

Colorado Births and Deaths 2008

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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, 2008

Characteristic	Number	Percent
Total Live Births	70,028	100.0
Age of Mother		
10-17	2,221	3.2
18-19	4,427	6.3
20-29	35,326	50.5
30+	28,047	40.1
Low Weight Births (<2,500 Grams)	6,263	8.9
Very Low Weight Births (<1,500 Grams)	928	1.3
Prenatal Care Later than 1st Trimester/No Care	15,687	23.1
No Prenatal Care	1,034	1.5
Preterm Births (<37 Weeks)	6,715	9.6
Education of Mother <High School Diploma/GED	14,599	21.1
Live Births to Unmarried Women	17,525	25.1
Smoking During Pregnancy	6,037	8.7

"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 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, 2008

Characteristic	All Ages		10-17		18-19		20-29		30+	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total Live Births	70,028	100.0	2,221	100.0	4,427	100.0	35,326	100.0	28,047	100.0
Race/Ethnicity of Mother										
White Non-Hispanic	41,362	60.3	595	27.8	1,706	39.8	19,782	57.2	19,274	69.9
White Hispanic	18,882	27.5	1,200	56.1	1,894	44.2	10,453	30.2	5,335	19.3
Black	3,383	4.9	164	7.7	351	8.2	1,896	5.5	972	3.5
Other	4,972	7.2	179	8.4	334	7.8	2,460	7.1	1,999	7.2
Low Weight Births (<2,500 Grams)	6,263	8.9	234	10.5	466	10.5	2,933	8.3	2,629	9.4
Very Low Weight Births (<1,500 Grams)	928	1.3	46	2.1	74	1.7	420	1.2	388	1.4
Prenatal Care Later than 1st Trimester/No Care	15,687	23.1	957	44.4	1,651	38.5	8,663	25.2	4,413	16.2
No Prenatal Care	1,034	1.5	57	2.6	87	2.0	563	1.6	326	1.2
Preterm Births (<37 Weeks)	6,715	9.6	205	9.3	425	9.6	3,131	8.9	2,952	10.5
Education of Mother <High School Diploma/GED	14,599	21.1	1,969	89.9	1,995	45.6	7,386	21.2	3,248	11.7
Live Births to Unmarried Women	17,525	25.0	1,844	83.0	2,792	63.1	9,910	28.1	2,979	10.6
Smoking During Pregnancy	6,037	8.7	218	9.9	623	14.1	3,858	11.0	1,338	4.8

"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 of mother unknown.

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

See technical notes at www.cdph.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, 2008

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	41,362	100.0	18,882	100.0	3,383	100.0	2,405	100.0	690	100.0
Age of Mother										
10-17	595	1.4	1,200	6.4	164	4.8	13	0.5	47	6.8
18-19	1,706	4.1	1,894	10.0	351	10.4	63	2.6	78	11.3
20-29	19,782	47.8	10,453	55.4	1,896	56.0	1,018	42.3	394	57.1
30+	19,274	46.6	5,335	28.3	972	28.7	1,311	54.5	171	24.8
Low Weight Births (<2,500 Grams)	3,525	8.5	1,629	8.6	513	15.2	281	11.7	58	8.4
Very Low Weight Births (<1,500 Grams)	458	1.1	278	1.5	112	3.3	39	1.6	12	1.7
Prenatal Care Later than 1st Trimester/No Care	6,793	16.8	6,067	33.2	1,137	34.8	520	22.5	221	34.1
No Prenatal Care	386	1.0	458	2.5	89	2.7	26	1.1	28	4.3
Preterm Births (<37 Weeks)	3,929	9.5	1,715	9.1	473	14.0	266	11.1	63	9.1
Education of Mother <High School Diploma/GED	3,107	7.6	9,045	48.6	685	20.6	218	9.2	202	29.4
Live Births to Unmarried Women	7,309	17.7	6,741	35.7	1,690	50.0	300	12.5	320	46.4
Smoking During Pregnancy	4,417	10.7	977	5.2	307	9.1	67	2.8	81	12.1

