

# Fremont County Births and Deaths 2009

<b>Selected birth characteristics: County residents, 2009 .....</b>	<b>2</b>
<b>Selected birth characteristics by age group of mother: County residents, 2009 ....</b>	<b>3</b>
<b>Selected birth characteristics by race/ethnicity of mother: County residents, 2009 .....</b>	<b>4</b>
<b>Live births and fertility rates: County residents, 2009 .....</b>	<b>5</b>
<b>Vital statistics summary: County residents, 1999, 2005-2009 .....</b>	<b>6</b>
<b>Deaths from selected causes by race/ethnicity: County residents, 2009 .....</b>	<b>8</b>
<b>Deaths and age-specific death rates: County residents, 2009 .....</b>	<b>9</b>
<b>Deaths and age-specific death rates from selected causes: County residents, 2009 .....</b>	<b>10</b>
<b>Deaths, crude death rates and age-adjusted death rates from selected causes: County residents, 2009 .....</b>	<b>11</b>
<b>Notes Regarding Colorado's Revised Certificate of Live Birth .....</b>	<b>12</b>

For more information about these tables, please contact the Health Statistics Section of the Colorado Department of Public Health and Environment by telephone at **(303) 692-2160** or by email at [health.statistics@state.co.us](mailto:health.statistics@state.co.us).

## Selected birth characteristics: Fremont County residents, 2009

Characteristic	Number	Percent
Total Live Births	370	100.0
Age of Mother		
10-17	13	3.5
18-19	38	10.3
20-29	236	63.8
30+	83	22.4
Low Weight Births (<2,500 Grams)	31	8.4
Very Low Weight Births (<1,500 Grams)	6	1.6
Prenatal Care Later than 1st Trimester/No Care	90	24.4
No Prenatal Care	10	2.7
Preterm Births (<37 Weeks)	28	7.6
Education of Mother <High School Diploma/GED	75	20.3
Live Births to Unmarried Women	132	35.7
Smoking During Pregnancy	104	28.1

*"Education of Mother," "Births to Unmarried Women," and "Smoking During Pregnancy" are among items collected in 2007, using the revised birth certificate, that are not directly comparable to data collected before 2007. See notes page at end of report for details of these revised data items.*

*\* indicates one or two events in the category.*

*Sums may not add to total due to cases with age of mother unknown.*

*Percentages are of total births, excluding cases with specific characteristics unknown.*

*See technical notes at [www.cdphe.state.co.us/hs](http://www.cdphe.state.co.us/hs) for definitions of data items.*

*Source: Health Statistics Section, Colorado Department of Public Health and Environment.*

## Selected birth characteristics by age group of mother: Fremont County residents, 2009

Characteristic	All Ages		10-17		18-19		20-29		30+	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total Live Births	370	100.0	13	100.0	38	100.0	236	100.0	83	100.0
Race/Ethnicity of Mother										
White, Non-Hispanic	318	86.2	12	92.3	35	94.6	194	82.2	77	92.8
White, Hispanic	34	9.2	0	0.0	*	*	28	11.9	5	6.0
Black	*	*	0	0.0	0	0.0	*	*	0	0.0
Asian American/Pacific Islander	3	0.8	0	0.0	0	0.0	*	*	*	*
American Indian/Native Alaskan	3	0.8	0	0.0	0	0.0	3	1.3	0	0.0
Other	10	2.7	*	*	*	*	8	3.4	0	0.0
Unknown	*	*	0	0.0	*	*	0	0.0	0	0.0
Low Weight Births (<2,500 Grams)	31	8.4	0	0.0	8	21.1	16	6.8	7	8.4
Very Low Weight Births (<1,500 Grams)	6	1.6	0	0.0	3	7.9	3	1.3	0	0.0
Prenatal Care Later than 1st Trimester/No Care	90	24.4	7	53.8	9	23.7	54	23.0	20	24.1
No Prenatal Care	10	2.7	*	*	0	0.0	5	2.1	3	3.6
Preterm Births (<37 Weeks)	28	7.6	0	0.0	4	10.5	18	7.6	6	7.2
Education of Mother <High School Diploma/GED	75	20.3	13	100.0	18	47.4	39	16.5	5	6.0
Live Births to Unmarried Women	132	35.7	12	92.3	20	52.6	78	33.1	22	26.5
Smoking During Pregnancy	104	28.1	5	38.5	10	26.3	74	31.4	15	18.1

