8.4	8.9
1992	370	6.3	n/a	102	14.0	n/a	18	-	n/a	514	7.3	8.6
1993	405	7.0	n/a	106	14.9	n/a	17	-	n/a	553	7.9	8.4
1994	368	6.5	n/a	127	18.6	n/a	22	9.2	n/a	541	7.9	8.0
1995	342	6.2	6.3	116	17.9	14.7	25	8.8	6.3	493	7.3	7.6
1996	325	5.9	6.0	117	18.3	14.2	32	10.2	6.1	492	7.3	7.3
1997	296	5.5	6.0	85	13.4	13.7	33	10.3	6.0	431	6.5	7.2
1998	308	5.6	6.0	116	17.9	13.9	40	11.0	5.8	488	7.2	7.2
1999	314	5.7	5.8	96	14.9	14.1	31	7.7	5.7	456	6.7	7.0
2000	312	5.6	5.7	108	16.8	13.6	21	4.7	5.6	457	6.6	6.9
2001	305	5.7	5.7	121	18.7	13.5	36	7.0	5.4	491	7.1	6.8
2002	297	5.5	5.8	116	18.3	13.9	35	6.6	5.6	471	6.9	7.0
2003	289	5.3	5.7	98	15.3	13.6	38	6.9	5.7	454	6.5	6.8
2004	245	4.5	5.7	125	19.2	13.6	30	5.1	5.6	420	6.0	6.8
2005	302	5.6	5.8	101	15.0	13.6	42	6.7	5.6	469	6.6	6.9
2006	268	4.9	5.6	121	17.2	13.4	43	6.3	5.4	462	6.4	6.7
2007	290	5.3	n/a	105	14.5	n/a	44	6.4	n/a	469	6.4	n/a
2008	315	5.9	n/a	100	13.8	n/a	49	7.0	n/a	501	7.0	n/a
2009	257	4.9	n/a	104	14.3	n/a	38	5.5	n/a	426	6.0	n/a

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

\* Rates are per 1,000 live births.

- Rates based on fewer than 20 deaths are omitted because they are subject to large random fluctuations.

n/a Not available

Notes: See Technical Notes (page 107) for definition of race/ethnicity categories. Total includes all infant deaths, regardless of race/ethnicity.

**Table 4-1. Number of Births by Age of Mother and Selected Characteristics, Wisconsin 2009**

	<b>Total</b>	<b>&lt;15</b>	<b>15-17</b>	<b>18-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30-34</b>	<b>35-39</b>	<b>40-44</b>	<b>45+</b>
<b>Total</b>	<b>70,824</b>	<b>61</b>	<b>1,608</b>	<b>4,186</b>	<b>15,956</b>	<b>22,420</b>	<b>17,569</b>	<b>7,372</b>	<b>1,527</b>	<b>107</b>
<b>Education</b>										
Elem. or Less	2,702	46	77	70	587	826	607	359	115	15
Some H.S.	7,319	14	1,378	1,242	2,219	1,485	668	256	52	4
H.S. Grad	19,663	-	126	2,426	7,245	5,526	2,911	1,151	256	20
Some College	18,386	-	1	417	4,657	6,713	4,466	1,745	373	14
College Grad	15,116	-	-	-	954	5,734	5,619	2,328	452	27
Post-Grad	7,144	-	2	1	164	2,012	3,187	1,484	270	24
Unknown	494	1	24	30	130	124	111	49	9	3
<b>Marital Status</b>										
Married	44,124	-	93	497	5,718	15,823	14,547	6,118	1,235	91
Unmarried	26,656	61	1,515	3,689	10,236	6,593	3,011	1,245	290	16
Unknown	44	-	-	-	2	4	11	9	2	-
<b>Trimester Prenatal Care Began</b>										
First	59,060	29	1,020	3,002	12,453	19,329	15,555	6,370	1,226	74
Second	8,690	20	464	911	2,656	2,262	1,443	714	199	21
Third	1,582	7	73	150	432	419	285	158	53	4
None	426	2	25	42	134	102	63	29	16	3
Unknown	1,066	3	26	81	281	308	223	101	33	5
<b>Number of Prenatal Care Visits</b>										
No Visits	426	2	25	42	133	102	64	29	16	3
1-4	1,790	7	79	158	561	458	279	174	64	9
5-9	11,921	20	416	1,026	3,095	3,464	2,451	1,170	253	24
10-12	29,792	17	610	1,654	6,636	9,566	7,644	3,046	592	27
13+	25,655	12	435	1,219	5,238	8,461	6,867	2,819	565	39
Unknown	1,240	3	43	87	293	369	264	134	37	5
<b>Smoked During Pregnancy</b>										
No	60,469	56	1,404	3,228	12,232	19,287	15,982	6,764	1,411	101
Yes	9,989	4	197	931	3,643	3,008	1,512	578	105	6
Unknown	366	1	7	27	81	125	75	30	11	-
<b>Live Birth Order</b>										
1	27,487	60	1,472	3,276	7,924	8,607	4,506	1,337	278	13
2	22,868	-	121	785	5,216	7,464	6,527	2,344	388	21
3	11,767	1	13	111	2,022	3,855	3,673	1,776	297	18
4	4,879	-	-	9	568	1,532	1,625	932	199	14
5+	3,763	-	-	3	213	938	1,227	979	362	41
Unknown	60	-	2	2	13	24	11	4	3	-
<b>Plurality</b>										
Single Birth	68,441	61	1,584	4,108	15,584	21,701	16,816	7,003	1,478	90
Multiple Birth	2,383	-	24	78	372	719	753	369	49	17
<b>Prematurity</b>										
Full-Term (37+ Weeks)	63,098	49	1,344	3,686	14,236	20,121	15,756	6,478	1,333	81
Premature (<37 Weeks)	7,663	12	263	496	1,706	2,278	1,800	890	190	26
Unknown	63	-	1	4	14	21	13	4	4	-
<b>Attendant at Birth</b>										
Physician, M.D.	59,186	42	1,261	3,384	12,905	18,790	15,060	6,358	1,283	91
Physician, D.O.	4,938	6	111	309	1,228	1,612	1,120	462	83	5
Cert. Nurse Midwife	5,486	11	231	479	1,575	1,656	1,087	360	83	4
Other Midwife	531	1	-	4	101	150	154	85	34	2
Other	683	1	5	10	147	212	148	107	44	5
Unknown	-	-	-	-	-	-	-	-	-	-

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: Included in the totals are 18 births for which age of mother was not reported. A dash (-) indicates that there were no births in that category.

