

# 6 fcca 2YX County Births and Deaths 20%

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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: Broomfield County residents, 2010

Characteristic	Number	Percent
Total Live Births	693	100.0
Age of Mother		
10-17	8	1.2
18-19	17	2.5
20-29	260	37.5
30+	408	58.9
Low Weight Births (<2,500 Grams)	49	7.1
Very Low Weight Births (<1,500 Grams)	6	0.9
Prenatal Care Later than 1st Trimester/No Care	91	13.9
No Prenatal Care	*	*
Preterm Births (<37 Weeks)	50	7.2
Education of Mother <High School Diploma/GED	49	7.4
Live Births to Unmarried Women	92	13.3
Smoking During Pregnancy	28	4.0

*"Education of Mother," "Births to Unmarried Women," and "Smoking During Pregnancy" are among items collected starting 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: Broomfield County residents, 2010

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>	693	100.0	8	100.0	17	100.0	260	100.0	408	100.0
<b>Race/Ethnicity of Mother</b>										
White, Non-Hispanic	487	74.8	3	42.9	11	68.8	173	70.6	300	78.3
White, Hispanic	94	14.4	4	57.1	*	*	47	19.2	41	10.7
Black	10	1.5	0	0.0	*	*	3	1.2	5	1.3
Asian American/Pacific Islander	55	8.4	0	0.0	*	*	21	8.6	33	8.6
American Indian/Native Alaskan	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other	5	0.8	0	0.0	0	0.0	*	*	4	1.0
Unknown	42		*	*	*	*	15		25	
<b>Low Weight Births (&lt;2,500 Grams)</b>	49	7.1	0	0.0	*	*	12	4.6	36	8.8
Very Low Weight Births (<1,500 Grams)	6	0.9	0	0.0	0	0.0	*	*	4	1.0
<b>Prenatal Care Later than 1st Trimester/No Care</b>	91	13.9	*	*	4	28.6	42	17.1	43	11.0
No Prenatal Care	*	*	0	0.0	0	0.0	*	*	0	0.0
<b>Preterm Births (&lt;37 Weeks)</b>	50	7.2	*	*	*	*	11	4.2	37	9.1
<b>Education of Mother &lt;High School Diploma/GED</b>	49	7.4	7	100.0	6	35.3	20	7.9	16	4.1
<b>Live Births to Unmarried Women</b>	92	13.3	8	100.0	11	64.7	55	21.2	18	4.4
<b>Smoking During Pregnancy</b>	28	4.0	0	0.0	*	*	20	7.7	6	1.5

*"Education of Mother," "Births to Unmarried Women," and "Smoking During Pregnancy" are among items collected starting 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: Broomfield County residents, 2010**

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>	487	100.0	94	100.0	10	100.0	55	100.0	0	0.0
<b>Age of Mother</b>										
<b>10-17</b>	3	0.6	4	4.3	0	0.0	0	0.0	0	0.0
<b>18-19</b>	11	2.3	*	*	*	*	*	*	0	0.0
<b>20-29</b>	173	35.5	47	50.0	3	30.0	21	38.2	0	0.0
<b>30+</b>	300	61.6	41	43.6	5	50.0	33	60.0	0	0.0
<b>Low Weight Births (&lt;2,500 Grams)</b>	31	6.4	5	5.3	0	0.0	7	12.7	0	0.0
<b>Very Low Weight Births (&lt;1,500 Grams)</b>	4	0.8	*	*	0	0.0	*	*	0	0.0
<b>Prenatal Care Later than 1st Trimester/No Care</b>	58	12.5	11	12.8	3	33.3	14	26.9	0	0.0
<b>No Prenatal Care</b>	*	*	0	0.0	0	0.0	0	0.0	0	0.0
<b>Preterm Births (&lt;37 Weeks)</b>	31	6.4	5	5.3	*	*	3	5.5	0	0.0
<b>Education of Mother &lt;High School Diploma/GED</b>	9	1.9	27	30.0	*	*	8	14.8	0	0.0
<b>Live Births to Unmarried Women</b>	52	10.7	27	28.7	4	40.0	4	7.3	0	0.0
<b>Smoking During Pregnancy</b>	22	4.5	*	*	*	*	*	*	0	0.0

*"Education of Mother," "Births to Unmarried Women," and "Smoking During Pregnancy" are among items collected starting 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: Broomfield County residents, 2010**