*"Education of Mother," "Births to Unmarried Women," and "Smoking During Pregnancy" are among items collected in 2007, using the revised birth certificate, that are not directly comparable to data collected before 2007. See notes page at end of report for details of these revised data items.*

*\* indicates one or two events in the category.*

*Sums may not add to total due to cases with age of mother unknown.*

*Percentages are of total births, excluding cases with specific characteristics unknown.*

*Percentage not computed for cells shaded in light gray.*

*See technical notes at [www.cdphe.state.co.us/hs](http://www.cdphe.state.co.us/hs) for definitions of data items.*

*Source: Health Statistics Section, Colorado Department of Public Health and Environment.*

## Selected birth characteristics by race/ethnicity of mother: Fremont County residents, 2009

Characteristic	White Non-Hispanic		White Hispanic		Black		Asian American/Pacific Islander		American Indian/Native Alaskan	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Total Live Births</b>	318	100.0	34	100.0	*	*	3	100.0	3	100.0
<b>Age of Mother</b>										
<b>10-17</b>	12	3.8	0	0.0	0	0.0	0	0.0	0	0.0
<b>18-19</b>	35	11.0	*	*	0	0.0	0	0.0	0	0.0
<b>20-29</b>	194	61.0	28	82.4	*	*	*	*	3	100.0
<b>30+</b>	77	24.2	5	14.7	0	0.0	*	*	0	0.0
<b>Low Weight Births (&lt;2,500 Grams)</b>	27	8.5	*	*	0	0.0	0	0.0	*	*
<b>Very Low Weight Births (&lt;1,500 Grams)</b>	6	1.9	0	0.0	0	0.0	0	0.0	0	0.0
<b>Prenatal Care Later than 1st Trimester/No Care</b>	70	22.1	16	47.1	*	*	*	*	*	*
<b>No Prenatal Care</b>	6	1.9	*	*	*	*	*	*	0	0.0
<b>Preterm Births (&lt;37 Weeks)</b>	25	7.9	3	8.8	0	0.0	0	0.0	0	0.0
<b>Education of Mother &lt;High School Diploma/GED</b>	62	19.5	8	23.5	0	0.0	0	0.0	*	*
<b>Live Births to Unmarried Women</b>	113	35.5	11	32.4	*	*	*	*	*	*
<b>Smoking During Pregnancy</b>	91	28.6	10	29.4	0	0.0	0	0.0	*	*

*"Education of Mother," "Births to Unmarried Women," and "Smoking During Pregnancy" are among items collected in 2007, using the revised birth certificate, that are not directly comparable to data collected before 2007. See notes page at end of report for details of these revised data items.*

*\* indicates one or two events in the category.*

*Sums may not add to total due to cases with age or race/ethnicity of mother unknown.*

*Percentages are of total births, excluding cases with specific characteristics unknown.*

*See technical notes at [www.cdphe.state.co.us/hs](http://www.cdphe.state.co.us/hs) for definitions of data items.*

*Source: Health Statistics Section, Colorado Department of Public Health and Environment.*

**Live births and fertility rates with 95% confidence limits by age group of mother: Fremont County residents, 2009**

Age Group	Births	Population	Fertility Rate	Lower Limit	Upper Limit
All Ages	370	7,299	50.7	45.6	55.8
<b>Teen Age Groups</b>					
13-14	0	519	0.0	0.0	0.0
15-17	13	788	16.5	7.0	26.0
18-19	38	582	65.3	44.4	86.2
10-17	13	2,006	6.5	2.7	10.2
10-19	51	2,588	19.7	14.2	25.3
<b>All Age Groups</b>					
10-14	0	1,218	0.0	0.0	0.0
15-19	51	1,370	37.2	26.8	47.6
20-24	149	1,421	104.9	88.6	121.1
25-29	87	1,116	78.0	61.8	94.1
30-34	50	952	52.5	37.8	67.2
35-39	26	1,160	22.4	13.5	31.4
40-49	7	2,969	2.4	0.4	4.3

