

# Jefferson County Births and Deaths 2009

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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: Jefferson County residents, 2009

Characteristic	Number	Percent
<b>Total Live Births</b>	5,799	100.0
<b>Age of Mother</b>		
10-17	123	2.1
18-19	273	4.7
20-29	2,728	47.1
30+	2,672	46.1
<b>Low Weight Births (&lt;2,500 Grams)</b>	509	8.8
<b>Very Low Weight Births (&lt;1,500 Grams)</b>	64	1.1
<b>Prenatal Care Later than 1st Trimester/No Care</b>	879	15.4
<b>No Prenatal Care</b>	55	1.0
<b>Preterm Births (&lt;37 Weeks)</b>	543	9.4
<b>Education of Mother &lt;High School Diploma/GED</b>	722	12.6
<b>Live Births to Unmarried Women</b>	1,336	23.0
<b>Smoking During Pregnancy</b>	516	8.9

*"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: Jefferson County residents, 2009

Characteristic	All Ages		10-17		18-19		20-29		30+	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Total Live Births</b>	5,799	100.0	123	100.0	273	100.0	2,728	100.0	2,672	100.0
<b>Race/Ethnicity of Mother</b>										
White, Non-Hispanic	4,213	73.6	55	45.1	160	59.5	1,893	70.3	2,105	79.8
White, Hispanic	1,127	19.7	61	50.0	93	34.6	625	23.2	348	13.2
Black	58	1.0	*	*	4	1.5	32	1.2	21	0.8
Asian American/Pacific Islander	233	4.1	*	*	*	*	94	3.5	135	5.1
American Indian/Native Alaskan	54	0.9	*	*	6	2.2	30	1.1	17	0.6
Other	38	0.7	*	*	4	1.5	19	0.7	13	0.5
Unknown	76		*	*	4		35		33	
<b>Low Weight Births (&lt;2,500 Grams)</b>	509	8.8	14	11.4	29	10.6	210	7.7	254	9.5
Very Low Weight Births (<1,500 Grams)	64	1.1	*	*	6	2.2	28	1.0	28	1.0
<b>Prenatal Care Later than 1st Trimester/No Care</b>	879	15.4	41	33.6	74	27.8	470	17.5	293	11.2
No Prenatal Care	55	1.0	*	*	5	1.9	28	1.0	20	0.8
<b>Preterm Births (&lt;37 Weeks)</b>	543	9.4	6	4.9	30	11.0	225	8.2	282	10.6
<b>Education of Mother &lt;High School Diploma/GED</b>	722	12.6	104	84.6	120	44.6	374	13.9	124	4.7
<b>Live Births to Unmarried Women</b>	1,336	23.0	109	88.6	206	75.5	785	28.8	236	8.8
<b>Smoking During Pregnancy</b>	516	8.9	12	9.8	52	19.1	320	11.7	132	4.9

*"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: Jefferson 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>	4,213	100.0	1,127	100.0	58	100.0	233	100.0	54	100.0
<b>Age of Mother</b>										
<b>10-17</b>	55	1.3	61	5.4	*	*	*	*	*	*
<b>18-19</b>	160	3.8	93	8.3	4	6.9	*	*	6	11.1
<b>20-29</b>	1,893	44.9	625	55.5	32	55.2	94	40.3	30	55.6
<b>30+</b>	2,105	50.0	348	30.9	21	36.2	135	57.9	17	31.5
<b>Low Weight Births (&lt;2,500 Grams)</b>	362	8.6	97	8.6	8	13.8	25	10.7	9	16.7
<b>Very Low Weight Births (&lt;1,500 Grams)</b>	46	1.1	13	1.2	*	*	3	1.3	*	*
<b>Prenatal Care Later than 1st Trimester/No Care</b>	521	12.6	270	24.3	14	25.0	33	14.5	22	41.5
<b>No Prenatal Care</b>	28	0.7	18	1.6	*	*	4	1.8	*	*
<b>Preterm Births (&lt;37 Weeks)</b>	400	9.5	104	9.2	7	12.1	18	7.7	9	16.7
<b>Education of Mother &lt;High School Diploma/GED</b>	279	6.7	377	33.7	9	15.5	21	9.1	17	31.5
<b>Live Births to Unmarried Women</b>	817	19.4	425	37.7	20	34.5	28	12.0	20	37.0
<b>Smoking During Pregnancy</b>	413	9.8	77	6.8	8	13.8	4	1.7	8	15.1

