

Denver County Births and Deaths 2009

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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: Denver County residents, 2009

Characteristic	Number	Percent
Total Live Births	10,073	100.0
Age of Mother		
10-17	339	3.4
18-19	672	6.7
20-29	4,504	44.7
30+	4,553	45.2
Low Weight Births (<2,500 Grams)	935	9.3
Very Low Weight Births (<1,500 Grams)	137	1.4
Prenatal Care Later than 1st Trimester/No Care	2,677	27.4
No Prenatal Care	200	2.0
Preterm Births (<37 Weeks)	858	8.5
Education of Mother <High School Diploma/GED	2,931	29.5
Live Births to Unmarried Women	2,772	27.6
Smoking During Pregnancy	541	5.4

"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 for definitions of data items.

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

Selected birth characteristics by age group of mother: Denver County residents, 2009

Characteristic	All Ages		10-17		18-19		20-29		30+	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total Live Births	10,073	100.0	339	100.0	672	100.0	4,504	100.0	4,553	100.0
Race/Ethnicity of Mother										
White, Non-Hispanic	4,249	42.5	14	4.2	100	14.9	1,368	30.6	2,767	61.2
White, Hispanic	4,149	41.5	263	78.3	432	64.6	2,227	49.9	1,227	27.2
Black	1,039	10.4	46	13.7	104	15.5	601	13.5	288	6.4
Asian American/Pacific Islander	345	3.5	5	1.5	10	1.5	160	3.6	170	3.8
American Indian/Native Alaskan	100	1.0	6	1.8	14	2.1	52	1.2	28	0.6
Other	109	1.1	*	*	9	1.3	59	1.3	39	0.9
Unknown	82		3		3		37		34	
Low Weight Births (<2,500 Grams)	935	9.3	31	9.1	80	11.9	388	8.6	433	9.5
Very Low Weight Births (<1,500 Grams)	137	1.4	5	1.5	12	1.8	60	1.3	60	1.3
Prenatal Care Later than 1st Trimester/No Care	2,677	27.4	147	44.3	256	39.4	1,452	33.1	822	18.7
No Prenatal Care	200	2.0	7	2.1	20	3.1	122	2.8	51	1.2
Preterm Births (<37 Weeks)	858	8.5	27	8.0	59	8.8	352	7.8	416	9.1
Education of Mother <High School Diploma/GED	2,931	29.5	299	88.7	350	52.5	1,453	32.6	829	18.5
Live Births to Unmarried Women	2,772	27.5	279	82.3	424	63.1	1,523	33.8	546	12.0
Smoking During Pregnancy	541	5.4	9	2.7	50	7.4	334	7.4	148	3.3

"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 for definitions of data items.

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

Selected birth characteristics by race/ethnicity of mother: Denver County 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
Total Live Births	4,249	100.0	4,149	100.0	1,039	100.0	345	100.0	100	100.0
Age of Mother										
10-17	14	0.3	263	6.3	46	4.4	5	1.4	6	6.0
18-19	100	2.4	432	10.4	104	10.0	10	2.9	14	14.0
20-29	1,368	32.2	2,227	53.7	601	57.8	160	46.4	52	52.0
30+	2,767	65.1	1,227	29.6	288	27.7	170	49.3	28	28.0
Low Weight Births (<2,500 Grams)	361	8.5	358	8.6	155	15.0	35	10.1	10	10.0
Very Low Weight Births (<1,500 Grams)	54	1.3	49	1.2	24	2.3	6	1.7	*	*
Prenatal Care Later than 1st Trimester/No Care	673	16.4	1,470	36.2	356	35.7	95	28.2	40	40.8
No Prenatal Care	53	1.3	103	2.5	27	2.7	10	3.0	4	4.1
Preterm Births (<37 Weeks)	367	8.6	321	7.7	114	11.0	32	9.3	11	11.0
Education of Mother <High School Diploma/GED	210	5.0	2,341	56.8	229	22.5	60	17.5	35	35.0
Live Births to Unmarried Women	653	15.4	1,385	33.4	568	54.7	50	14.5	56	56.0
Smoking During Pregnancy	237	5.6	175	4.2	104	10.0	7	2.0	15	15.0

"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: Denver County residents, 2009

Age Group	Births	Population	Fertility Rate	Lower Limit	Upper Limit
All Ages	10,073	129,771	77.6	76.2	79.1
Teen Age Groups					
13-14	13	6,793	1.9	0.8	3.0
15-17	326	10,597	30.8	27.4	34.1
18-19	672	8,276	81.2	75.3	87.1
10-17	339	28,360	12.0	10.7	13.2
10-19	1,011	36,636	27.6	25.9	29.3
All Age Groups					
10-14	13	17,763	0.7	0.3	1.2
15-19	998	18,873	52.9	49.7	56.1
20-24	2,024	20,438	99.0	94.9	103.2
25-29	2,480	18,743	132.3	127.4	137.2
30-34	2,649	22,156	119.6	115.3	123.9
35-39	1,561	27,343	57.1	54.3	59.9
40-49	343	42,081	8.2	7.3	9.0

