

Colorado Births and Deaths 201%

Selected birth characteristics: Colorado residents, 201%.....	2
Selected birth characteristics by age group of mother: Colorado residents, 201%...	3
Selected birth characteristics by race/ethnicity of mother: Colorado residents, 201%.....	4
Live births and fertility rates: Colorado residents, 201%.....	5
Vital statistics summary: Colorado residents, 200% 200+-201%.....	6
Deaths from selected causes by race/ethnicity: Colorado residents, 201%.....	8
Deaths and age-specific death rates: Colorado residents, 201%.....	9
Deaths and age-specific death rates from selected causes: Colorado residents, 201%.....	10
Deaths, crude death rates and age-adjusted death rates from selected causes: Colorado residents, 201%.....	11
Notes Regarding Colorado's Revised Certificate of Live Birth	12

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.

Selected birth characteristics: Colorado residents, 2011

Characteristic	Number	Percent
Total Live Births	65,052	100.0
Age of Mother		
10-17	1,426	2.2
18-19	3,325	5.1
20-29	31,744	48.8
30+	28,553	43.9
Low Weight Births (<2,500 Grams)	5,659	8.7
Very Low Weight Births (<1,500 Grams)	830	1.3
Prenatal Care Later than 1st Trimester/No Care	13,071	20.6
No Prenatal Care	940	1.5
Preterm Births (<37 Weeks)	5,758	8.9
Education of Mother <High School Diploma/GED	10,540	16.4
Live Births to Unmarried Women	15,616	24.0
Smoking During Pregnancy	4,815	7.4

"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 for definitions of data items.

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

Selected birth characteristics by age group of mother: Colorado residents, 2011

Characteristic	All Ages		10-17		18-19		20-29		30+	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total Live Births	65,052	100.0	1,426	100.0	3,325	100.0	31,744	100.0	28,553	100.0
Race/Ethnicity of Mother										
White, Non-Hispanic	40,224	62.9	400	28.9	1,328	40.8	18,678	59.9	19,817	70.5
White, Hispanic	15,347	24.0	767	55.5	1,412	43.4	8,222	26.4	4,946	17.6
Black	3,308	5.2	100	7.2	256	7.9	1,877	6.0	1,075	3.8
Asian American/Pacific Islander	2,491	3.9	9	0.7	37	1.1	981	3.1	1,464	5.2
American Indian/Native Alaskan	631	1.0	28	2.0	64	2.0	353	1.1	186	0.7
Other	1,936	3.0	78	5.6	155	4.8	1,081	3.5	622	2.2
Unknown	1,115		44		73		552		443	
Low Weight Births (<2,500 Grams)	5,659	8.7	151	10.6	357	10.7	2,622	8.3	2,527	8.9
Very Low Weight Births (<1,500 Grams)	830	1.3	25	1.8	57	1.7	381	1.2	366	1.3
Prenatal Care Later than 1st Trimester/No Care	13,071	20.6	602	43.4	1,185	36.5	6,989	22.6	4,295	15.5
No Prenatal Care	940	1.5	71	5.1	107	3.3	455	1.5	307	1.1
Preterm Births (<37 Weeks)	5,758	8.9	146	10.2	333	10.0	2,618	8.3	2,659	9.3
Education of Mother <High School Diploma/GED	10,540	16.4	1,222	86.9	1,288	39.1	5,152	16.4	2,878	10.2
Live Births to Unmarried Women	15,616	24.0	1,277	89.6	2,164	65.1	8,997	28.3	3,178	11.1
Smoking During Pregnancy	4,815	7.4	99	6.9	434	13.1	3,066	9.7	1,216	4.3

"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 for definitions of data items.

