

# Montezuma 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](mailto:health.statistics@state.co.us).

## Selected birth characteristics: Montezuma County residents, 2008

Characteristic	Number	Percent
Total Live Births	326	100.0
Age of Mother		
10-17	20	6.1
18-19	28	8.6
20-29	187	57.4
30+	91	27.9
Low Weight Births (<2,500 Grams)	17	5.2
Very Low Weight Births (<1,500 Grams)	*	*
Prenatal Care Later than 1st Trimester/No Care	81	26.7
No Prenatal Care	11	3.6
Preterm Births (<37 Weeks)	19	5.8
Education of Mother <High School Diploma/GED	83	25.9
Live Births to Unmarried Women	108	33.4
Smoking During Pregnancy	58	18.7

*"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](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, 2008

Characteristic	All Ages		10-17		18-19		20-29		30+	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Total Live Births</b>	326	100.0	20	100.0	28	100.0	187	100.0	91	100.0
<b>Race/Ethnicity of Mother</b>										
White Non-Hispanic	186	64.1	10	58.8	14	58.3	103	61.3	59	72.8
White Hispanic	19	6.6	*	*	*	*	11	6.5	5	6.2
Black	*	*	0	0.0	0	0.0	*	*	0	0.0
Other	84	29.0	6	35.3	8	33.3	53	31.5	17	21.0
<b>Low Weight Births (&lt;2,500 Grams)</b>	17	5.2	*	*	3	10.7	10	5.4	*	*
Very Low Weight Births (<1,500 Grams)	*	*	0	0.0	0	0.0	*	*	0	0.0
<b>Prenatal Care Later than 1st Trimester/No Care</b>	81	26.7	6	33.3	9	33.3	45	25.9	21	25.0
No Prenatal Care	11	3.6	0	0.0	*	*	5	2.9	5	6.0
<b>Preterm Births (&lt;37 Weeks)</b>	19	5.8	*	*	*	*	10	5.3	6	6.6
<b>Education of Mother &lt;High School Diploma/GED</b>	83	25.9	17	89.5	10	35.7	44	23.9	12	13.3
<b>Live Births to Unmarried Women</b>	108	33.1	12	60.0	20	71.4	60	32.1	16	17.6
<b>Smoking During Pregnancy</b>	58	18.7	6	35.3	3	11.5	32	17.8	17	19.5

*"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, 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
<b>Total Live Births</b>	186	100.0	19	100.0	*	*	4	100.0	66	100.0
<b>Age of Mother</b>										
<b>10-17</b>	10	5.4	*	*	0	0.0	0	0.0	6	9.1
<b>18-19</b>	14	7.5	*	*	0	0.0	0	0.0	7	10.6
<b>20-29</b>	103	55.4	11	57.9	*	*	3	75.0	40	60.6
<b>30+</b>	59	31.7	5	26.3	0	0.0	*	*	13	19.7
<b>Low Weight Births (&lt;2,500 Grams)</b>	10	5.4	*	*	0	0.0	0	0.0	5	7.6
<b>Very Low Weight Births (&lt;1,500 Grams)</b>	*	*	0	0.0	0	0.0	0	0.0	0	0.0
<b>Prenatal Care Later than 1st Trimester/No Care</b>	44	24.6	4	21.1	*	*	*	*	14	28.0
<b>No Prenatal Care</b>	10	5.6	*	*	0	0.0	0	0.0	0	0.0
<b>Preterm Births (&lt;37 Weeks)</b>	12	6.5	*	*	0	0.0	0	0.0	4	6.1
<b>Education of Mother &lt;High School Diploma/GED</b>	27	14.5	10	58.8	*	*	*	*	25	38.5
<b>Live Births to Unmarried Women</b>	51	27.4	5	26.3	*	*	0	0.0	37	56.1
<b>Smoking During Pregnancy</b>	40	21.7	3	16.7	0	0.0	0	0.0	4	7.4

*"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 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, 2008**

