

# Colorado Births and Deaths 200-

Selected birth characteristics: Colorado residents, 200- .....	2
Selected birth characteristics by age group of mother: Colorado residents, 200- ...	3
Selected birth characteristics by race/ethnicity of mother: Colorado residents, 200- .....	4
Live births and fertility rates: Colorado residents, 200- .....	5
Vital statistics summary: Colorado residents, 199- , 200) -200- .....	6
Deaths from selected causes by race/ethnicity: Colorado residents, 200- .....	8
Deaths and age-specific death rates: Colorado residents, 200- .....	9
Deaths and age-specific death rates from selected causes: Colorado residents, 200- .....	10
Deaths, crude death rates and age-adjusted death rates from selected causes: Colorado residents, 200- .....	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](mailto:health.statistics@state.co.us).

## Selected birth characteristics: Colorado residents, 2009

Characteristic	Number	Percent
Total Live Births	68,605	100.0
Age of Mother		
10-17	2,042	3.0
18-19	4,230	6.2
20-29	34,362	50.1
30+	27,952	40.8
Low Weight Births (<2,500 Grams)	6,015	8.8
Very Low Weight Births (<1,500 Grams)	839	1.2
Prenatal Care Later than 1st Trimester/No Care	14,982	22.3
No Prenatal Care	950	1.4
Preterm Births (<37 Weeks)	6,342	9.3
Education of Mother <High School Diploma/GED	13,453	19.8
Live Births to Unmarried Women	17,220	25.1
Smoking During Pregnancy	5,748	8.4

*"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: Colorado residents, 2009

Characteristic	All Ages		10-17		18-19		20-29		30+	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Total Live Births</b>	68,605	100.0	2,042	100.0	4,230	100.0	34,362	100.0	27,952	100.0
<b>Race/Ethnicity of Mother</b>										
White, Non-Hispanic	40,975	61.0	533	26.9	1,669	40.7	19,537	58.1	19,233	70.1
White, Hispanic	17,814	26.5	1,124	56.8	1,802	43.9	9,730	29.0	5,157	18.8
Black	3,304	4.9	136	6.9	297	7.2	1,906	5.7	965	3.5
Asian American/Pacific Islander	2,486	3.7	30	1.5	56	1.4	1,027	3.1	1,373	5.0
American Indian/Native Alaskan	701	1.0	43	2.2	76	1.9	392	1.2	190	0.7
Other	1,858	2.8	112	5.7	204	5.0	1,008	3.0	534	1.9
Unknown	1,467		64		126		762		500	
<b>Low Weight Births (&lt;2,500 Grams)</b>	6,015	8.8	219	10.7	405	9.6	2,825	8.2	2,556	9.1
<b>Very Low Weight Births (&lt;1,500 Grams)</b>	839	1.2	40	2.0	59	1.4	383	1.1	355	1.3
<b>Prenatal Care Later than 1st Trimester/No Care</b>	14,982	22.3	865	43.3	1,494	36.0	8,386	24.9	4,230	15.5
<b>No Prenatal Care</b>	950	1.4	60	3.0	87	2.1	525	1.6	278	1.0
<b>Preterm Births (&lt;37 Weeks)</b>	6,342	9.3	187	9.2	381	9.0	2,973	8.7	2,791	10.0
<b>Education of Mother &lt;High School Diploma/GED</b>	13,453	19.8	1,776	87.9	1,884	44.9	6,641	19.5	3,152	11.4
<b>Live Births to Unmarried Women</b>	17,220	25.1	1,736	85.0	2,786	65.9	9,734	28.3	2,962	10.6
<b>Smoking During Pregnancy</b>	5,748	8.4	160	7.8	605	14.3	3,692	10.8	1,291	4.6

*"Education of Mother," "Births to Unmarried Women," and "Smoking During Pregnancy" are among items collected in 2007, using the revised birth certificate, that are not directly comparable to data collected before 2007. See notes page at end of report for details of these revised data items.*