"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 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, 2008**

Age Group	Births	Population	Fertility Rate	Lower Limit	Upper Limit
All Ages	70,028	1,039,186	67.4	66.9	67.9
Teen Age Groups		*			
13-14	78	63,655	1.2	0.9	1.5
15-17	2,142	100,252	21.4	20.5	22.3
18-19	4,427	76,544	57.8	56.2	59.5
10-17	2,221	259,246	8.6	8.2	8.9
10-19	6,648	335,790	19.8	19.3	20.3
All Age Groups		*			
10-14	79	158,994	0.5	0.4	0.6
15-19	6,569	176,796	37.2	36.3	38.0
20-24	15,870	183,793	86.3	85.1	87.6
25-29	19,456	153,373	126.9	125.2	128.5
30-34	16,979	166,159	102.2	100.7	103.6
35-39	9,038	182,395	49.6	48.6	50.6
40-49	2,022	371,931	5.4	5.2	5.7

** 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, 1998, 2004-2008

	1998	2004	2005	2006	2007	2008	2004-2008 Annual Average
Total Population	4,102,500	4,664,070	4,731,797	4,827,423	4,919,155	5,006,798	4,829,849
Total Births							
Number	59,550	68,475	68,922	70,737	70,804	70,028	69,793
Birth Rate	14.5	14.7	14.6	14.7	14.4	14.0	14.5
General Fertility Rate	63.3	68.3	68.6	69.6	68.9	67.4	68.6
Age of Mother 10-17							
Number	2,670	2,457	2,377	2,424	2,297	2,221	2,355
Percent of Total Births	4.5	3.6	3.4	3.4	3.2	3.2	3.4
Fertility Rate	11.8	9.7	9.4	9.5	8.9	8.6	9.2
Low Weight Births (<2,500 Grams)							
Number	5,168	6,172	6,379	6,379	6,397	6,263	6,318
Percent	8.7	9.0	9.3	9.0	9.0	8.9	9.1
Prenatal Care Later Than 1st Trimester/No Care							
Number	10,526	13,296	13,492	14,076	15,129	15,687	14,336
Percent	17.8	19.8	19.9	20.3	21.9	23.1	21.0
Births to Unmarried Women							
Number	15,181	18,823	18,648	19,547	18,062	17,525	
Percent	25.5	27.5	27.1	27.6	25.5	25.0	
Mother's Education <12 Years							
Number	11,370	15,469	14,967	14,702	14,804	14,599	
Percent	19.4	22.8	22.1	21.4	20.9	20.8	
Infant Deaths							
Number	396	432	444	404	433	434	429
Rate	6.6	6.3	6.4	5.7	6.1	6.2	6.2
Neonatal Deaths							
Number	262	304	329	309	296	311	310
Rate	4.4	4.4	4.8	4.4	4.2	4.4	4.4
Total Deaths							
Number	26,582	28,227	29,521	29,413	29,888	31,205	29,651
Crude Rate	647.9	605.2	623.9	609.3	607.6	623.3	613.9
Age-Adjusted Rate	815.2	741.9	759.0	739.2	733.0	750.4	744.6
Cardiovascular Disease							
Number	8,461	8,652	8,845	8,482	8,411	8,363	8,551
Age-Adjusted Rate	269.7	238.0	237.8	222.1	214.8	209.1	224.0
Heart Disease							
Number	6,614	6,047	6,282	6,099	6,073	6,132	6,127