*\* indicates one or two events in the category.*

*Sums may not add to total due to cases with age of mother unknown.*

*Rates are live births per 1,000 female population in each age group.*

*Population data for 'all ages' are females ages 15-44.*

*See technical notes at [www.cdphe.state.co.us/hs](http://www.cdphe.state.co.us/hs) for definitions of data items.*

*Source: Health Statistics Section, Colorado Department of Public Health and Environment.*

## Vital statistics summary: Fremont County residents, 1999, 2005-2009

	1999	2005	2006	2007	2008	2009	2005-2009 Annual Average
<b>Total Population</b>	45,135	47,434	47,881	48,018	48,334	48,385	48,010
<b>Total Births</b>							
Number	456	418	421	442	429	370	416
Birth Rate	10.1	8.8	8.8	9.2	8.9	7.6	8.7
General Fertility Rate	63.2	56.6	56.7	59.7	58.4	50.7	56.4
<b>Age of Mother 10-17</b>							
Number	25	27	26	14	16	13	19
Percent of Total Births	5.5	6.5	6.2	3.2	3.7	3.5	4.6
Fertility Rate	11.0	12.3	12.1	6.6	7.7	6.5	9.1
<b>Low Weight Births (&lt;2,500 Grams)</b>							
Number	43	40	38	52	40	31	40
Percent	9.4	9.6	9.0	11.8	9.3	8.4	9.7
<b>Prenatal Care Later Than 1st Trimester/No Care</b>							
Number	73	86	83	75	92	90	85
Percent	16.0	20.6	19.8	17.1	21.5	24.4	20.6
<b>Births to Unmarried Women</b>							
Number	157	180	180	166	143	132	
Percent	34.4	43.1	42.8	37.6	33.3	35.7	
<b>Mother's Education &lt;12 Years</b>							
Number	79	99	75	82	83	75	
Percent	17.4	23.7	18.0	18.7	19.4	20.3	
<b>Infant Deaths</b>							
Number	4	*	5	3	0	*	*
Rate	8.8	*	11.9	6.8	0.0	*	*
<b>Neonatal Deaths</b>							
Number	3	0	4	3	0	*	*
Rate	6.6	0.0	9.5	6.8	0.0	*	*
<b>Total Deaths</b>							
Number	491	514	479	475	493	499	492
Crude Rate	1087.8	1083.6	1000.4	989.2	1020.0	1031.3	1024.8
Age-Adjusted Rate	948.7	912.9	831.9	803.8	810.8	808.4	833.2
<b>Cardiovascular Disease</b>							
Number	191	165	151	149	147	143	151
Age-Adjusted Rate	359.9	283.6	253.3	246.2	237.2	225.6	248.7
<b>Heart Disease</b>							
Number	130	111	105	102	108	112	108
Age-Adjusted Rate	245.7	190.5	177.3	168.5	175.3	175.7	177.4

(Continued)

**HIGHLIGHTED ROWS:** Denotes data items collected in 2007, using the revised birth certificate, that are not directly comparable to data collected before 2007. Due to this incomparability, 5-year averages for these data items are not presented in this report. See notes page at end of report for details of these revised data items.

\* indicates one or two events in the category.

Birth rates are per 1,000 total population. General fertility rates are births per 1,000 females ages 15-44.

Fertility rates for mothers ages 10-17 are births per 1,000 females of this age group.

Infant and neonatal mortality rates are per 1,000 live births. Other death rates are per 100,000 population.

Age-adjusted rates are adjusted to the 2000 U.S. population using the direct method applied to 10-year age groups.

Source: Health Statistics Section, Colorado Department of Public Health and Environment.

