

Colorado Births and Deaths 2010

Selected birth characteristics: Colorado residents, 2010	2
Selected birth characteristics by age group of mother: Colorado residents, 2010	3
Selected birth characteristics by race/ethnicity of mother: Colorado residents, 2010	4
Live births and fertility rates: Colorado residents, 2010	5
Vital statistics summary: Colorado residents, 2000, 2006-2010	6
Deaths from selected causes by race/ethnicity: Colorado residents, 2010	8
Deaths and age-specific death rates: Colorado residents, 2010	9
Deaths and age-specific death rates from selected causes: Colorado residents, 2010	10
Deaths, crude death rates and age-adjusted death rates from selected causes: Colorado residents, 2010	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, 2010

Characteristic	Number	Percent
Total Live Births	66,346	100.0
Age of Mother		
10-17	1,745	2.6
18-19	3,734	5.6
20-29	32,871	49.5
30+	27,991	42.2
Low Weight Births (<2,500 Grams)	5,816	8.8
Very Low Weight Births (<1,500 Grams)	889	1.3
Prenatal Care Later than 1st Trimester/No Care	13,657	21.0
No Prenatal Care	894	1.4
Preterm Births (<37 Weeks)	6,050	9.1
Education of Mother <High School Diploma/GED	12,119	18.5
Live Births to Unmarried Women	16,022	24.2
Smoking During Pregnancy	5,378	8.1

"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, 2010

Characteristic	All Ages		10-17		18-19		20-29		30+	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total Live Births	66,346	100.0	1,745	100.0	3,734	100.0	32,871	100.0	27,991	100.0
Race/Ethnicity of Mother										
White, Non-Hispanic	39,935	61.5	463	27.6	1,451	40.3	18,800	58.5	19,219	69.8
White, Hispanic	16,533	25.4	929	55.4	1,524	42.3	8,935	27.8	5,144	18.7
Black	3,455	5.3	134	8.0	285	7.9	2,013	6.3	1,023	3.7
Asian American/Pacific Islander	2,487	3.8	20	1.2	59	1.6	972	3.0	1,436	5.2
American Indian/Native Alaskan	667	1.0	42	2.5	78	2.2	369	1.1	178	0.6
Other	1,887	2.9	90	5.4	203	5.6	1,049	3.3	545	2.0
Unknown	1,382		67		134		733		446	
Low Weight Births (<2,500 Grams)	5,816	8.8	192	11.0	392	10.5	2,720	8.3	2,512	9.0
Very Low Weight Births (<1,500 Grams)	889	1.3	36	2.1	58	1.6	398	1.2	397	1.4
Prenatal Care Later than 1st Trimester/No Care	13,657	21.0	668	39.3	1,300	35.5	7,440	23.1	4,248	15.5
No Prenatal Care	894	1.4	62	3.6	92	2.5	430	1.3	309	1.1
Preterm Births (<37 Weeks)	6,050	9.1	185	10.6	333	8.9	2,841	8.6	2,691	9.6
Education of Mother <High School Diploma/GED	12,119	18.5	1,492	86.8	1,605	43.2	5,922	18.2	3,100	11.2
Live Births to Unmarried Women	16,022	24.1	1,539	88.2	2,411	64.6	9,116	27.7	2,955	10.6
Smoking During Pregnancy	5,378	8.1	151	8.7	484	13.0	3,435	10.5	1,307	4.7

