

# Douglas County Births and Deaths 2008

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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: Douglas County residents, 2008

Characteristic	Number	Percent
Total Live Births	3,883	100.0
Age of Mother		
10-17	23	0.6
18-19	55	1.4
20-29	1,445	37.2
30+	2,360	60.8
Low Weight Births (<2,500 Grams)	333	8.6
Very Low Weight Births (<1,500 Grams)	42	1.1
Prenatal Care Later than 1st Trimester/No Care	328	8.6
No Prenatal Care	19	0.5
Preterm Births (<37 Weeks)	421	10.8
Education of Mother <High School Diploma/GED	106	2.8
Live Births to Unmarried Women	298	7.7
Smoking During Pregnancy	111	2.9

*"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: Douglas County residents, 2008

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>	3,883	100.0	23	100.0	55	100.0	1,445	100.0	2,360	100.0
<b>Race/Ethnicity of Mother</b>										
White Non-Hispanic	3,256	84.5	14	60.9	39	72.2	1,217	85.0	1,986	84.8
White Hispanic	255	6.6	4	17.4	9	16.7	102	7.1	140	6.0
Black	47	1.2	*	*	*	*	19	1.3	25	1.1
Other	293	7.6	3	13.0	5	9.3	93	6.5	192	8.2
<b>Low Weight Births (&lt;2,500 Grams)</b>	333	8.6	*	*	3	5.5	95	6.6	233	9.9
Very Low Weight Births (<1,500 Grams)	42	1.1	0	0.0	0	0.0	12	0.8	30	1.3
<b>Prenatal Care Later than 1st Trimester/No Care</b>	328	8.6	8	34.8	14	25.9	159	11.1	147	6.3
No Prenatal Care	19	0.5	*	*	0	0.0	9	0.6	8	0.3
<b>Preterm Births (&lt;37 Weeks)</b>	421	10.8	*	*	4	7.3	131	9.1	285	12.1
<b>Education of Mother &lt;High School Diploma/GED</b>	106	2.8	18	78.3	17	30.9	45	3.1	26	1.1
<b>Live Births to Unmarried Women</b>	298	7.7	18	78.3	37	67.3	173	12.0	70	3.0
<b>Smoking During Pregnancy</b>	111	2.9	5	21.7	5	9.1	61	4.2	40	1.7

*"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.cdph.state.co.us/hs](http://www.cdph.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: Douglas County residents, 2008

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>	3,256	100.0	255	100.0	47	100.0	209	100.0	11	100.0
<b>Age of Mother</b>										
<b>10-17</b>	14	0.4	4	1.6	*	*	*	*	*	*
<b>18-19</b>	39	1.2	9	3.5	*	*	*	*	*	*
<b>20-29</b>	1,217	37.4	102	40.0	19	40.4	62	29.7	3	27.3
<b>30+</b>	1,986	61.0	140	54.9	25	53.2	145	69.4	6	54.5
<b>Low Weight Births (&lt;2,500 Grams)</b>	270	8.3	19	7.5	7	14.9	23	11.0	*	*
<b>Very Low Weight Births (&lt;1,500 Grams)</b>	37	1.1	*	*	*	*	*	*	*	*
<b>Prenatal Care Later than 1st Trimester/No Care</b>	252	7.8	35	14.1	7	15.9	23	11.2	*	*
<b>No Prenatal Care</b>	14	0.4	*	*	0	0.0	*	*	0	0.0
<b>Preterm Births (&lt;37 Weeks)</b>	353	10.8	25	9.8	5	10.6	25	12.0	3	27.3
<b>Education of Mother &lt;High School Diploma/GED</b>	55	1.7	39	15.5	*	*	5	2.4	*	*
<b>Live Births to Unmarried Women</b>	217	6.7	45	17.6	11	23.4	10	4.8	3	27.3
<b>Smoking During Pregnancy</b>	97	3.0	9	3.5	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: Douglas County residents, 2008**

Age Group	Births	Population	Fertility Rate	Lower Limit	Upper Limit
All Ages	3,883	64,374	60.3	58.5	62.2
Teen Age Groups		*			
13-14	0	4,569	0.0	0.0	0.0
15-17	23	6,593	3.5	2.0	5.0
18-19	55	4,067	13.5	9.9	17.2
10-17	23	18,233	1.3	0.7	1.8
10-19	78	22,300	3.5	2.7	4.3
All Age Groups		*			
10-14	0	11,640	0.0	0.0	0.0
15-19	78	10,660	7.3	5.7	9.0
20-24	348	9,944	35.0	31.3	38.7
25-29	1,097	8,429	130.1	122.9	137.4
30-34	1,404	9,381	149.7	142.4	156.9
35-39	786	12,739	61.7	57.5	65.9
40-49	170	25,819	6.6	5.6	7.6

