

Jefferson 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: Jefferson County residents, 2008

Characteristic	Number	Percent
Total Live Births	6,052	100.0
Age of Mother		
10-17	119	2.0
18-19	314	5.2
20-29	2,835	46.8
30+	2,784	46.0
Low Weight Births (<2,500 Grams)	501	8.3
Very Low Weight Births (<1,500 Grams)	61	1.0
Prenatal Care Later than 1st Trimester/No Care	924	15.7
No Prenatal Care	75	1.3
Preterm Births (<37 Weeks)	540	8.9
Education of Mother <High School Diploma/GED	821	13.7
Live Births to Unmarried Women	1,347	22.3
Smoking During Pregnancy	548	9.1

"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 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: Jefferson 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	6,052	100.0	119	100.0	314	100.0	2,835	100.0	2,784	100.0
Race/Ethnicity of Mother										
White Non-Hispanic	4,369	73.0	47	40.2	159	51.5	1,959	69.9	2,204	80.0
White Hispanic	1,216	20.3	64	54.7	127	41.1	656	23.4	369	13.4
Black	73	1.2	*	*	9	2.9	33	1.2	30	1.1
Other	326	5.4	5	4.3	14	4.5	156	5.6	151	5.5
Low Weight Births (<2,500 Grams)	501	8.3	15	12.6	35	11.2	214	7.6	237	8.5
Very Low Weight Births (<1,500 Grams)	61	1.0	0	0.0	*	*	29	1.0	30	1.1
Prenatal Care Later than 1st Trimester/No Care	924	15.7	44	38.9	86	28.4	520	18.7	274	10.2
No Prenatal Care	75	1.3	*	*	5	1.7	39	1.4	29	1.1
Preterm Births (<37 Weeks)	540	8.9	13	10.9	34	10.9	226	8.0	267	9.6
Education of Mother <High School Diploma/GED	821	13.7	105	89.0	144	46.3	406	14.4	166	6.0
Live Births to Unmarried Women	1,347	22.3	103	86.6	212	67.5	801	28.3	231	8.3
Smoking During Pregnancy	548	9.1	15	12.7	59	18.8	339	12.0	135	4.9

"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: Jefferson 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	4,369	100.0	1,216	100.0	73	100.0	213	100.0	60	100.0
Age of Mother										
10-17	47	1.1	64	5.3	*	*	0	0.0	*	*
18-19	159	3.6	127	10.4	9	12.3	3	1.4	9	15.0
20-29	1,959	44.8	656	53.9	33	45.2	96	45.1	27	45.0
30+	2,204	50.4	369	30.3	30	41.1	114	53.5	22	36.7
Low Weight Births (<2,500 Grams)	367	8.4	81	6.7	7	9.6	30	14.1	6	10.0
Very Low Weight Births (<1,500 Grams)	41	0.9	8	0.7	4	5.5	4	1.9	*	*
Prenatal Care Later than 1st Trimester/No Care	514	12.0	309	26.3	22	30.6	40	19.2	19	31.7
No Prenatal Care	31	0.7	35	3.0	3	4.2	*	*	5	8.3
Preterm Births (<37 Weeks)	407	9.3	92	7.6	9	12.3	19	8.9	5	8.3
Education of Mother <High School Diploma/GED	270	6.2	466	38.7	15	20.5	23	11.0	20	33.3
Live Births to Unmarried Women	774	17.7	444	36.5	35	47.9	34	16.0	29	48.3
Smoking During Pregnancy	450	10.3	65	5.4	9	12.3	8	3.8	7	11.9

"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: Jefferson County residents, 2008

Age Group	Births	Population	Fertility Rate	Lower Limit	Upper Limit
All Ages	6,052	104,295	58.0	56.6	59.5
Teen Age Groups		*			
13-14	*	6,792	*	*	*
15-17	117	10,990	10.6	8.7	12.6
18-19	314	7,704	40.8	36.3	45.2
10-17	119	27,255	4.4	3.6	5.2
10-19	433	34,958	12.4	11.2	13.6
All Age Groups		*			
10-14	*	16,265	*	*	*
15-19	431	18,694	23.1	20.9	25.2
20-24	1,194	19,974	59.8	56.5	63.1
25-29	1,641	14,936	109.9	104.8	114.9
30-34	1,618	13,970	115.8	110.5	121.2
35-39	967	17,035	56.8	53.3	60.3
40-49	199	44,137	4.5	3.9	5.1