"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, 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
Total Live Births	39,935	100.0	16,533	100.0	3,455	100.0	2,487	100.0	667	100.0
Age of Mother										
10-17	463	1.2	929	5.6	134	3.9	20	0.8	42	6.3
18-19	1,451	3.6	1,524	9.2	285	8.2	59	2.4	78	11.7
20-29	18,800	47.1	8,935	54.0	2,013	58.3	972	39.1	369	55.3
30+	19,219	48.1	5,144	31.1	1,023	29.6	1,436	57.7	178	26.7
Low Weight Births (<2,500 Grams)	3,395	8.5	1,356	8.2	461	13.4	299	12.0	48	7.2
Very Low Weight Births (<1,500 Grams)	529	1.3	210	1.3	78	2.3	41	1.6	6	0.9
Prenatal Care Later than 1st Trimester/No Care	6,228	15.9	4,619	28.4	1,126	33.5	532	21.8	231	36.3
No Prenatal Care	350	0.9	363	2.2	92	2.7	29	1.2	17	2.7
Preterm Births (<37 Weeks)	3,625	9.1	1,448	8.8	396	11.5	265	10.7	58	8.7
Education of Mother <High School Diploma/GED	2,643	6.7	7,236	44.1	695	20.3	243	9.9	173	26.1
Live Births to Unmarried Women	7,119	17.8	5,557	33.6	1,591	46.0	282	11.3	299	44.8
Smoking During Pregnancy	3,987	10.0	796	4.8	261	7.6	69	2.8	70	10.6

"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, 2010**

Age Group	Births	Population	Fertility Rate	Lower Limit	Upper Limit
All Ages	66,346	1,025,085	64.7	64.2	65.2
Teen Age Groups					
13-14	56	63,745	0.9	0.6	1.1
15-17	1,688	97,252	17.4	16.5	18.2
18-19	3,734	66,493	56.2	54.4	57.9
10-17	1,745	259,714	6.7	6.4	7.0
10-19	5,479	326,207	16.8	16.4	17.2
All Age Groups					
10-14	57	162,462	0.4	0.3	0.4
15-19	5,422	163,745	33.1	32.2	34.0
20-24	14,321	166,850	85.8	84.5	87.2
25-29	18,550	180,452	102.8	101.4	104.2
30-34	17,130	172,502	99.3	97.9	100.7
35-39	8,725	171,255	50.9	49.9	52.0
40-49	2,120	356,768	5.9	5.7	6.2

** 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, 2000, 2006-2010

	2000	2006	2007	2008	2009	2010	2006-2010 Annual Average
Total Population	4,301,261	4,745,660	4,821,784	4,901,938	4,976,853	5,029,196	4,895,086
Total Births							
Number	65,429	70,737	70,804	70,028	68,605	66,346	69,304
Birth Rate	15.2	14.9	14.7	14.3	13.8	13.2	14.2
General Fertility Rate	67.5	70.6	70.1	68.7	67.0	64.7	68.2
Age of Mother 10-17							
Number	2,729	2,424	2,297	2,221	2,042	1,745	2,146
Percent of Total Births	4.2	3.4	3.2	3.2	3.0	2.6	3.1
Fertility Rate	11.4	9.5	8.9	8.6	7.9	6.7	8.3
Low Weight Births (<2,500 Grams)							
Number	5,537	6,379	6,397	6,263	6,015	5,816	6,174
Percent	8.5	9.0	9.0	8.9	8.8	8.8	8.9
Prenatal Care Later Than 1st Trimester/No Care							
Number	12,413	14,076	15,129	15,687	14,982	13,657	14,706
Percent	19.3	20.3	21.9	23.1	22.3	21.0	21.7
Births to Unmarried Women							
Number	16,339	19,547	18,062	17,525	17,220	16,022	
Percent	25.0	27.6	25.5	25.0	25.1	24.1	
Mother's Education <12 Years							
Number	13,490	14,702	14,804	14,599	13,453	12,119	
Percent	20.9	21.4	21.2	21.1	19.8	18.5	
Infant Deaths							
Number	402	404	433	434	429	392	418
Rate	6.1	5.7	6.1	6.2	6.3	5.9	6.0
Neonatal Deaths							
Number	279	309	296	311	288	287	298
Rate	4.3	4.4	4.2	4.4	4.2	4.3	4.3
Total Deaths							
Number	27,229	29,413	29,888	31,205	31,132	31,435	30,615
Crude Rate	633.0	619.8	619.9	636.6	625.5	625.1	625.4
Age-Adjusted Rate	790.0	730.7	722.4	728.2	696.9	682.1	711.2
Cardiovascular Disease							
Number	8,929	8,482	8,411	8,363	8,253	8,283	8,358
Age-Adjusted Rate	269.7	217.6	209.9	200.8	188.9	183.2	199.4
Heart Disease							
Number	6,135	6,099	6,073	6,132	6,083	6,029	6,083

