

Colorado Births and Deaths 201&

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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.

Selected birth characteristics: Colorado residents, 2012

Characteristic	Number	Percent
Total Live Births	65,188	100.0
Age of Mother		
10-17	1,186	1.8
18-19	2,966	4.6
20-29	31,861	48.9
30+	29,165	44.7
Low Weight Births (<2,500 Grams)	5,762	8.8
Very Low Weight Births (<1,500 Grams)	792	1.2
Prenatal Care Later than 1st Trimester/No Care	12,465	19.8
No Prenatal Care	1,160	1.8
Preterm Births (<37 Weeks)	5,803	8.9
Education of Mother <High School Diploma/GED	9,368	14.5
Live Births to Unmarried Women	15,253	23.4
Smoking During Pregnancy	4,797	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, 2012

Characteristic	All Ages		10-17		18-19		20-29		30+	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total Live Births	65,188	100.0	1,186	100.0	2,966	100.0	31,861	100.0	29,166	100.0
Race/Ethnicity of Mother										
White, Non-Hispanic	39,876	62.8	365	31.6	1,158	40.4	18,319	58.9	20,030	70.5
White, Hispanic	15,141	23.8	639	55.3	1,238	43.2	8,419	27.1	4,845	17.1
Black	3,463	5.4	64	5.5	267	9.3	1,975	6.3	1,157	4.1
Asian American/Pacific Islander	2,813	4.4	14	1.2	37	1.3	1,140	3.7	1,622	5.7
American Indian/Native Alaskan	709	1.1	20	1.7	56	2.0	406	1.3	226	0.8
Other	1,544	2.4	53	4.6	109	3.8	861	2.8	521	1.8
Unknown	1,642		31		101		741		765	
Low Weight Births (<2,500 Grams)	5,762	8.8	134	11.3	275	9.3	2,693	8.5	2,658	9.1
Very Low Weight Births (<1,500 Grams)	792	1.2	14	1.2	42	1.4	395	1.2	341	1.2
Prenatal Care Later than 1st Trimester/No Care	12,465	19.8	478	42.3	965	33.8	6,747	21.9	4,274	15.2
No Prenatal Care	1,160	1.8	56	5.0	96	3.4	617	2.0	390	1.4
Preterm Births (<37 Weeks)	5,803	8.9	141	11.9	249	8.4	2,696	8.5	2,715	9.3
Education of Mother <High School Diploma/GED	9,368	14.5	1,024	87.9	1,062	36.1	4,647	14.7	2,634	9.1
Live Births to Unmarried Women	15,253	23.4	1,067	90.0	1,951	65.8	8,965	28.1	3,269	11.2
Smoking During Pregnancy	4,797	7.4	91	7.7	358	12.1	3,076	9.7	1,272	4.4

"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.

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, 2012

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	39,876	100.0	15,141	100.0	3,463	100.0	2,813	100.0	709	100.0
Age of Mother										
10-17	365	0.9	639	4.2	64	1.8	14	0.5	20	2.8
18-19	1,158	2.9	1,238	8.2	267	7.7	37	1.3	56	7.9
20-29	18,319	45.9	8,419	55.6	1,975	57.0	1,140	40.5	406	57.3
30+	20,030	50.2	4,844	32.0	1,157	33.4	1,622	57.7	226	31.9
Low Weight Births (<2,500 Grams)	3,289	8.2	1,289	8.5	482	13.9	328	11.7	75	10.6
Very Low Weight Births (<1,500 Grams)	415	1.0	207	1.4	68	2.0	42	1.5	9	1.3
Prenatal Care Later than 1st Trimester/No Care	5,960	15.4	4,043	27.6	1,048	31.2	562	20.9	181	27.8
No Prenatal Care	422	1.1	509	3.5	125	3.7	44	1.6	19	2.9
Preterm Births (<37 Weeks)	3,435	8.6	1,357	9.0	371	10.7	277	9.9	63	8.9
Education of Mother <High School Diploma/GED	2,162	5.4	5,447	36.4	584	17.2	278	10.0	166	23.7
Live Births to Unmarried Women	7,045	17.7	5,047	33.3	1,491	43.1	311	11.1	327	46.1
Smoking During Pregnancy	3,396	8.6	786	5.2	333	9.7	48	1.7	78	11.2