*"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 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: Jefferson County residents, 2009**

Age Group	Births	Population	Fertility Rate	Lower Limit	Upper Limit
All Ages	5,799	102,997	56.3	54.9	57.7
<b>Teen Age Groups</b>					
13-14	*	6,515	*	*	*
15-17	121	10,649	11.4	9.3	13.4
18-19	273	7,808	35.0	30.8	39.1
10-17	123	26,503	4.6	3.8	5.5
10-19	396	34,312	11.5	10.4	12.7
<b>All Age Groups</b>					
10-14	*	15,855	*	*	*
15-19	394	18,457	21.3	19.2	23.5
20-24	1,136	19,808	57.4	54.1	60.6
25-29	1,592	16,348	97.4	92.8	102.0
30-34	1,550	13,601	114.0	108.6	119.3
35-39	903	16,193	55.8	52.2	59.3
40-49	219	42,652	5.1	4.4	5.8

*\* 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: Jefferson County residents, 1999, 2005-2009

	1999	2005	2006	2007	2008	2009	2005-2009 Annual Average
<b>Total Population</b>	520,811	530,866	533,356	537,365	542,314	545,848	537,950
<b>Total Births</b>							
Number	6,533	6,031	6,252	6,268	6,052	5,799	6,080
Birth Rate	12.5	11.4	11.7	11.7	11.2	10.6	11.3
General Fertility Rate	56.4	56.8	59.6	60.1	58.2	56.3	58.2
<b>Age of Mother 10-17</b>							
Number	168	134	170	157	119	123	141
Percent of Total Births	2.6	2.2	2.7	2.5	2.0	2.1	2.3
Fertility Rate	5.6	4.7	6.1	5.7	4.4	4.6	5.1
<b>Low Weight Births (&lt;2,500 Grams)</b>							
Number	521	525	531	533	501	509	520
Percent	8.0	8.7	8.5	8.5	8.3	8.8	8.5
<b>Prenatal Care Later Than 1st Trimester/No Care</b>							
Number	553	732	753	922	924	879	842
Percent	8.5	12.4	12.2	15.1	15.7	15.4	14.1
<b>Births to Unmarried Women</b>							
Number	1,164	1,323	1,502	1,392	1,347	1,336	
Percent	17.8	21.9	24.0	22.2	22.3	23.0	
<b>Mother's Education &lt;12 Years</b>							
Number	715	866	947	910	821	722	
Percent	11.0	14.5	15.3	14.7	13.7	12.6	
<b>Infant Deaths</b>							
Number	30	32	43	36	23	30	33
Rate	4.6	5.3	6.9	5.7	3.8	5.2	5.4
<b>Neonatal Deaths</b>							
Number	17	24	33	21	18	25	24
Rate	2.6	4.0	5.3	3.4	3.0	4.3	4.0
<b>Total Deaths</b>							
Number	3,114	3,395	3,545	3,555	3,751	3,718	3,593
Crude Rate	597.9	639.5	664.7	661.6	691.7	681.1	667.9
Age-Adjusted Rate	770.0	723.3	732.6	712.2	731.2	699.5	719.4
<b>Cardiovascular Disease</b>							
Number	1,096	1,096	1,050	1,037	984	1,015	1,036
Age-Adjusted Rate	285.7	242.1	223.6	214.0	197.1	194.7	213.4
<b>Heart Disease</b>							
Number	715	748	705	716	715	735	724
Age-Adjusted Rate	183.5	162.9	146.9	146.3	141.8	139.5	147.1