Age Group	Births	Population	Fertility Rate	Lower Limit	Upper Limit
All Ages	326	4,626	70.5	63.0	78.0
Teen Age Groups		*			
13-14	*	344	*	*	*
15-17	19	550	34.5	18.4	50.7
18-19	28	370	75.7	47.4	104.0
10-17	20	1,408	14.2	7.7	20.7
10-19	48	1,778	27.0	19.2	34.8
All Age Groups		*			
10-14	*	858	*	*	*
15-19	47	920	51.1	36.3	65.9
20-24	97	789	122.9	99.4	146.5
25-29	90	626	143.8	115.5	172.1
30-34	52	678	76.7	55.9	97.5
35-39	30	748	40.1	25.4	54.8
40-49	9	1,852	4.9	1.4	8.3

*\* 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, 1998, 2004-2008

	1998	2004	2005	2006	2007	2008	2004-2008 Annual Average
<b>Total Population</b>	23,114	24,780	24,825	25,300	25,559	25,716	25,236
<b>Total Births</b>							
Number	313	301	311	310	330	326	316
Birth Rate	13.5	12.1	12.5	12.3	12.9	12.7	12.5
General Fertility Rate	68.3	65.4	68.1	66.8	71.3	70.5	68.4
<b>Age of Mother 10-17</b>							
Number	11	12	17	19	16	20	17
Percent of Total Births	3.5	4.0	5.5	6.1	4.8	6.1	5.3
Fertility Rate	7.5	8.3	11.7	13.3	11.1	14.2	11.7
<b>Low Weight Births (&lt;2,500 Grams)</b>							
Number	24	26	19	27	24	17	23
Percent	7.7	8.6	6.1	8.7	7.3	5.2	7.2
<b>Prenatal Care Later Than 1st Trimester/No Care</b>							
Number	86	92	79	109	80	81	88
Percent	27.6	36.2	29.0	38.4	28.0	26.7	31.5
<b>Births to Unmarried Women</b>							
Number	111	118	130	124	115	108	
Percent	35.5	39.2	41.8	40.0	34.8	33.1	
<b>Mother's Education &lt;12 Years</b>							
Number	79	77	73	74	65	83	
Percent	25.2	25.7	23.9	24.3	19.7	25.5	
<b>Infant Deaths</b>							
Number	3	*	*	3	3	3	*
Rate	9.6	*	*	9.7	9.1	9.2	*
<b>Neonatal Deaths</b>							
Number	*	*	*	*	*	*	*
Rate	*	*	*	*	*	*	*
<b>Total Deaths</b>							
Number	218	246	254	226	257	262	249
Crude Rate	943.2	992.7	1023.2	893.3	1005.5	1018.8	986.7
Age-Adjusted Rate	921.9	919.4	929.4	814.0	904.2	892.3	890.8
<b>Cardiovascular Disease</b>							
Number	80	76	74	45	70	56	64
Age-Adjusted Rate	336.4	278.9	269.1	157.0	244.0	187.8	226.1
<b>Heart Disease</b>							
Number	64	61	60	30	50	43	49
Age-Adjusted Rate	267.4	222.7	217.3	102.7	173.5	145.4	171.2

