

Arapahoe County Births and Deaths 2008

Selected birth characteristics: County residents, 2008	2
Selected birth characteristics by age group of mother: County residents, 2008	3
Selected birth characteristics by race/ethnicity of mother: County residents, 2008	4
Live births and fertility rates: County residents, 2008	5
Vital statistics summary: County residents, 1998, 2004-2008	6
Deaths from selected causes by race/ethnicity: County residents, 2008	8
Deaths and age-specific death rates: County residents, 2008	9
Deaths and age-specific death rates from selected causes: County residents, 2008	10
Deaths, crude death rates and age-adjusted death rates from selected causes: County residents, 2008	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: Arapahoe County residents, 2008

Characteristic	Number	Percent
Total Live Births	8,211	100.0
Age of Mother		
10-17	234	2.8
18-19	494	6.0
20-29	4,187	51.0
30+	3,296	40.1
Low Weight Births (<2,500 Grams)	831	10.1
Very Low Weight Births (<1,500 Grams)	139	1.7
Prenatal Care Later than 1st Trimester/No Care	1,799	22.6
No Prenatal Care	169	2.1
Preterm Births (<37 Weeks)	886	10.8
Education of Mother <High School Diploma/GED	1,715	21.3
Live Births to Unmarried Women	2,055	25.1
Smoking During Pregnancy	422	5.2

"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: Arapahoe County 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	8,211	100.0	234	100.0	494	100.0	4,187	100.0	3,296	100.0
Race/Ethnicity of Mother										
White Non-Hispanic	4,249	52.2	54	23.4	172	35.2	2,084	50.3	1,939	59.3
White Hispanic	2,210	27.2	119	51.5	207	42.4	1,190	28.7	694	21.2
Black	1,030	12.7	47	20.3	86	17.6	570	13.7	327	10.0
Other	649	8.0	11	4.8	23	4.7	303	7.3	312	9.5
Low Weight Births (<2,500 Grams)	831	10.1	32	13.7	60	12.1	392	9.4	347	10.5
Very Low Weight Births (<1,500 Grams)	139	1.7	9	3.8	10	2.0	61	1.5	59	1.8
Prenatal Care Later than 1st Trimester/No Care	1,799	22.6	93	40.6	185	38.8	970	23.9	551	17.2
No Prenatal Care	169	2.1	7	3.1	13	2.7	100	2.5	49	1.5
Preterm Births (<37 Weeks)	886	10.8	30	12.9	55	11.1	410	9.8	391	11.9
Education of Mother <High School Diploma/GED	1,715	21.3	201	87.8	223	46.3	872	21.3	419	13.0
Live Births to Unmarried Women	2,055	25.0	193	82.5	322	65.2	1,143	27.3	397	12.0
Smoking During Pregnancy	422	5.2	9	3.8	45	9.1	276	6.6	92	2.8

"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: Arapahoe County 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	4,249	100.0	2,210	100.0	1,030	100.0	443	100.0	50	100.0
Age of Mother										
10-17	54	1.3	119	5.4	47	4.6	5	1.1	*	*
18-19	172	4.0	207	9.4	86	8.3	7	1.6	6	12.0
20-29	2,084	49.0	1,190	53.8	570	55.3	194	43.8	32	64.0
30+	1,939	45.6	694	31.4	327	31.7	237	53.5	11	22.0
Low Weight Births (<2,500 Grams)	389	9.2	212	9.6	148	14.4	61	13.8	3	6.0
Very Low Weight Births (<1,500 Grams)	44	1.0	45	2.0	37	3.6	10	2.3	*	*
Prenatal Care Later than 1st Trimester/No Care	669	16.1	677	31.8	295	29.6	86	20.0	11	23.4
No Prenatal Care	53	1.3	82	3.9	20	2.0	8	1.9	0	0.0
Preterm Births (<37 Weeks)	433	10.2	211	9.6	151	14.7	61	13.8	4	8.0
Education of Mother <High School Diploma/GED	334	7.9	1,080	50.5	192	19.1	32	7.4	9	18.0
Live Births to Unmarried Women	758	17.8	664	30.0	496	48.2	48	10.8	20	40.0
Smoking During Pregnancy	312	7.3	44	2.0	47	4.6	5	1.1	3	6.0

"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: Arapahoe County residents, 2008

Age Group	Births	Population	Fertility Rate	Lower Limit	Upper Limit
All Ages	8,211	116,867	70.3	68.8	71.7
Teen Age Groups		*			
13-14	12	7,210	1.7	0.7	2.7
15-17	222	11,540	19.2	16.7	21.8
18-19	494	7,874	62.7	57.3	68.2
10-17	234	29,414	8.0	6.9	9.0
10-19	728	37,288	19.5	18.1	20.9
All Age Groups		*			
10-14	12	17,874	0.7	0.3	1.1
15-19	716	19,414	36.9	34.2	39.6
20-24	1,799	20,402	88.2	84.3	92.1
25-29	2,388	17,045	140.1	134.9	145.3
30-34	2,026	18,843	107.5	103.1	112.0
35-39	1,016	20,915	48.6	45.6	51.5
40-49	252	43,378	5.8	5.1	6.5