"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, 2012**

Age Group	Births	Population	Fertility Rate	Lower Limit	Upper Limit
All Ages	65,188	1,046,243	62.3	61.8	62.8
Teen Age Groups					
13-14	29	66,237	0.4	0.3	0.6
15-17	1,157	97,485	11.9	11.2	12.6
18-19	2,966	72,423	41.0	39.5	42.4
10-17	1,186	267,833	4.4	4.2	4.7
10-19	4,152	340,256	12.2	11.8	12.6
All Age Groups					
10-14	29	170,348	0.2	0.1	0.2
15-19	4,123	169,909	24.3	23.5	25.0
20-24	13,297	166,597	79.8	78.5	81.1
25-29	18,564	178,957	103.7	102.3	105.2
30-34	18,190	183,385	99.2	97.8	100.6
35-39	8,848	169,458	52.2	51.2	53.3
40-49	2,114	353,880	6.0	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, 2002, 2008-2012

	2002	2008	2009	2010	2011	2012	2008-2012 Annual Average
Total Population	4,504,709	4,901,938	4,976,853	5,049,983	5,118,526	5,188,683	5,047,197
Total Births							
Number	68,420	70,028	68,602	66,346	65,052	65,188	67,043
Birth Rate	15.2	14.3	13.8	13.1	12.7	12.6	13.3
General Fertility Rate	68.6	68.7	67.1	64.5	62.8	62.3	65.1
Age of Mother 10-17							
Number	2,546	2,221	2,042	1,745	1,426	1,186	1,724
Percent of Total Births	3.7	3.2	3.0	2.6	2.2	1.8	2.6
Fertility Rate	10.1	8.6	7.9	6.7	5.4	4.4	6.6
Low Weight Births (<2,500 Grams)							
Number	6,116	6,263	6,013	5,816	5,659	5,762	5,903
Percent	8.9	8.9	8.8	8.8	8.7	8.8	8.8
Prenatal Care Later Than 1st Trimester/No Care							
Number	14,121	15,687	14,980	13,657	13,071	12,465	13,972
Percent	20.9	23.1	22.3	21.0	20.6	19.8	21.4
Births to Unmarried Women							
Number	18,309	17,525	17,217	16,022	15,616	15,253	16,327
Percent	26.8	25.0	25.1	24.1	24.0	23.4	24.4
Mother's Education <12 Years							
Number	15,241	14,599	13,453	12,119	10,540	9,368	12,016
Percent	22.5	21.1	19.8	18.5	16.4	14.5	18.1
Infant Deaths							
Number	413	434	429	392	362	298	383
Rate	6.0	6.2	6.3	5.9	5.6	4.6	5.7
Neonatal Deaths							
Number	273	311	288	287	257	212	271
Rate	4.0	4.4	4.2	4.3	4.0	3.3	4.0
Total Deaths							
Number	29,157	31,205	31,132	31,435	32,566	33,127	31,893
Crude Rate	647.3	636.6	625.5	622.5	636.2	638.4	631.9
Age-Adjusted Rate	801.1	725.8	694.4	676.6	676.1	662.8	686.1
Cardiovascular Disease							
Number	9,325	8,363	8,253	8,283	8,493	8,554	8,389
Age-Adjusted Rate	266.8	200.0	188.1	181.6	179.2	173.0	183.9
Heart Disease							
Number	6,403	6,132	6,083	6,029	6,207	6,306	6,151