*\* indicates one or two events in the category.*

*Sums may not add to total due to cases with age of mother unknown.*

*Percentages are of total births, excluding cases with specific characteristics unknown.*

*Percentage not computed for cells shaded in light gray.*

*See technical notes at [www.cdphe.state.co.us/hs](http://www.cdphe.state.co.us/hs) for definitions of data items.*

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

## Selected birth characteristics by race/ethnicity of mother: Colorado residents, 2009

Characteristic	White Non-Hispanic		White Hispanic		Black		Asian American/Pacific Islander		American Indian/Native Alaskan	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Total Live Births</b>	40,975	100.0	17,814	100.0	3,304	100.0	2,486	100.0	701	100.0
<b>Age of Mother</b>										
<b>10-17</b>	533	1.3	1,124	6.3	136	4.1	30	1.2	43	6.1
<b>18-19</b>	1,669	4.1	1,802	10.1	297	9.0	56	2.3	76	10.8
<b>20-29</b>	19,537	47.7	9,730	54.6	1,906	57.7	1,027	41.3	392	55.9
<b>30+</b>	19,233	46.9	5,157	28.9	965	29.2	1,373	55.2	190	27.1
<b>Low Weight Births (&lt;2,500 Grams)</b>	3,463	8.5	1,537	8.6	448	13.6	255	10.3	69	9.8
<b>Very Low Weight Births (&lt;1,500 Grams)</b>	468	1.1	235	1.3	70	2.1	34	1.4	6	0.9
<b>Prenatal Care Later than 1st Trimester/No Care</b>	6,518	16.2	5,635	32.3	1,192	37.1	580	23.8	207	30.9
<b>No Prenatal Care</b>	372	0.9	395	2.3	87	2.7	47	1.9	14	2.1
<b>Preterm Births (&lt;37 Weeks)</b>	3,810	9.3	1,622	9.1	373	11.3	244	9.8	68	9.7
<b>Education of Mother &lt;High School Diploma/GED</b>	2,926	7.2	8,198	46.5	645	19.8	244	9.9	202	28.9
<b>Live Births to Unmarried Women</b>	7,457	18.2	6,333	35.6	1,620	49.0	307	12.3	329	46.9
<b>Smoking During Pregnancy</b>	4,135	10.1	972	5.5	311	9.4	58	2.3	96	13.8

*"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: Colorado residents, 2009

Age Group	Births	Population	Fertility Rate	Lower Limit	Upper Limit
All Ages	68,605	1,039,478	66.0	65.5	66.5
<b>Teen Age Groups</b>					
13-14	71	63,624	1.1	0.8	1.4
15-17	1,971	98,871	19.9	19.1	20.8
18-19	4,230	77,677	54.5	52.9	56.1
10-17	2,042	258,831	7.9	7.5	8.2
10-19	6,272	336,508	18.6	18.2	19.1
<b>All Age Groups</b>					
10-14	71	159,959	0.4	0.3	0.6
15-19	6,201	176,549	35.1	34.3	36.0
20-24	15,257	184,668	82.6	81.4	83.9
25-29	19,105	160,211	119.2	117.7	120.8
30-34	17,027	162,722	104.6	103.1	106.1
35-39	8,885	180,837	49.1	48.1	50.1
40-49	2,033	368,723	5.5	5.3	5.8

*\* indicates one or two events in the category.*

*Sums may not add to total due to cases with age of mother unknown.*

*Rates are live births per 1,000 female population in each age group.*

*Population data for 'all ages' are females ages 15-44.*

*See technical notes at [www.cdphe.state.co.us/hs](http://www.cdphe.state.co.us/hs) for definitions of data items.*