**Table 4-2. Percent of Births by Age of Mother and Selected Characteristics, Wisconsin 2009**

	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>
<b>Education</b>										
Elem. or Less	3.8	75.4	4.8	1.7	3.7	3.7	3.5	4.9	7.5	14.0
Some H.S.	10.3	23.0	85.7	29.7	13.9	6.6	3.8	3.5	3.4	3.7
H.S. Grad	27.8	-	7.8	58.0	45.4	24.6	16.6	15.6	16.8	18.7
Some College	26.0	-	0.1	10.0	29.2	29.9	25.4	23.7	24.4	13.1
College Grad	21.3	-	-	-	6.0	25.6	32.0	31.6	29.6	25.2
Post-Grad	10.1	-	0.1	0.0	1.0	9.0	18.1	20.1	17.7	22.4
Unknown	0.7	1.6	1.5	0.7	0.8	0.6	0.6	0.7	0.6	2.8
<b>Marital Status</b>										
Married	62.3	-	5.8	11.9	35.8	70.6	82.8	83.0	80.9	85.0
Unmarried	37.6	100.0	94.2	88.1	64.2	29.4	17.1	16.9	19.0	15.0
Unknown	0.1	-	-	-	0.0	0.0	0.1	0.1	0.1	-
<b>Trimester Prenatal Care Began</b>										
First	83.4	47.5	63.4	71.7	78.0	86.2	88.5	86.4	80.3	69.2
Second	12.3	32.8	28.9	21.8	16.6	10.1	8.2	9.7	13.0	19.6
Third	2.2	11.5	4.5	3.6	2.7	1.9	1.6	2.1	3.5	3.7
None	0.6	3.3	1.6	1.0	0.8	0.5	0.4	0.4	1.0	2.8
Unknown	1.5	4.9	1.6	1.9	1.8	1.4	1.3	1.4	2.2	4.7
<b>Number of Prenatal Care Visits</b>										
No Visits	0.6	3.3	1.6	1.0	0.8	0.5	0.4	0.4	1.0	2.8
1-4	2.5	11.5	4.9	3.8	3.5	2.0	1.6	2.4	4.2	8.4
5-9	16.8	32.8	25.9	24.5	19.4	15.5	14.0	15.9	16.6	22.4
10-12	42.1	27.9	37.9	39.5	41.6	42.7	43.5	41.3	38.8	25.2
13+	36.2	19.7	27.1	29.1	32.8	37.7	39.1	38.2	37.0	36.4
Unknown	1.8	4.9	2.7	2.1	1.8	1.6	1.5	1.8	2.4	4.7
<b>Smoked During Pregnancy</b>										
No	85.4	91.8	87.3	77.1	76.7	86.0	91.0	91.8	92.4	94.4
Yes	14.1	6.6	12.3	22.2	22.8	13.4	8.6	7.8	6.9	5.6
Unknown	0.5	1.6	0.4	0.6	0.5	0.6	0.4	0.4	0.7	-
<b>Live Birth Order</b>										
1	38.8	98.4	91.5	78.3	49.7	38.4	25.6	18.1	18.2	12.1
2	32.3	-	7.5	18.8	32.7	33.3	37.2	31.8	25.4	19.6
3	16.6	1.6	0.8	2.7	12.7	17.2	20.9	24.1	19.4	16.8
4	6.9	-	-	0.2	3.6	6.8	9.2	12.6	13.0	13.1
5+	5.3	-	-	0.1	1.3	4.2	7.0	13.3	23.7	38.3
Unknown	0.1	-	0.1	0.0	0.1	0.1	0.1	0.1	0.2	-
<b>Plurality</b>										
Single Birth	96.6	100.0	98.5	98.1	97.7	96.8	95.7	95.0	96.8	84.1
Multiple Birth	3.4	-	1.5	1.9	2.3	3.2	4.3	5.0	3.2	15.9
<b>Prematurity</b>										
Full Term (37+ Weeks)	89.1	80.3	83.6	88.1	89.2	89.7	89.7	87.9	87.3	75.7
Premature (<37 Weeks)	10.8	19.7	16.4	11.8	10.7	10.2	10.2	12.1	12.4	24.3
Unknown	0.1	-	0.1	0.1	0.1	0.1	0.1	0.1	0.3	-
<b>Attendant at Birth</b>										
Physician, M.D.	83.6	68.9	78.4	80.8	80.9	83.8	85.7	86.2	84.0	85.0
Physician, D.O.	7.0	9.8	6.9	7.4	7.7	7.2	6.4	6.3	5.4	4.7
Cert. Nurse Midwife	7.7	18.0	14.4	11.4	9.9	7.4	6.2	4.9	5.4	3.7
Other Midwife	0.7	1.6	-	0.1	0.6	0.7	0.9	1.2	2.2	1.9
Other	1.0	1.6	0.3	0.2	0.9	0.9	0.8	1.5	2.9	4.7
Unknown	-	-	-	-	-	-	-	-	-	-

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: Included in the totals are 18 births for which age of mother was not reported. A dash (-) indicates that there were no births in that category.

**Table 4-3. Number of Births by Race/Ethnicity of Mother and Selected Characteristics, Wisconsin 2009**

	<b>Total</b>	<b>White</b>	<b>Black/Afr. American</b>	<b>American Indian</b>	<b>Hispanic/ Latina</b>	<b>Laotian or Hmong</b>	<b>Other Asian</b>
<b>Total</b>	<b>70,824</b>	<b>52,454</b>	<b>7,281</b>	<b>1,159</b>	<b>6,926</b>	<b>1,368</b>	<b>1,595</b>
<b>Age of Mother</b>							
<15	61	19	24	2	16	-	-
15-17	1,608	602	520	56	346	72	12
18-19	4,186	2,232	993	140	657	124	36
20-24	15,956	10,352	2,589	391	1,893	495	228
25-29	22,420	17,566	1,721	313	1,917	380	516
30-34	17,569	14,402	973	172	1,330	181	505
35-39	7,372	5,947	369	76	632	89	255
40-44	1,527	1,246	86	8	126	21	40
45+	107	84	5	1	8	6	3
Unknown	18	4	1	-	1	-	-
<b>Education of Mother</b>							
Elem. or Less	2,702	1,012	138	13	1,295	181	62
Some H.S.	7,319	2,957	1,979	233	1,930	158	57
H.S. Grad	19,663	13,365	2,831	498	2,196	504	259
Some College	18,386	14,923	1,660	297	913	322	265
College Grad	15,116	13,667	403	70	356	129	488
Post-Grad	7,144	6,302	168	39	150	35	447
Unknown	494	228	102	9	86	39	17
<b>Marital Status</b>							
Married	44,124	37,401	1,040	312	2,982	968	1,404
Unmarried	26,656	15,024	6,239	847	3,943	400	191
Unknown	44	29	2	-	1	-	-
<b>Trimester Prenatal Care Began</b>							
First	59,060	45,515	5,332	888	5,129	852	1,323
Second	8,690	5,076	1,368	192	1,387	453	210
Third	1,582	960	287	34	228	39	31
None	426	187	155	15	46	7	9
Unknown	1,066	716	139	30	136	17	22
<b>Number of Prenatal Care Visits</b>							
No Visits	426	187	155	15	46	7	9
1-4	1,790	1,050	443	56	174	33	30
5-9	11,921	7,850	1,676	289	1,369	428	302
10-12	29,792	22,262	2,581	439	3,218	578	702
13+	25,655	20,272	2,278	332	1,948	294	526
Unknown	1,240	833	148	28	171	28	26
<b>Smoked During Pregnancy</b>							
No	60,469	44,336	6,075	718	6,472	1,305	1,537
Yes	9,989	7,837	1,181	432	425	60	47
Unknown	366	281	25	9	29	3	11
<b>Live Birth Order</b>							
1	27,487	21,212	2,578	421	2,167	383	708
2	22,868	17,682	1,905	299	2,084	325	557
3	11,767	8,315	1,285	228	1,526	215	193
4	4,879	3,112	697	106	734	160	70
5+	3,763	2,081	815	102	413	285	66
Unknown	60	52	1	3	2	-	1

(Continued)

**Table 4-3. Number of Births by Race/Ethnicity of Mother and Selected Characteristics, Wisconsin 2009**

	<b>Total</b>	<b>White</b>	<b>Black/Afr. American</b>	<b>American Indian</b>	<b>Hispanic/ Latina</b>	<b>Laotian or Hmong</b>	<b>Other Asian</b>
<b>Total</b>	<b>70,824</b>	<b>52,454</b>	<b>7,281</b>	<b>1,159</b>	<b>6,926</b>	<b>1,368</b>	<b>1,595</b>
<b>Prematurity</b>							
Full Term (37+ Weeks)	63,098	47,210	6,025	1,037	6,131	1,215	1,445
Premature (<37 Weeks)	7,663	5,191	1,255	120	790	153	150
Unknown	63	53	1	2	5	-	-
<b>Gestational Age (Weeks)</b>							
16-31 Weeks	1,280	799	281	27	130	27	15
32-35 Weeks	3,566	2,385	608	50	372	69	81
36 Weeks	2,817	2,007	366	43	288	57	54
37-41 Weeks	58,083	43,777	5,403	929	5,533	1,068	1,340
42-45 Weeks	5,015	3,433	622	108	598	147	105
Unknown	63	53	1	2	5	-	-

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: Included in the totals are 41 births for which race/ethnicity of mother was not reported. A dash (-) indicates that there were no births in that category. "Premature" means less than 37 weeks of gestation. Gestational age is calculated as the difference between the date of last normal menses and the date of delivery. Where date of last normal menses was unknown or invalid, i.e., less than 16 weeks or greater than 45 weeks, clinical estimate of gestation was substituted.