(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, 1998, 2004-2008

	1998	2004	2005	2006	2007	2008	2004-2008 Annual Average
<b>Cerebrovascular Disease</b>							
Number	15	12	12	10	16	9	12
Age-Adjusted Rate	64.2	46.0	45.3	38.3	56.6	30.5	43.2
<b>Malignant Neoplasms</b>							
Number	41	55	53	46	45	53	50
Age-Adjusted Rate	164.7	197.8	181.1	150.4	144.7	173.8	169.0
<b>Lung Cancer</b>							
Number	12	13	14	12	15	10	13
Age-Adjusted Rate	45.9	44.2	46.5	39.5	47.0	30.7	41.4
<b>Breast Cancer</b>							
Number	*	*	4	4	5	*	3
Age-Adjusted Rate	*	*	13.3	13.5	15.4	*	10.5
<b>Total Unintentional Injuries</b>							
Number	15	15	21	15	21	12	17
Age-Adjusted Rate	66.0	57.8	93.4	62.7	79.7	47.9	67.8
<b>Motor Vehicle</b>							
Number	6	11	14	5	9	4	9
Age-Adjusted Rate	27.9	43.6	63.6	22.1	33.3	15.4	35.3
<b>Other Unintentional Injuries</b>							
Number	9	4	7	10	12	8	8
Age-Adjusted Rate	38.1	14.2	29.7	40.6	46.4	32.5	32.6
<b>Chronic Lower Respiratory Diseases</b>							
Number	21	15	20	29	24	29	23
Age-Adjusted Rate	89.2	55.2	67.2	103.0	84.6	96.6	81.8
<b>Suicide</b>							
Number	3	6	7	6	8	7	7
Age-Adjusted Rate	14.6	25.7	27.4	24.4	31.4	28.5	27.4
<b>Homicide and Legal Intervention</b>							
Number	*	*	3	*	3	4	*
Age-Adjusted Rate	*	*	12.8	*	14.1	14.8	*
<b>Work-Related Injury</b>							
Number	3	3	3	0	0	0	*
Age-Adjusted Rate	14.1	11.7	12.8	0.0	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, 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	%
<b>Total</b>	262	100.0	236	100.0	9	100.0	*	*	0	0.0	15	100.0
<b>Cardiovascular Disease</b>	56	21.4	51	21.6	*	*	*	*	0	0.0	*	*
Heart Disease	43	16.4	38	16.1	*	*	*	*	0	0.0	*	*
Cerebrovascular Disease	9	3.4	9	3.8	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>	53	20.2	49	20.8	*	*	0	0.0	0	0.0	*	*
Lung Cancer	10	3.8	10	4.2	0	0.0	0	0.0	0	0.0	0	0.0
Breast Cancer	*	*	*	*	0	0.0	0	0.0	0	0.0	0	0.0
<b>Chronic Lower Respiratory Disease</b>	29	11.1	29	12.3	0	0.0	0	0.0	0	0.0	0	0.0
<b>Unintentional Injuries</b>	12	4.6	11	4.7	0	0.0	0	0.0	0	0.0	*	*
Motor Vehicle	4	1.5	4	1.7	0	0.0	0	0.0	0	0.0	0	0.0
Other Unintentional Injuries	8	3.1	7	3.0	0	0.0	0	0.0	0	0.0	*	*
<b>Pneumonia and Influenza</b>	*	*	*	*	0	0.0	0	0.0	0	0.0	*	*
<b>Suicide</b>	7	2.7	7	3.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Diabetes Mellitus</b>	9	3.4	6	2.5	3	33.3	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>	7	2.7	4	1.7	*	*	0	0.0	0	0.0	*	*
<b>Alzheimer's Disease</b>	12	4.6	12	5.1	0	0.0	0	0.0	0	0.0	0	0.0
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	5	1.9	5	2.1	0	0.0	0	0.0	0	0.0	0	0.0
<b>Homicide and Legal Intervention</b>	4	1.5	*	*	0	0.0	0	0.0	0	0.0	*	*
<b>Septicemia</b>	4	1.5	*	*	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	0	0.0	0	0.0
<b>All Other</b>	60	22.9	55	23.3	*	*	0	0.0	0	0.0	3	20.0
<b>Injury by Firearm</b>	5	1.9	5	2.1	0	0.0	0	0.0	0	0.0	0	0.0
<b>Drug-Induced Deaths</b>	4	1.5	4	1.7	0	0.0	0	0.0	0	0.0	0	0.0
<b>Alcohol-Induced Deaths</b>	7	2.7	5	2.1	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, 2008

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	262	25,716	10.2
Infant	3	326	9.2
Neonatal	*	326	*
1-4	*	1,270	*
5-9	0	1,773	0.0
10-14	0	1,754	0.0
15-19	3	1,962	1.5
20-24	*	1,665	*
25-29	0	1,268	0.0
30-34	*	1,307	*
35-39	6	1,511	4.0
40-44	5	1,656	3.0
45-49	10	1,878	5.3
50-54	10	2,010	5.0
55-59	18	1,851	9.7
60-64	9	1,498	6.0
65-69	20	1,181	16.9
70-74	16	1,015	15.8
75-79	41	784	52.3
80-84	34	571	59.5
85+	82	434	188.9
1-14	*	4,797	*
15-24	5	3,627	1.4
25-64	60	12,979	4.6
65+	193	3,985	48.4