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

## Vital statistics summary: Colorado residents, 1999, 2005-2009

	1999	2005	2006	2007	2008	2009	2005-2009 Annual Average
<b>Total Population</b>	4,216,006	4,714,278	4,808,153	4,895,638	4,987,619	5,074,567	4,896,051
<b>Total Births</b>							
Number	62,142	68,922	70,737	70,804	70,028	68,605	69,819
Birth Rate	14.7	14.6	14.7	14.5	14.0	13.5	14.3
General Fertility Rate	64.8	68.8	69.9	69.2	67.8	66.0	68.3
<b>Age of Mother 10-17</b>							
Number	2,685	2,377	2,424	2,297	2,221	2,042	2,272
Percent of Total Births	4.3	3.4	3.4	3.2	3.2	3.0	3.3
Fertility Rate	11.5	9.4	9.5	8.9	8.6	7.9	8.9
<b>Low Weight Births (&lt;2,500 Grams)</b>							
Number	5,233	6,379	6,379	6,397	6,263	6,015	6,287
Percent	8.4	9.3	9.0	9.0	8.9	8.8	9.0
<b>Prenatal Care Later Than 1st Trimester/No Care</b>							
Number	11,315	13,492	14,076	15,129	15,687	14,982	14,673
Percent	18.3	19.9	20.3	21.9	23.1	22.3	21.5
<b>Births to Unmarried Women</b>							
Number	15,781	18,648	19,547	18,062	17,525	17,220	
Percent	25.4	27.1	27.6	25.5	25.0	25.1	
<b>Mother's Education &lt;12 Years</b>							
Number	12,324	14,967	14,702	14,804	14,599	13,453	
Percent	20.0	22.1	21.4	21.2	21.1	19.8	
<b>Infant Deaths</b>							
Number	415	444	404	433	434	429	429
Rate	6.7	6.4	5.7	6.1	6.2	6.3	6.1
<b>Neonatal Deaths</b>							
Number	266	329	309	296	311	288	307
Rate	4.3	4.8	4.4	4.2	4.4	4.2	4.4
<b>Total Deaths</b>							
Number	27,033	29,521	29,413	29,888	31,205	31,132	30,232
Crude Rate	641.2	626.2	611.7	610.5	625.6	613.5	617.5
Age-Adjusted Rate	803.6	759.6	739.8	733.7	741.4	709.7	736.2
<b>Cardiovascular Disease</b>							
Number	9,167	8,845	8,482	8,411	8,363	8,253	8,471
Age-Adjusted Rate	284.0	237.9	222.2	215.0	206.4	194.4	214.6
<b>Heart Disease</b>							
Number	6,386	6,282	6,099	6,073	6,132	6,083	6,134

(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: Colorado residents, 1999, 2005-2009

	1999	2005	2006	2007	2008	2009	2005-2009 Annual Average
<b>Age-Adjusted Rate</b>	196.4	167.6	158.3	153.7	150.1	142.1	154.0
<b>Cerebrovascular Disease</b>							
<b>Number</b>	1,821	1,595	1,525	1,589	1,531	1,529	1,554
<b>Age-Adjusted Rate</b>	57.2	43.6	40.7	41.5	38.6	36.8	40.1
<b>Malignant Neoplasms</b>							
<b>Number</b>	5,830	6,367	6,523	6,590	6,709	6,938	6,625
<b>Age-Adjusted Rate</b>	170.9	159.6	159.5	157.3	154.0	153.6	156.7
<b>Lung Cancer</b>							
<b>Number</b>	1,362	1,523	1,551	1,579	1,598	1,639	1,578
<b>Age-Adjusted Rate</b>	40.3	38.6	38.2	38.1	37.0	36.6	37.7
<b>Breast Cancer</b>							
<b>Number</b>	486	524	493	456	492	512	495
<b>Age-Adjusted Rate</b>	13.8	12.5	11.5	10.4	10.7	10.9	11.2
<b>Total Unintentional Injuries</b>							
<b>Number</b>	1,506	1,928	1,888	2,029	2,159	2,141	2,029
<b>Age-Adjusted Rate</b>	38.8	43.5	42.1	44.7	46.6	44.7	44.4
<b>Motor Vehicle</b>							
<b>Number</b>	555	662	570	577	579	553	588
<b>Age-Adjusted Rate</b>	13.3	13.9	11.7	11.8	11.8	11.0	12.0
<b>Other Unintentional Injuries</b>							
<b>Number</b>	951	1,266	1,318	1,452	1,580	1,588	1,441
<b>Age-Adjusted Rate</b>	25.5	29.7	30.4	32.8	34.8	33.8	32.3
<b>Chronic Lower Respiratory Diseases</b>							
<b>Number</b>	1,890	1,908	1,930	1,997	2,178	2,072	2,017
<b>Age-Adjusted Rate</b>	58.2	51.4	50.7	51.2	54.1	49.1	51.3
<b>Suicide</b>							
<b>Number</b>	567	795	724	805	801	940	813
<b>Age-Adjusted Rate</b>	13.6	16.9	14.9	16.3	15.8	18.4	16.5
<b>Homicide and Legal Intervention</b>							
<b>Number</b>	204	190	188	176	195	198	189
<b>Age-Adjusted Rate</b>	4.6	3.9	3.8	3.5	3.8	3.9	3.8
<b>Work-Related Injury</b>							
<b>Number</b>	78	93	100	91	90	67	88
<b>Age-Adjusted Rate</b>	1.8	1.9	2.0	1.8	1.8	1.3	1.8