(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, 1998, 2004-2008

	1998	2004	2005	2006	2007	2008	2004-2008 Annual Average
Age-Adjusted Rate	209.9	164.8	167.5	158.2	153.6	152.1	159.1
Cerebrovascular Disease							
Number	1,731	1,633	1,595	1,525	1,589	1,531	1,575
Age-Adjusted Rate	56.1	45.5	43.6	40.7	41.5	39.1	42.0
Malignant Neoplasms							
Number	5,798	6,185	6,367	6,523	6,590	6,709	6,475
Age-Adjusted Rate	174.9	159.2	159.5	159.3	157.1	156.1	158.2
Lung Cancer							
Number	1,411	1,499	1,523	1,551	1,579	1,598	1,550
Age-Adjusted Rate	42.9	39.0	38.5	38.2	38.0	37.6	38.2
Breast Cancer							
Number	451	511	524	493	456	492	495
Age-Adjusted Rate	13.0	12.4	12.5	11.5	10.4	10.8	11.5
Total Unintentional Injuries							
Number	1,462	1,791	1,928	1,888	2,029	2,159	1,959
Age-Adjusted Rate	38.8	41.5	43.5	42.0	44.6	46.8	43.7
Motor Vehicle							
Number	659	691	662	570	577	579	616
Age-Adjusted Rate	16.1	14.9	13.8	11.7	11.8	11.8	12.8
Other Unintentional Injuries							
Number	803	1,100	1,266	1,318	1,452	1,580	1,343
Age-Adjusted Rate	22.7	26.6	29.6	30.3	32.8	34.9	30.9
Chronic Lower Respiratory Diseases							
Number	1,834	1,899	1,908	1,930	1,997	2,178	1,982
Age-Adjusted Rate	58.1	52.2	51.4	50.7	51.1	55.0	52.1
Suicide							
Number	600	792	795	724	805	801	783
Age-Adjusted Rate	15.1	16.8	16.8	14.9	16.2	15.8	16.1
Homicide and Legal Intervention							
Number	184	231	190	188	176	195	196
Age-Adjusted Rate	4.3	4.8	3.9	3.8	3.5	3.8	4.0
Work-Related Injury							
Number	78	82	93	100	91	90	91
Age-Adjusted Rate	1.9	1.7	1.9	2.0	1.8	1.8	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.

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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, 2008

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	31,205	100.0	26,057	100.0	3,419	100.0	1,121	100.0	364	100.0	197	100.0
Cardiovascular Disease	8,363	26.8	7,125	27.3	776	22.7	304	27.1	105	28.8	38	19.3
Heart Disease	6,132	19.7	5,259	20.2	548	16.0	223	19.9	62	17.0	26	13.2
Cerebrovascular Disease	1,531	4.9	1,272	4.9	161	4.7	55	4.9	34	9.3	9	4.6
Atherosclerosis	176	0.6	151	0.6	14	0.4	6	0.5	3	0.8	*	*
Malignant Neoplasms	6,709	21.5	5,701	21.9	663	19.4	228	20.3	73	20.1	40	20.3
Lung Cancer	1,598	5.1	1,408	5.4	117	3.4	42	3.7	20	5.5	9	4.6
Breast Cancer	492	1.6	422	1.6	40	1.2	23	2.1	4	1.1	3	1.5
Chronic Lower Respiratory Disease	2,178	7.0	2,003	7.7	123	3.6	35	3.1	9	2.5	6	3.0
Unintentional Injuries	2,159	6.9	1,692	6.5	329	9.6	77	6.9	26	7.1	26	13.2
Motor Vehicle	579	1.9	406	1.6	131	3.8	22	2.0	12	3.3	5	2.5
Other Unintentional Injuries	1,580	5.1	1,286	4.9	198	5.8	55	4.9	14	3.8	21	10.7
Pneumonia and Influenza	683	2.2	566	2.2	76	2.2	21	1.9	12	3.3	5	2.5
Suicide	801	2.6	678	2.6	79	2.3	21	1.9	15	4.1	6	3.0
Diabetes Mellitus	765	2.5	533	2.0	161	4.7	51	4.5	13	3.6	7	3.6
HIV Infection	57	0.2	38	0.1	7	0.2	11	1.0	0	0.0	*	*
Chronic Liver Disease and Cirrhosis	539	1.7	380	1.5	126	3.7	16	1.4	4	1.1	13	6.6
Alzheimer's Disease	1,351	4.3	1,207	4.6	93	2.7	36	3.2	11	3.0	*	*
Nephritis, Nephrosis, Nephrotic Syndrome	482	1.5	372	1.4	69	2.0	27	2.4	9	2.5	5	2.5
Homicide and Legal Intervention	195	0.6	83	0.3	75	2.2	33	2.9	*	*	3	1.5
Septicemia	322	1.0	262	1.0	40	1.2	12	1.1	3	0.8	5	2.5
Congenital Anomalies	179	0.6	108	0.4	50	1.5	16	1.4	3	0.8	0	0.0
Perinatal Period Conditions	213	0.7	91	0.3	84	2.5	28	2.5	8	2.2	*	*
All Other	6,209	19.9	5,218	20.0	668	19.5	205	18.3	72	19.8	38	19.3
Injury by Firearm	510	1.6	397	1.5	71	2.1	32	2.9	5	1.4	4	2.0
Drug-Induced Deaths	750	2.4	575	2.2	112	3.3	44	3.9	*	*	13	6.6
Alcohol-Induced Deaths	654	2.1	489	1.9	120	3.5	25	2.2	0	0.0	18	9.1
Work-Related Injury (Y/N Check Death Certificate)	90	0.3	69	0.3	16	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, 2008