(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: Colorado residents, 2000, 2006-2010

	2000	2006	2007	2008	2009	2010	2006-2010 Annual Average
Age-Adjusted Rate	183.7	155.1	150.3	146.2	138.2	132.6	144.1
Cerebrovascular Disease							
Number	1,854	1,525	1,589	1,531	1,529	1,605	1,556
Age-Adjusted Rate	56.9	39.8	40.5	37.5	35.7	36.0	37.8
Malignant Neoplasms							
Number	5,896	6,523	6,590	6,709	6,938	7,029	6,758
Age-Adjusted Rate	169.2	159.1	156.5	153.2	152.9	149.4	154.1
Lung Cancer							
Number	1,426	1,551	1,579	1,598	1,639	1,635	1,600
Age-Adjusted Rate	41.2	38.2	38.0	36.9	36.6	35.2	36.9
Breast Cancer							
Number	480	493	456	492	512	534	497
Age-Adjusted Rate	13.1	11.5	10.3	10.7	10.9	11.1	10.9
Total Unintentional Injuries							
Number	1,715	1,888	2,029	2,159	2,141	2,102	2,064
Age-Adjusted Rate	43.1	42.1	44.6	46.4	44.6	43.4	44.3
Motor Vehicle							
Number	714	570	577	579	553	480	552
Age-Adjusted Rate	16.8	11.9	12.0	12.0	11.1	9.5	11.3
Other Unintentional Injuries							
Number	1,001	1,318	1,452	1,580	1,588	1,622	1,512
Age-Adjusted Rate	26.3	30.2	32.6	34.4	33.5	33.9	33.0
Chronic Lower Respiratory Diseases							
Number	1,777	1,930	1,997	2,178	2,072	2,199	2,075
Age-Adjusted Rate	53.6	50.3	50.6	53.4	48.4	49.7	50.5
Suicide							
Number	612	724	805	801	940	867	827
Age-Adjusted Rate	14.3	15.1	16.5	16.1	18.7	16.8	16.7
Homicide and Legal Intervention							
Number	155	188	176	195	198	190	189
Age-Adjusted Rate	3.5	3.9	3.6	3.9	4.0	3.8	3.8
Work-Related Injury							
Number	102	100	91	90	67	75	85
Age-Adjusted Rate	2.3	2.0	1.8	1.8	1.3	1.4	1.7