<b>Age Group</b>	<b>Births</b>	<b>Population</b>	<b>Fertility Rate</b>	<b>Lower Limit</b>	<b>Upper Limit</b>
<b>All Ages</b>	693	11,429	60.6	56.2	65.1
<b>Teen Age Groups</b>					
<b>13-14</b>	0	828	0.0	0.0	0.0
<b>15-17</b>	8	1,126	7.1	1.8	12.5
<b>18-19</b>	17	558	30.5	15.3	45.6
<b>10-17</b>	8	3,138	2.5	0.6	4.5
<b>10-19</b>	25	3,696	6.8	4.0	9.5
<b>All Age Groups</b>					
<b>10-14</b>	0	2,012	0.0	0.0	0.0
<b>15-19</b>	25	1,684	14.8	8.8	20.9
<b>20-24</b>	87	1,467	59.3	46.9	71.7
<b>25-29</b>	173	1,738	99.5	85.2	113.9
<b>30-34</b>	261	2,098	124.4	110.0	138.8
<b>35-39</b>	119	2,187	54.4	44.7	64.1
<b>40-49</b>	28	4,533	6.2	3.8	8.6

*\* 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: Broomfield County residents, 2000, 2006-2010

	2000	2006	2007	2008	2009	2010	2006-2010 Annual Average
<b>Total Population</b>	38,272	51,152	53,328	54,400	55,378	55,889	54,029
<b>Total Births</b>							
Number	0	717	722	743	676	693	710
Birth Rate	0.0	14.0	13.5	13.7	12.2	12.4	13.1
General Fertility Rate	0.0	64.7	63.2	64.6	58.8	60.6	62.4
<b>Age of Mother 10-17</b>							
Number	0	15	9	12	7	8	10
Percent of Total Births	0.0	2.1	1.2	1.6	1.0	1.2	1.4
Fertility Rate	0.0	4.9	2.8	3.8	2.2	2.5	3.2
<b>Low Weight Births (&lt;2,500 Grams)</b>							
Number	0	67	58	55	39	49	54
Percent	0.0	9.3	8.0	7.4	5.8	7.1	7.5
<b>Prenatal Care Later Than 1st Trimester/No Care</b>							
Number	0	84	78	102	86	91	88
Percent	0.0	11.8	11.3	16.4	13.7	13.9	13.3
<b>Births to Unmarried Women</b>							
Number	0	107	88	103	86	92	
Percent	0.0	14.9	12.2	13.9	12.7	13.3	
<b>Mother's Education &lt;12 Years</b>							
Number	0	57	73	73	48	49	
Percent	0.0	8.3	10.3	10.1	7.2	7.4	
<b>Infant Deaths</b>							
Number	0	5	3	*	4	6	4
Rate	0.0	7.0	4.2	*	5.9	8.7	5.6
<b>Neonatal Deaths</b>							
Number	0	*	3	*	*	5	*
Rate	0.0	*	4.2	*	*	7.2	*
<b>Total Deaths</b>							
Number	0	248	217	232	267	304	254
Crude Rate	0.0	484.8	406.9	426.5	482.1	543.9	469.4
Age-Adjusted Rate	0.0	766.5	590.4	589.6	615.9	661.2	638.2
<b>Cardiovascular Disease</b>							
Number	0	72	46	56	69	72	63
Age-Adjusted Rate	0.0	235.6	140.0	151.6	166.5	163.7	168.2
<b>Heart Disease</b>							
Number	0	57	35	39	54	54	48
Age-Adjusted Rate	0.0	185.2	105.8	105.3	130.3	123.8	127.4

(Continued)

**HIGHLIGHTED ROWS:** Denotes data items collected starting 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: Broomfield County residents, 2000, 2006-2010

