

For more information about these tables contact the Health Statistics Section of the Colorado Department of Public Health and Environment at 303.692.2160.

# Montezuma County Births and Deaths 2007

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## Selected birth characteristics: Montezuma County residents, 2007

Characteristic	Number	Percent
Total Live Births	330	100.0
Age of Mother		
10-17	16	4.8
18-19	32	9.7
20-29	197	59.7
30+	85	25.8
Low Weight Births (<2,500 Grams)	24	7.3
Very Low Weight Births (<1,500 Grams)	3	0.9
Prenatal Care Later than 1st Trimester/No Care	80	28.0
No Prenatal Care	8	2.8
Preterm Births (<37 Weeks)	23	7.0
Education of Mother <High School Diploma/GED	65	20.6
Live Births to Unmarried Women	115	35.1
Smoking During Pregnancy	44	13.3

*"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.*

*See technical notes at [www.cdphe.state.co.us/hs](http://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: Montezuma County residents, 2007

Characteristic	All Ages		10-17		18-19		20-29		30+	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total Live Births	330	100.0	16	100.0	32	100.0	197	100.0	85	100.0
Race/Ethnicity of Mother										
White Non-Hispanic	198	64.5	4	26.7	12	38.7	128	68.1	54	74.0
White Hispanic	38	12.4	4	26.7	4	12.9	22	11.7	8	11.0
Black	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other	71	23.1	7	46.7	15	48.4	38	20.2	11	15.1
Low Weight Births (<2,500 Grams)	24	7.3	*	*	3	9.4	14	7.1	6	7.1
Very Low Weight Births (<1,500 Grams)	3	0.9	0	0.0	0	0.0	*	*	*	*
Prenatal Care Later than 1st Trimester/No Care	80	28.0	4	33.3	17	56.7	35	20.6	24	32.4
No Prenatal Care	8	2.8	0	0.0	0	0.0	4	2.4	4	5.4
Preterm Births (<37 Weeks)	23	7.0	0	0.0	*	*	15	7.6	7	8.2
Education of Mother <High School Diploma/GED	65	20.6	14	93.3	16	50.0	31	16.2	4	5.1
Live Births to Unmarried Women	115	34.8	13	81.3	23	71.9	63	32.0	16	18.8
Smoking During Pregnancy	44	13.3	4	25.0	5	15.6	30	15.2	5	5.9

*"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.cdphe.state.co.us/hs](http://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: Montezuma County residents, 2007**

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
<b>Total Live Births</b>	198	100.0	38	100.0	0	0.0	3	100.0	64	100.0
<b>Age of Mother</b>										
<b>10-17</b>	4	2.0	4	10.5	0	0.0	0	0.0	7	10.9
<b>18-19</b>	12	6.1	4	10.5	0	0.0	0	0.0	14	21.9
<b>20-29</b>	128	64.6	22	57.9	0	0.0	0	0.0	35	54.7
<b>30+</b>	54	27.3	8	21.1	0	0.0	3	100.0	8	12.5
<b>Low Weight Births (&lt;2,500 Grams)</b>	17	8.6	*	*	0	0.0	*	*	*	*
<b>Very Low Weight Births (&lt;1,500 Grams)</b>	*	*	0	0.0	0	0.0	*	*	*	*
<b>Prenatal Care Later than 1st Trimester/No Care</b>	46	26.1	8	26.7	0	0.0	*	*	20	37.7
<b>No Prenatal Care</b>	5	2.8	*	*	0	0.0	*	*	*	*
<b>Preterm Births (&lt;37 Weeks)</b>	16	8.1	*	*	0	0.0	*	*	*	*
<b>Education of Mother &lt;High School Diploma/GED</b>	20	10.2	15	39.5	0	0.0	0	0.0	28	44.4
<b>Live Births to Unmarried Women</b>	47	23.7	14	36.8	0	0.0	*	*	40	62.5
<b>Smoking During Pregnancy</b>	28	14.1	6	15.8	0	0.0	*	*	7	10.9

*"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](http://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:  
Montezuma County residents, 2007**

Age Group	Births	Population	Fertility Rate	Lower Limit	Upper Limit
All Ages	330	4,643	71.1	63.6	78.6
<b>Teen Age Groups</b>					
13-14	*	367	*	*	*
15-17	15	555	27.0	12.6	41.4
18-19	32	365	87.7	57.3	118.1
10-17	16	1,445	11.1	5.3	16.8
10-19	48	1,810	26.5	18.8	34.2
<b>All Age Groups</b>					
10-14	*	890	*	*	*
15-19	47	920	51.1	36.3	65.9
20-24	96	784	122.4	98.9	146.0
25-29	101	611	165.3	135.0	195.6
30-34	43	673	63.9	44.7	83.1
35-39	37	790	46.8	31.5	62.2
40-49	5	1,891	2.6	0.1	5.2