*\* 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: Douglas County residents, 1998, 2004-2008

	1998	2004	2005	2006	2007	2008	2004-2008 Annual Average
<b>Total Population</b>	144,352	237,319	249,094	263,149	275,122	283,948	261,726
<b>Total Births</b>							
Number	2,731	4,014	4,177	4,210	4,034	3,883	4,064
Birth Rate	18.9	16.9	16.8	16.0	14.7	13.7	15.5
General Fertility Rate	77.4	72.5	72.7	69.6	64.0	60.3	67.6
<b>Age of Mother 10-17</b>							
Number	20	26	21	25	17	23	22
Percent of Total Births	0.7	0.6	0.5	0.6	0.4	0.6	0.6
Fertility Rate	2.3	1.7	1.3	1.5	1.0	1.3	1.3
<b>Low Weight Births (&lt;2,500 Grams)</b>							
Number	242	339	351	373	374	333	354
Percent	8.9	8.4	8.4	8.9	9.3	8.6	8.7
<b>Prenatal Care Later Than 1st Trimester/No Care</b>							
Number	76	267	346	283	359	328	317
Percent	2.8	6.9	8.7	6.9	9.0	8.6	8.0
<b>Births to Unmarried Women</b>							
Number	130	293	325	327	276	298	
Percent	4.8	7.3	7.8	7.8	6.8	7.7	
<b>Mother's Education &lt;12 Years</b>							
Number	63	109	117	104	90	106	
Percent	2.3	2.7	2.9	2.6	2.2	2.7	
<b>Infant Deaths</b>							
Number	11	10	18	20	10	23	16
Rate	4.0	2.5	4.3	4.8	2.5	5.9	4.0
<b>Neonatal Deaths</b>							
Number	7	8	12	17	9	17	13
Rate	2.6	2.0	2.9	4.0	2.2	4.4	3.1
<b>Total Deaths</b>							
Number	387	574	651	704	709	810	690
Crude Rate	268.1	241.9	261.3	267.5	257.7	285.3	263.5
Age-Adjusted Rate	735.5	676.6	696.3	706.3	684.7	756.1	705.8
<b>Cardiovascular Disease</b>							
Number	96	172	165	195	170	181	177
Age-Adjusted Rate	216.8	251.0	204.5	218.4	176.8	201.3	208.7
<b>Heart Disease</b>							
Number	78	112	118	142	128	133	127
Age-Adjusted Rate	164.9	158.1	144.9	155.6	128.0	144.6	145.7

(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: Douglas County residents, 1998, 2004-2008

	1998	2004	2005	2006	2007	2008	2004-2008 Annual Average
<b>Cerebrovascular Disease</b>							
Number	18	47	32	38	31	38	37
Age-Adjusted Rate	52.0	72.1	39.8	46.2	36.3	46.5	47.4
<b>Malignant Neoplasms</b>							
Number	109	147	187	188	191	212	185
Age-Adjusted Rate	175.9	137.9	168.9	169.6	166.6	163.4	162.0
<b>Lung Cancer</b>							
Number	24	26	40	48	46	53	43
Age-Adjusted Rate	40.0	26.6	38.6	49.4	39.9	46.5	40.8
<b>Breast Cancer</b>							
Number	8	10	21	18	16	12	15
Age-Adjusted Rate	14.4	8.0	17.2	16.8	13.8	6.6	12.4
<b>Total Unintentional Injuries</b>							
Number	32	43	47	63	42	51	49
Age-Adjusted Rate	40.6	23.7	32.5	35.5	25.3	34.3	30.4
<b>Motor Vehicle</b>							
Number	16	22	19	26	14	14	19
Age-Adjusted Rate	14.4	12.3	8.7	10.5	4.8	5.5	8.1
<b>Other Unintentional Injuries</b>							
Number	16	21	28	37	28	37	30
Age-Adjusted Rate	26.1	11.4	23.7	25.1	20.5	28.9	22.3
<b>Chronic Lower Respiratory Diseases</b>							
Number	20	32	28	33	38	33	33
Age-Adjusted Rate	43.2	51.4	39.9	38.6	42.3	34.6	40.9
<b>Suicide</b>							
Number	16	28	15	28	31	33	27
Age-Adjusted Rate	10.9	12.1	6.3	10.5	13.4	13.7	11.3
<b>Homicide and Legal Intervention</b>							
Number	5	3	4	3	5	4	4
Age-Adjusted Rate	4.0	1.2	1.5	1.1	1.8	1.3	1.4
<b>Work-Related Injury</b>							
Number	3	*	*	3	*	0	*
Age-Adjusted Rate	1.6	*	*	1.5	*	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: Douglas County residents, 2008