** 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: Denver County residents, 1999, 2005-2009

	1999	2005	2006	2007	2008	2009	2005-2009 Annual Average
Total Population	545,515	571,683	577,512	587,698	601,973	618,656	591,504
Total Births							
Number	9,207	10,223	10,200	9,977	10,248	10,073	10,144
Birth Rate	16.9	17.9	17.7	17.0	17.0	16.3	17.1
General Fertility Rate	71.7	82.7	82.6	79.8	80.2	77.6	80.6
Age of Mother 10-17							
Number	590	501	434	438	428	339	428
Percent of Total Births	6.4	4.9	4.3	4.4	4.2	3.4	4.2
Fertility Rate	25.2	19.5	16.6	16.4	15.6	12.0	15.9
Low Weight Births (<2,500 Grams)							
Number	836	1,048	987	937	982	935	978
Percent	9.1	10.3	9.7	9.4	9.6	9.3	9.6
Prenatal Care Later Than 1st Trimester/No Care							
Number	2,408	2,561	2,642	2,565	2,942	2,677	2,677
Percent	26.5	25.9	26.7	27.0	29.9	27.4	27.4
Births to Unmarried Women							
Number	3,181	3,480	3,531	3,316	2,837	2,772	
Percent	34.5	34.0	34.6	33.2	27.7	27.5	
Mother's Education <12 Years							
Number	3,345	3,593	3,369	3,230	3,235	2,931	
Percent	36.9	35.8	33.9	32.9	32.0	29.5	
Infant Deaths							
Number	61	94	56	64	77	71	72
Rate	6.6	9.2	5.5	6.4	7.5	7.0	7.1
Neonatal Deaths							
Number	35	74	41	48	67	47	55
Rate	3.8	7.2	4.0	4.8	6.5	4.7	5.5
Total Deaths							
Number	4,486	4,247	4,068	4,118	4,202	4,219	4,171
Crude Rate	822.3	742.9	704.4	700.7	698.0	682.0	705.1
Age-Adjusted Rate	877.2	802.5	764.8	775.3	774.5	750.9	773.0
Cardiovascular Disease							
Number	1,490	1,231	1,100	1,164	1,097	1,090	1,136
Age-Adjusted Rate	292.3	237.2	210.4	224.3	206.6	197.6	215.0
Heart Disease							
Number	1,032	856	790	835	833	815	826
Age-Adjusted Rate	203.1	165.1	150.9	160.3	156.8	147.4	156.0

(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: Denver County residents, 1999, 2005-2009

	1999	2005	2006	2007	2008	2009	2005-2009 Annual Average
Cerebrovascular Disease							
Number	287	200	178	225	176	194	195
Age-Adjusted Rate	55.9	38.5	34.1	43.8	33.1	35.2	36.9
Malignant Neoplasms							
Number	897	863	834	808	858	845	842
Age-Adjusted Rate	180.0	165.9	159.7	154.1	160.4	153.6	158.6
Lung Cancer							
Number	208	189	197	200	181	179	189
Age-Adjusted Rate	42.6	37.0	38.3	39.4	34.1	33.2	36.3
Breast Cancer							
Number	69	57	54	51	65	66	59
Age-Adjusted Rate	13.7	10.6	10.3	9.4	11.9	11.4	10.7
Total Unintentional Injuries							
Number	276	286	308	337	326	339	319
Age-Adjusted Rate	51.7	51.1	54.3	60.1	56.6	56.5	55.7
Motor Vehicle							
Number	62	67	61	62	57	44	58
Age-Adjusted Rate	11.4	11.7	10.6	10.7	10.0	7.4	10.0
Other Unintentional Injuries							
Number	214	219	247	275	269	295	261
Age-Adjusted Rate	40.3	39.3	43.7	49.4	46.6	49.1	45.6
Chronic Lower Respiratory Diseases							
Number	307	269	244	246	251	259	254
Age-Adjusted Rate	61.3	53.0	47.9	48.6	48.6	47.9	49.2
Suicide							
Number	67	94	76	100	93	101	93
Age-Adjusted Rate	12.3	16.8	13.2	16.6	15.6	16.5	15.8
Homicide and Legal Intervention							
Number	51	47	57	52	46	43	49
Age-Adjusted Rate	8.7	8.0	9.9	8.6	7.5	6.9	8.1
Work-Related Injury							
Number	17	6	10	13	9	8	9
Age-Adjusted Rate	3.2	1.0	1.6	2.1	1.7	1.3	1.5