## Vital statistics summary: Fremont County residents, 1999, 2005-2009

	1999	2005	2006	2007	2008	2009	2005-2009 Annual Average
<b>Cerebrovascular Disease</b>							
Number	41	33	28	30	27	21	28
Age-Adjusted Rate	77.3	57.1	46.4	49.6	42.2	33.9	45.6
<b>Malignant Neoplasms</b>							
Number	105	112	104	95	104	120	107
Age-Adjusted Rate	204.1	196.5	178.3	159.0	167.5	190.7	178.4
<b>Lung Cancer</b>							
Number	26	30	29	27	33	34	31
Age-Adjusted Rate	50.5	52.8	48.9	45.6	53.1	55.3	51.1
<b>Breast Cancer</b>							
Number	9	7	11	8	6	6	8
Age-Adjusted Rate	17.5	11.9	19.3	13.0	9.2	9.5	12.5
<b>Total Unintentional Injuries</b>							
Number	22	33	25	20	19	37	27
Age-Adjusted Rate	45.4	69.1	46.6	37.4	34.9	65.1	50.9
<b>Motor Vehicle</b>							
Number	6	11	5	4	3	12	7
Age-Adjusted Rate	13.4	24.6	10.0	8.7	5.4	22.5	14.3
<b>Other Unintentional Injuries</b>							
Number	16	22	20	16	16	25	20
Age-Adjusted Rate	32.0	44.5	36.6	28.7	29.5	42.6	36.5
<b>Chronic Lower Respiratory Diseases</b>							
Number	38	42	33	43	35	35	38
Age-Adjusted Rate	72.1	72.8	56.0	71.8	57.3	56.0	62.6
<b>Suicide</b>							
Number	7	20	14	12	20	17	17
Age-Adjusted Rate	14.7	38.1	28.7	24.3	39.1	35.4	33.1
<b>Homicide and Legal Intervention</b>							
Number	6	*	*	*	5	3	*
Age-Adjusted Rate	12.0	*	*	*	10.9	4.7	*
<b>Work-Related Injury</b>							
Number	*	0	*	*	0	*	*
Age-Adjusted Rate	*	0.0	*	*	0.0	*	*

**HIGHLIGHTED ROWS:** Denotes data items collected in 2007, using the revised birth certificate, that are not directly comparable to data collected before 2007. Due to this incomparability, 5-year averages for these data items are not presented in this report. See notes page at end of report for details of these revised data items.

\* indicates one or two events in the category.

Birth rates are per 1,000 total population. General fertility rates are births per 1,000 females ages 15-44.

Fertility rates for mothers ages 10-17 are births per 1,000 females of this age group.

Infant and neonatal mortality rates are per 1,000 live births. Other death rates are per 100,000 population.

Age-adjusted rates are adjusted to the 2000 U.S. population using the direct method applied to 10-year age groups.

Source: Health Statistics Section, Colorado Department of Public Health and Environment.