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>	810	100.0	751	100.0	33	100.0	7	100.0	16	100.0	*	*
<b>Cardiovascular Disease</b>	181	22.3	169	22.5	7	21.2	0	0.0	5	31.3	0	0.0
Heart Disease	133	16.4	123	16.4	5	15.2	0	0.0	5	31.3	0	0.0
Cerebrovascular Disease	38	4.7	36	4.8	*	*	0	0.0	0	0.0	0	0.0
Atherosclerosis	*	*	*	*	0	0.0	0	0.0	0	0.0	0	0.0
<b>Malignant Neoplasms</b>	212	26.2	197	26.2	7	21.2	5	71.4	3	18.8	0	0.0
Lung Cancer	53	6.5	50	6.7	0	0.0	*	*	*	*	0	0.0
Breast Cancer	12	1.5	12	1.6	0	0.0	0	0.0	0	0.0	0	0.0
<b>Chronic Lower Respiratory Disease</b>	33	4.1	33	4.4	0	0.0	0	0.0	0	0.0	0	0.0
<b>Unintentional Injuries</b>	51	6.3	41	5.5	9	27.3	0	0.0	*	*	0	0.0
Motor Vehicle	14	1.7	11	1.5	*	*	0	0.0	*	*	0	0.0
Other Unintentional Injuries	37	4.6	30	4.0	7	21.2	0	0.0	0	0.0	0	0.0
<b>Pneumonia and Influenza</b>	9	1.1	7	0.9	*	*	0	0.0	*	*	0	0.0
<b>Suicide</b>	33	4.1	31	4.1	*	*	0	0.0	0	0.0	0	0.0
<b>Diabetes Mellitus</b>	18	2.2	15	2.0	*	*	*	*	*	*	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>	16	2.0	14	1.9	*	*	0	0.0	0	0.0	0	0.0
<b>Alzheimer's Disease</b>	36	4.4	35	4.7	*	*	0	0.0	0	0.0	0	0.0
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	13	1.6	13	1.7	0	0.0	0	0.0	0	0.0	0	0.0
<b>Homicide and Legal Intervention</b>	4	0.5	4	0.5	0	0.0	0	0.0	0	0.0	0	0.0
<b>Septicemia</b>	7	0.9	7	0.9	0	0.0	0	0.0	0	0.0	0	0.0
<b>Congenital Anomalies</b>	11	1.4	9	1.2	*	*	0	0.0	0	0.0	0	0.0
<b>Perinatal Period Conditions</b>	9	1.1	7	0.9	*	*	0	0.0	0	0.0	*	*
<b>All Other</b>	177	21.9	169	22.5	0	0.0	*	*	5	31.3	0	0.0
<b>Injury by Firearm</b>	19	2.3	19	2.5	0	0.0	0	0.0	0	0.0	0	0.0
<b>Drug-Induced Deaths</b>	9	1.1	7	0.9	*	*	0	0.0	0	0.0	0	0.0
<b>Alcohol-Induced Deaths</b>	19	2.3	18	2.4	*	*	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	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: Douglas County residents, 2008

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	810	283,948	2.9
Infant	23	3,883	5.9
Neonatal	17	3,883	4.4
1-4	5	18,450	0.3
5-9	4	24,204	0.2
10-14	4	23,641	0.2
15-19	11	21,664	0.5
20-24	9	20,363	0.4
25-29	6	17,156	0.3
30-34	12	18,152	0.7
35-39	21	24,901	0.8
40-44	26	25,718	1.0
45-49	26	25,054	1.0
50-54	35	19,885	1.8
55-59	51	15,577	3.3
60-64	49	10,744	4.6
65-69	59	5,320	11.1
70-74	61	4,025	15.2
75-79	98	2,595	37.8
80-84	97	1,396	69.5
85+	213	916	232.5
1-14	13	66,295	0.2
15-24	20	42,027	0.5
25-64	226	157,187	1.4
65+	528	14,252	37.0

\* 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: Douglas County residents, 2008