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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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: Denver County 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	%
Total	4,219	100.0	2,785	100.0	755	100.0	527	100.0	74	100.0	67	100.0
Cardiovascular Disease	1,090	25.8	766	27.5	168	22.3	125	23.7	17	23.0	11	16.4
Heart Disease	815	19.3	571	20.5	137	18.1	84	15.9	10	13.5	10	14.9
Cerebrovascular Disease	194	4.6	137	4.9	20	2.6	30	5.7	6	8.1	*	*
Atherosclerosis	27	0.6	20	0.7	4	0.5	3	0.6	0	0.0	0	0.0
Malignant Neoplasms	845	20.0	550	19.7	151	20.0	115	21.8	21	28.4	7	10.4
Lung Cancer	179	4.2	126	4.5	21	2.8	28	5.3	4	5.4	0	0.0
Breast Cancer	66	1.6	43	1.5	12	1.6	9	1.7	*	*	*	*
Chronic Lower Respiratory Disease	259	6.1	207	7.4	20	2.6	26	4.9	0	0.0	4	6.0
Unintentional Injuries	339	8.0	216	7.8	85	11.3	24	4.6	6	8.1	8	11.9
Motor Vehicle	44	1.0	19	0.7	15	2.0	7	1.3	3	4.1	0	0.0
Other Unintentional Injuries	295	7.0	197	7.1	70	9.3	17	3.2	3	4.1	8	11.9
Pneumonia and Influenza	99	2.3	69	2.5	14	1.9	8	1.5	3	4.1	5	7.5
Suicide	101	2.4	81	2.9	9	1.2	6	1.1	3	4.1	*	*
Diabetes Mellitus	120	2.8	56	2.0	29	3.8	26	4.9	5	6.8	*	*
HIV Infection	35	0.8	20	0.7	6	0.8	7	1.3	0	0.0	*	*
Chronic Liver Disease and Cirrhosis	100	2.4	46	1.7	41	5.4	10	1.9	0	0.0	3	4.5
Alzheimer's Disease	177	4.2	136	4.9	16	2.1	21	4.0	*	*	0	0.0
Nephritis, Nephrosis, Nephrotic Syndrome	71	1.7	39	1.4	17	2.3	13	2.5	*	*	0	0.0
Homicide and Legal Intervention	43	1.0	8	0.3	15	2.0	15	2.8	0	0.0	5	7.5
Septicemia	50	1.2	32	1.1	6	0.8	11	2.1	*	*	0	0.0
Congenital Anomalies	24	0.6	12	0.4	7	0.9	4	0.8	*	*	0	0.0
Perinatal Period Conditions	32	0.8	11	0.4	8	1.1	13	2.5	0	0.0	0	0.0
All Other	834	19.8	536	19.2	163	21.6	103	19.5	13	17.6	19	28.4
Injury by Firearm	66	1.6	40	1.4	11	1.5	12	2.3	*	*	*	*
Drug-Induced Deaths	172	4.1	110	3.9	41	5.4	13	2.5	*	*	7	10.4
Alcohol-Induced Deaths	147	3.5	74	2.7	48	6.4	19	3.6	0	0.0	6	9.0
Work-Related Injury (Y/N Check Death Certificate)	8	0.2	*	*	*	*	*	*	0	0.0	3	4.5

* 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: Denver County residents, 2009

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	4,219	618,656	6.8
Infant	71	10,073	7.0
Neonatal	47	10,073	4.7
1-4	7	42,170	0.2
5-9	5	49,344	0.1
10-14	5	36,570	0.1
15-19	20	38,144	0.5
20-24	38	40,680	0.9
25-29	48	39,273	1.2
30-34	63	47,041	1.3
35-39	76	59,127	1.3
40-44	106	48,694	2.2
45-49	177	42,653	4.1
50-54	233	37,985	6.1
55-59	262	35,379	7.4
60-64	287	29,074	9.9
65-69	288	14,961	19.3
70-74	320	14,946	21.4
75-79	398	13,962	28.5
80-84	574	9,766	58.8
85+	1,241	8,638	143.7
1-14	17	128,084	0.1
15-24	58	78,824	0.7
25-64	1,252	339,226	3.7
65+	2,821	62,273	45.3

* indicates one or two events in the category.