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

Selected birth characteristics by race/ethnicity of mother: Colorado residents, 2011

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
Total Live Births	40,224	100.0	15,347	100.0	3,308	100.0	2,491	100.0	631	100.0
Age of Mother										
10-17	400	1.0	767	5.0	100	3.0	9	0.4	28	4.4
18-19	1,328	3.3	1,412	9.2	256	7.7	37	1.5	64	10.1
20-29	18,678	46.4	8,222	53.6	1,877	56.7	981	39.4	353	55.9
30+	19,817	49.3	4,946	32.2	1,075	32.5	1,464	58.8	186	29.5
Low Weight Births (<2,500 Grams)	3,393	8.4	1,263	8.2	428	12.9	259	10.4	56	8.9
Very Low Weight Births (<1,500 Grams)	470	1.2	198	1.3	71	2.1	39	1.6	4	0.6
Prenatal Care Later than 1st Trimester/No Care	6,182	15.8	4,356	29.0	1,082	33.8	497	20.7	203	34.3
No Prenatal Care	361	0.9	365	2.4	113	3.5	40	1.7	22	3.7
Preterm Births (<37 Weeks)	3,521	8.8	1,322	8.6	376	11.4	207	8.3	55	8.7
Education of Mother <High School Diploma/GED	2,377	5.9	6,319	41.6	594	18.1	239	9.7	140	22.4
Live Births to Unmarried Women	7,193	17.9	5,375	35.0	1,452	43.9	251	10.1	301	47.7
Smoking During Pregnancy	3,586	8.9	709	4.6	255	7.7	51	2.0	66	10.5

"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 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 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:
Colorado residents, 2011**

Age Group	Births	Population	Fertility Rate	Lower Limit	Upper Limit
All Ages	65,052	1,039,850	62.6	62.1	63.0
Teen Age Groups					
13-14	60	64,773	0.9	0.7	1.2
15-17	1,362	97,123	14.0	13.3	14.8
18-19	3,325	71,719	46.4	44.8	47.9
10-17	1,426	264,059	5.4	5.1	5.7
10-19	4,751	335,778	14.1	13.7	14.6
All Age Groups					
10-14	64	166,935	0.4	0.3	0.5
15-19	4,687	168,842	27.8	27.0	28.5
20-24	13,443	164,394	81.8	80.4	83.1
25-29	18,301	183,147	99.9	98.5	101.3
30-34	17,824	179,636	99.2	97.8	100.6
35-39	8,555	168,888	50.7	49.6	51.7
40-49	2,162	354,998	6.1	5.8	6.3

** 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 for definitions of data items.

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

Vital statistics summary: Colorado residents, 2001, 2007-2011

	2001	2007	2008	2009	2010	2011	2007-2011 Annual Average
Total Population	4,444,513	4,821,784	4,901,938	4,976,853	5,049,983	5,118,526	4,973,817
Total Births							
Number	67,006	70,804	70,028	68,602	66,346	65,052	68,166
Birth Rate	15.1	14.7	14.3	13.8	13.1	12.7	13.7
General Fertility Rate	67.4	70.1	68.7	67.1	64.5	62.6	66.6
Age of Mother 10-17							
Number	2,452	2,297	2,221	2,042	1,745	1,426	1,946
Percent of Total Births	3.7	3.2	3.2	3.0	2.6	2.2	2.9
Fertility Rate	9.9	8.9	8.6	7.9	6.7	5.4	7.5
Low Weight Births (<2,500 Grams)							
Number	5,765	6,397	6,263	6,013	5,816	5,659	6,030
Percent	8.6	9.0	8.9	8.8	8.8	8.7	8.8
Prenatal Care Later Than 1st Trimester/No Care							
Number	13,342	15,129	15,687	14,980	13,657	13,071	14,505
Percent	20.2	21.9	23.1	22.3	21.0	20.6	21.8
Births to Unmarried Women							
Number	16,713	18,062	17,525	17,217	16,022	15,616	16,888
Percent	24.9	25.5	25.0	25.1	24.1	24.0	24.8
Mother's Education <12 Years							
Number	14,499	14,804	14,599	13,453	12,119	10,540	13,103
Percent	21.9	21.2	21.1	19.8	18.5	16.4	19.5
Infant Deaths							
Number	387	433	434	429	392	362	410
Rate	5.8	6.1	6.2	6.3	5.9	5.6	6.0
Neonatal Deaths							
Number	288	296	311	288	287	257	288
Rate	4.3	4.2	4.4	4.2	4.3	4.0	4.2
Total Deaths							
Number	28,243	29,888	31,205	31,132	31,435	32,566	31,245
Crude Rate	635.5	619.9	636.6	625.5	622.5	636.2	628.2
Age-Adjusted Rate	793.3	720.4	725.8	694.4	676.6	680.6	698.6
Cardiovascular Disease							
Number	9,126	8,411	8,363	8,253	8,283	8,493	8,361
Age-Adjusted Rate	267.7	209.2	200.0	188.1	181.6	180.6	191.3
Heart Disease							
Number	6,271	6,073	6,132	6,083	6,029	6,207	6,105