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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, 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	%
Total	31,435	100.0	26,295	100.0	3,296	100.0	1,186	100.0	374	100.0	194	100.0
Cardiovascular Disease	8,283	26.3	7,048	26.8	739	22.4	322	27.2	100	26.7	48	24.7
Heart Disease	6,029	19.2	5,168	19.7	504	15.3	234	19.7	62	16.6	40	20.6
Cerebrovascular Disease	1,605	5.1	1,328	5.1	184	5.6	57	4.8	30	8.0	4	2.1
Atherosclerosis	119	0.4	104	0.4	7	0.2	3	0.3	3	0.8	*	*
Malignant Neoplasms	7,029	22.4	5,916	22.5	668	20.3	280	23.6	110	29.4	39	20.1
Lung Cancer	1,635	5.2	1,401	5.3	123	3.7	76	6.4	22	5.9	9	4.6
Breast Cancer	534	1.7	457	1.7	40	1.2	21	1.8	11	2.9	5	2.6
Chronic Lower Respiratory Disease	2,199	7.0	2,002	7.6	125	3.8	52	4.4	8	2.1	10	5.2
Unintentional Injuries	2,102	6.7	1,665	6.3	301	9.1	75	6.3	29	7.8	19	9.8
Motor Vehicle	480	1.5	327	1.2	111	3.4	25	2.1	4	1.1	5	2.6
Other Unintentional Injuries	1,622	5.2	1,338	5.1	190	5.8	50	4.2	25	6.7	14	7.2
Pneumonia and Influenza	549	1.7	476	1.8	52	1.6	13	1.1	4	1.1	*	*
Suicide	867	2.8	716	2.7	105	3.2	23	1.9	12	3.2	7	3.6
Diabetes Mellitus	721	2.3	511	1.9	135	4.1	56	4.7	8	2.1	9	4.6
HIV Infection	67	0.2	44	0.2	9	0.3	13	1.1	0	0.0	0	0.0
Chronic Liver Disease and Cirrhosis	598	1.9	424	1.6	146	4.4	11	0.9	3	0.8	13	6.7
Alzheimer's Disease	1,336	4.3	1,212	4.6	82	2.5	30	2.5	6	1.6	4	2.1
Nephritis, Nephrosis, Nephrotic Syndrome	426	1.4	335	1.3	65	2.0	21	1.8	*	*	3	1.5
Homicide and Legal Intervention	190	0.6	98	0.4	54	1.6	35	3.0	*	*	*	*
Septicemia	342	1.1	276	1.0	46	1.4	12	1.0	5	1.3	*	*
Congenital Anomalies	164	0.5	99	0.4	46	1.4	8	0.7	8	2.1	3	1.5
Perinatal Period Conditions	206	0.7	101	0.4	60	1.8	34	2.9	5	1.3	*	*
All Other	6,356	20.2	5,372	20.4	663	20.1	201	16.9	72	19.3	34	17.5
Injury by Firearm	553	1.8	442	1.7	68	2.1	35	3.0	*	*	4	2.1
Drug-Induced Deaths	672	2.1	539	2.0	94	2.9	31	2.6	3	0.8	3	1.5
Alcohol-Induced Deaths	730	2.3	542	2.1	146	4.4	23	1.9	*	*	17	8.8
Work-Related Injury (Y/N Check Death Certificate)	75	0.2	55	0.2	15	0.5	*	*	*	*	*	*

* 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, 2010

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	31,435	5,029,196	6.3
Infant	392	66,346	5.9
Neonatal	287	66,346	4.3
1-4	88	277,366	0.3
5-9	31	348,603	0.1
10-14	42	332,654	0.1
15-19	160	339,475	0.5
20-24	311	348,615	0.9
25-29	329	372,459	0.9
30-34	331	353,819	0.9
35-39	409	353,605	1.2
40-44	614	346,039	1.8
45-49	1,023	371,635	2.8
50-54	1,423	371,063	3.8
55-59	1,921	328,364	5.9
60-64	2,232	269,280	8.3
65-69	2,226	182,492	12.2
70-74	2,562	127,468	20.1
75-79	3,382	96,908	34.9
80-84	4,361	73,144	59.6
85+	9,598	69,613	137.9
1-14	161	958,623	0.2
15-24	471	688,090	0.7
25-64	8,282	2,766,264	3.0
65+	22,129	549,625	40.3