**Table 4-4. Percent of Births by Race/Ethnicity of Mother and Selected Characteristics, Wisconsin 2009**

	<b>Total</b>	<b>White</b>	<b>Black/Afr. American</b>	<b>American Indian</b>	<b>Hispanic/ Latina</b>	<b>Laotian or Hmong</b>	<b>Other Asian</b>
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>
<b>Age of Mother</b>							
<15	0.1	0.0	0.3	0.2	0.2	-	-
15-17	2.3	1.1	7.1	4.8	5.0	5.3	0.8
18-19	5.9	4.3	13.6	12.1	9.5	9.1	2.3
20-24	22.5	19.7	35.6	33.7	27.3	36.2	14.3
25-29	31.7	33.5	23.6	27.0	27.7	27.8	32.4
30-34	24.8	27.5	13.4	14.8	19.2	13.2	31.7
35-39	10.4	11.3	5.1	6.6	9.1	6.5	16.0
40-44	2.2	2.4	1.2	0.7	1.8	1.5	2.5
45+	0.2	0.2	0.1	0.1	0.1	0.4	0.2
Unknown	0.0	0.0	0.0	-	0.0	-	-
<b>Education of Mother</b>							
Elem. or Less	3.8	1.9	1.9	1.1	18.7	13.2	3.9
Some H.S.	10.3	5.6	27.2	20.1	27.9	11.5	3.6
H.S. Grad	27.8	25.5	38.9	43.0	31.7	36.8	16.2
Some College	26.0	28.4	22.8	25.6	13.2	23.5	16.6
College Grad	21.3	26.1	5.5	6.0	5.1	9.4	30.6
Post-Grad	10.1	12.0	2.3	3.4	2.2	2.6	28.0
Unknown	0.7	0.4	1.4	0.8	1.2	2.9	1.1
<b>Marital Status</b>							
Married	62.3	71.3	14.3	26.9	43.1	70.8	88.0
Unmarried	37.6	28.6	85.7	73.1	56.9	29.2	12.0
Unknown	0.1	0.1	0.0	-	0.0	-	-
<b>Trimester Prenatal Care Began</b>							
First	83.4	86.8	73.2	76.6	74.1	62.3	82.9
Second	12.3	9.7	18.8	16.6	20.0	33.1	13.2
Third	2.2	1.8	3.9	2.9	3.3	2.9	1.9
None	0.6	0.4	2.1	1.3	0.7	0.5	0.6
Unknown	1.5	1.4	1.9	2.6	2.0	1.2	1.4
<b>Number of Prenatal Care Visits</b>							
No Visits	0.6	0.4	2.1	1.3	0.7	0.5	0.6
1-4	2.5	2.0	6.1	4.8	2.5	2.4	1.9
5-9	16.8	15.0	23.0	24.9	19.8	31.3	18.9
10-12	42.1	42.4	35.4	37.9	46.5	42.3	44.0
13+	36.2	38.6	31.3	28.6	28.1	21.5	33.0
Unknown	1.8	1.6	2.0	2.4	2.5	2.0	1.6
<b>Smoked During Pregnancy</b>							
No	85.4	84.5	83.4	61.9	93.4	95.4	96.4
Yes	14.1	14.9	16.2	37.3	6.1	4.4	2.9
Unknown	0.5	0.5	0.3	0.8	0.4	0.2	0.7
<b>Live Birth Order</b>							
1	38.8	40.4	35.4	36.3	31.3	28.0	44.4
2	32.3	33.7	26.2	25.8	30.1	23.8	34.9
3	16.6	15.9	17.6	19.7	22.0	15.7	12.1
4	6.9	5.9	9.6	9.1	10.6	11.7	4.4
5+	5.3	4.0	11.2	8.8	6.0	20.8	4.1
Unknown	0.1	0.1	0.0	0.3	0.0	-	0.1

(Continued)

**Table 4-4. Percent of Births by Race/Ethnicity of Mother and Selected Characteristics, Wisconsin 2009**

	<b>Total</b>	<b>White</b>	<b>Black/Afr. American</b>	<b>American Indian</b>	<b>Hispanic/ Latina</b>	<b>Laotian or Hmong</b>	<b>Other Asian</b>
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>
<b>Prematurity</b>							
Full Term (37+ Weeks)	89.1	90.0	82.7	89.5	88.5	88.8	90.6
Premature (<37 Weeks)	10.8	9.9	17.2	10.4	11.4	11.2	9.4
Unknown	0.1	0.1	0.0	0.2	0.1	-	-
<b>Gestational Age (Weeks)</b>							
16-31 Weeks	1.8	1.5	3.9	2.3	1.9	2.0	0.9
32-35 Weeks	5.0	4.5	8.4	4.3	5.4	5.0	5.1
36 Weeks	4.0	3.8	5.0	3.7	4.2	4.2	3.4
37-41 Weeks	82.0	83.5	74.2	80.2	79.9	78.1	84.0
42-45 Weeks	7.1	6.5	8.5	9.3	8.6	10.7	6.6
Unknown	0.1	0.1	0.0	0.2	0.1	-	-

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: Included in the totals are 41 births for which race/ethnicity of mother was not reported. A dash (-) indicates that there were no births in that category. "Premature" means less than 37 weeks of gestation. Gestational age is calculated as the difference between the date of last normal menses and the date of delivery. Where date of last normal menses is unknown or invalid, i.e., less than 16 weeks or greater than 45 weeks, clinical estimate of gestation was substituted.