(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: Jefferson County residents, 1999, 2005-2009

	1999	2005	2006	2007	2008	2009	2005-2009 Annual Average
<b>Cerebrovascular Disease</b>							
Number	197	153	163	185	168	170	168
Age-Adjusted Rate	51.8	34.3	35.5	38.2	34.4	33.1	35.1
<b>Malignant Neoplasms</b>							
Number	713	731	812	787	814	802	789
Age-Adjusted Rate	167.6	147.4	159.1	149.4	150.9	142.9	149.7
<b>Lung Cancer</b>							
Number	161	171	206	189	179	187	186
Age-Adjusted Rate	38.9	34.5	40.4	35.8	33.0	33.2	35.3
<b>Breast Cancer</b>							
Number	57	68	55	62	69	56	62
Age-Adjusted Rate	12.7	12.7	10.4	11.5	11.8	9.6	11.2
<b>Total Unintentional Injuries</b>							
Number	126	187	158	193	229	217	197
Age-Adjusted Rate	26.7	37.0	31.8	36.7	44.1	40.3	38.2
<b>Motor Vehicle</b>							
Number	49	68	55	64	52	44	57
Age-Adjusted Rate	9.8	12.7	10.1	11.8	9.4	7.6	10.3
<b>Other Unintentional Injuries</b>							
Number	77	119	103	129	177	173	140
Age-Adjusted Rate	17.0	24.2	21.7	24.9	34.7	32.7	27.8
<b>Chronic Lower Respiratory Diseases</b>							
Number	222	209	242	251	280	271	251
Age-Adjusted Rate	55.9	46.1	51.6	51.6	55.6	50.8	51.2
<b>Suicide</b>							
Number	89	96	92	95	89	99	94
Age-Adjusted Rate	17.3	18.1	15.9	16.8	16.3	17.4	16.9
<b>Homicide and Legal Intervention</b>							
Number	22	9	10	6	11	19	11
Age-Adjusted Rate	4.3	1.9	1.7	1.2	2.4	3.6	2.2
<b>Work-Related Injury</b>							
Number	*	9	6	9	7	5	7
Age-Adjusted Rate	*	1.5	1.1	1.6	1.1	0.9	1.2

**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: Jefferson 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>	3,718	100.0	3,365	100.0	257	100.0	25	100.0	43	100.0	17	100.0
<b>Cardiovascular Disease</b>	1,015	27.3	927	27.5	63	24.5	9	36.0	7	16.3	6	35.3
Heart Disease	735	19.8	673	20.0	43	16.7	6	24.0	6	14.0	5	29.4
Cerebrovascular Disease	170	4.6	156	4.6	11	4.3	*	*	*	*	*	*
Atherosclerosis	54	1.5	46	1.4	7	2.7	*	*	0	0.0	0	0.0
<b>Malignant Neoplasms</b>	802	21.6	735	21.8	48	18.7	4	16.0	14	32.6	*	*
Lung Cancer	187	5.0	175	5.2	3	1.2	3	12.0	6	14.0	0	0.0
Breast Cancer	56	1.5	51	1.5	4	1.6	0	0.0	0	0.0	*	*
<b>Chronic Lower Respiratory Disease</b>	271	7.3	261	7.8	4	1.6	0	0.0	4	9.3	*	*
<b>Unintentional Injuries</b>	217	5.8	186	5.5	19	7.4	*	*	3	7.0	3	17.6
Motor Vehicle	44	1.2	35	1.0	4	1.6	*	*	0	0.0	*	*
Other Unintentional Injuries	173	4.7	151	4.5	15	5.8	*	*	3	7.0	*	*
<b>Pneumonia and Influenza</b>	71	1.9	67	2.0	4	1.6	0	0.0	0	0.0	0	0.0
<b>Suicide</b>	99	2.7	87	2.6	9	3.5	*	*	*	*	*	*
<b>Diabetes Mellitus</b>	74	2.0	60	1.8	10	3.9	*	*	*	*	*	*
<b>HIV Infection</b>	3	0.1	*	*	*	*	0	0.0	0	0.0	0	0.0
<b>Chronic Liver Disease and Cirrhosis</b>	60	1.6	46	1.4	12	4.7	0	0.0	*	*	0	0.0
<b>Alzheimer's Disease</b>	198	5.3	184	5.5	10	3.9	3	12.0	*	*	0	0.0
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	44	1.2	41	1.2	3	1.2	0	0.0	0	0.0	0	0.0
<b>Homicide and Legal Intervention</b>	19	0.5	13	0.4	6	2.3	0	0.0	0	0.0	0	0.0
<b>Septicemia</b>	73	2.0	65	1.9	6	2.3	*	*	0	0.0	0	0.0
<b>Congenital Anomalies</b>	22	0.6	14	0.4	6	2.3	0	0.0	*	*	0	0.0
<b>Perinatal Period Conditions</b>	19	0.5	13	0.4	5	1.9	0	0.0	0	0.0	0	0.0
<b>All Other</b>	731	19.7	665	19.8	50	19.5	*	*	9	20.9	3	17.6
<b>Injury by Firearm</b>	55	1.5	49	1.5	5	1.9	0	0.0	0	0.0	*	*
<b>Drug-Induced Deaths</b>	65	1.7	55	1.6	5	1.9	*	*	*	*	*	*
<b>Alcohol-Induced Deaths</b>	81	2.2	68	2.0	12	4.7	0	0.0	0	0.0	0	0.0
<b>Work-Related Injury (Y/N Check Death Certificate)</b>	5	0.1	5	0.1	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: Jefferson County residents, 2009