## Deaths from selected causes by race/ethnicity: Fremont County residents, 2009

Cause of Death	All Races		White Non-Hispanic		White Hispanic		Black		Asian American/Pacific Islander		American Indian/Native Alaskan	
	N	%	N	%	N	%	N	%	N	%	N	%
<b>Total</b>	499	100.0	468	100.0	28	100.0	*	*	0	0.0	0	0.0
<b>Cardiovascular Disease</b>	143	28.7	137	29.3	5	17.9	0	0.0	0	0.0	0	0.0
Heart Disease	112	22.4	107	22.9	4	14.3	0	0.0	0	0.0	0	0.0
Cerebrovascular Disease	21	4.2	20	4.3	*	*	0	0.0	0	0.0	0	0.0
Atherosclerosis	3	0.6	3	0.6	0	0.0	0	0.0	0	0.0	0	0.0
<b>Malignant Neoplasms</b>	120	24.0	111	23.7	8	28.6	*	*	0	0.0	0	0.0
Lung Cancer	34	6.8	32	6.8	*	*	0	0.0	0	0.0	0	0.0
Breast Cancer	6	1.2	6	1.3	0	0.0	0	0.0	0	0.0	0	0.0
<b>Chronic Lower Respiratory Disease</b>	35	7.0	34	7.3	*	*	0	0.0	0	0.0	0	0.0
<b>Unintentional Injuries</b>	37	7.4	35	7.5	*	*	0	0.0	0	0.0	0	0.0
Motor Vehicle	12	2.4	12	2.6	0	0.0	0	0.0	0	0.0	0	0.0
Other Unintentional Injuries	25	5.0	23	4.9	*	*	0	0.0	0	0.0	0	0.0
<b>Pneumonia and Influenza</b>	16	3.2	15	3.2	*	*	0	0.0	0	0.0	0	0.0
<b>Suicide</b>	17	3.4	14	3.0	3	10.7	0	0.0	0	0.0	0	0.0
<b>Diabetes Mellitus</b>	11	2.2	9	1.9	*	*	0	0.0	0	0.0	0	0.0
<b>HIV Infection</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Chronic Liver Disease and Cirrhosis</b>	4	0.8	4	0.9	0	0.0	0	0.0	0	0.0	0	0.0
<b>Alzheimer's Disease</b>	23	4.6	22	4.7	*	*	0	0.0	0	0.0	0	0.0
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	*	*	*	*	0	0.0	0	0.0	0	0.0	0	0.0
<b>Homicide and Legal Intervention</b>	3	0.6	3	0.6	0	0.0	0	0.0	0	0.0	0	0.0
<b>Septicemia</b>	*	*	*	*	0	0.0	0	0.0	0	0.0	0	0.0
<b>Congenital Anomalies</b>	*	*	*	*	0	0.0	0	0.0	0	0.0	0	0.0
<b>Perinatal Period Conditions</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>All Other</b>	85	17.0	79	16.9	6	21.4	0	0.0	0	0.0	0	0.0
<b>Injury by Firearm</b>	10	2.0	8	1.7	*	*	0	0.0	0	0.0	0	0.0
<b>Drug-Induced Deaths</b>	8	1.6	8	1.7	0	0.0	0	0.0	0	0.0	0	0.0
<b>Alcohol-Induced Deaths</b>	8	1.6	8	1.7	0	0.0	0	0.0	0	0.0	0	0.0
<b>Work-Related Injury (Y/N Check Death Certificate)</b>	*	*	*	*	0	0.0	0	0.0	0	0.0	0	0.0

\* indicates one or two events in the category.

Percentages are of total deaths of each race/ethnicity category.

Source: Health Statistics Section, Colorado Department of Public Health and Environment.

## Deaths and age-specific death rates: Fremont County residents, 2009

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	499	48,385	10.3
Infant	*	370	*
Neonatal	*	370	*
1-4	0	1,714	0.0
5-9	0	2,323	0.0
10-14	0	2,471	0.0
15-19	0	2,831	0.0
20-24	6	3,166	1.9
25-29	8	2,741	2.9
30-34	5	3,057	1.6
35-39	3	3,717	0.8
40-44	9	3,705	2.4
45-49	20	4,386	4.6
50-54	22	3,844	5.7
55-59	29	3,346	8.7
60-64	32	2,861	11.2
65-69	32	2,141	14.9
70-74	58	1,974	29.4
75-79	62	1,541	40.2
80-84	76	1,095	69.4
85+	136	1,050	129.5
1-14	0	6,508	0.0
15-24	6	5,997	1.0
25-64	128	27,657	4.6
65+	364	7,801	46.7

\* indicates one or two events in the category.

Infant death is death in the first year of life. Neonatal death is death occurring prior to the 28th day of life.

Infant and neonatal mortality rates are per 1,000 live births. Other death rates are per 1,000 population of the age group. Population figures for infant and neonatal groups are live births.

Source: Health Statistics Section, Colorado Department of Public Health and Environment.