(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, 2002, 2008-2012

	2002	2008	2009	2010	2011	2012	2008-2012 Annual Average
Age-Adjusted Rate	181.7	145.6	137.6	131.5	130.2	126.6	134.0
Cerebrovascular Disease							
Number	1,907	1,531	1,529	1,605	1,607	1,565	1,567
Age-Adjusted Rate	55.4	37.3	35.5	35.7	34.6	32.3	35.0
Malignant Neoplasms							
Number	6,372	6,709	6,938	7,029	7,037	7,314	7,005
Age-Adjusted Rate	173.2	152.6	152.3	148.2	142.9	142.6	147.5
Lung Cancer							
Number	1,544	1,598	1,639	1,635	1,588	1,590	1,610
Age-Adjusted Rate	42.3	36.8	36.4	34.9	32.5	31.2	34.3
Breast Cancer							
Number	495	492	512	534	553	585	535
Age-Adjusted Rate	12.8	10.6	10.8	11.0	10.8	11.1	10.9
Total Unintentional Injuries							
Number	1,803	2,159	2,141	2,102	2,317	2,404	2,225
Age-Adjusted Rate	42.8	46.3	44.6	43.1	46.1	47.0	45.5
Motor Vehicle							
Number	771	579	553	480	482	457	510
Age-Adjusted Rate	17.2	12.0	11.1	9.4	9.3	8.7	10.1
Other Unintentional Injuries							
Number	1,032	1,580	1,588	1,622	1,835	1,947	1,714
Age-Adjusted Rate	25.6	34.3	33.5	33.7	36.8	38.3	35.4
Chronic Lower Respiratory Diseases							
Number	1,847	2,178	2,072	2,199	2,161	2,237	2,169
Age-Adjusted Rate	53.0	53.2	48.2	49.3	46.4	46.4	48.6
Suicide							
Number	724	801	940	867	910	1,053	914
Age-Adjusted Rate	16.1	16.1	18.7	16.7	17.4	19.7	17.7
Homicide and Legal Intervention							
Number	194	195	198	190	202	208	199
Age-Adjusted Rate	4.2	3.9	4.0	3.8	3.9	4.0	3.9
Work-Related Injury							
Number	95	90	67	75	72	73	75
Age-Adjusted Rate	2.1	1.8	1.3	1.4	1.3	1.3	1.4

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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, 2012

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	33,127	100.0	27,415	100.0	3,672	100.0	1,266	100.0	466	100.0	272	100.0
Cardiovascular Disease	8,554	25.8	7,233	26.4	787	21.4	335	26.5	130	27.9	58	21.3
Heart Disease	6,306	19.0	5,378	19.6	557	15.2	239	18.9	83	17.8	40	14.7
Cerebrovascular Disease	1,565	4.7	1,294	4.7	163	4.4	63	5.0	31	6.7	14	5.1
Atherosclerosis	150	0.5	128	0.5	15	0.4	4	0.3	*	*	*	*
Malignant Neoplasms	7,314	22.1	6,085	22.2	744	20.3	292	23.1	135	29.0	54	19.9
Lung Cancer	1,590	4.8	1,355	4.9	126	3.4	64	5.1	35	7.5	10	3.7
Breast Cancer	585	1.8	491	1.8	54	1.5	26	2.1	11	2.4	3	1.1
Chronic Lower Respiratory Disease	2,237	6.8	2,021	7.4	139	3.8	47	3.7	17	3.6	11	4.0
Unintentional Injuries	2,404	7.3	1,869	6.8	387	10.5	84	6.6	27	5.8	28	10.3
Motor Vehicle	457	1.4	327	1.2	103	2.8	13	1.0	4	0.9	8	2.9
Other Unintentional Injuries	1,947	5.9	1,542	5.6	284	7.7	71	5.6	23	4.9	20	7.4
Pneumonia and Influenza	524	1.6	454	1.7	44	1.2	12	0.9	11	2.4	*	*
Suicide	1,053	3.2	893	3.3	105	2.9	24	1.9	16	3.4	15	5.5
Diabetes Mellitus	798	2.4	550	2.0	175	4.8	52	4.1	12	2.6	8	2.9
HIV Infection	45	0.1	29	0.1	12	0.3	3	0.2	0	0.0	*	*
Chronic Liver Disease and Cirrhosis	661	2.0	445	1.6	168	4.6	20	1.6	5	1.1	22	8.1
Alzheimer's Disease	1,319	4.0	1,181	4.3	82	2.2	41	3.2	13	2.8	*	*
Nephritis, Nephrosis, Nephrotic Syndrome	429	1.3	339	1.2	57	1.6	19	1.5	8	1.7	6	2.2
Homicide and Legal Intervention	208	0.6	100	0.4	60	1.6	36	2.8	5	1.1	7	2.6
Septicemia	376	1.1	296	1.1	53	1.4	18	1.4	5	1.1	3	1.1
Congenital Anomalies	129	0.4	73	0.3	30	0.8	17	1.3	6	1.3	*	*
Perinatal Period Conditions	153	0.5	80	0.3	48	1.3	20	1.6	3	0.6	*	*
All Other	6,923	20.9	5,767	21.0	781	21.3	246	19.4	73	15.7	52	19.1
Injury by Firearm	672	2.0	532	1.9	81	2.2	37	2.9	6	1.3	15	5.5
Drug-Induced Deaths	827	2.5	666	2.4	114	3.1	28	2.2	6	1.3	10	3.7
Alcohol-Induced Deaths	736	2.2	526	1.9	141	3.8	33	2.6	6	1.3	28	10.3
Work-Related Injury (Y/N Check Death Certificate)	73	0.2	53	0.2	13	0.4	3	0.2	*	*	*	*