	2000	2006	2007	2008	2009	2010	2006-2010 Annual Average
<b>Cerebrovascular Disease</b>							
Number	0	10	10	13	11	14	12
Age-Adjusted Rate	0.0	33.4	30.6	36.2	26.5	30.4	31.0
<b>Malignant Neoplasms</b>							
Number	0	53	59	65	72	77	65
Age-Adjusted Rate	0.0	146.0	150.7	157.9	155.9	160.0	154.2
<b>Lung Cancer</b>							
Number	0	11	12	14	16	21	15
Age-Adjusted Rate	0.0	32.3	28.6	36.2	36.7	44.4	36.2
<b>Breast Cancer</b>							
Number	0	7	*	6	7	7	6
Age-Adjusted Rate	0.0	19.4	*	14.7	13.1	15.9	13.6
<b>Total Unintentional Injuries</b>							
Number	0	18	14	11	13	15	14
Age-Adjusted Rate	0.0	46.8	34.0	23.0	27.2	30.0	31.4
<b>Motor Vehicle</b>							
Number	0	5	4	*	*	*	*
Age-Adjusted Rate	0.0	9.4	7.4	*	*	*	*
<b>Other Unintentional Injuries</b>							
Number	0	13	10	9	12	13	11
Age-Adjusted Rate	0.0	37.5	26.6	18.8	25.4	26.4	26.3
<b>Chronic Lower Respiratory Diseases</b>							
Number	0	20	22	14	17	20	19
Age-Adjusted Rate	0.0	68.2	66.7	38.0	42.3	44.9	50.4
<b>Suicide</b>							
Number	0	12	12	7	8	11	10
Age-Adjusted Rate	0.0	25.6	22.2	12.2	14.8	18.2	18.3
<b>Homicide and Legal Intervention</b>							
Number	0	0	*	*	5	3	*
Age-Adjusted Rate	0.0	0.0	*	*	8.7	6.4	*
<b>Work-Related Injury</b>							
Number	0	0	0	0	0	0	0
Age-Adjusted Rate	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**HIGHLIGHTED ROWS:** Denotes data items collected starting 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.

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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: Broomfield County residents, 2010

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>	304	100.0	281	100.0	14	100.0	*	*	6	100.0	0	0.0
<b>Cardiovascular Disease</b>	72	23.7	69	24.6	*	*	*	*	0	0.0	0	0.0
Heart Disease	54	17.8	53	18.9	0	0.0	*	*	0	0.0	0	0.0
Cerebrovascular Disease	14	4.6	12	4.3	*	*	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>	77	25.3	69	24.6	3	21.4	*	*	4	66.7	0	0.0
Lung Cancer	21	6.9	20	7.1	0	0.0	0	0.0	*	*	0	0.0
Breast Cancer	7	2.3	7	2.5	0	0.0	0	0.0	0	0.0	0	0.0
<b>Chronic Lower Respiratory Disease</b>	20	6.6	20	7.1	0	0.0	0	0.0	0	0.0	0	0.0
<b>Unintentional Injuries</b>	15	4.9	13	4.6	*	*	0	0.0	0	0.0	0	0.0
Motor Vehicle	*	*	*	*	*	*	0	0.0	0	0.0	0	0.0
Other Unintentional Injuries	13	4.3	12	4.3	*	*	0	0.0	0	0.0	0	0.0
<b>Pneumonia and Influenza</b>	5	1.6	5	1.8	0	0.0	0	0.0	0	0.0	0	0.0
<b>Suicide</b>	11	3.6	11	3.9	0	0.0	0	0.0	0	0.0	0	0.0
<b>Diabetes Mellitus</b>	8	2.6	6	2.1	*	*	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>	6	2.0	6	2.1	0	0.0	0	0.0	0	0.0	0	0.0
<b>Alzheimer's Disease</b>	19	6.3	19	6.8	0	0.0	0	0.0	0	0.0	0	0.0
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	3	1.0	3	1.1	0	0.0	0	0.0	0	0.0	0	0.0
<b>Homicide and Legal Intervention</b>	3	1.0	3	1.1	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>	3	1.0	*	*	*	*	0	0.0	0	0.0	0	0.0
<b>Perinatal Period Conditions</b>	3	1.0	*	*	*	*	0	0.0	0	0.0	0	0.0
<b>All Other</b>	57	18.8	52	18.5	*	*	0	0.0	*	*	0	0.0
<b>Injury by Firearm</b>	9	3.0	9	3.2	0	0.0	0	0.0	0	0.0	0	0.0
<b>Drug-Induced Deaths</b>	6	2.0	6	2.1	0	0.0	0	0.0	0	0.0	0	0.0
<b>Alcohol-Induced Deaths</b>	6	2.0	6	2.1	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	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: Broomfield County residents, 2010

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	304	55,889	5.4
Infant	6	693	8.7
Neonatal	5	693	7.2
1-4	*	3,245	*
5-9	0	4,382	0.0
10-14	*	4,016	*
15-19	*	3,494	*
20-24	3	3,129	1.0
25-29	5	3,660	1.4
30-34	5	4,136	1.2
35-39	*	4,480	*
40-44	9	4,485	2.0
45-49	5	4,485	1.1
50-54	13	4,154	3.1
55-59	16	3,338	4.8
60-64	23	2,678	8.6
65-69	21	1,826	11.5
70-74	31	1,282	24.2
75-79	46	1,009	45.6
80-84	48	757	63.4
85+	68	634	107.3
1-14	*	11,643	*
15-24	4	6,623	0.6
25-64	78	31,416	2.5
65+	214	5,508	38.9