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	3,718	545,848	6.8
Infant	30	5,799	5.2
Neonatal	25	5,799	4.3
1-4	7	24,945	0.3
5-9	4	32,087	0.1
10-14	4	32,537	0.1
15-19	12	38,376	0.3
20-24	27	41,862	0.6
25-29	35	34,237	1.0
30-34	27	28,045	1.0
35-39	50	33,176	1.5
40-44	64	36,736	1.7
45-49	135	46,999	2.9
50-54	156	47,576	3.3
55-59	224	43,023	5.2
60-64	244	34,475	7.1
65-69	254	19,622	12.9
70-74	299	16,690	17.9
75-79	403	13,298	30.3
80-84	539	8,814	61.2
85+	1,204	7,272	165.6
1-14	15	89,570	0.2
15-24	39	80,238	0.5
25-64	935	304,267	3.1
65+	2,699	65,697	41.1

\* 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: Jefferson 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	30	5.2	15	0.2	39	0.5	176	1.3	759	4.4	2,699	41.1
Cardiovascular Disease	0	0.0	0	0.0	*	*	27	0.2	170	1.0	817	12.4
Heart Disease	0	0.0	0	0.0	*	*	24	0.2	139	0.8	571	8.7
Cerebrovascular Disease	0	0.0	0	0.0	0	0.0	*	*	21	0.1	147	2.2
Atherosclerosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	54	0.8
Malignant Neoplasms	0	0.0	*	*	*	*	26	0.2	223	1.3	551	8.4
Lung Cancer	0	0.0	0	0.0	0	0.0	4	0.0	48	0.3	135	2.1
Breast Cancer	0	0.0	0	0.0	0	0.0	*	*	20	0.1	35	0.5
Chronic Lower Respiratory Diseases	0	0.0	0	0.0	0	0.0	0	0.0	40	0.2	231	3.5
Unintentional Injuries	*	*	6	0.1	18	0.2	34	0.3	61	0.4	96	1.5
Motor Vehicle	0	0.0	*	*	6	0.1	9	0.1	19	0.1	8	0.1
Other Unintentional Injuries	*	*	4	0.0	12	0.1	25	0.2	42	0.2	88	1.3
Pneumonia and Influenza	0	0.0	0	0.0	0	0.0	3	0.0	13	0.1	55	0.8
Suicide	0	0.0	*	*	13	0.2	27	0.2	37	0.2	20	0.3
Diabetes Mellitus	0	0.0	0	0.0	0	0.0	3	0.0	22	0.1	49	0.7
HIV Infection	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	6	0.0	40	0.2	14	0.2
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	198	3.0
Nephritis, Nephrosis, Nephrotic Syndrome	0	0.0	0	0.0	0	0.0	*	*	7	0.0	36	0.5
Homicide and Legal Intervention	*	*	0	0.0	3	0.0	9	0.1	4	0.0	*	*
Septicemia	0	0.0	0	0.0	0	0.0	0	0.0	11	0.1	62	0.9
Congenital Anomalies	6	1.0	*	*	0	0.0	8	0.1	5	0.0	*	*
Perinatal Period Conditions	19	3.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
All Other	*	*	4	0.0	3	0.0	31	0.2	124	0.7	567	8.6
Injury by Firearm	0	0.0	*	*	6	0.1	11	0.1	21	0.1	15	0.2
Drug-Induced Deaths	0	0.0	0	0.0	8	0.1	27	0.2	27	0.2	3	0.0
Alcohol-Induced Deaths	0	0.0	0	0.0	*	*	9	0.1	59	0.3	12	0.2
Work-Related Injury (Y/N Check Death Certificate)	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:  
Jefferson County residents, 2009**