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

	1998	2004	2005	2006	2007	2008	2004-2008 Annual Average
Total Population	512,482	532,071	532,417	534,355	538,323	543,053	536,044
Total Births							
Number	6,353	6,251	6,031	6,252	6,268	6,052	6,171
Birth Rate	12.4	11.7	11.3	11.7	11.6	11.1	11.5
General Fertility Rate	55.0	57.5	56.5	59.3	59.9	58.0	58.3
Age of Mother 10-17							
Number	181	168	134	170	157	119	150
Percent of Total Births	2.8	2.7	2.2	2.7	2.5	2.0	2.4
Fertility Rate	6.2	5.7	4.7	6.0	5.6	4.4	5.3
Low Weight Births (<2,500 Grams)							
Number	517	534	525	531	533	501	525
Percent	8.1	8.5	8.7	8.5	8.5	8.3	8.5
Prenatal Care Later Than 1st Trimester/No Care							
Number	590	734	732	753	922	924	813
Percent	9.3	11.9	12.4	12.2	15.1	15.7	13.4
Births to Unmarried Women							
Number	1,181	1,391	1,323	1,502	1,392	1,347	
Percent	18.6	22.3	21.9	24.0	22.2	22.3	
Mother's Education <12 Years							
Number	732	944	866	947	910	821	
Percent	11.6	15.2	14.5	15.3	14.5	13.6	
Infant Deaths							
Number	31	27	32	43	36	23	32
Rate	4.9	4.3	5.3	6.9	5.7	3.8	5.2
Neonatal Deaths							
Number	19	20	24	33	21	18	23
Rate	3.0	3.2	4.0	5.3	3.4	3.0	3.8
Total Deaths							
Number	3,099	3,299	3,395	3,545	3,555	3,751	3,509
Crude Rate	604.7	620.0	637.7	663.4	660.4	690.7	654.6
Age-Adjusted Rate	796.2	713.8	723.9	733.2	712.2	731.2	723.0
Cardiovascular Disease							
Number	934	1,027	1,096	1,050	1,037	984	1,039
Age-Adjusted Rate	250.7	233.4	242.4	223.8	214.1	197.1	221.5
Heart Disease							
Number	742	692	748	705	716	715	715
Age-Adjusted Rate	198.8	155.6	163.1	147.0	146.3	141.8	150.4

(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: Jefferson County residents, 1998, 2004-2008