**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: Colorado residents, 2009

Cause of Death	All Races		White Non-Hispanic		White Hispanic		Black		Asian American/Pacific Islander		American Indian/Native Alaskan	
	N	%	N	%	N	%	N	%	N	%	N	%
<b>Total</b>	31,132	100.0	25,809	100.0	3,479	100.0	1,139	100.0	371	100.0	259	100.0
<b>Cardiovascular Disease</b>	8,253	26.5	7,012	27.2	799	23.0	289	25.4	89	24.0	51	19.7
Heart Disease	6,083	19.5	5,205	20.2	568	16.3	199	17.5	60	16.2	40	15.4
Cerebrovascular Disease	1,529	4.9	1,271	4.9	162	4.7	60	5.3	26	7.0	9	3.5
Atherosclerosis	175	0.6	143	0.6	22	0.6	9	0.8	*	*	0	0.0
<b>Malignant Neoplasms</b>	6,938	22.3	5,848	22.7	688	19.8	242	21.2	108	29.1	40	15.4
Lung Cancer	1,639	5.3	1,421	5.5	123	3.5	58	5.1	26	7.0	8	3.1
Breast Cancer	512	1.6	433	1.7	50	1.4	16	1.4	6	1.6	5	1.9
<b>Chronic Lower Respiratory Disease</b>	2,072	6.7	1,888	7.3	118	3.4	37	3.2	12	3.2	11	4.2
<b>Unintentional Injuries</b>	2,141	6.9	1,676	6.5	313	9.0	81	7.1	23	6.2	37	14.3
Motor Vehicle	553	1.8	405	1.6	101	2.9	23	2.0	10	2.7	7	2.7
Other Unintentional Injuries	1,588	5.1	1,271	4.9	212	6.1	58	5.1	13	3.5	30	11.6
<b>Pneumonia and Influenza</b>	655	2.1	540	2.1	79	2.3	18	1.6	10	2.7	7	2.7
<b>Suicide</b>	940	3.0	797	3.1	94	2.7	24	2.1	10	2.7	11	4.2
<b>Diabetes Mellitus</b>	778	2.5	546	2.1	156	4.5	48	4.2	15	4.0	9	3.5
<b>HIV Infection</b>	61	0.2	35	0.1	9	0.3	13	1.1	*	*	3	1.2
<b>Chronic Liver Disease and Cirrhosis</b>	552	1.8	355	1.4	166	4.8	13	1.1	*	*	14	5.4
<b>Alzheimer's Disease</b>	1,320	4.2	1,193	4.6	76	2.2	42	3.7	7	1.9	0	0.0
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	443	1.4	346	1.3	58	1.7	25	2.2	9	2.4	5	1.9
<b>Homicide and Legal Intervention</b>	198	0.6	91	0.4	66	1.9	32	2.8	*	*	8	3.1
<b>Septicemia</b>	357	1.1	276	1.1	45	1.3	21	1.8	11	3.0	4	1.5
<b>Congenital Anomalies</b>	173	0.6	107	0.4	48	1.4	11	1.0	5	1.3	*	*
<b>Perinatal Period Conditions</b>	205	0.7	92	0.4	73	2.1	30	2.6	3	0.8	6	2.3
<b>All Other</b>	6,046	19.4	5,007	19.4	691	19.9	213	18.7	65	17.5	52	20.1
<b>Injury by Firearm</b>	579	1.9	470	1.8	66	1.9	33	2.9	*	*	7	2.7
<b>Drug-Induced Deaths</b>	778	2.5	606	2.3	105	3.0	38	3.3	6	1.6	21	8.1
<b>Alcohol-Induced Deaths</b>	673	2.2	476	1.8	150	4.3	27	2.4	0	0.0	18	6.9
<b>Work-Related Injury (Y/N Check Death Certificate)</b>	67	0.2	46	0.2	13	0.4	3	0.3	*	*	4	1.5