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

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

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

Deaths and age-specific death rates from selected causes: Denver County 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	71	7.0	17	0.1	58	0.7	293	1.5	959	6.6	2,821	45.3
Cardiovascular Disease	*	*	*	*	4	0.1	25	0.1	193	1.3	866	13.9
Heart Disease	*	*	*	*	3	0.0	22	0.1	158	1.1	630	10.1
Cerebrovascular Disease	0	0.0	0	0.0	*	*	*	*	27	0.2	164	2.6
Atherosclerosis	0	0.0	0	0.0	0	0.0	0	0.0	*	*	26	0.4
Malignant Neoplasms	0	0.0	*	*	5	0.1	30	0.2	207	1.4	601	9.7
Lung Cancer	0	0.0	0	0.0	0	0.0	3	0.0	42	0.3	134	2.2
Breast Cancer	0	0.0	0	0.0	0	0.0	3	0.0	25	0.2	38	0.6
Chronic Lower Respiratory Diseases	0	0.0	*	*	3	0.0	*	*	41	0.3	213	3.4
Unintentional Injuries	3	0.3	*	*	14	0.2	95	0.5	119	0.8	107	1.7
Motor Vehicle	0	0.0	*	*	8	0.1	18	0.1	9	0.1	8	0.1
Other Unintentional Injuries	3	0.3	0	0.0	6	0.1	77	0.4	110	0.8	99	1.6
Pneumonia and Influenza	*	*	*	*	0	0.0	4	0.0	21	0.1	71	1.1
Suicide	0	0.0	*	*	10	0.1	33	0.2	39	0.3	17	0.3
Diabetes Mellitus	0	0.0	0	0.0	0	0.0	8	0.0	36	0.2	76	1.2
HIV Infection	0	0.0	0	0.0	*	*	15	0.1	16	0.1	3	0.0
Chronic Liver Disease and Cirrhosis	0	0.0	0	0.0	0	0.0	13	0.1	58	0.4	29	0.5
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	*	*	175	2.8
Nephritis, Nephrosis, Nephrotic Syndrome	0	0.0	0	0.0	0	0.0	0	0.0	13	0.1	58	0.9
Homicide and Legal Intervention	3	0.3	*	*	11	0.1	21	0.1	6	0.0	*	*
Septicemia	0	0.0	0	0.0	0	0.0	*	*	7	0.0	42	0.7
Congenital Anomalies	13	1.3	3	0.0	*	*	3	0.0	*	*	3	0.0
Perinatal Period Conditions	32	3.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
All Other	17	1.7	5	0.0	9	0.1	44	0.2	200	1.4	559	9.0
Injury by Firearm	0	0.0	0	0.0	11	0.1	24	0.1	19	0.1	12	0.2
Drug-Induced Deaths	0	0.0	0	0.0	5	0.1	72	0.4	90	0.6	5	0.1
Alcohol-Induced Deaths	0	0.0	0	0.0	*	*	25	0.1	85	0.6	36	0.6
Work-Related Injury (Y/N Check Death Certificate)	0	0.0	0	0.0	0	0.0	*	*	4	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:
Denver County residents, 2009**

Cause of Death	N	Rate	Age-Adjusted Rate	Lower Limit	Upper Limit
All Causes	4,219	682.0	750.9	728.7	773.1
Cardiovascular Disease	1,090	176.2	197.6	185.9	209.3
Heart Disease	815	131.7	147.4	137.3	157.6
Cerebrovascular Disease	194	31.4	35.2	30.2	40.2
Atherosclerosis	27	4.4	5.0	3.1	6.9
Malignant Neoplasms	845	136.6	153.6	143.2	164.0
Lung Cancer	179	28.9	33.2	28.3	38.1
Breast Cancer	66	10.7	11.4	8.6	14.2
Chronic Lower Respiratory Diseases	259	41.9	47.9	42.0	53.8
Unintentional Injuries	339	54.8	56.5	50.5	62.6
Motor Vehicle	44	7.1	7.4	5.2	9.6
Other Unintentional Injuries	294	47.5	48.9	43.3	54.6
Pneumonia and Influenza	99	16.0	17.3	13.9	20.7
Suicide	101	16.3	16.5	13.3	19.8
Diabetes Mellitus	120	19.4	21.4	17.6	25.3
HIV Infection	35	5.7	5.6	3.7	7.4
Chronic Liver Disease and Cirrhosis	100	16.2	17.1	13.7	20.5
Alzheimer's Disease	177	28.6	32.3	27.6	37.1
Nephritis, Nephrosis, Nephrotic Syndrome	71	11.5	12.6	9.7	15.6
Homicide and Legal Intervention	43	7.0	6.9	4.8	8.9
Septicemia	50	8.1	9.2	6.7	11.8
Congenital Anomalies	24	3.9	3.6	2.1	5.0
Perinatal Period Conditions	32	5.2	4.3	2.8	5.8
All Other	834	134.8	148.4	138.3	158.5
Injury by Firearm	66	10.7	11.0	8.3	13.7
Drug-Induced Deaths	172	27.8	27.0	23.0	31.1
Alcohol-Induced Deaths	147	23.8	24.8	20.7	28.8
Work-Related Injury (Y/N Check Death Certificate)	8	1.3	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.