	1998	2004	2005	2006	2007	2008	2004-2008 Annual Average
Cerebrovascular Disease							
Number	180	170	153	163	185	168	168
Age-Adjusted Rate	48.6	38.7	34.4	35.6	38.2	34.4	36.2
Malignant Neoplasms							
Number	715	771	731	812	787	814	783
Age-Adjusted Rate	174.1	157.8	147.4	159.1	149.3	150.9	152.8
Lung Cancer							
Number	165	174	171	206	189	179	184
Age-Adjusted Rate	39.7	35.9	34.5	40.5	35.8	33.0	35.9
Breast Cancer							
Number	55	70	68	55	62	69	65
Age-Adjusted Rate	12.6	13.7	12.7	10.4	11.5	11.8	12.0
Total Unintentional Injuries							
Number	129	177	187	158	193	229	189
Age-Adjusted Rate	28.8	36.3	36.9	31.8	36.6	44.0	37.2
Motor Vehicle							
Number	51	60	68	55	64	52	60
Age-Adjusted Rate	10.5	11.4	12.7	10.1	11.8	9.4	11.1
Other Unintentional Injuries							
Number	78	117	119	103	129	177	129
Age-Adjusted Rate	18.3	24.9	24.2	21.7	24.8	34.7	26.1
Chronic Lower Respiratory Diseases							
Number	216	227	209	242	251	280	242
Age-Adjusted Rate	57.4	50.3	46.2	51.7	51.7	55.6	51.2
Suicide							
Number	76	94	96	92	95	89	93
Age-Adjusted Rate	15.0	17.3	18.0	15.8	16.8	16.2	16.8
Homicide and Legal Intervention							
Number	23	15	9	10	6	11	10
Age-Adjusted Rate	4.4	3.0	1.9	1.7	1.2	2.4	2.0
Work-Related Injury							
Number	7	5	9	6	9	7	7
Age-Adjusted Rate	1.5	0.8	1.5	1.1	1.6	1.1	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: Jefferson 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	3,751	100.0	3,412	100.0	241	100.0	30	100.0	46	100.0	16	100.0
Cardiovascular Disease	984	26.2	905	26.5	48	19.9	11	36.7	15	32.6	*	*
Heart Disease	715	19.1	663	19.4	29	12.0	9	30.0	10	21.7	*	*
Cerebrovascular Disease	168	4.5	151	4.4	11	4.6	*	*	3	6.5	*	*
Atherosclerosis	52	1.4	46	1.3	5	2.1	0	0.0	*	*	0	0.0
Malignant Neoplasms	814	21.7	744	21.8	48	19.9	5	16.7	10	21.7	7	43.8
Lung Cancer	179	4.8	170	5.0	4	1.7	0	0.0	*	*	3	18.8
Breast Cancer	69	1.8	60	1.8	7	2.9	0	0.0	*	*	*	*
Chronic Lower Respiratory Disease	280	7.5	270	7.9	9	3.7	0	0.0	*	*	0	0.0
Unintentional Injuries	229	6.1	203	5.9	20	8.3	*	*	5	10.9	0	0.0
Motor Vehicle	52	1.4	44	1.3	6	2.5	0	0.0	*	*	0	0.0
Other Unintentional Injuries	177	4.7	159	4.7	14	5.8	*	*	3	6.5	0	0.0
Pneumonia and Influenza	77	2.1	71	2.1	3	1.2	*	*	*	*	0	0.0
Suicide	89	2.4	76	2.2	11	4.6	0	0.0	*	*	0	0.0
Diabetes Mellitus	81	2.2	64	1.9	10	4.1	*	*	*	*	3	18.8
HIV Infection	5	0.1	4	0.1	0	0.0	*	*	0	0.0	0	0.0
Chronic Liver Disease and Cirrhosis	53	1.4	44	1.3	8	3.3	0	0.0	0	0.0	*	*
Alzheimer's Disease	196	5.2	183	5.4	12	5.0	*	*	0	0.0	0	0.0
Nephritis, Nephrosis, Nephrotic Syndrome	63	1.7	57	1.7	6	2.5	0	0.0	0	0.0	0	0.0
Homicide and Legal Intervention	11	0.3	5	0.1	6	2.5	0	0.0	0	0.0	0	0.0
Septicemia	41	1.1	34	1.0	5	2.1	*	*	*	*	0	0.0
Congenital Anomalies	20	0.5	13	0.4	6	2.5	*	*	0	0.0	0	0.0
Perinatal Period Conditions	11	0.3	8	0.2	*	*	*	*	*	*	0	0.0
All Other	797	21.2	731	21.4	48	19.9	5	16.7	8	17.4	3	18.8
Injury by Firearm	55	1.5	47	1.4	8	3.3	0	0.0	0	0.0	0	0.0
Drug-Induced Deaths	70	1.9	59	1.7	10	4.1	*	*	0	0.0	0	0.0
Alcohol-Induced Deaths	78	2.1	68	2.0	8	3.3	*	*	0	0.0	*	*
Work-Related Injury (Y/N Check Death Certificate)	7	0.2	4	0.1	*	*	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: Jefferson County residents, 2008

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	3,751	543,053	6.9
Infant	23	6,052	3.8
Neonatal	18	6,052	3.0
1-4	10	24,619	0.4
5-9	*	31,954	*
10-14	5	33,289	0.2
15-19	21	39,053	0.5
20-24	36	42,152	0.9
25-29	29	31,418	0.9
30-34	50	28,798	1.7
35-39	35	34,698	1.0
40-44	57	38,594	1.5
45-49	145	48,079	3.0
50-54	159	47,385	3.4
55-59	209	41,954	5.0
60-64	212	31,450	6.7
65-69	242	19,174	12.6
70-74	315	16,116	19.5
75-79	433	13,028	33.2
80-84	552	8,080	68.3
85+	1,216	7,039	172.7
1-14	17	89,863	0.2
15-24	57	81,206	0.7
25-64	896	302,376	3.0
65+	2,758	63,438	43.5