\* 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, 2009

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	31,132	5,074,567	6.1
Infant	429	68,605	6.3
Neonatal	288	68,605	4.2
1-4	56	287,380	0.2
5-9	42	354,050	0.1
10-14	57	328,265	0.2
15-19	182	362,423	0.5
20-24	310	386,405	0.8
25-29	343	333,491	1.0
30-34	346	337,740	1.0
35-39	483	379,270	1.3
40-44	664	360,104	1.8
45-49	1,098	391,765	2.8
50-54	1,548	375,739	4.1
55-59	1,848	330,313	5.6
60-64	2,142	260,512	8.2
65-69	2,268	150,289	15.1
70-74	2,637	129,873	20.3
75-79	3,293	105,892	31.1
80-84	4,217	70,651	59.7
85+	9,166	59,697	153.5
1-14	155	969,695	0.2
15-24	492	748,829	0.7
25-64	8,472	2,768,934	3.1
65+	21,581	516,403	41.8

\* 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, 2009

Cause of Death	<1		1-14		15-24		25-44		45-64		65+	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
All Causes	429	6.3	155	0.2	492	0.7	1,836	1.3	6,636	4.9	21,581	41.8
Cardiovascular Disease	8	0.1	6	0.0	26	0.0	178	0.1	1,448	1.1	6,587	12.8
Heart Disease	7	0.1	3	0.0	20	0.0	147	0.1	1,179	0.9	4,727	9.2
Cerebrovascular Disease	*	*	3	0.0	3	0.0	22	0.0	194	0.1	1,306	2.5
Atherosclerosis	0	0.0	0	0.0	0	0.0	0	0.0	4	0.0	171	0.3
Malignant Neoplasms	0	0.0	13	0.0	22	0.0	215	0.2	1,967	1.4	4,721	9.1
Lung Cancer	0	0.0	0	0.0	0	0.0	12	0.0	420	0.3	1,207	2.3
Breast Cancer	0	0.0	0	0.0	0	0.0	36	0.0	193	0.1	283	0.5
Chronic Lower Respiratory Diseases	0	0.0	5	0.0	5	0.0	8	0.0	281	0.2	1,773	3.4
Unintentional Injuries	24	0.3	45	0.0	191	0.3	518	0.4	635	0.5	728	1.4
Motor Vehicle	3	0.0	21	0.0	102	0.1	174	0.1	161	0.1	92	0.2
Other Unintentional Injuries	21	0.3	24	0.0	89	0.1	344	0.2	474	0.3	636	1.2
Pneumonia and Influenza	6	0.1	10	0.0	6	0.0	39	0.0	106	0.1	488	0.9
Suicide	0	0.0	11	0.0	128	0.2	333	0.2	342	0.3	126	0.2
Diabetes Mellitus	0	0.0	0	0.0	*	*	31	0.0	200	0.1	545	1.1
HIV Infection	0	0.0	0	0.0	*	*	27	0.0	29	0.0	3	0.0
Chronic Liver Disease and Cirrhosis	0	0.0	0	0.0	*	*	76	0.1	338	0.2	137	0.3
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	*	*	16	0.0	1,303	2.5
Nephritis, Nephrosis, Nephrotic Syndrome	0	0.0	0	0.0	*	*	8	0.0	57	0.0	376	0.7