**Table 4-5. Number and Percent of Births by Birthweight and Selected Characteristics, Wisconsin 2009**

	Total Births	<1,500 Grams		1,500-2,499 Grams		2,500+ Grams		Total <2,500 Grams	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Total</b>	<b>70,824</b>	<b>864</b>	<b>1.2</b>	<b>4,176</b>	<b>5.9</b>	<b>65,768</b>	<b>92.9</b>	<b>5,040</b>	<b>7.1</b>
<b>Plurality</b>									
Single Birth	68,441	591	0.9	3,160	4.6	64,676	94.5	3,751	5.5
Multiple Birth	2,383	273	11.5	1,016	42.6	1,092	45.8	1,289	54.1
<b>Prematurity</b>									
Full Term (37+ Weeks)	63,098	23	0.0	1,650	2.6	61,420	97.3	1,673	2.7
Premature (<37 Weeks)	7,663	838	10.9	2,523	32.9	4,295	56.0	3,361	43.9
Unknown	63	3	4.8	3	4.8	53	84.1	6	9.5
<b>Age of Mother</b>									
<15	61	2	3.3	2	3.3	57	93.4	4	6.6
15-17	1,608	34	2.1	135	8.4	1,438	89.4	169	10.5
18-19	4,186	61	1.5	286	6.8	3,838	91.7	347	8.3
20-24	15,956	203	1.3	1,017	6.4	14,732	92.3	1,220	7.6
25-29	22,420	261	1.2	1,197	5.3	20,954	93.5	1,458	6.5
30-34	17,569	181	1.0	950	5.4	16,438	93.6	1,131	6.4
35-39	7,372	95	1.3	463	6.3	6,814	92.4	558	7.6
40-44	1,527	21	1.4	107	7.0	1,397	91.5	128	8.4
45+	107	3	2.8	18	16.8	86	80.4	21	19.6
Unknown	18	3	16.7	1	5.6	14	77.8	4	22.2
<b>Race/Ethnicity of Mother</b>									
White	52,454	542	1.0	2,760	5.3	49,142	93.7	3,302	6.3
Black/Afr. American	7,281	209	2.9	827	11.4	6,243	85.7	1,036	14.2
American Indian	1,159	14	1.2	44	3.8	1,101	95.0	58	5.0
Hispanic/Latina	6,926	78	1.1	344	5.0	6,500	93.8	422	6.1
Laotian or Hmong	1,368	10	0.7	83	6.1	1,275	93.2	93	6.8
Other Asian	1,595	9	0.6	117	7.3	1,469	92.1	126	7.9
Unknown	41	2	4.9	1	2.4	38	92.7	3	7.3
<b>Education of Mother</b>									
Elem. or Less	2,702	22	0.8	108	4.0	2,571	95.2	130	4.8
Some H.S.	7,319	121	1.7	611	8.3	6,584	90.0	732	10.0
H.S. Grad	19,663	276	1.4	1,358	6.9	18,024	91.7	1,634	8.3
Some College	18,386	193	1.0	1,020	5.5	17,173	93.4	1,213	6.6
College Grad	15,116	163	1.1	670	4.4	14,283	94.5	833	5.5
Post-Grad	7,144	67	0.9	356	5.0	6,718	94.0	423	5.9
Unknown	494	22	4.5	53	10.7	415	84.0	75	15.2
<b>Marital Status</b>									
Married	44,124	422	1.0	2,143	4.9	41,553	94.2	2,565	5.8
Unmarried	26,656	441	1.7	2,026	7.6	24,179	90.7	2,467	9.3
Unknown	44	1	2.3	7	15.9	36	81.8	8	18.2

(Continued)



**Table 4-5. Number and Percent of Births by Birthweight and Selected Characteristics, Wisconsin 2009**

	Total	<1,500 Grams		1,500-2,499 Grams		2,500+ Grams		Total <2,500 Grams	
	Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Trimester Prenatal Care Began</b>									
First	59,060	694	1.2	3,378	5.7	54,981	93.1	4,072	6.9
Second	8,690	106	1.2	522	6.0	8,058	92.7	628	7.2
Third	1,582	4	0.3	93	5.9	1,485	93.9	97	6.1
None	426	24	5.6	59	13.8	340	79.8	83	19.5
Unknown	1,066	36	3.4	124	11.6	904	84.8	160	15.0
<b>Number of Prenatal Care Visits</b>									
No Visits	426	24	5.6	58	13.6	341	80.0	82	19.2
1-4	1,790	135	7.5	196	10.9	1,458	81.5	331	18.5
5-9	11,921	401	3.4	1,165	9.8	10,351	86.8	1,566	13.1
10-12	29,792	130	0.4	1,410	4.7	28,248	94.8	1,540	5.2
13+	25,655	120	0.5	1,198	4.7	24,335	94.9	1,318	5.1
Unknown	1,240	54	4.4	149	12.0	1,035	83.5	203	16.4
<b>Smoked During Pregnancy</b>									
No	60,469	683	1.1	3,234	5.3	56,543	93.5	3,917	6.5
Yes	9,989	167	1.7	913	9.1	8,905	89.1	1,080	10.8
Unknown	366	14	3.8	29	7.9	320	87.4	43	11.7
<b>Type of Delivery</b>									
Vaginal After									
Previous C-Section	1,131	10	0.9	54	4.8	1,067	94.3	64	5.7
Forceps	606	2	0.3	20	3.3	584	96.4	22	3.6
Other Vaginal	50,813	343	0.7	2,385	4.7	48,070	94.6	2,728	5.4
Primary C-Section	10,491	432	4.1	1,260	12.0	8,799	83.9	1,692	16.1
Repeat C-Section	7,783	77	1.0	457	5.9	7,248	93.1	534	6.9
Other	-	-	-	-	-	-	-	-	-
<b>Live Birth Order</b>									
1	27,487	391	1.4	1,718	6.3	25,372	92.3	2,109	7.7
2	22,868	251	1.1	1,172	5.1	21,442	93.8	1,423	6.2
3	11,767	122	1.0	649	5.5	10,994	93.4	771	6.6
4	4,879	53	1.1	343	7.0	4,482	91.9	396	8.1
5+	3,763	46	1.2	289	7.7	3,427	91.1	335	8.9
Unknown	60	1	1.7	5	8.3	51	85.0	6	10.0
<b>Congenital Anomalies</b>									
No	69,576	816	1.2	4,005	5.8	64,743	93.1	4,821	6.9
Yes	1,248	48	3.8	171	13.7	1,025	82.1	219	17.5

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: Included in the totals are 16 births for which birthweight was not reported. Infants weighing less than 2,500 grams (or 5.5 pounds) at birth are considered low birthweight. Infants weighing less than 1,500 grams (or 3.3 pounds) at birth are considered very low birthweight. A dash (-) indicates that there were no births in that category.

**Table 4-6. Number and Percent of Births by Estimated Gestational Age and Birthweight, Wisconsin 2009**

Birthweight	Estimated Gestational Age (in Weeks)										
	Total	17-19	20-27	28-31	32-35	36	37-39	40	41	42+	Unk.
Number											
Total	70,824	17	488	773	3,566	2,817	36,621	14,641	6,821	5,015	63
<500 Grams	119	13	91	8	2	-	1	1	-	-	1
500-999 Grams	310	1	223	72	7	-	3	1	2	-	1
1,000-1,499 Gms	435	-	73	229	106	11	12	1	1	1	1
1,500-1,999 Gms	1,012	-	11	193	547	97	126	20	5	11	2
2,000-2,499 Gms	3,164	-	7	58	1,122	488	1,207	122	73	86	1
2,500-2,999 Gms	11,345	1	22	62	930	1,077	6,720	1,320	583	620	10
3,000-3,499 Gms	26,519	-	24	86	531	814	15,252	5,590	2,306	1,897	19
3,500-3,999 Gms	20,969	1	29	54	244	280	10,341	5,559	2,703	1,741	17
4,000-4,499 Gms	5,948	-	4	9	69	38	2,536	1,757	978	551	6
4,500+ Grams	987	-	-	2	7	11	418	270	170	108	1
Unknown	16	1	4	-	1	1	5	-	-	-	4
Percent											
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<500 Grams	0.2	76.5	18.6	1.0	0.1	-	0.0	0.0	-	-	1.6
500-999 Grams	0.4	5.9	45.7	9.3	0.2	-	0.0	0.0	0.0	-	1.6
1,000-1,499 Gms	0.6	-	15.0	29.6	3.0	0.4	0.0	0.0	0.0	0.0	1.6
1,500-1,999 Gms	1.4	-	2.3	25.0	15.3	3.4	0.3	0.1	0.1	0.2	3.2
2,000-2,499 Gms	4.5	-	1.4	7.5	31.5	17.3	3.3	0.8	1.1	1.7	1.6
2,500-2,999 Gms	16.0	5.9	4.5	8.0	26.1	38.2	18.4	9.0	8.5	12.4	15.9
3,000-3,499 Gms	37.4	-	4.9	11.1	14.9	28.9	41.6	38.2	33.8	37.8	30.2
3,500-3,999 Gms	29.6	5.9	5.9	7.0	6.8	9.9	28.2	38.0	39.6	34.7	27.0
4,000-4,499 Gms	8.4	-	0.8	1.2	1.9	1.3	6.9	12.0	14.3	11.0	9.5
4,500+ Grams	1.4	-	-	0.3	0.2	0.4	1.1	1.8	2.5	2.2	1.6
Unknown	0.0	5.9	0.8	-	0.0	0.0	0.0	-	-	-	6.3

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Note: Included in the totals are two births with a gestational age less than 17 weeks. Estimated gestational age in weeks is calculated using the date of last normal menses and the date of delivery. Where date of last normal menses was unknown or invalid, i.e., less than 16 weeks or greater than 45 weeks, clinical estimate of gestational age was substituted.