(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, comparisons of values from 2007-forward to pre-2007 values should be made with caution. 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: Colorado residents, 2001, 2007-2011

	2001	2007	2008	2009	2010	2011	2007-2011 Annual Average
Age-Adjusted Rate	182.2	149.8	145.6	137.6	131.5	131.2	138.8
Cerebrovascular Disease							
Number	1,821	1,589	1,531	1,529	1,605	1,607	1,572
Age-Adjusted Rate	54.4	40.3	37.3	35.5	35.7	34.8	36.6
Malignant Neoplasms							
Number	6,134	6,590	6,709	6,938	7,029	7,037	6,861
Age-Adjusted Rate	170.2	156.0	152.6	152.3	148.2	143.6	150.4
Lung Cancer							
Number	1,484	1,579	1,598	1,639	1,635	1,588	1,608
Age-Adjusted Rate	41.7	37.9	36.8	36.4	34.9	32.6	35.6
Breast Cancer							
Number	468	456	492	512	534	553	509
Age-Adjusted Rate	12.3	10.3	10.6	10.8	11.0	10.9	10.7
Total Unintentional Injuries							
Number	1,702	2,029	2,159	2,141	2,102	2,317	2,150
Age-Adjusted Rate	41.1	44.6	46.3	44.6	43.1	46.3	45.0
Motor Vehicle							
Number	746	577	579	553	480	482	534
Age-Adjusted Rate	16.8	12.0	12.0	11.1	9.4	9.3	10.7
Other Unintentional Injuries							
Number	956	1,452	1,580	1,588	1,622	1,835	1,615
Age-Adjusted Rate	24.3	32.6	34.3	33.5	33.7	37.0	34.3
Chronic Lower Respiratory Diseases							
Number	1,829	1,997	2,178	2,072	2,199	2,161	2,121
Age-Adjusted Rate	53.7	50.4	53.2	48.2	49.3	46.8	49.5
Suicide							
Number	717	805	801	940	867	910	865
Age-Adjusted Rate	16.3	16.5	16.1	18.7	16.7	17.4	17.1
Homicide and Legal Intervention							
Number	172	176	195	198	190	202	192
Age-Adjusted Rate	3.7	3.6	3.9	4.0	3.8	3.9	3.8
Work-Related Injury							
Number	95	91	90	67	75	72	79
Age-Adjusted Rate	2.1	1.8	1.8	1.3	1.4	1.3	1.5

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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: Colorado residents, 2011