* 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: Jefferson 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	23	3.8	17	0.2	57	0.7	171	1.3	725	4.3	2,758	43.5
Cardiovascular Disease	0	0.0	0	0.0	4	0.0	21	0.2	145	0.9	814	12.8
Heart Disease	0	0.0	0	0.0	4	0.0	21	0.2	120	0.7	570	9.0
Cerebrovascular Disease	0	0.0	0	0.0	0	0.0	0	0.0	17	0.1	151	2.4
Atherosclerosis	0	0.0	0	0.0	0	0.0	0	0.0	*	*	51	0.8
Malignant Neoplasms	0	0.0	4	0.0	*	*	30	0.2	217	1.3	561	8.8
Lung Cancer	0	0.0	0	0.0	0	0.0	*	*	47	0.3	130	2.0
Breast Cancer	0	0.0	0	0.0	0	0.0	*	*	29	0.2	38	0.6
Chronic Lower Respiratory Diseases	0	0.0	0	0.0	0	0.0	*	*	32	0.2	247	3.9
Unintentional Injuries	0	0.0	6	0.1	24	0.3	42	0.3	50	0.3	107	1.7
Motor Vehicle	0	0.0	3	0.0	15	0.2	10	0.1	14	0.1	10	0.2
Other Unintentional Injuries	0	0.0	3	0.0	9	0.1	32	0.2	36	0.2	97	1.5
Pneumonia and Influenza	0	0.0	0	0.0	*	*	4	0.0	9	0.1	63	1.0
Suicide	0	0.0	*	*	10	0.1	32	0.2	32	0.2	14	0.2
Diabetes Mellitus	0	0.0	0	0.0	0	0.0	*	*	17	0.1	63	1.0
HIV Infection	0	0.0	0	0.0	0	0.0	*	*	4	0.0	0	0.0
Chronic Liver Disease and Cirrhosis	0	0.0	0	0.0	0	0.0	5	0.0	36	0.2	12	0.2
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0	193	3.0
Nephritis, Nephrosis, Nephrotic Syndrome	0	0.0	0	0.0	0	0.0	*	*	10	0.1	52	0.8
Homicide and Legal Intervention	0	0.0	*	*	*	*	6	0.0	0	0.0	*	*
Septicemia	0	0.0	0	0.0	0	0.0	0	0.0	8	0.0	33	0.5
Congenital Anomalies	8	1.3	0	0.0	0	0.0	4	0.0	4	0.0	4	0.1
Perinatal Period Conditions	11	1.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
All Other	4	0.7	4	0.0	14	0.2	23	0.2	158	0.9	594	9.4
Injury by Firearm	0	0.0	*	*	6	0.1	17	0.1	21	0.1	9	0.1
Drug-Induced Deaths	0	0.0	0	0.0	8	0.1	32	0.2	22	0.1	8	0.1
Alcohol-Induced Deaths	0	0.0	0	0.0	0	0.0	13	0.1	56	0.3	9	0.1
Work-Related Injury (Y/N Check Death Certificate)	0	0.0	0	0.0	0	0.0	*	*	5	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:
Jefferson County residents, 2008**

Cause of Death	N	Rate	Age-Adjusted Rate	Lower Limit	Upper Limit
All Causes	3,751	690.7	731.2	708.5	754.0
Cardiovascular Disease	984	181.2	197.1	184.9	209.4
Heart Disease	715	131.7	141.8	131.4	152.2
Cerebrovascular Disease	168	30.9	34.4	29.2	39.6
Atherosclerosis	52	9.6	11.2	8.2	14.2
Malignant Neoplasms	814	149.9	150.9	140.3	161.4
Lung Cancer	179	33.0	33.0	28.1	37.9
Breast Cancer	69	12.7	11.8	8.9	14.6
Chronic Lower Respiratory Diseases	280	51.6	55.6	49.0	62.2
Unintentional Injuries	229	42.2	44.0	38.2	49.8
Motor Vehicle	52	9.6	9.4	6.8	11.9
Other Unintentional Injuries	177	32.6	34.7	29.5	39.9
Pneumonia and Influenza	77	14.2	15.8	12.2	19.3
Suicide	89	16.4	16.2	12.8	19.7
Diabetes Mellitus	81	14.9	15.5	12.1	18.9
HIV Infection	5	0.9	0.7	0.2	1.6
Chronic Liver Disease and Cirrhosis	53	9.8	8.3	6.0	10.5
Alzheimer's Disease	196	36.1	42.0	36.1	47.8
Nephritis, Nephrosis, Nephrotic Syndrome	63	11.6	12.5	9.3	15.6
Homicide and Legal Intervention	11	2.0	2.4	1.2	3.8
Septicemia	41	7.5	7.9	5.5	10.4
Congenital Anomalies	20	3.7	4.1	2.3	5.9
Perinatal Period Conditions	11	2.0	2.5	1.3	4.0
All Other	797	146.8	155.9	145.0	166.8
Injury by Firearm	55	10.1	9.9	7.2	12.6
Drug-Induced Deaths	70	12.9	13.1	9.9	16.2
Alcohol-Induced Deaths	78	14.4	12.1	9.3	14.9
Work-Related Injury (Y/N Check Death Certificate)	7	1.3	1.1	0.3	2.3

** 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.