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	31,205	5,006,798	6.2
Infant	434	70,028	6.2
Neonatal	311	70,028	4.4
1-4	72	287,021	0.3
5-9	44	352,384	0.1
10-14	56	326,363	0.2
15-19	194	363,012	0.5
20-24	306	385,304	0.8
25-29	287	320,420	0.9
30-34	352	345,788	1.0
35-39	466	382,130	1.2
40-44	648	363,291	1.8
45-49	1,153	392,871	2.9
50-54	1,482	371,306	4.0
55-59	1,826	321,195	5.7
60-64	2,002	235,919	8.5
65-69	2,191	145,296	15.1
70-74	2,631	121,705	21.6
75-79	3,443	99,909	34.5
80-84	4,332	65,410	66.2
85+	9,284	56,407	164.6
1-14	172	965,768	0.2
15-24	500	748,316	0.7
25-64	8,216	2,732,921	3.0
65+	21,881	488,725	44.8

* 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, 2008

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	434	6.2	172	0.2	500	0.7	1,753	1.2	6,463	4.9	21,881	44.8
Cardiovascular Disease	8	0.1	8	0.0	23	0.0	197	0.1	1,375	1.0	6,752	13.8
Heart Disease	4	0.1	8	0.0	17	0.0	153	0.1	1,115	0.8	4,835	9.9
Cerebrovascular Disease	3	0.0	0	0.0	4	0.0	38	0.0	178	0.1	1,308	2.7
Atherosclerosis	0	0.0	0	0.0	0	0.0	0	0.0	7	0.0	169	0.3
Malignant Neoplasms	0	0.0	25	0.0	21	0.0	226	0.2	1,918	1.5	4,519	9.2
Lung Cancer	0	0.0	0	0.0	*	*	23	0.0	414	0.3	1,160	2.4
Breast Cancer	0	0.0	0	0.0	0	0.0	19	0.0	206	0.2	267	0.5
Chronic Lower Respiratory Diseases	0	0.0	*	*	*	*	10	0.0	273	0.2	1,892	3.9
Unintentional Injuries	17	0.2	50	0.1	213	0.3	515	0.4	598	0.5	766	1.6
Motor Vehicle	3	0.0	24	0.0	123	0.2	180	0.1	145	0.1	104	0.2
Other Unintentional Injuries	14	0.2	26	0.0	90	0.1	335	0.2	453	0.3	662	1.4
Pneumonia and Influenza	5	0.1	*	*	6	0.0	22	0.0	94	0.1	555	1.1
Suicide	0	0.0	6	0.0	109	0.1	242	0.2	336	0.3	108	0.2
Diabetes Mellitus	0	0.0	*	*	*	*	33	0.0	174	0.1	556	1.1
HIV Infection	0	0.0	0	0.0	0	0.0	24	0.0	28	0.0	5	0.0
Chronic Liver Disease and Cirrhosis	*	*	0	0.0	*	*	65	0.0	334	0.3	138	0.3
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	12	0.0	1,339	2.7
Nephritis, Nephrosis, Nephrotic Syndrome	*	*	0	0.0	3	0.0	9	0.0	62	0.0	407	0.8
Homicide and Legal Intervention	6	0.1	14	0.0	44	0.1	81	0.1	42	0.0	7	0.0