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	23	5.9	13	0.2	20	0.5	65	0.8	161	2.3	528	37.0
Cardiovascular Disease	0	0.0	0	0.0	0	0.0	5	0.1	33	0.5	143	10.0
Heart Disease	0	0.0	0	0.0	0	0.0	3	0.0	27	0.4	103	7.2
Cerebrovascular Disease	0	0.0	0	0.0	0	0.0	*	*	4	0.1	33	2.3
Atherosclerosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	*	*
Malignant Neoplasms	0	0.0	*	*	3	0.1	17	0.2	57	0.8	134	9.4
Lung Cancer	0	0.0	0	0.0	0	0.0	3	0.0	10	0.1	40	2.8
Breast Cancer	0	0.0	0	0.0	0	0.0	3	0.0	4	0.1	5	0.4
Chronic Lower Respiratory Diseases	0	0.0	*	*	0	0.0	0	0.0	4	0.1	27	1.9
Unintentional Injuries	0	0.0	4	0.1	6	0.1	19	0.2	5	0.1	17	1.2
Motor Vehicle	0	0.0	0	0.0	*	*	9	0.1	*	*	*	*
Other Unintentional Injuries	0	0.0	4	0.1	4	0.1	10	0.1	4	0.1	15	1.1
Pneumonia and Influenza	0	0.0	0	0.0	*	*	*	*	*	*	5	0.4
Suicide	0	0.0	*	*	7	0.2	9	0.1	13	0.2	3	0.2
Diabetes Mellitus	0	0.0	0	0.0	0	0.0	*	*	*	*	15	1.1
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	*	*	9	0.1	5	0.4
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	36	2.5
Nephritis, Nephrosis, Nephrotic Syndrome	0	0.0	0	0.0	0	0.0	0	0.0	*	*	11	0.8
Homicide and Legal Intervention	0	0.0	0	0.0	0	0.0	*	*	3	0.0	0	0.0
Septicemia	0	0.0	0	0.0	0	0.0	*	*	0	0.0	6	0.4
Congenital Anomalies	7	1.8	*	*	*	*	0	0.0	*	*	0	0.0
Perinatal Period Conditions	9	2.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
All Other	7	1.8	4	0.1	*	*	9	0.1	29	0.4	126	8.8
Injury by Firearm	0	0.0	0	0.0	*	*	4	0.0	11	0.2	*	*
Drug-Induced Deaths	0	0.0	0	0.0	*	*	4	0.0	*	*	*	*
Alcohol-Induced Deaths	0	0.0	0	0.0	0	0.0	5	0.1	11	0.2	3	0.2
Work-Related Injury (Y/N Check Death Certificate)	0	0.0	0	0.0	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:  
Douglas County residents, 2008**

<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>	810	285.3	756.1	700.9	811.2
<b>Cardiovascular Disease</b>	181	63.7	201.3	169.8	232.9
<b>Heart Disease</b>	133	46.8	144.6	117.8	171.4
<b>Cerebrovascular Disease</b>	38	13.4	46.5	30.8	62.3
<b>Atherosclerosis</b>	*	*	*	*	*
<b>Malignant Neoplasms</b>	212	74.7	163.4	138.4	188.4
<b>Lung Cancer</b>	53	18.7	46.5	32.6	60.5
<b>Breast Cancer</b>	12	4.2	6.6	2.3	10.9
<b>Chronic Lower Respiratory Diseases</b>	33	11.6	34.6	21.5	47.6
<b>Unintentional Injuries</b>	51	18.0	34.3	22.4	46.3
<b>Motor Vehicle</b>	14	4.9	5.5	2.4	8.5
<b>Other Unintentional Injuries</b>	35	12.3	28.2	16.7	39.8
<b>Pneumonia and Influenza</b>	9	3.2	8.7	5.6	12.4
<b>Suicide</b>	33	11.6	13.7	8.0	19.4
<b>Diabetes Mellitus</b>	18	6.3	20.4	10.2	30.6
<b>HIV Infection</b>	0	0.0	0.0	0.0	0.0
<b>Chronic Liver Disease and Cirrhosis</b>	16	5.6	7.1	3.3	10.8
<b>Alzheimer's Disease</b>	36	12.7	53.4	35.8	71.1
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	13	4.6	16.6	6.9	26.3
<b>Homicide and Legal Intervention</b>	4	1.4	1.3	0.3	2.9
<b>Septicemia</b>	7	2.5	7.9	5.0	11.6
<b>Congenital Anomalies</b>	11	3.9	3.6	1.7	6.1
<b>Perinatal Period Conditions</b>	9	3.2	3.0	1.3	5.3
<b>All Other</b>	177	62.3	186.8	156.5	217.1
<b>Injury by Firearm</b>	19	6.7	7.8	3.7	11.9
<b>Drug-Induced Deaths</b>	9	3.2	4.4	2.3	7.2
<b>Alcohol-Induced Deaths</b>	19	6.7	7.8	3.9	11.7
<b>Work-Related Injury (Y/N Check Death Certificate)</b>	0	0.0	0.0	0.0	0.0

*\* 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).