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	%
Total	32,566	100.0	27,046	100.0	3,518	100.0	1,214	100.0	434	100.0	228	100.0
Cardiovascular Disease	8,493	26.1	7,185	26.6	740	21.0	375	30.9	119	27.4	45	19.7
Heart Disease	6,207	19.1	5,293	19.6	509	14.5	266	21.9	84	19.4	32	14.0
Cerebrovascular Disease	1,607	4.9	1,348	5.0	155	4.4	66	5.4	27	6.2	9	3.9
Atherosclerosis	141	0.4	119	0.4	16	0.5	4	0.3	*	*	0	0.0
Malignant Neoplasms	7,037	21.6	5,953	22.0	651	18.5	250	20.6	118	27.2	41	18.0
Lung Cancer	1,588	4.9	1,366	5.1	115	3.3	67	5.5	26	6.0	12	5.3
Breast Cancer	553	1.7	466	1.7	59	1.7	19	1.6	5	1.2	*	*
Chronic Lower Respiratory Disease	2,161	6.6	1,946	7.2	150	4.3	46	3.8	11	2.5	7	3.1
Unintentional Injuries	2,317	7.1	1,806	6.7	359	10.2	90	7.4	21	4.8	25	11.0
Motor Vehicle	482	1.5	326	1.2	110	3.1	22	1.8	5	1.2	9	3.9
Other Unintentional Injuries	1,835	5.6	1,480	5.5	249	7.1	68	5.6	16	3.7	16	7.0
Pneumonia and Influenza	614	1.9	526	1.9	59	1.7	17	1.4	6	1.4	3	1.3
Suicide	910	2.8	751	2.8	106	3.0	25	2.1	15	3.5	10	4.4
Diabetes Mellitus	790	2.4	554	2.0	158	4.5	51	4.2	16	3.7	9	3.9
HIV Infection	49	0.2	26	0.1	15	0.4	7	0.6	*	*	0	0.0
Chronic Liver Disease and Cirrhosis	671	2.1	460	1.7	171	4.9	13	1.1	4	0.9	21	9.2
Alzheimer's Disease	1,305	4.0	1,191	4.4	78	2.2	21	1.7	14	3.2	0	0.0
Nephritis, Nephrosis, Nephrotic Syndrome	446	1.4	337	1.2	67	1.9	27	2.2	10	2.3	5	2.2
Homicide and Legal Intervention	202	0.6	86	0.3	64	1.8	36	3.0	3	0.7	8	3.5
Septicemia	409	1.3	327	1.2	54	1.5	16	1.3	6	1.4	4	1.8
Congenital Anomalies	154	0.5	100	0.4	37	1.1	7	0.6	5	1.2	3	1.3
Perinatal Period Conditions	191	0.6	91	0.3	65	1.8	28	2.3	3	0.7	*	*
All Other	6,817	20.9	5,707	21.1	744	21.1	205	16.9	82	18.9	46	20.2
Injury by Firearm	571	1.8	444	1.6	80	2.3	34	2.8	3	0.7	9	3.9
Drug-Induced Deaths	848	2.6	651	2.4	137	3.9	44	3.6	3	0.7	10	4.4
Alcohol-Induced Deaths	709	2.2	504	1.9	156	4.4	24	2.0	0	0.0	22	9.6
Work-Related Injury (Y/N Check Death Certificate)	72	0.2	53	0.2	19	0.5	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: Colorado residents, 2011

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	32,566	5,118,526	6.4
Infant	362	65,052	5.6
Neonatal	257	65,052	4.0
1-4	57	274,945	0.2
5-9	45	352,348	0.1
10-14	42	340,837	0.1
15-19	158	349,522	0.5
20-24	318	344,278	0.9
25-29	342	376,715	0.9
30-34	375	368,332	1.0
35-39	431	347,728	1.2
40-44	655	357,341	1.8
45-49	1,026	360,014	2.8
50-54	1,548	375,772	4.1
55-59	2,018	339,567	5.9
60-64	2,429	287,169	8.5
65-69	2,242	195,671	11.5
70-74	2,665	134,766	19.8
75-79	3,352	99,103	33.8
80-84	4,409	75,446	58.4
85+	10,090	72,459	139.3
1-14	144	968,130	0.1
15-24	476	693,800	0.7
25-64	8,824	2,812,638	3.1
65+	22,758	577,445	39.4

* 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: Colorado residents, 2011