*\* 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](http://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: Montezuma County residents, 1997, 2003-2007

	1997	2003	2004	2005	2006	2007	2003-2007 Annual Average
<b>Total Population</b>	22,974	24,512	24,780	24,811	25,305	25,561	24,994
<b>Total Births</b>							
Number	273	312	301	311	310	330	313
Birth Rate	11.9	12.7	12.1	12.5	12.3	12.9	12.5
General Fertility Rate	59.4	67.5	65.3	67.7	67.0	71.1	67.7
<b>Age of Mother 10-17</b>							
Number	14	11	12	17	19	16	15
Percent of Total Births	5.1	3.5	4.0	5.5	6.1	4.8	4.8
Fertility Rate	9.5	7.5	8.3	11.8	13.2	11.1	10.4
<b>Low Weight Births (&lt;2,500 Grams)</b>							
Number	29	27	26	19	27	24	25
Percent	10.6	8.7	8.6	6.1	8.7	7.3	7.9
<b>Prenatal Care Later Than 1st Trimester/No Care</b>							
Number	79	88	92	79	109	80	90
Percent	29.0	33.7	36.2	29.0	38.4	28.0	33.0
<b>Births to Unmarried Women</b>							
Number	102	125	118	130	124	115	
Percent	37.4	40.1	39.2	41.8	40.0	34.8	
<b>Mother's Education &lt;12 Years</b>							
Number	53	61	77	73	74	65	
Percent	19.5	19.9	25.7	23.9	24.3	19.7	
<b>Infant Deaths</b>							
Number	*	*	*	*	3	3	*
Rate	*	*	*	*	9.7	9.1	*
<b>Neonatal Deaths</b>							
Number	*	*	*	*	*	*	*
Rate	*	*	*	*	*	*	*
<b>Total Deaths</b>							
Number	193	244	246	254	226	257	245
Crude Rate	840.1	995.4	992.7	1023.7	893.1	1005.4	981.8
Age-Adjusted Rate	839.5	934.1	919.5	934.9	816.4	907.9	900.7
<b>Cardiovascular Disease</b>							
Number	64	59	76	74	45	70	65
Age-Adjusted Rate	281.1	232.4	278.9	271.2	157.5	245.2	236.6
<b>Heart Disease</b>							
Number	55	45	61	60	30	50	49
Age-Adjusted Rate	241.8	177.5	222.8	219.0	103.1	174.3	178.7

(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: Montezuma County residents, 1997, 2003-2007

	1997	2003	2004	2005	2006	2007	2003-2007 Annual Average
<b>Cerebrovascular Disease</b>							
Number	9	12	12	12	10	16	12
Age-Adjusted Rate	39.3	46.7	46.0	45.6	38.4	56.9	46.7
<b>Malignant Neoplasms</b>							
Number	43	55	55	53	46	45	51
Age-Adjusted Rate	174.6	201.7	197.8	182.4	150.8	145.3	175.0
<b>Lung Cancer</b>							
Number	13	16	13	14	12	15	14
Age-Adjusted Rate	52.5	58.3	44.2	46.8	39.5	47.2	47.1
<b>Breast Cancer</b>							
Number	*	5	*	4	4	5	4
Age-Adjusted Rate	*	19.9	*	13.4	13.4	15.5	13.1
<b>Total Unintentional Injuries</b>							
Number	15	14	15	21	15	21	17
Age-Adjusted Rate	66.1	57.8	57.8	92.8	62.8	79.8	69.9
<b>Motor Vehicle</b>							
Number	8	7	11	14	5	9	9
Age-Adjusted Rate	35.5	29.2	43.6	63.1	22.2	33.4	38.1
<b>Other Unintentional Injuries</b>							
Number	7	7	4	7	10	12	8
Age-Adjusted Rate	30.7	28.6	14.2	29.7	40.7	46.4	31.8
<b>Chronic Lower Respiratory Diseases</b>							
Number	14	23	15	20	29	24	22
Age-Adjusted Rate	61.1	84.5	55.2	67.7	103.4	85.0	79.3
<b>Suicide</b>							
Number	4	4	6	7	6	8	6
Age-Adjusted Rate	16.2	15.7	25.7	27.4	24.5	31.5	25.0
<b>Homicide and Legal Intervention</b>							
Number	*	3	*	3	*	3	*
Age-Adjusted Rate	*	13.0	*	12.8	*	14.1	*
<b>Work-Related Injury</b>							
Number	0	*	3	3	0	0	*
Age-Adjusted Rate	0.0	*	11.7	12.8	0.0	0.0	*