Homicide and Legal Intervention	10	0.1	10	0.0	40	0.1	87	0.1	41	0.0	10	0.0
Septicemia	*	*	*	*	*	*	10	0.0	63	0.0	278	0.5
Congenital Anomalies	88	1.3	14	0.0	5	0.0	28	0.0	18	0.0	20	0.0
Perinatal Period Conditions	204	3.0	*	*	0	0.0	0	0.0	0	0.0	0	0.0
All Other	87	1.3	38	0.0	60	0.1	277	0.2	1,095	0.8	4,486	8.7
Injury by Firearm	0	0.0	7	0.0	95	0.1	194	0.1	195	0.1	88	0.2
Drug-Induced Deaths	0	0.0	4	0.0	65	0.1	332	0.2	338	0.2	39	0.1
Alcohol-Induced Deaths	0	0.0	0	0.0	9	0.0	117	0.1	434	0.3	112	0.2
Work-Related Injury (Y/N Check Death Certificate)	0	0.0	0	0.0	*	*	22	0.0	34	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, 2009**

Cause of Death	N	Rate	Age-Adjusted Rate	Lower Limit	Upper Limit
All Causes	31,132	613.5	709.8	702.1	717.5
Cardiovascular Disease	8,253	162.6	194.4	190.3	198.6
Heart Disease	6,083	119.9	142.1	138.5	145.7
Cerebrovascular Disease	1,529	30.1	36.8	35.0	38.7
Atherosclerosis	175	3.4	4.5	3.8	5.1
Malignant Neoplasms	6,938	136.7	153.6	149.9	157.2
Lung Cancer	1,639	32.3	36.6	34.8	38.4
Breast Cancer	512	10.1	10.9	9.9	11.9
Chronic Lower Respiratory Diseases	2,072	40.8	49.1	47.0	51.3
Unintentional Injuries	2,141	42.2	44.7	42.8	46.7
Motor Vehicle	553	10.9	11.0	10.0	11.9
Other Unintentional Injuries	1,566	30.9	33.4	31.7	35.0
Pneumonia and Influenza	655	12.9	15.4	14.2	16.6
Suicide	940	18.5	18.4	17.2	19.6
Diabetes Mellitus	778	15.3	17.5	16.3	18.8
HIV Infection	61	1.2	1.2	0.9	1.5
Chronic Liver Disease and Cirrhosis	552	10.9	10.5	9.6	11.4
Alzheimer's Disease	1,320	26.0	33.7	31.9	35.5
Nephritis, Nephrosis, Nephrotic Syndrome	443	8.7	10.7	9.7	11.7
Homicide and Legal Intervention	198	3.9	3.9	3.4	4.4
Septicemia	357	7.0	8.3	7.4	9.2
Congenital Anomalies	173	3.4	3.5	3.0	4.0
Perinatal Period Conditions	205	4.0	4.0	3.5	4.6
All Other	6,046	119.1	140.9	137.3	144.4
Injury by Firearm	579	11.4	11.4	10.4	12.3
Drug-Induced Deaths	778	15.3	14.9	13.8	15.9
Alcohol-Induced Deaths	673	13.3	12.6	11.6	13.5
Work-Related Injury (Y/N Check Death Certificate)	67	1.3	1.3	1.0	1.6

*\* 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).