* 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, 2012

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	33,127	5,188,683	6.4
Infant	298	65,188	4.6
Neonatal	212	65,188	3.3
1-4	65	272,222	0.2
5-9	37	356,426	0.1
10-14	50	346,797	0.1
15-19	146	350,947	0.4
20-24	308	349,576	0.9
25-29	376	367,271	1.0
30-34	404	375,911	1.1
35-39	440	348,392	1.3
40-44	650	364,084	1.8
45-49	948	352,857	2.7
50-54	1,487	379,075	3.9
55-59	2,068	349,505	5.9
60-64	2,455	294,497	8.3
65-69	2,640	215,539	12.2
70-74	2,690	143,701	18.7
75-79	3,291	102,374	32.1
80-84	4,332	77,475	55.9
85+	10,440	76,704	136.1
1-14	152	975,446	0.2
15-24	454	700,524	0.6
25-64	8,828	2,831,593	3.1
65+	23,393	615,794	38.0

* indicates one or two events in the category.

Infant death is death in the first year of life. Neonatal death is death occurring prior to the 28th day of life.

Infant and neonatal mortality rates are per 1,000 live births. Other death rates are per 1,000 population of the age group. Population figures for infant and neonatal groups are live births.

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

Deaths and age-specific death rates from selected causes: Colorado residents, 2012