** 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: Arapahoe County residents, 1998, 2004-2008

	1998	2004	2005	2006	2007	2008	2004-2008 Annual Average
Total Population	472,406	527,434	533,096	541,260	551,730	562,007	543,105
Total Births							
Number	6,754	8,056	7,992	8,260	8,226	8,211	8,149
Birth Rate	14.3	15.3	15.0	15.3	14.9	14.6	15.0
General Fertility Rate	60.4	70.2	70.1	72.2	71.2	70.3	70.8
Age of Mother 10-17							
Number	200	252	237	247	224	234	239
Percent of Total Births	3.0	3.1	3.0	3.0	2.7	2.8	2.9
Fertility Rate	7.1	8.4	8.0	8.4	7.6	8.0	8.1
Low Weight Births (<2,500 Grams)							
Number	627	731	775	786	799	831	784
Percent	9.3	9.1	9.7	9.5	9.7	10.1	9.6
Prenatal Care Later Than 1st Trimester/No Care							
Number	774	1,570	1,034	1,048	1,515	1,799	1,393
Percent	11.7	20.1	13.4	13.2	19.1	22.6	17.7
Births to Unmarried Women							
Number	1,520	2,227	2,173	2,332	2,136	2,055	
Percent	22.5	27.6	27.2	28.2	26.0	25.0	
Mother's Education <12 Years							
Number	838	1,653	1,658	1,611	1,669	1,715	
Percent	12.8	20.8	21.6	20.6	20.3	20.9	
Infant Deaths							
Number	52	53	49	42	66	59	54
Rate	7.7	6.6	6.1	5.1	8.0	7.2	6.6
Neonatal Deaths							
Number	41	39	38	35	46	40	40
Rate	6.1	4.8	4.8	4.2	5.6	4.9	4.9
Total Deaths							
Number	2,656	2,904	2,985	3,062	3,102	3,219	3,054
Crude Rate	562.2	550.6	559.9	565.7	562.2	572.8	562.4
Age-Adjusted Rate	797.7	707.1	705.3	716.6	697.6	703.3	705.9
Cardiovascular Disease							
Number	823	874	904	904	819	786	857
Age-Adjusted Rate	263.9	222.4	223.1	222.0	192.4	178.6	207.0
Heart Disease							
Number	640	614	647	656	602	559	616
Age-Adjusted Rate	204.0	153.0	158.1	158.8	139.9	125.2	146.6

(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: Arapahoe County residents, 1998, 2004-2008

	1998	2004	2005	2006	2007	2008	2004-2008 Annual Average
Cerebrovascular Disease							
Number	171	157	152	154	153	155	154
Age-Adjusted Rate	55.8	41.5	38.5	39.2	36.6	36.4	38.4
Malignant Neoplasms							
Number	641	618	623	671	694	696	660
Age-Adjusted Rate	184.7	146.7	142.8	151.3	152.5	143.7	147.4
Lung Cancer							
Number	139	131	144	158	151	182	153
Age-Adjusted Rate	41.1	31.7	33.3	36.3	33.9	38.2	34.8
Breast Cancer							
Number	53	60	61	60	48	53	56
Age-Adjusted Rate	14.6	13.1	13.0	12.7	10.2	10.4	11.8
Total Unintentional Injuries							
Number	143	205	180	162	203	216	193
Age-Adjusted Rate	36.1	43.1	36.7	32.6	40.0	41.2	38.7
Motor Vehicle							
Number	60	68	60	42	45	45	52
Age-Adjusted Rate	13.2	13.2	11.0	7.7	8.4	8.4	9.7
Other Unintentional Injuries							
Number	83	137	120	120	158	171	141
Age-Adjusted Rate	22.9	29.9	25.7	24.9	31.6	32.8	29.0
Chronic Lower Respiratory Diseases							
Number	152	164	172	177	179	243	187
Age-Adjusted Rate	47.9	43.0	43.1	43.4	42.9	56.8	46.0
Suicide							
Number	58	83	77	78	90	88	83
Age-Adjusted Rate	12.6	15.2	14.3	14.5	15.9	15.1	15.0
Homicide and Legal Intervention							
Number	24	29	28	30	18	15	24
Age-Adjusted Rate	5.1	5.6	5.0	5.5	3.2	2.6	4.4
Work-Related Injury							
Number	5	7	7	6	6	7	7
Age-Adjusted Rate	1.0	1.3	1.2	1.2	1.0	1.3	1.2