\* 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: Montezuma 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	3	9.2	*	*	5	1.4	13	2.3	47	6.5	193	48.4
Cardiovascular Disease	0	0.0	0	0.0	*	*	*	*	4	0.6	50	12.5
Heart Disease	0	0.0	0	0.0	*	*	*	*	*	*	39	9.8
Cerebrovascular Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	9	2.3
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	*	*	18	2.5	33	8.3
Lung Cancer	0	0.0	0	0.0	0	0.0	0	0.0	5	0.7	5	1.3
Breast Cancer	0	0.0	0	0.0	0	0.0	0	0.0	*	*	0	0.0
Chronic Lower Respiratory Diseases	0	0.0	0	0.0	0	0.0	0	0.0	*	*	28	7.0
Unintentional Injuries	0	0.0	0	0.0	*	*	4	0.7	3	0.4	3	0.8
Motor Vehicle	0	0.0	0	0.0	*	*	*	*	*	*	0	0.0
Other Unintentional Injuries	0	0.0	0	0.0	0	0.0	3	0.5	*	*	3	0.8
Pneumonia and Influenza	*	*	0	0.0	0	0.0	0	0.0	0	0.0	*	*
Suicide	0	0.0	0	0.0	0	0.0	3	0.5	4	0.6	0	0.0
Diabetes Mellitus	0	0.0	0	0.0	0	0.0	0	0.0	*	*	8	2.0
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	*	*	4	0.6	*	*
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	12	3.0
Nephritis, Nephrosis, Nephrotic Syndrome	0	0.0	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	3	0.4	0	0.0
Septicemia	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	0	0.0
Perinatal Period Conditions	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
All Other	0	0.0	0	0.0	*	*	*	*	7	1.0	50	12.5
Injury by Firearm	0	0.0	0	0.0	0	0.0	*	*	3	0.4	0	0.0
Drug-Induced Deaths	0	0.0	0	0.0	0	0.0	*	*	*	*	*	*
Alcohol-Induced Deaths	0	0.0	0	0.0	*	*	*	*	3	0.4	*	*
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, 2008**

Cause of Death	N	Rate	Age-Adjusted Rate	Lower Limit	Upper Limit
All Causes	262	1,018.8	892.3	787.5	997.0
Cardiovascular Disease	56	217.8	187.8	138.9	236.6
Heart Disease	43	167.2	145.4	102.1	188.7
Cerebrovascular Disease	9	35.0	30.5	12.9	55.6
Atherosclerosis	0	0.0	0.0	0.0	0.0
Malignant Neoplasms	53	206.1	173.8	126.7	220.9
Lung Cancer	10	38.9	30.7	13.0	55.8
Breast Cancer	*	*	*	*	*
Chronic Lower Respiratory Diseases	29	112.8	96.6	61.6	131.5
Unintentional Injuries	12	46.7	47.9	20.2	75.6
Motor Vehicle	4	15.6	15.4	4.0	34.3
Other Unintentional Injuries	8	31.1	32.5	14.2	58.3
Pneumonia and Influenza	*	*	*	*	*
Suicide	7	27.2	28.5	11.6	52.9
Diabetes Mellitus	9	35.0	29.0	11.9	53.5
HIV Infection	0	0.0	0.0	0.0	0.0
Chronic Liver Disease and Cirrhosis	7	27.2	24.9	9.3	47.9
Alzheimer's Disease	12	46.7	42.1	18.5	65.7
Nephritis, Nephrosis, Nephrotic Syndrome	5	19.4	16.8	4.7	36.3
Homicide and Legal Intervention	4	15.6	14.8	3.6	33.3
Septicemia	4	15.6	11.2	2.0	27.9
Congenital Anomalies	*	*	*	*	*
Perinatal Period Conditions	0	0.0	0.0	0.0	0.0
All Other	60	233.3	203.0	152.1	253.9
Injury by Firearm	5	19.4	19.8	6.3	40.9
Drug-Induced Deaths	4	15.6	17.0	4.8	36.9
Alcohol-Induced Deaths	7	27.2	26.1	10.0	49.7
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 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](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 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](http://www.cdc.gov/nchs/data/dvs/Multiple_race_docu_5-10-04.pdf).