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	298	4.6	152	0.2	454	0.6	1,870	1.3	6,958	5.1	23,393	38.0
Cardiovascular Disease	*	*	9	0.0	13	0.0	195	0.1	1,478	1.1	6,856	11.1
Heart Disease	*	*	7	0.0	11	0.0	159	0.1	1,186	0.9	4,940	8.0
Cerebrovascular Disease	0	0.0	*	*	*	*	27	0.0	211	0.2	1,324	2.2
Atherosclerosis	0	0.0	0	0.0	0	0.0	0	0.0	10	0.0	140	0.2
Malignant Neoplasms	*	*	21	0.0	19	0.0	197	0.1	2,064	1.5	5,012	8.1
Lung Cancer	0	0.0	0	0.0	0	0.0	9	0.0	400	0.3	1,181	1.9
Breast Cancer	0	0.0	0	0.0	0	0.0	32	0.0	216	0.2	337	0.5
Chronic Lower Respiratory Diseases	0	0.0	*	*	*	*	14	0.0	286	0.2	1,933	3.1
Unintentional Injuries	25	0.4	43	0.0	190	0.3	537	0.4	655	0.5	954	1.5
Motor Vehicle	0	0.0	17	0.0	90	0.1	133	0.1	130	0.1	87	0.1
Other Unintentional Injuries	25	0.4	26	0.0	100	0.1	404	0.3	525	0.4	867	1.4
Pneumonia and Influenza	*	*	6	0.0	0	0.0	13	0.0	52	0.0	451	0.7
Suicide	0	0.0	13	0.0	128	0.2	362	0.2	418	0.3	132	0.2
Diabetes Mellitus	0	0.0	0	0.0	5	0.0	29	0.0	202	0.1	562	0.9
HIV Infection	0	0.0	0	0.0	0	0.0	10	0.0	30	0.0	5	0.0
Chronic Liver Disease and Cirrhosis	0	0.0	0	0.0	0	0.0	89	0.1	405	0.3	166	0.3
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	8	0.0	1,311	2.1
Nephritis, Nephrosis, Nephrotic Syndrome	*	*	0	0.0	*	*	10	0.0	48	0.0	368	0.6
Homicide and Legal Intervention	7	0.1	11	0.0	43	0.1	88	0.1	44	0.0	15	0.0
Septicemia	0	0.0	3	0.0	0	0.0	13	0.0	64	0.0	296	0.5
Congenital Anomalies	64	1.0	9	0.0	7	0.0	9	0.0	28	0.0	12	0.0
Perinatal Period Conditions	152	2.3	*	*	0	0.0	0	0.0	0	0.0	0	0.0
All Other	44	0.7	34	0.0	45	0.1	304	0.2	1,176	0.9	5,320	8.6
Injury by Firearm	0	0.0	10	0.0	86	0.1	240	0.2	245	0.2	91	0.1
Drug-Induced Deaths	0	0.0	*	*	65	0.1	343	0.2	364	0.3	53	0.1
Alcohol-Induced Deaths	0	0.0	0	0.0	4	0.0	137	0.1	469	0.3	125	0.2
Work-Related Injury (Y/N Check Death Certificate)	0	0.0	*	*	5	0.0	25	0.0	36	0.0	6	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, 2012**

Cause of Death	N	Rate	Age-Adjusted Rate	Lower Limit	Upper Limit
All Causes	33,127	638.4	662.8	655.8	669.8
Cardiovascular Disease	8,554	164.9	173.0	169.3	176.7
Heart Disease	6,306	121.5	126.7	123.5	129.8
Cerebrovascular Disease	1,565	30.2	32.3	30.7	33.9
Atherosclerosis	150	2.9	3.1	2.6	3.6
Malignant Neoplasms	7,314	141.0	142.6	139.3	145.9
Lung Cancer	1,590	30.6	31.2	29.7	32.8
Breast Cancer	585	11.3	11.1	10.2	12.1
Chronic Lower Respiratory Diseases	2,237	43.1	46.4	44.4	48.3
Unintentional Injuries	2,404	46.3	47.0	45.1	48.9
Motor Vehicle	457	8.8	8.7	7.9	9.6
Other Unintentional Injuries	1,928	37.2	37.9	36.2	39.6
Pneumonia and Influenza	524	10.1	10.9	9.9	11.8
Suicide	1,053	20.3	19.7	18.5	20.9
Diabetes Mellitus	798	15.4	15.8	14.7	16.9
HIV Infection	45	0.9	0.8	0.6	1.0
Chronic Liver Disease and Cirrhosis	661	12.7	11.7	10.8	12.6
Alzheimer's Disease	1,319	25.4	28.2	26.7	29.8
Nephritis, Nephrosis, Nephrotic Syndrome	429	8.3	8.9	8.1	9.8
Homicide and Legal Intervention	208	4.0	4.0	3.5	4.6
Septicemia	376	7.2	7.6	6.8	8.4
Congenital Anomalies	129	2.5	2.5	2.1	3.0
Perinatal Period Conditions	153	2.9	3.2	2.7	3.7
All Other	6,923	133.4	140.5	137.1	143.8
Injury by Firearm	672	13.0	12.6	11.6	13.6
Drug-Induced Deaths	827	15.9	15.4	14.3	16.4
Alcohol-Induced Deaths	736	14.2	13.0	12.0	13.9
Work-Related Injury (Y/N Check Death Certificate)	73	1.4	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)^{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.