## Deaths and age-specific death rates from selected causes: Fremont County residents, 2009

Cause of Death	<1		1-14		15-24		25-44		45-64		65+	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
All Causes	*	*	0	0.0	6	1.0	25	1.9	103	7.1	364	46.7
Cardiovascular Disease	0	0.0	0	0.0	0	0.0	4	0.3	26	1.8	113	14.5
Heart Disease	0	0.0	0	0.0	0	0.0	3	0.2	23	1.6	86	11.0
Cerebrovascular Disease	0	0.0	0	0.0	0	0.0	*	*	3	0.2	17	2.2
Atherosclerosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.4
Malignant Neoplasms	0	0.0	0	0.0	0	0.0	*	*	33	2.3	86	11.0
Lung Cancer	0	0.0	0	0.0	0	0.0	*	*	7	0.5	26	3.3
Breast Cancer	0	0.0	0	0.0	0	0.0	0	0.0	3	0.2	3	0.4
Chronic Lower Respiratory Diseases	0	0.0	0	0.0	0	0.0	0	0.0	5	0.3	30	3.8
Unintentional Injuries	0	0.0	0	0.0	3	0.5	7	0.5	8	0.6	19	2.4
Motor Vehicle	0	0.0	0	0.0	3	0.5	*	*	3	0.2	4	0.5
Other Unintentional Injuries	0	0.0	0	0.0	0	0.0	5	0.4	5	0.3	15	1.9
Pneumonia and Influenza	0	0.0	0	0.0	0	0.0	0	0.0	5	0.3	11	1.4
Suicide	0	0.0	0	0.0	3	0.5	9	0.7	3	0.2	*	*
Diabetes Mellitus	0	0.0	0	0.0	0	0.0	*	*	*	*	8	1.0
HIV Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Chronic Liver Disease and Cirrhosis	0	0.0	0	0.0	0	0.0	0	0.0	3	0.2	*	*
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	23	2.9
Nephritis, Nephrosis, Nephrotic Syndrome	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	*	*
Homicide and Legal Intervention	0	0.0	0	0.0	0	0.0	0	0.0	3	0.2	0	0.0
Septicemia	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	*	*
Congenital Anomalies	*	*	0	0.0	0	0.0	0	0.0	0	0.0	*	*
Perinatal Period Conditions	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
All Other	0	0.0	0	0.0	0	0.0	3	0.2	15	1.0	67	8.6
Injury by Firearm	0	0.0	0	0.0	3	0.5	3	0.2	*	*	*	*
Drug-Induced Deaths	0	0.0	0	0.0	0	0.0	5	0.4	*	*	*	*
Alcohol-Induced Deaths	0	0.0	0	0.0	0	0.0	*	*	6	0.4	*	*
Work-Related Injury (Y/N Check Death Certificate)	0	0.0	0	0.0	0	0.0	*	*	0	0.0	*	*

\* indicates one or two events in the category.

Infant (<1 year) mortality rates are per 1,000 live births.

Other rates are deaths per 1,000 population of the age group.

Source: Health Statistics Section, Colorado Department of Public Health and Environment.

**Deaths, crude death rates and age-adjusted death rates with 95% confidence limits from selected causes:  
Fremont County residents, 2009**

Cause of Death	N	Rate	Age-Adjusted Rate	Lower Limit	Upper Limit
All Causes	499	1,031.3	808.4	738.7	878.2
Cardiovascular Disease	143	295.5	225.6	188.8	262.4
Heart Disease	112	231.5	175.7	143.2	208.1
Cerebrovascular Disease	21	43.4	33.9	19.3	48.4
Atherosclerosis	3	6.2	4.7	0.6	12.7
Malignant Neoplasms	120	248.0	190.7	156.6	224.8
Lung Cancer	34	70.3	55.3	36.6	73.9
Breast Cancer	6	12.4	9.5	2.8	20.1
Chronic Lower Respiratory Diseases	35	72.3	56.0	37.4	74.5
Unintentional Injuries	37	76.5	65.1	43.8	86.4
Motor Vehicle	12	24.8	22.5	9.6	35.5
Other Unintentional Injuries	23	47.5	39.6	23.2	56.0
Pneumonia and Influenza	16	33.1	24.8	12.6	36.9
Suicide	17	35.1	35.4	18.4	52.4
Diabetes Mellitus	11	22.7	18.3	8.2	32.3
HIV Infection	0	0.0	0.0	0.0	0.0
Chronic Liver Disease and Cirrhosis	4	8.3	5.8	1.0	14.6
Alzheimer's Disease	23	47.5	36.5	21.6	51.4
Nephritis, Nephrosis, Nephrotic Syndrome	*	*	*	*	*
Homicide and Legal Intervention	3	6.2	4.7	0.6	12.8
Septicemia	*	*	*	*	*
Congenital Anomalies	*	*	*	*	*
Perinatal Period Conditions	0	0.0	0.0	0.0	0.0
All Other	85	175.7	135.9	107.1	164.8
Injury by Firearm	10	20.7	20.5	9.7	35.4
Drug-Induced Deaths	8	16.5	15.5	6.3	28.6
Alcohol-Induced Deaths	8	16.5	12.9	4.8	25.1
Work-Related Injury (Y/N Check Death Certificate)	*	*	*	*	*