Septicemia	3	0.0	*	*	0	0.0	14	0.0	62	0.0	242	0.5
Congenital Anomalies	97	1.4	15	0.0	7	0.0	14	0.0	28	0.0	18	0.0
Perinatal Period Conditions	211	3.0	*	*	0	0.0	0	0.0	0	0.0	0	0.0
All Other	85	1.2	47	0.0	71	0.1	301	0.2	1,127	0.9	4,577	9.4
Injury by Firearm	0	0.0	5	0.0	82	0.1	159	0.1	181	0.1	82	0.2
Drug-Induced Deaths	0	0.0	3	0.0	61	0.1	288	0.2	347	0.3	51	0.1
Alcohol-Induced Deaths	0	0.0	0	0.0	6	0.0	122	0.1	444	0.3	82	0.2
Work-Related Injury (Y/N Check Death Certificate)	0	0.0	0	0.0	9	0.0	34	0.0	36	0.0	11	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, 2008**

Cause of Death	N	Rate	Age-Adjusted Rate	Lower Limit	Upper Limit
All Causes	31,205	623.3	750.4	742.3	758.6
Cardiovascular Disease	8,363	167.0	209.1	204.7	213.6
Heart Disease	6,132	122.5	152.1	148.3	155.9
Cerebrovascular Disease	1,531	30.6	39.1	37.1	41.1
Atherosclerosis	176	3.5	4.7	4.0	5.4
Malignant Neoplasms	6,709	134.0	156.1	152.3	159.9
Lung Cancer	1,598	31.9	37.6	35.7	39.5
Breast Cancer	492	9.8	10.8	9.8	11.8
Chronic Lower Respiratory Diseases	2,178	43.5	55.0	52.7	57.3
Unintentional Injuries	2,159	43.1	46.8	44.7	48.8
Motor Vehicle	579	11.6	11.8	10.8	12.8
Other Unintentional Injuries	1,558	31.1	34.5	32.7	36.2
Pneumonia and Influenza	683	13.6	17.3	16.0	18.6
Suicide	801	16.0	15.8	14.7	16.9
Diabetes Mellitus	765	15.3	18.3	17.0	19.6
HIV Infection	57	1.1	1.1	0.8	1.4
Chronic Liver Disease and Cirrhosis	539	10.8	10.6	9.7	11.5
Alzheimer's Disease	1,351	27.0	36.6	34.7	38.6
Nephritis, Nephrosis, Nephrotic Syndrome	482	9.6	12.2	11.1	13.3
Homicide and Legal Intervention	195	3.9	3.8	3.3	4.4
Septicemia	322	6.4	7.8	7.0	8.7
Congenital Anomalies	179	3.6	3.6	3.0	4.1
Perinatal Period Conditions	213	4.3	4.1	3.6	4.7
All Other	6,209	124.0	152.1	148.3	155.9
Injury by Firearm	510	10.2	10.2	9.3	11.1
Drug-Induced Deaths	750	15.0	14.5	13.5	15.6
Alcohol-Induced Deaths	654	13.1	12.3	11.3	13.2
Work-Related Injury (Y/N Check Death Certificate)	90	1.8	1.8	1.4	2.1

** 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.