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	362	5.6	144	0.1	476	0.7	1,803	1.2	7,021	5.2	22,758	39.4
Cardiovascular Disease	6	0.1	8	0.0	17	0.0	223	0.2	1,472	1.1	6,767	11.7
Heart Disease	*	*	4	0.0	13	0.0	177	0.1	1,166	0.9	4,845	8.4
Cerebrovascular Disease	4	0.1	4	0.0	*	*	34	0.0	200	0.1	1,363	2.4
Atherosclerosis	0	0.0	0	0.0	0	0.0	0	0.0	12	0.0	129	0.2
Malignant Neoplasms	*	*	15	0.0	16	0.0	191	0.1	2,046	1.5	4,768	8.3
Lung Cancer	0	0.0	0	0.0	0	0.0	9	0.0	423	0.3	1,156	2.0
Breast Cancer	0	0.0	0	0.0	0	0.0	32	0.0	220	0.2	301	0.5
Chronic Lower Respiratory Diseases	0	0.0	4	0.0	*	*	14	0.0	301	0.2	1,841	3.2
Unintentional Injuries	17	0.3	39	0.0	209	0.3	524	0.4	657	0.5	871	1.5
Motor Vehicle	0	0.0	22	0.0	99	0.1	142	0.1	149	0.1	70	0.1
Other Unintentional Injuries	17	0.3	17	0.0	110	0.2	382	0.3	508	0.4	801	1.4
Pneumonia and Influenza	3	0.0	4	0.0	4	0.0	16	0.0	96	0.1	491	0.9
Suicide	0	0.0	10	0.0	111	0.2	316	0.2	354	0.3	118	0.2
Diabetes Mellitus	0	0.0	*	*	*	*	34	0.0	210	0.2	544	0.9
HIV Infection	0	0.0	0	0.0	0	0.0	14	0.0	30	0.0	5	0.0
Chronic Liver Disease and Cirrhosis	0	0.0	0	0.0	*	*	85	0.1	423	0.3	162	0.3
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	13	0.0	1,292	2.2
Nephritis, Nephrosis, Nephrotic Syndrome	0	0.0	0	0.0	0	0.0	6	0.0	73	0.1	367	0.6
Homicide and Legal Intervention	7	0.1	14	0.0	45	0.1	77	0.1	48	0.0	11	0.0
Septicemia	4	0.1	3	0.0	4	0.0	18	0.0	75	0.1	305	0.5
Congenital Anomalies	78	1.2	12	0.0	9	0.0	18	0.0	21	0.0	16	0.0
Perinatal Period Conditions	189	2.9	*	*	0	0.0	0	0.0	*	*	0	0.0
All Other	57	0.9	33	0.0	58	0.1	267	0.2	1,201	0.9	5,200	9.0
Injury by Firearm	0	0.0	13	0.0	75	0.1	190	0.1	211	0.2	82	0.1
Drug-Induced Deaths	0	0.0	3	0.0	90	0.1	363	0.3	335	0.2	56	0.1
Alcohol-Induced Deaths	0	0.0	0	0.0	6	0.0	124	0.1	476	0.3	103	0.2
Work-Related Injury (Y/N Check Death Certificate)	0	0.0	0	0.0	5	0.0	24	0.0	35	0.0	8	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:
Colorado residents, 2011**

Cause of Death	N	Rate	Age-Adjusted Rate	Lower Limit	Upper Limit
All Causes	32,566	636.2	680.6	673.3	687.9
Cardiovascular Disease	8,493	165.9	180.6	176.7	184.4
Heart Disease	6,207	121.3	131.2	127.9	134.5
Cerebrovascular Disease	1,607	31.4	34.8	33.1	36.6
Atherosclerosis	141	2.8	3.0	2.5	3.6
Malignant Neoplasms	7,037	137.5	143.6	140.2	147.0
Lung Cancer	1,588	31.0	32.6	31.0	34.2
Breast Cancer	553	10.8	10.9	9.9	11.8
Chronic Lower Respiratory Diseases	2,161	42.2	46.8	44.8	48.8
Unintentional Injuries	2,317	45.3	46.3	44.4	48.2
Motor Vehicle	482	9.4	9.3	8.5	10.2
Other Unintentional Injuries	1,813	35.4	36.6	34.9	38.3
Pneumonia and Influenza	614	12.0	13.1	12.0	14.1
Suicide	910	17.8	17.4	16.3	18.6
Diabetes Mellitus	790	15.4	16.4	15.2	17.6
HIV Infection	49	1.0	0.9	0.7	1.2
Chronic Liver Disease and Cirrhosis	671	13.1	12.2	11.3	13.2
Alzheimer's Disease	1,305	25.5	29.3	27.7	30.9
Nephritis, Nephrosis, Nephrotic Syndrome	446	8.7	9.5	8.6	10.4
Homicide and Legal Intervention	202	3.9	3.9	3.4	4.5
Septicemia	409	8.0	8.7	7.8	9.5
Congenital Anomalies	154	3.0	3.1	2.6	3.6
Perinatal Period Conditions	191	3.7	4.0	3.4	4.5
All Other	6,817	133.2	144.8	141.3	148.2
Injury by Firearm	571	11.2	10.9	10.0	11.8
Drug-Induced Deaths	848	16.6	16.2	15.1	17.3
Alcohol-Induced Deaths	709	13.9	12.7	11.8	13.7
Work-Related Injury (Y/N Check Death Certificate)	72	1.4	1.3	1.0	1.7

** 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)^{1,2,3}. 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 Prevention⁴. *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.

References:

- ¹ 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.
- ² 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.
- ³ 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.
- ⁴ 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.