*\* indicates one or two events in the category.*

*Rates are deaths per 100,000 population.*

*Crude death rates are calculated without age-adjustment.*

*Age-adjusted rates are adjusted to the 2000 U.S. standard population using the direct method applied to 10-year age groups.*

*Age-adjusted rates provide a better basis for comparison among different geographical areas or time periods.*

*Source: Health Statistics Section, Colorado Department of Public Health and Environment.*

## Notes Regarding Colorado's Revised Certificate of Live Birth

These tables contain Colorado birth data that were collected using the 1989 Revision of the U.S. Standard Certificate of Live Birth (unrevised) and the 2003 Revision of the U.S. Standard Certificate of Live Birth (revised)<sup>1,2,3</sup>. Colorado's birth registration system used the unrevised certificate for births through calendar year 2006; while births in 2007 through the present were registered using the revised certificate. Among the differences in the revised birth certificate are changes to the following data items:

- Mother's and father's race, captures multiple race identification instead of single race identification
- Mother's and father's education, captures highest degree attained instead of total years of education
- Mother's marital status at time of birth, captures never married, married, widowed, separated, and divorced instead of just married or unmarried
- Cigarette smoking before and during pregnancy, captures levels of smoking in each trimester instead of just smoking any time during pregnancy

And the addition of the following data items:

- Method of delivery includes fetal presentation and trial of labor prior to cesarean delivery
- Pre-pregnancy weight, weight at delivery and height, used to calculate Body Mass Index
- Congenital anomalies, certain conditions have been added or removed
- Fertility therapy
- Did mother get WIC food for herself during this pregnancy
- Infections during pregnancy
- Maternal morbidity
- Breast feeding
- Principal source of payment for the delivery

Data items noted above that were collected using both the unrevised certificate and the revised certificate are not directly comparable. Analyses of birth data for time periods that include both revised and unrevised data should be performed with caution.

To facilitate analyses of births by race, the multiple race identification in revised certificates has been bridged back to a single race using a system developed by the National Center for Health Statistics at the Centers for Disease Control and Prevention<sup>4</sup>. *Please note*, however, that there has been an increase in the number of births reported with "other" or "unknown" maternal and paternal race and/or Hispanic ethnicity beginning in 2007 compared to previous years. This is likely attributable to the change to the revised certificate.

The Health Statistics Section at the Colorado Department of Public Health and Environment is available to assist with analyses of these data, as well as to answer questions one might have regarding the revised certificate and the affected data items. For further information or assistance, please contact the Health Statistics Section at **(303) 692-2160** or by e-mail at [health.statistics@state.co.us](mailto:health.statistics@state.co.us).

### References:

- <sup>1</sup> National Center for Health Statistics. 2003 revision of the U.S. Standard Certificate of Live Birth. 2003. Available from: [http://www.cdc.gov/nchs/vital\\_certs\\_rev.htm](http://www.cdc.gov/nchs/vital_certs_rev.htm).
- <sup>2</sup> National Center for Health Statistics. Report of the Panel to Evaluate the U.S. Standard Certificates and Reports. National Center for Health Statistics. 2000. Available from: [http://www.cdc.gov/nchs/data/dvs/panelreport\\_acc.pdf](http://www.cdc.gov/nchs/data/dvs/panelreport_acc.pdf).
- <sup>3</sup> Martin JA, Hamilton BE, Sutton PD, et al. Births: Final data for 2004. National vital statistics reports; vol 55 no 1. Hyattsville, MD: National Center for Health Statistics. 2006.
- <sup>4</sup> NCHS Procedures for Multiple-Race and Hispanic Origin Data: Collection, Coding, Editing, and Transmittal. Division of Vital Statistics, National Center for Health Statistics, Centers for Disease Control and Prevention, May 7, 2004. Available from: [http://www.cdc.gov/nchs/data/dvs/Multiple\\_race\\_docu\\_5-10-04.pdf](http://www.cdc.gov/nchs/data/dvs/Multiple_race_docu_5-10-04.pdf).