**Table 4-7. Number and Percent of Births by Race/Ethnicity of Mother and Birthweight, Wisconsin 2009**

<b>Birthweight</b>	<b>Total</b>	<b>White</b>	<b>Black/Afr. American</b>	<b>American Indian</b>	<b>Hispanic/ Latina</b>	<b>Laotian or Hmong</b>	<b>Other Asian</b>
<i>Number</i>							
<b>Total</b>	<b>70,824</b>	<b>52,454</b>	<b>7,281</b>	<b>1,159</b>	<b>6,926</b>	<b>1,368</b>	<b>1,595</b>
<500 Grams	119	69	34	4	9	1	1
500-999 Grams	310	183	82	4	33	5	2
1,000-1,499 Gms	435	290	93	6	36	4	6
1,500-1,999 Gms	1,012	659	213	15	79	20	26
2,000-2,499 Gms	3,164	2,101	614	29	265	63	91
2,500-2,999 Gms	11,345	7,509	1,807	187	1,182	333	321
3,000-3,499 Gms	26,519	19,280	2,824	395	2,706	603	693
3,500-3,999 Gms	20,969	16,641	1,300	364	1,995	289	371
4,000-4,499 Gms	5,948	4,906	273	119	528	46	72
4,500+ Grams	987	806	39	36	89	4	12
Unknown	16	10	2	-	4	-	-
<i>Percent</i>							
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<500 Grams	0.2	0.1	0.5	0.3	0.1	0.1	0.1
500-999 Grams	0.4	0.3	1.1	0.3	0.5	0.4	0.1
1,000-1,499 Gms	0.6	0.6	1.3	0.5	0.5	0.3	0.4
1,500-1,999 Gms	1.4	1.3	2.9	1.3	1.1	1.5	1.6
2,000-2,499 Gms	4.5	4.0	8.4	2.5	3.8	4.6	5.7
2,500-2,999 Gms	16.0	14.3	24.8	16.1	17.1	24.3	20.1
3,000-3,499 Gms	37.4	36.8	38.8	34.1	39.1	44.1	43.4
3,500-3,999 Gms	29.6	31.7	17.9	31.4	28.8	21.1	23.3
4,000-4,499 Gms	8.4	9.4	3.7	10.3	7.6	3.4	4.5
4,500+ Grams	1.4	1.5	0.5	3.1	1.3	0.3	0.8
Unknown	0.0	0.0	0.0	-	0.1	-	-

Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: Included in the totals are 41 births for which race/ethnicity of mother was not reported. A dash (-) indicates that there were no births in that category.

**Table 4-8. Fetal, Neonatal, and Infant Deaths by Selected Characteristics, Wisconsin 2009**

	Fetal Deaths (Gestation $\geq$ 20 weeks)		Neonatal Deaths (Age <28 days)		Infant Deaths (Age <1 year)	
	Number	Rate	Number	Rate	Number	Rate
<b>Total</b>	<b>341</b>	<b>4.8</b>	<b>281</b>	<b>4.0</b>	<b>426</b>	<b>6.0</b>
<b>Sex of Infant</b>						
Male	175	4.8	171	4.7	257	7.1
Female	152	4.4	110	3.2	169	4.9
Unknown	14	-	-	-	-	-
<b>Birthweight</b>						
1,499 Grams or Less	216	200.0	191	221.1	218	252.3
1,500-2,499 Grams	50	11.8	39	9.3	55	13.2
2,500+ Grams	68	1.0	47	0.7	149	2.3
Unknown	7	-	4	-	4	-
<u>White Non-Hispanic</u>	224	4.3	177	3.4	257	4.9
1,499 Grams or Less	137	201.8	116	214.0	130	239.9
1,500-2,499 Grams	34	12.2	25	9.1	33	12.0
2,500+ Grams	47	1.0	33	0.7	91	1.9
Unknown	6	-	3	-	3	-
<u>Black Non-Hispanic</u>	62	8.4	65	8.9	104	14.3
1,499 Grams or Less	44	173.9	48	229.7	55	263.2
1,500-2,499 Grams	8	-	9	-	13	-
2,500+ Grams	10	-	7	-	35	5.6
Unknown	-	-	1	-	1	-
<b>Gestational Age (Weeks)</b>						
<37 Weeks	281	35.4	228	29.8	279	36.4
16-31 Weeks	208	139.8	193	150.8	220	171.9
32-35 Weeks	54	14.9	26	7.3	36	10.1
36 Weeks	19	-	9	-	23	8.2
37-41 Weeks	52	0.9	47	0.8	132	2.3
42-45 Weeks	7	-	4	-	13	-
Unknown	1	-	2	-	2	-
<b>Marital Status</b>						
Married	180	4.1	135	3.1	189	4.3
Unmarried	160	6.0	146	5.5	237	8.9
Unknown	1	-	-	-	-	-
<b>Education of Mother</b>						
Elementary or Less	18	-	12	-	21	7.8
Some High School	38	5.2	49	6.7	84	11.5
High School Graduate	123	6.2	81	4.1	134	6.8
Some College	61	3.3	57	3.1	87	4.7
College Graduate	57	3.8	53	3.5	68	4.5
Post Graduate	28	3.9	19	-	20	2.8
Unknown	16	-	10	-	12	-

(Continued)

Table 4-8. Fetal, Neonatal, and Infant Deaths by Selected Characteristics, Wisconsin 2009

	Fetal Deaths (Gestation $\geq$ 20 weeks)		Neonatal Deaths (Age <28 days)		Infant Deaths (Age <1 year)	
	Number	Rate	Number	Rate	Number	Rate
<b>Age of Mother</b>						
<15	-	-	1	-	2	-
15-17	6	-	19	-	26	16.2
18-19	29	6.9	22	5.3	38	9.1
20-24	75	4.7	65	4.1	114	7.1
25-29	98	4.4	83	3.7	126	5.6
30-34	78	4.4	50	2.8	68	3.9
35-39	35	4.7	33	4.5	42	5.7
40+	20	12.1	8	-	10	-
Unknown	-	-	-	-	-	-
<b>Race/Ethnicity of Mother</b>						
White	224	4.3	177	3.4	257	4.9
Black/African American	62	8.4	65	8.9	104	14.3
American Indian	10	-	4	-	8	-
Hispanic/Latina	32	4.6	24	3.5	38	5.5
Laotian or Hmong	4	-	5	-	10	-
Other Asian	9	-	6	-	9	-
Unknown	-	-	-	-	-	-
<b>Trimester Prenatal Care Began</b>						
First	270	4.6	212	3.6	321	5.4
Second	44	5.0	34	3.9	59	6.8
Third	6	-	6	-	11	-
None	8	-	11	-	13	-
Unknown	13	-	18	-	22	20.6
<b>Number of Prenatal Care Visits</b>						
No Visits	10	-	11	-	13	-
1-4 Visits	79	42.3	62	34.6	75	41.9
5-9 Visits	137	11.4	105	8.8	142	11.9
10-12 Visits	53	1.8	49	1.6	98	3.3
13+ Visits	39	1.5	38	1.5	73	2.8
Unknown	23	18.2	16	-	25	20.2
<b>Plurality</b>						
Single Birth	309	4.5	224	3.3	359	5.2
Multiple Birth	31	12.8	57	23.9	67	28.1
Unknown	1	-	-	-	-	-
<b>Smoked During Pregnancy</b>						
No	270	4.4	224	3.7	328	5.4
Yes	68	6.8	49	4.9	86	8.6
Unknown	3	-	8	-	12	-