\* 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: Broomfield County residents, 2010

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	6	8.7	*	*	4	0.6	21	1.3	57	3.9	214	38.9
Cardiovascular Disease	0	0.0	0	0.0	*	*	0	0.0	12	0.8	59	10.7
Heart Disease	0	0.0	0	0.0	*	*	0	0.0	8	0.5	45	8.2
Cerebrovascular Disease	0	0.0	0	0.0	0	0.0	0	0.0	4	0.3	10	1.8
Atherosclerosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	*	*
Malignant Neoplasms	0	0.0	0	0.0	0	0.0	3	0.2	22	1.5	52	9.4
Lung Cancer	0	0.0	0	0.0	0	0.0	0	0.0	6	0.4	15	2.7
Breast Cancer	0	0.0	0	0.0	0	0.0	0	0.0	*	*	6	1.1
Chronic Lower Respiratory Diseases	0	0.0	0	0.0	0	0.0	0	0.0	4	0.3	16	2.9
Unintentional Injuries	0	0.0	0	0.0	*	*	7	0.4	*	*	6	1.1
Motor Vehicle	0	0.0	0	0.0	0	0.0	*	*	0	0.0	0	0.0
Other Unintentional Injuries	0	0.0	0	0.0	*	*	5	0.3	*	*	6	1.1
Pneumonia and Influenza	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	0.9
Suicide	0	0.0	0	0.0	0	0.0	7	0.4	4	0.3	0	0.0
Diabetes Mellitus	0	0.0	0	0.0	0	0.0	0	0.0	5	0.3	3	0.5
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	*	*	3	0.2	*	*
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	19	3.4
Nephritis, Nephrosis, Nephrotic Syndrome	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.5
Homicide and Legal Intervention	0	0.0	0	0.0	*	*	*	*	0	0.0	*	*
Septicemia	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	*	*
Congenital Anomalies	3	4.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Perinatal Period Conditions	3	4.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
All Other	0	0.0	*	*	*	*	*	*	6	0.4	46	8.4
Injury by Firearm	0	0.0	0	0.0	*	*	5	0.3	*	*	*	*
Drug-Induced Deaths	0	0.0	0	0.0	*	*	4	0.2	*	*	0	0.0
Alcohol-Induced Deaths	0	0.0	0	0.0	0	0.0	*	*	5	0.3	0	0.0
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:  
Broomfield County residents, 2010**

Cause of Death	N	Rate	Age-Adjusted Rate	Lower Limit	Upper Limit
All Causes	304	543.9	661.2	587.7	734.7
Cardiovascular Disease	72	128.8	163.7	125.8	201.7
Heart Disease	54	96.6	123.8	90.6	157.0
Cerebrovascular Disease	14	25.0	30.4	14.1	46.6
Atherosclerosis	*	*	*	*	*
Malignant Neoplasms	77	137.8	160.0	123.7	196.3
Lung Cancer	21	37.6	44.4	25.0	63.7
Breast Cancer	7	12.5	15.9	7.1	28.0
Chronic Lower Respiratory Diseases	20	35.8	44.9	24.9	64.9
Unintentional Injuries	15	26.8	30.0	14.7	45.3
Motor Vehicle	*	*	*	*	*
Other Unintentional Injuries	12	21.5	24.6	10.5	38.6
Pneumonia and Influenza	5	8.9	11.9	4.6	22.7
Suicide	11	19.7	18.2	8.7	31.0
Diabetes Mellitus	8	14.3	13.9	5.9	25.5
HIV Infection	0	0.0	0.0	0.0	0.0
Chronic Liver Disease and Cirrhosis	6	10.7	11.3	4.2	21.8
Alzheimer's Disease	19	34.0	46.6	25.8	67.4
Nephritis, Nephrosis, Nephrotic Syndrome	3	5.4	7.1	1.8	15.8
Homicide and Legal Intervention	3	5.4	6.4	1.5	14.7
Septicemia	*	*	*	*	*
Congenital Anomalies	3	5.4	5.9	1.3	14.0
Perinatal Period Conditions	3	5.4	5.9	1.3	14.0
All Other	57	102.0	131.0	96.8	165.2
Injury by Firearm	9	16.1	16.2	7.3	28.6
Drug-Induced Deaths	6	10.7	10.8	3.8	21.2
Alcohol-Induced Deaths	6	10.7	9.2	2.9	18.9
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.*

*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).