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: Arapahoe County 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	3,219	100.0	2,700	100.0	197	100.0	224	100.0	80	100.0	12	100.0
Cardiovascular Disease	786	24.4	654	24.2	50	25.4	52	23.2	24	30.0	3	25.0
Heart Disease	559	17.4	457	16.9	43	21.8	43	19.2	11	13.8	*	*
Cerebrovascular Disease	155	4.8	136	5.0	3	1.5	7	3.1	8	10.0	*	*
Atherosclerosis	25	0.8	22	0.8	*	*	0	0.0	*	*	0	0.0
Malignant Neoplasms	696	21.6	580	21.5	36	18.3	57	25.4	19	23.8	*	*
Lung Cancer	182	5.7	160	5.9	3	1.5	10	4.5	7	8.8	*	*
Breast Cancer	53	1.6	42	1.6	*	*	9	4.0	*	*	0	0.0
Chronic Lower Respiratory Disease	243	7.5	231	8.6	*	*	7	3.1	3	3.8	0	0.0
Unintentional Injuries	216	6.7	176	6.5	18	9.1	14	6.3	5	6.3	*	*
Motor Vehicle	45	1.4	31	1.1	6	3.0	5	2.2	*	*	0	0.0
Other Unintentional Injuries	171	5.3	145	5.4	12	6.1	9	4.0	3	3.8	*	*
Pneumonia and Influenza	65	2.0	51	1.9	*	*	6	2.7	6	7.5	0	0.0
Suicide	88	2.7	71	2.6	11	5.6	6	2.7	0	0.0	0	0.0
Diabetes Mellitus	72	2.2	53	2.0	6	3.0	11	4.9	*	*	0	0.0
HIV Infection	8	0.2	7	0.3	0	0.0	*	*	0	0.0	0	0.0
Chronic Liver Disease and Cirrhosis	55	1.7	50	1.9	4	2.0	*	*	0	0.0	0	0.0
Alzheimer's Disease	230	7.1	211	7.8	7	3.6	8	3.6	4	5.0	0	0.0
Nephritis, Nephrosis, Nephrotic Syndrome	62	1.9	49	1.8	5	2.5	5	2.2	3	3.8	0	0.0
Homicide and Legal Intervention	15	0.5	7	0.3	5	2.5	3	1.3	0	0.0	0	0.0
Septicemia	25	0.8	20	0.7	3	1.5	*	*	0	0.0	0	0.0
Congenital Anomalies	17	0.5	6	0.2	6	3.0	4	1.8	*	*	0	0.0
Perinatal Period Conditions	32	1.0	7	0.3	13	6.6	8	3.6	4	5.0	0	0.0
All Other	609	18.9	527	19.5	29	14.7	39	17.4	9	11.3	5	41.7
Injury by Firearm	51	1.6	40	1.5	4	2.0	7	3.1	0	0.0	0	0.0
Drug-Induced Deaths	93	2.9	77	2.9	9	4.6	5	2.2	0	0.0	*	*
Alcohol-Induced Deaths	60	1.9	52	1.9	4	2.0	3	1.3	0	0.0	*	*
Work-Related Injury (Y/N Check Death Certificate)	7	0.2	6	0.2	0	0.0	*	*	0	0.0	0	0.0

* indicates one or two events in the category.

Percentages are of total deaths of each race/ethnicity category.

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

Deaths and age-specific death rates: Arapahoe County residents, 2008

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	3,219	562,007	5.7
Infant	59	8,211	7.2
Neonatal	40	8,211	4.9
1-4	9	32,742	0.3
5-9	5	38,812	0.1
10-14	4	36,737	0.1
15-19	17	39,981	0.4
20-24	27	42,021	0.6
25-29	28	35,026	0.8
30-34	34	37,690	0.9
35-39	47	42,550	1.1
40-44	81	40,499	2.0
45-49	121	45,036	2.7
50-54	172	43,378	4.0
55-59	171	38,256	4.5
60-64	187	27,819	6.7
65-69	225	15,359	14.6
70-74	258	13,310	19.4
75-79	336	11,428	29.4
80-84	439	7,035	62.4
85+	999	6,083	164.2
1-14	18	108,291	0.2
15-24	44	82,002	0.5
25-64	841	310,254	2.7
65+	2,257	53,215	42.4

* indicates one or two events in the category.