Source: Fetal death and matched birth-death files, Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: The fetal death rate is based on the number of fetal deaths per 1,000 live births and reported fetal deaths. The neonatal death rate is based on the number of neonatal deaths per 1,000 live births. The infant death rate is based on the number of infant deaths per 1,000 live births. Rates based on fewer than 20 deaths are omitted because they are subject to large random fluctuations.

**Table 4-9. Selected Birth Rates, Mortality Rates, and Birth Characteristics, Wisconsin 2009 and United States, 2008**

Birth Rates	Wisconsin		United States
	Rate		Rate
Crude Birth Rate (births per 1,000 total population)	12.5		14.0
General Fertility Rate (births per 1,000 females ages 15-44)	63.4		68.6
Teen Birth Rate (births per 1,000 females ages 15-19)	29.3	29.6*	41.5
Mortality Rates			
Infant Mortality Rate (infant deaths per 1,000 live births)	6.0		6.7
Infant Mortality Rate – Black Non-Hispanic	14.3		13.4
Infant Mortality Rate – White Non-Hispanic	4.9		5.6
Neonatal Mortality Rate (deaths <28 days of age per 1,000 live births)	4.0		4.5
Perinatal Mortality Rate (fetal deaths and deaths <28 days of age per 1,000 live births and fetal deaths)	10.8	5.7**	6.6***
Birth Characteristics			
	Percent		Percent
Mother Unmarried	37.6%		40.6%
C-Section Delivery	25.8		32.3
Low Birthweight	7.1		8.2
Low Birthweight – Black Non-Hispanic	14.2		13.7
Low Birthweight – White Non-Hispanic	6.3%		7.2%

Source: Resident birth certificates, matched birth-death file and fetal death file, Office of Health Informatics, Division of Public Health, Department of Health Services.

\* This Wisconsin rate is calculated to be comparable to previous Wisconsin publications, which included births to mothers younger than 15. See Technical Notes (page 107) for an explanation of birth rate calculations.

\*\* This Wisconsin rate is calculated to be comparable to the U.S. rate, which includes the number of late fetal deaths (greater than or equal to 28 weeks of gestation) plus infant deaths within seven days of birth per 1,000 live births plus late fetal deaths.

\*\*\* Rate for 2005, the latest available data. The U.S. perinatal mortality rate is cited from CDC/NCHS, National Vital Statistics System; Xu JQ, Kochanek KD, Murphy SL, Tejada-Vera B. Deaths: Final data for 2007. National Vital Statistics Reports; Vol 58 No 19. Hyattsville, MD: NCHS; 2010. Available from: [http://www.cdc.gov/nchs/data/nvsr/nvsr58/nvsr58\\_19.pdf](http://www.cdc.gov/nchs/data/nvsr/nvsr58/nvsr58_19.pdf) and unpublished data.

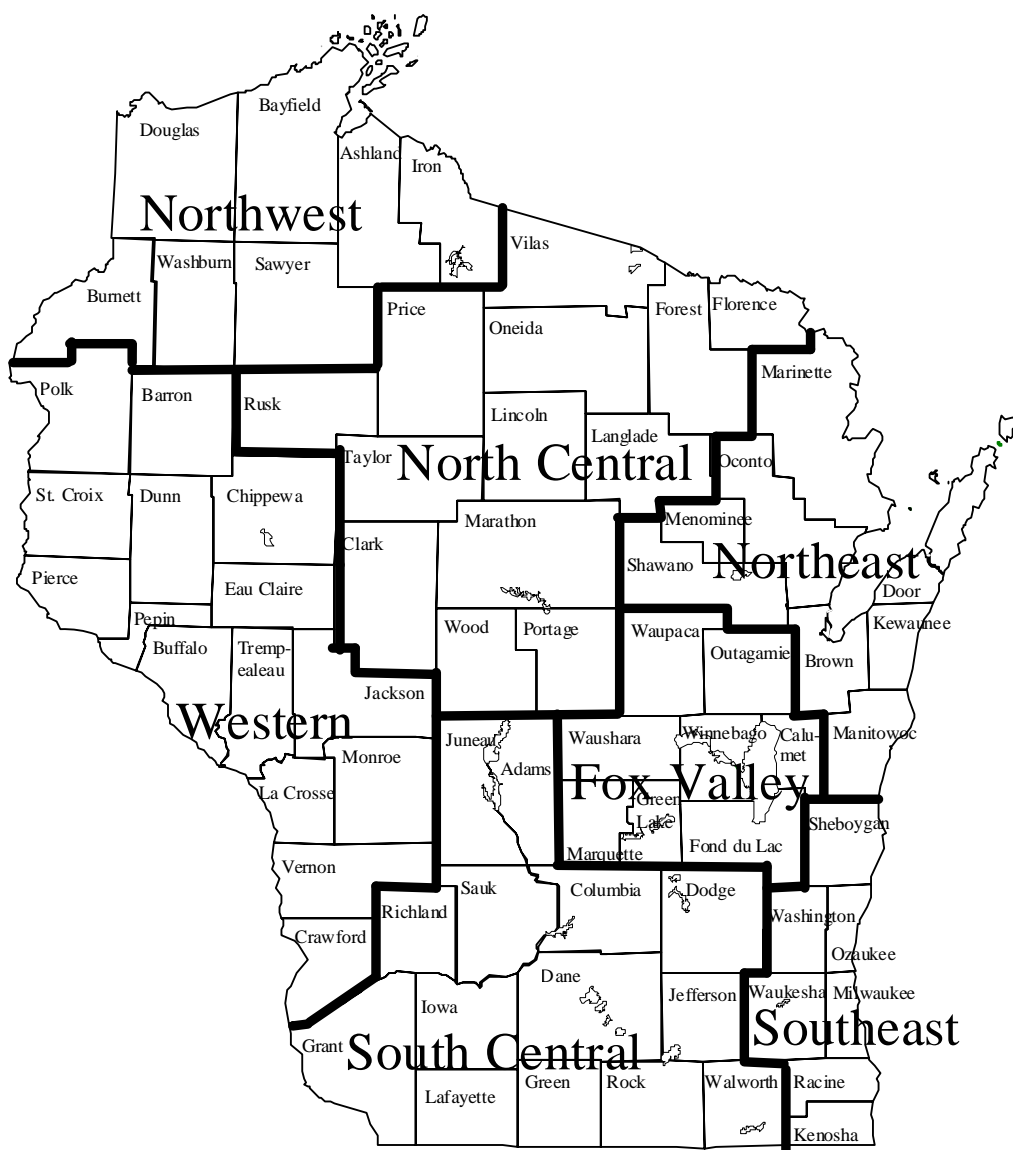
**Map 1. Wisconsin Department of  
Health Services Regions, 2009**



Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Notes: Vernon County was reassigned from the Western to the Southern Region effective February 2004. This change is reflected in the data presented for 2003 and subsequent years. Comparisons with regional data in previous publications may be affected.