<b>Cause of Death</b>	<b>N</b>	<b>Rate</b>	<b>Age-Adjusted Rate</b>	<b>Lower Limit</b>	<b>Upper Limit</b>
<b>All Causes</b>	3,718	681.1	699.5	677.5	721.4
<b>Cardiovascular Disease</b>	1,015	185.9	194.7	182.7	206.6
<b>Heart Disease</b>	735	134.7	139.5	129.4	149.7
<b>Cerebrovascular Disease</b>	170	31.1	33.1	28.1	38.2
<b>Atherosclerosis</b>	54	9.9	11.4	8.3	14.4
<b>Malignant Neoplasms</b>	802	146.9	142.9	132.9	153.0
<b>Lung Cancer</b>	187	34.3	33.2	28.3	38.0
<b>Breast Cancer</b>	56	10.3	9.6	7.0	12.2
<b>Chronic Lower Respiratory Diseases</b>	271	49.6	50.8	44.7	57.0
<b>Unintentional Injuries</b>	217	39.8	40.3	34.8	45.8
<b>Motor Vehicle</b>	44	8.1	7.6	5.3	9.9
<b>Other Unintentional Injuries</b>	170	31.1	32.2	27.3	37.2
<b>Pneumonia and Influenza</b>	71	13.0	13.6	10.4	16.8
<b>Suicide</b>	99	18.1	17.4	13.9	21.0
<b>Diabetes Mellitus</b>	74	13.6	13.3	10.2	16.4
<b>HIV Infection</b>	3	0.5	0.5	0.1	1.3
<b>Chronic Liver Disease and Cirrhosis</b>	60	11.0	9.2	6.8	11.6
<b>Alzheimer's Disease</b>	198	36.3	41.5	35.8	47.2
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	44	8.1	8.4	5.9	10.9
<b>Homicide and Legal Intervention</b>	19	3.5	3.6	2.0	5.3
<b>Septicemia</b>	73	13.4	13.9	10.7	17.1
<b>Congenital Anomalies</b>	22	4.0	4.5	2.6	6.4
<b>Perinatal Period Conditions</b>	19	3.5	4.3	2.4	6.3
<b>All Other</b>	731	133.9	140.5	130.3	150.7
<b>Injury by Firearm</b>	55	10.1	9.5	6.9	12.1
<b>Drug-Induced Deaths</b>	65	11.9	11.5	8.6	14.4
<b>Alcohol-Induced Deaths</b>	81	14.8	12.2	9.5	14.9
<b>Work-Related Injury (Y/N Check Death Certificate)</b>	5	0.9	0.9	0.2	2.1

*\* 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).