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

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

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

Deaths and age-specific death rates from selected causes: Arapahoe County 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	59	7.2	18	0.2	44	0.5	190	1.2	651	4.2	2,257	42.4
Cardiovascular Disease	*	*	0	0.0	*	*	19	0.1	131	0.8	633	11.9
Heart Disease	*	*	0	0.0	*	*	15	0.1	108	0.7	434	8.2
Cerebrovascular Disease	0	0.0	0	0.0	0	0.0	4	0.0	16	0.1	135	2.5
Atherosclerosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	25	0.5
Malignant Neoplasms	0	0.0	4	0.0	*	*	23	0.1	222	1.4	446	8.4
Lung Cancer	0	0.0	0	0.0	0	0.0	*	*	51	0.3	129	2.4
Breast Cancer	0	0.0	0	0.0	0	0.0	*	*	24	0.2	28	0.5
Chronic Lower Respiratory Diseases	0	0.0	0	0.0	0	0.0	*	*	23	0.1	219	4.1
Unintentional Injuries	*	*	5	0.0	17	0.2	58	0.4	71	0.5	64	1.2
Motor Vehicle	0	0.0	3	0.0	9	0.1	16	0.1	9	0.1	8	0.2
Other Unintentional Injuries	*	*	*	*	8	0.1	42	0.3	62	0.4	56	1.1
Pneumonia and Influenza	0	0.0	0	0.0	0	0.0	*	*	8	0.1	56	1.1
Suicide	0	0.0	*	*	13	0.2	26	0.2	40	0.3	8	0.2
Diabetes Mellitus	0	0.0	0	0.0	0	0.0	6	0.0	22	0.1	44	0.8
HIV Infection	0	0.0	0	0.0	0	0.0	*	*	5	0.0	*	*
Chronic Liver Disease and Cirrhosis	0	0.0	0	0.0	*	*	10	0.1	30	0.2	14	0.3
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	230	4.3
Nephritis, Nephrosis, Nephrotic Syndrome	*	*	0	0.0	0	0.0	3	0.0	8	0.1	50	0.9
Homicide and Legal Intervention	0	0.0	*	*	5	0.1	6	0.0	3	0.0	0	0.0
Septicemia	0	0.0	0	0.0	0	0.0	*	*	3	0.0	20	0.4
Congenital Anomalies	12	1.5	*	*	0	0.0	*	*	*	*	*	*
Perinatal Period Conditions	32	3.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
All Other	11	1.3	5	0.0	6	0.1	32	0.2	84	0.5	471	8.9
Injury by Firearm	0	0.0	0	0.0	9	0.1	15	0.1	19	0.1	8	0.2
Drug-Induced Deaths	0	0.0	*	*	5	0.1	37	0.2	46	0.3	3	0.1
Alcohol-Induced Deaths	0	0.0	0	0.0	*	*	14	0.1	39	0.3	6	0.1
Work-Related Injury (Y/N Check Death Certificate)	0	0.0	0	0.0	*	*	6	0.0	0	0.0	0	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:
Arapahoe County residents, 2008**

Cause of Death	N	Rate	Age-Adjusted Rate	Lower Limit	Upper Limit
All Causes	3,219	572.8	703.3	679.6	727.1
Cardiovascular Disease	786	139.9	178.6	166.1	191.1
Heart Disease	559	99.5	125.2	114.8	135.7
Cerebrovascular Disease	155	27.6	36.4	30.6	42.2
Atherosclerosis	25	4.4	6.3	3.8	8.7
Malignant Neoplasms	696	123.8	143.7	132.8	154.7
Lung Cancer	182	32.4	38.2	32.5	43.8
Breast Cancer	53	9.4	10.4	7.5	13.3
Chronic Lower Respiratory Diseases	243	43.2	56.8	49.6	64.0
Unintentional Injuries	216	38.4	41.2	35.6	46.9
Motor Vehicle	45	8.0	8.4	5.9	10.9
Other Unintentional Injuries	171	30.4	32.8	27.8	37.9
Pneumonia and Influenza	65	11.6	15.1	11.4	18.8
Suicide	88	15.7	15.1	11.9	18.3
Diabetes Mellitus	72	12.8	14.9	11.4	18.4
HIV Infection	8	1.4	1.4	0.6	2.5
Chronic Liver Disease and Cirrhosis	55	9.8	9.9	7.2	12.6
Alzheimer's Disease	230	40.9	57.6	50.2	65.0
Nephritis, Nephrosis, Nephrotic Syndrome	62	11.0	14.2	10.6	17.8
Homicide and Legal Intervention	15	2.7	2.6	1.3	3.9
Septicemia	25	4.4	5.7	3.5	8.0
Congenital Anomalies	17	3.0	3.0	1.5	4.4
Perinatal Period Conditions	32	5.7	5.4	3.5	7.2
All Other	609	108.4	138.2	127.2	149.2
Injury by Firearm	51	9.1	9.1	6.5	11.6
Drug-Induced Deaths	93	16.5	15.9	12.6	19.1
Alcohol-Induced Deaths	60	10.7	9.9	7.4	12.5
Work-Related Injury (Y/N Check Death Certificate)	7	1.2	1.3	0.5	2.6

** 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.