**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: Montezuma County residents, 2007

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	%
<b>Total</b>	257	100.0	223	100.0	10	100.0	0	0.0	*	*	22	100.0
<b>Cardiovascular Disease</b>	70	27.2	63	28.3	3	30.0	0	0.0	0	0.0	4	18.2
Heart Disease	50	19.5	43	19.3	3	30.0	0	0.0	0	0.0	4	18.2
Cerebrovascular Disease	16	6.2	16	7.2	0	0.0	0	0.0	0	0.0	0	0.0
Atherosclerosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Malignant Neoplasms</b>	45	17.5	42	18.8	*	*	0	0.0	0	0.0	*	*
Lung Cancer	15	5.8	14	6.3	*	*	0	0.0	0	0.0	0	0.0
Breast Cancer	5	1.9	4	1.8	0	0.0	0	0.0	0	0.0	*	*
<b>Chronic Lower Respiratory Disease</b>	24	9.3	24	10.8	0	0.0	0	0.0	0	0.0	0	0.0
<b>Unintentional Injuries</b>	21	8.2	18	8.1	0	0.0	0	0.0	0	0.0	3	13.6
Motor Vehicle	9	3.5	8	3.6	0	0.0	0	0.0	0	0.0	*	*
Other Unintentional Injuries	12	4.7	10	4.5	0	0.0	0	0.0	0	0.0	*	*
<b>Pneumonia and Influenza</b>	4	1.6	4	1.8	0	0.0	0	0.0	0	0.0	0	0.0
<b>Suicide</b>	8	3.1	8	3.6	0	0.0	0	0.0	0	0.0	0	0.0
<b>Diabetes Mellitus</b>	8	3.1	7	3.1	0	0.0	0	0.0	0	0.0	*	*
<b>HIV Infection</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Chronic Liver Disease and Cirrhosis</b>	4	1.6	*	*	0	0.0	0	0.0	0	0.0	*	*
<b>Alzheimer's Disease</b>	5	1.9	5	2.2	0	0.0	0	0.0	0	0.0	0	0.0
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	6	2.3	4	1.8	0	0.0	0	0.0	0	0.0	*	*
<b>Homicide and Legal Intervention</b>	3	1.2	0	0.0	*	*	0	0.0	0	0.0	*	*
<b>Septicemia</b>	*	*	0	0.0	*	*	0	0.0	0	0.0	0	0.0
<b>Congenital Anomalies</b>	*	*	*	*	0	0.0	0	0.0	0	0.0	0	0.0
<b>Perinatal Period Conditions</b>	*	*	0	0.0	0	0.0	0	0.0	*	*	0	0.0
<b>All Other</b>	55	21.4	44	19.7	3	30.0	0	0.0	0	0.0	7	31.8
<b>Injury by Firearm</b>	8	3.1	5	2.2	*	*	0	0.0	0	0.0	*	*
<b>Drug-Induced Deaths</b>	3	1.2	3	1.3	0	0.0	0	0.0	0	0.0	0	0.0
<b>Alcohol-Induced Deaths</b>	3	1.2	*	*	0	0.0	0	0.0	0	0.0	*	*
<b>Work-Related Injury (Y/N Check Death Certificate)</b>	0	0.0	0	0.0	0	0.0	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: Montezuma County residents, 2007

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	257	25,561	10.1
Infant	3	330	9.1
Neonatal	*	330	*
1-4	0	1,291	0.0
5-9	0	1,738	0.0
10-14	*	1,852	*
15-19	*	1,935	*
20-24	0	1,675	0.0
25-29	*	1,191	*
30-34	3	1,357	2.2
35-39	6	1,525	3.9
40-44	5	1,678	3.0
45-49	5	1,953	2.6
50-54	13	1,971	6.6
55-59	12	1,800	6.7
60-64	16	1,432	11.2
65-69	10	1,143	8.7
70-74	19	978	19.4
75-79	35	760	46.1
80-84	42	551	76.2
85+	83	416	199.5
1-14	*	4,881	*
15-24	*	3,610	*
25-64	62	12,907	4.8
65+	189	3,848	49.1

\* 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: Montezuma County residents, 2007