* 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, 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	392	5.9	161	0.2	471	0.7	1,683	1.2	6,599	4.9	22,129	40.3
Cardiovascular Disease	7	0.1	8	0.0	24	0.0	189	0.1	1,377	1.0	6,678	12.2
Heart Disease	4	0.1	6	0.0	20	0.0	151	0.1	1,086	0.8	4,762	8.7
Cerebrovascular Disease	3	0.0	*	*	4	0.0	23	0.0	217	0.2	1,356	2.5
Atherosclerosis	0	0.0	0	0.0	0	0.0	*	*	*	*	115	0.2
Malignant Neoplasms	0	0.0	12	0.0	23	0.0	216	0.2	2,023	1.5	4,755	8.7
Lung Cancer	0	0.0	0	0.0	0	0.0	15	0.0	424	0.3	1,196	2.2
Breast Cancer	0	0.0	0	0.0	0	0.0	25	0.0	182	0.1	327	0.6
Chronic Lower Respiratory Diseases	0	0.0	*	*	3	0.0	16	0.0	289	0.2	1,889	3.4
Unintentional Injuries	16	0.2	49	0.1	198	0.3	453	0.3	566	0.4	820	1.5
Motor Vehicle	*	*	18	0.0	100	0.1	131	0.1	154	0.1	75	0.1
Other Unintentional Injuries	14	0.2	31	0.0	98	0.1	322	0.2	412	0.3	745	1.4
Pneumonia and Influenza	*	*	6	0.0	4	0.0	17	0.0	63	0.0	458	0.8
Suicide	0	0.0	11	0.0	117	0.2	282	0.2	362	0.3	95	0.2
Diabetes Mellitus	*	*	0	0.0	*	*	27	0.0	213	0.2	479	0.9
HIV Infection	0	0.0	0	0.0	0	0.0	15	0.0	46	0.0	6	0.0
Chronic Liver Disease and Cirrhosis	0	0.0	0	0.0	*	*	84	0.1	375	0.3	138	0.3
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	17	0.0	1,319	2.4
Nephritis, Nephrosis, Nephrotic Syndrome	*	*	0	0.0	*	*	5	0.0	51	0.0	367	0.7
Homicide and Legal Intervention	5	0.1	8	0.0	43	0.1	77	0.1	47	0.0	10	0.0
Septicemia	3	0.0	*	*	0	0.0	11	0.0	68	0.1	258	0.5
Congenital Anomalies	97	1.5	15	0.0	6	0.0	14	0.0	21	0.0	11	0.0
Perinatal Period Conditions	204	3.1	*	*	0	0.0	*	*	0	0.0	0	0.0
All Other	57	0.9	47	0.0	49	0.1	276	0.2	1,081	0.8	4,846	8.8
Injury by Firearm	0	0.0	3	0.0	88	0.1	188	0.1	202	0.2	72	0.1
Drug-Induced Deaths	0	0.0	3	0.0	65	0.1	267	0.2	296	0.2	41	0.1
Alcohol-Induced Deaths	0	0.0	0	0.0	3	0.0	151	0.1	484	0.4	92	0.2
Work-Related Injury (Y/N Check Death Certificate)	0	0.0	0	0.0	6	0.0	29	0.0	31	0.0	9	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, 2010**

Cause of Death	N	Rate	Age-Adjusted Rate	Lower Limit	Upper Limit
All Causes	31,435	625.1	682.1	674.7	689.5
Cardiovascular Disease	8,283	164.7	183.2	179.3	187.1
Heart Disease	6,029	119.9	132.6	129.2	136.0
Cerebrovascular Disease	1,605	31.9	36.0	34.2	37.8
Atherosclerosis	119	2.4	2.7	2.2	3.2
Malignant Neoplasms	7,029	139.8	149.4	145.9	152.9
Lung Cancer	1,635	32.5	35.2	33.5	36.9
Breast Cancer	534	10.6	11.1	10.2	12.1
Chronic Lower Respiratory Diseases	2,199	43.7	49.7	47.6	51.8
Unintentional Injuries	2,102	41.8	43.4	41.5	45.2
Motor Vehicle	480	9.5	9.5	8.6	10.3
Other Unintentional Injuries	1,603	31.9	33.5	31.9	35.2
Pneumonia and Influenza	549	10.9	12.3	11.3	13.3
Suicide	867	17.2	16.8	15.7	17.9
Diabetes Mellitus	721	14.3	15.2	14.1	16.4
HIV Infection	67	1.3	1.2	0.9	1.5
Chronic Liver Disease and Cirrhosis	598	11.9	11.2	10.3	12.1
Alzheimer's Disease	1,336	26.6	31.1	29.5	32.8
Nephritis, Nephrosis, Nephrotic Syndrome	426	8.5	9.6	8.7	10.6
Homicide and Legal Intervention	190	3.8	3.8	3.2	4.3
Septicemia	342	6.8	7.5	6.7	8.3
Congenital Anomalies	164	3.3	3.3	2.8	3.9
Perinatal Period Conditions	206	4.1	4.3	3.7	4.9
All Other	6,356	126.4	140.0	136.5	143.4
Injury by Firearm	553	11.0	10.8	9.9	11.7
Drug-Induced Deaths	672	13.4	13.0	12.0	14.0
Alcohol-Induced Deaths	730	14.5	13.4	12.4	14.4
Work-Related Injury (Y/N Check Death Certificate)	75	1.5	1.4	1.1	1.8

** 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.