**Map 2. Wisconsin Perinatal Regions, 2009**



Source: Office of Health Informatics, Division of Public Health, Department of Health Services.

Note: See Technical Notes (page 109) for explanation of Perinatal Regions.



## Sources, Definitions, and Explanations of Terms

**National Data.** Unless otherwise noted, national data used in this report were cited from Martin JA, Hamilton BE, Sutton PD, Ventura SJ, Mathews Osterman MJK. Births: Final data for 2008. *National Vital Statistics Reports*, Vol. 59, No. 1. Hyattsville, Maryland: National Center for Health Statistics, 2010. National infant mortality data are drawn from Mathews TJ, MacDorman MF. Infant mortality statistics from the 2006 period linked birth/infant death data set. *National Vital Statistics Reports*, Vol. 58, No. 17. Hyattsville, Maryland: National Center for Health Statistics, 2010.

**Birth Rate Calculations.** Beginning with the 2006 publication of Wisconsin birth data, a change was made in the way birth rates at the youngest and oldest maternal ages are calculated. This change was made to make the rates comparable to national statistics.

In previous years, Wisconsin teen birth rates (the rate of births to mothers aged 15-19, and the rate of births to mothers aged 15-17) included births to mothers under age 15 in the numerator. The rate was calculated as the number of births to mothers less than 20 (or less than 18) divided by the number of females aged 15-19 (or 15-17), multiplied by 1,000. In this report, births to mothers aged 10-14 were placed in a separate category whenever birth rates were shown.

Similarly, births to mothers aged 45 and older were previously included in birth rates for women aged 40-44; the result was then divided by the number of females aged 40-44 and multiplied by 1,000. In this report, births to women 45 years of age and older were removed from the 40-44 birth rate calculations.

**Race/Ethnicity Classifications.** All live births, fetal deaths and infant deaths were classified by race/ethnicity and Hispanic/Latino origin of mother into one of six categories: non-Hispanic white, non-Hispanic black or African American, non-Hispanic American Indian, Hispanic or Latino, non-Hispanic Laotian or Hmong, and non-Hispanic “other Asian,” which includes Asian groups other than Laotian or Hmong, as well as Pacific Islanders such as Hawaiians. Hispanics/Latinos may be of any race.

Prior to 1994, Wisconsin birth reports included a Race/Ethnicity category labeled “Indochinese.” Beginning in 1994, this category was redefined as “Laotian or Hmong” (constituting approximately 95 percent of the Indochinese category). The remaining 5 percent of births in the Indochinese category were reallocated to the “Other” grouping; this includes Vietnamese, Cambodian, Thai, Chinese, Japanese, and East Indian.

The Asian category used in birth rates by race/ethnicity calculations is made up of Chinese, Japanese, Filipino, Other Asian/Pacific Islander, Laotian, Vietnamese, Korean, Cambodian, and Hmong.

**Birth Certificate Checklists.** Since 1989, data on maternal health, pregnancy, delivery, and some dimensions of birth outcomes are collected in the following birth certificate checklists: “Medical history for this pregnancy,” “Obstetric procedures,” “Events of labor and/or delivery,” “Method of delivery,” “Abnormal conditions of the newborn,” and “Congenital anomalies of child.” These data were previously collected in a fill-in-the-blank format. Thus, data presented in annual reports for 1982-1988 on risk and treatment (“Type of delivery,” “Concurrent conditions of pregnancy,” “Complications of pregnancy,” “Complications of delivery,” and “Congenital anomalies”) are not comparable to the data presented in annual reports since 1989 (*Maternal and Child Health Statistics* and *Wisconsin Births and Infant Deaths*).

Also to be noted are the limitations on comparability that relate to changes in the editing of the medical

checklist items since 1989. Each checklist (with the exception of “Method of delivery”) has an “other-specify” checkbox. Conditions reported in the “other-specify” category have been edited to exclude invalid reports from the database, and to ensure that those conditions that belong elsewhere in a checklist are properly reported. The editing process has varied each year, which affects comparability. This most affects data on “Medical history for this pregnancy” and “Congenital anomalies of child;” it also affects comparability of “Events of labor and/or delivery” and “Abnormal conditions of the newborn.” In 1990, this editing was done only for the “Congenital anomalies” and “Abnormal conditions” checklists. Since 1990, edits have been expanded to include “Medical history for this pregnancy,” “Obstetric procedures,” and “Events of labor and/or delivery.”

Definitions of “Medical risk factors for this pregnancy,” “Obstetric procedures,” “Complications of labor and/or delivery,” “Abnormal conditions of the newborn” and “Congenital anomalies of child” were adapted from:

National Center for Health Statistics. Advance report of new data from the 1989 birth certificate. *Monthly Vital Statistics Report*; Vol. 40, No. 12, Supplement. Hyattsville, Maryland: Public Health Service, 1997.

**Prematurity.** Births were classified as premature (less than full term) if the gestational age was less than 37 weeks. To determine gestational age, a prematurity index is used; this is usually based on the computed estimate of gestational age, which is the difference between the date of last normal menses and the date of the infant’s birth. The clinical estimate of gestational age (reported by the physician directly on the birth certificate) is substituted when the date of last normal menses is unknown or invalid or the computed estimate of gestational age is less than 16 weeks or greater than 45 weeks. The use of this index decreases the number of records with unknown gestational age.

## Mortality

**Infant Deaths.** The birth-death cohort is not completed until one full year after the end of the birth cohort calendar year. This publication reports mortality data on infants who died during 2009, rather than the mortality experience of the 2009 birth cohort, to allow more timely reporting on infant mortality.

**Causes of Death.** Causes of death in this report have been coded according to the International Classification of Diseases (ICD), Tenth Edition. Before the 1999 data year, causes of death were coded according to the ICD, Ninth Edition. This change does not affect comparability between years for four of the five leading causes of infant death shown in this report (Conditions Originating in the Perinatal Period; Congenital Malformations, Deformations and Chromosomal Anomalies; Sudden Infant Death Syndrome or SIDS; and Accidents – see Pages 34 and 35).

**Fetal Deaths.** A fetal death or stillbirth is “a fetus which, after complete expulsion or extraction from the woman, does not breathe or show other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of the voluntary muscles.” By Wisconsin statute, a stillbirth of at least 20 weeks’ gestation or 350 grams must be reported. (Note: A fetal death report is not used for induced terminations of pregnancy (induced abortions).) Some stillbirths (fetal deaths) to Wisconsin residents are not included in this publication because some were less than 20 weeks’ gestation, some occurred outside Wisconsin, and an unknown number that occurred within the state were not reported.

**Perinatal Deaths.** Includes all reported fetal deaths of 20 or more weeks of gestation and all neonatal deaths (deaths of liveborn infants occurring before 28 days of age).

**Maternal Deaths.** There were 13 deaths in 2009 for which a maternal cause of death was reported on the death certificate. Before 1989, and beginning again in 1994, the Wisconsin Center for Health Statistics (now the Office of Health Informatics) followed up deaths of women of childbearing age with inquiries about pregnancy-related causes of death. Maternal deaths from 1989-1993 may be underreported because this special study was not conducted for those years. In 2003, an item was added to the Wisconsin death certificate that allows the medical certifier to specify the pregnancy status of the decedent. This should improve ascertainment of maternal deaths from death certificate records.