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	3	9.1	*	*	*	*	16	2.8	46	6.4	189	49.1
Cardiovascular Disease	0	0.0	0	0.0	0	0.0	*	*	9	1.3	59	15.3
Heart Disease	0	0.0	0	0.0	0	0.0	*	*	8	1.1	40	10.4
Cerebrovascular Disease	0	0.0	0	0.0	0	0.0	0	0.0	*	*	15	3.9
Atherosclerosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Malignant Neoplasms	0	0.0	0	0.0	0	0.0	0	0.0	13	1.8	32	8.3
Lung Cancer	0	0.0	0	0.0	0	0.0	0	0.0	5	0.7	10	2.6
Breast Cancer	0	0.0	0	0.0	0	0.0	0	0.0	*	*	3	0.8
Chronic Lower Respiratory Diseases	0	0.0	0	0.0	0	0.0	*	*	*	*	22	5.7
Unintentional Injuries	0	0.0	0	0.0	*	*	6	1.0	6	0.8	8	2.1
Motor Vehicle	0	0.0	0	0.0	*	*	*	*	*	*	4	1.0
Other Unintentional Injuries	0	0.0	0	0.0	0	0.0	4	0.7	4	0.6	4	1.0
Pneumonia and Influenza	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	1.0
Suicide	0	0.0	*	*	0	0.0	*	*	*	*	3	0.8
Diabetes Mellitus	0	0.0	0	0.0	0	0.0	*	*	0	0.0	7	1.8
HIV Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Chronic Liver Disease and Cirrhosis	0	0.0	0	0.0	0	0.0	*	*	3	0.4	0	0.0
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	1.3
Nephritis, Nephrosis, Nephrotic Syndrome	0	0.0	0	0.0	0	0.0	0	0.0	*	*	5	1.3
Homicide and Legal Intervention	0	0.0	0	0.0	0	0.0	*	*	*	*	0	0.0
Septicemia	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	*	*
Congenital Anomalies	*	*	0	0.0	*	*	0	0.0	0	0.0	0	0.0
Perinatal Period Conditions	*	*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
All Other	*	*	0	0.0	0	0.0	*	*	10	1.4	43	11.2
Injury by Firearm	0	0.0	*	*	0	0.0	4	0.7	*	*	*	*
Drug-Induced Deaths	0	0.0	0	0.0	0	0.0	*	*	*	*	0	0.0
Alcohol-Induced Deaths	0	0.0	0	0.0	0	0.0	0	0.0	3	0.4	0	0.0
Work-Related Injury (Y/N Check Death Certificate)	0	0.0	0	0.0	0	0.0	0	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:  
Montezuma County residents, 2007**

Cause of Death	N	Rate	Age-Adjusted Rate	Lower Limit	Upper Limit
All Causes	257	1,005.4	907.9	800.7	1,015.0
Cardiovascular Disease	70	273.9	245.2	188.4	302.0
Heart Disease	50	195.6	174.3	126.0	222.5
Cerebrovascular Disease	16	62.6	56.9	29.2	84.6
Atherosclerosis	0	0.0	0.0	0.0	0.0
Malignant Neoplasms	45	176.0	145.3	102.8	187.9
Lung Cancer	15	58.7	47.2	23.2	71.2
Breast Cancer	5	19.6	15.5	4.0	34.5
Chronic Lower Respiratory Diseases	24	93.9	85.0	51.0	119.0
Unintentional Injuries	21	82.2	79.8	44.7	114.8
Motor Vehicle	9	35.2	33.4	14.7	59.5
Other Unintentional Injuries	12	46.9	46.4	19.4	73.4
Pneumonia and Influenza	4	15.6	14.3	3.4	32.7
Suicide	8	31.3	31.5	13.5	57.0
Diabetes Mellitus	8	31.3	29.0	11.9	53.7
HIV Infection	0	0.0	0.0	0.0	0.0
Chronic Liver Disease and Cirrhosis	4	15.6	13.9	3.2	32.1
Alzheimer's Disease	5	19.6	18.6	5.7	39.1
Nephritis, Nephrosis, Nephrotic Syndrome	6	23.5	21.0	7.0	42.6
Homicide and Legal Intervention	3	11.7	14.1	3.3	32.4
Septicemia	*	*	*	*	*
Congenital Anomalies	*	*	*	*	*
Perinatal Period Conditions	*	*	*	*	*
All Other	55	215.2	194.1	143.3	244.9
Injury by Firearm	8	31.3	35.7	16.2	62.8
Drug-Induced Deaths	3	11.7	11.5	2.1	28.5
Alcohol-Induced Deaths	3	11.7	8.8	1.0	24.2
Work-Related Injury (Y/N Check Death Certificate)	0	0.0	0.0	0.0	0.0

*\* 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)<sup>1,2,3</sup>. 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 Prevention<sup>4</sup>. *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 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](mailto:health.statistics@state.co.us).

### References:

- <sup>1</sup> 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](http://www.cdc.gov/nchs/vital_certs_rev.htm).
- <sup>2</sup> 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](http://www.cdc.gov/nchs/data/dvs/panelreport_acc.pdf).
- <sup>3</sup> 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.
- <sup>4</sup> NCHS Procedures for Multiple-Race and Hispanic Origin Data: Collection, Coding, Editing, and Transmitting. 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](http://www.cdc.gov/nchs/data/dvs/Multiple_race_docu_5-10-04.pdf).