**Perinatal Regions.** These tables present birth information for each of the seven Perinatal Regions in Wisconsin (see Map 2, page 106). These regions were informally designated in the early 1970s by the Wisconsin Association for Perinatal Care, in cooperation with organizations representing public and private providers of perinatal services. Perinatal regions represent geographical boundaries within which arrangements exist among providers of perinatal services to facilitate optimal treatment for pregnant women and newborns. Within each region, selected hospitals with the capability to provide neonatal and maternal intensive care have been self-designated as perinatal centers. Women with high-risk pregnancies and deliveries are often referred to or transported to these perinatal centers, as are high-risk babies born outside perinatal centers. Health care providers within the regions also collaborate in other ways to address perinatal health care issues as they arise.

**Limitations of the Data.** Vital records information has some limitations related to completeness, accuracy, and timeliness of registration, quality control procedures and classification problems. The reporting of live births and infant deaths is considered to be essentially complete for births occurring in Wisconsin. A cooperative exchange program between all states has been in operation for several decades to allocate birth and death certificates to the state of residence. Although this exchange program is not totally complete, the incompleteness is not of sufficient magnitude to seriously affect statistics on natality and infant mortality.

Edit checks are incorporated in the software used for electronic transmission of birth certificate data, and the Vital Records Registration and Statistics Unit in the Office of Health Informatics reviews birth certificates and death certificates for logical inconsistencies. Some errors remain after this review, but they are thought to have little, if any, effect on statistical results.

There may be some underreporting of medical risk factors and types of obstetrical procedures performed. There may also be underreporting of congenital anomalies which are identifiable at birth; in addition, some congenital anomalies cannot be detected at the time the birth certificate is filed.

### Medical Risk Factors for This Pregnancy: Definitions

<i>Anemia</i>	Maternal hemoglobin level of less than 10.0 g/dL during pregnancy, or a hematocrit of less than 30 percent during pregnancy.
<i>Cardiac Disease</i>	Disease of the heart.
<i>Acute or Chronic Lung Disease</i>	Disease of the lungs during pregnancy.

<i>Diabetes</i>	Metabolic disorder characterized by excessive discharge of urine and persistent thirst; includes juvenile onset, adult onset, and gestational diabetes during pregnancy.
<i>Genital Herpes</i>	Infection of the skin of the genital area by herpes simplex virus.
<i>Hydramnios/ Oligohydramnios</i>	Any noticeable excess (hydramnios) or lack (oligohydramnios) of amniotic fluid.
<i>Hypertension, Chronic</i>	Blood pressure persistently greater than 140/90, diagnosed prior to onset of pregnancy or before the 20 <sup>th</sup> week of gestation.
<i>Hypertension, Pregnancy- Associated</i>	An increase in blood pressure of at least 30 mm Hg systolic or 15 mm Hg diastolic on two measurements taken six hours apart after the 20th week of gestation.
<i>Eclampsia</i>	The occurrence of convulsions and/or coma unrelated to other cerebral conditions in women with signs and symptoms of preeclampsia.
<i>Incompetent Cervix</i>	A condition characterized by painless dilation of the cervix in the second trimester or early in the third trimester of pregnancy, with premature expulsion of membranes through the cervix and ballooning of the membranes into the vagina, followed by rupture of the membranes and subsequent expulsion of the fetus.
<i>Previous Infant 4,000+ Grams</i>	Previous birth of a live-born child with a birthweight of over 4,000 grams (8 lbs., 14 oz.).
<i>Previous Preterm or SGA Infant</i>	Previous birth of an infant prior to term (before 37 completed weeks of gestation), or of an infant weighing less than the 10th percentile for gestational age, using a standard weight-for-age chart. (SGA means “small for gestational age.”)
<i>Renal Disease</i>	Kidney disease.
<i>Rh Sensitization</i>	The process or state of becoming sensitized to the Rh blood factor, as when an Rh-negative woman is pregnant with an Rh-positive fetus.
<i>Uterine Bleeding</i>	Any clinically significant bleeding during the pregnancy, taking into consideration the stage of pregnancy; any second- or third-trimester bleeding of the uterus prior to the onset of labor.

#### **Obstetric Procedures: Definitions**

<i>Amniocentesis</i>	Surgical transabdominal perforation of the uterus to obtain amniotic fluid to be used in the detection of genetic disorders, fetal abnormalities, and fetal lung maturity.
<i>Electronic Fetal Monitoring</i>	Monitoring with external devices applied to the maternal abdomen or with internal devices with an electrode attached to the fetal scalp and a catheter through the cervix into the uterus, to detect and record fetal heart tones and uterine contractions.

<b><i>Induction of Labor</i></b>	The initiation of uterine contractions before the spontaneous onset of labor by medical and/or surgical means for the purpose of delivery.
<b><i>Stimulation of Labor</i></b>	Augmentation of previously established labor by use of oxytocin.
<b><i>Tocolysis</i></b>	Use of medications to inhibit preterm uterine contractions to extend the length of pregnancy and, therefore, avoid a preterm birth.
<b><i>Ultrasound</i></b>	Visualization of the fetus and the placenta by means of sound waves.
<b>Congenital Anomalies: Definitions</b>	
<b><i>Anencephalus</i></b>	Absence of the cerebral hemispheres.
<b><i>Spina Bifida/ Meningocele</i></b>	Developmental anomaly characterized by defective closure of the bony encasement of the spinal cord, through which the cord and meninges may or may not protrude.
<b><i>Hydrocephalus</i></b>	Excessive accumulation of cerebrospinal fluid within the ventricles of the brain with consequent enlargement of the cranium.
<b><i>Microcephalus</i></b>	A significantly small head.
<b><i>Other Central Nervous System</i></b>	Other specified anomalies of the brain, spinal cord, and nervous system.
<b><i>Heart Malformations</i></b>	Congenital anomalies of the heart.
<b><i>Other Circulatory/ Respiratory</i></b>	Other specified anomalies of the circulatory and respiratory systems.
<b><i>Rectal Atresia/ Stenosis</i></b>	Congenital absence, closure, or narrowing of the rectum.
<b><i>Tracheo-Esophageal Fistula/Esophageal Atresia</i></b>	An abnormal passage between the trachea and the esophagus; esophageal atresia is the congenital absence or closure of the esophagus.
<b><i>Omphalocele/ Gastroschisis</i></b>	An omphalocele is a protrusion of variable amounts of abdominal viscera from a midline defect at the base of the umbilicus. In gastroschisis, the abdominal viscera protrude through an abdominal wall defect, usually on the right side of the umbilical cord insertion.
<b><i>Other Gastrointestinal</i></b>	Other specified congenital anomalies of the gastrointestinal system.
<b><i>Malformed Genitalia</i></b>	Congenital anomalies of the reproductive organs.
<b><i>Renal Agenesis</i></b>	One or both kidneys are completely absent.

<i>Other Urogenital</i>	Other specified congenital anomalies of the organs concerned in the production and excretion of urine, together with organs of reproduction.
<i>Cleft Lip/Palate</i>	Cleft lip is a fissure or elongated opening of the lip; cleft palate is a fissure in the roof of the mouth. These are failures of embryonic development.
<i>Polydactyly/Syndactyly, Adactyly</i>	Polydactyly is the presence of more than five digits on either hands and/or feet; syndactyly is having fused or webbed fingers and/or toes; adactyly is the absence of fingers and/or toes.
<i>Clubfoot</i>	Deformity of the foot, which is twisted out of shape or position.
<i>Diaphragmatic Hernia</i>	Herniation of the abdominal contents through the diaphragm into the thoracic cavity, usually resulting in respiratory distress.
<i>Other Musculo-Skeletal/Integumental</i>	Other specified congenital anomalies of the muscles, skeleton, or skin.
<i>Down Syndrome</i>	The most common chromosomal defect, with most cases resulting from an extra chromosome (trisomy 21).
<i>Other Chromosomal</i>	All other chromosomal aberrations.



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