

# Montrose 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: Montrose County residents, 2008

Characteristic	Number	Percent
Total Live Births	568	100.0
Age of Mother		
10-17	21	3.7
18-19	57	10.0
20-29	334	58.8
30+	156	27.5
Low Weight Births (<2,500 Grams)	61	10.7
Very Low Weight Births (<1,500 Grams)	5	0.9
Prenatal Care Later than 1st Trimester/No Care	172	30.5
No Prenatal Care	11	2.0
Preterm Births (<37 Weeks)	55	9.7
Education of Mother <High School Diploma/GED	150	26.9
Live Births to Unmarried Women	144	25.4
Smoking During Pregnancy	63	11.1

*"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](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: Montrose 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>	568	100.0	21	100.0	57	100.0	334	100.0	156	100.0
<b>Race/Ethnicity of Mother</b>										
White Non-Hispanic	369	65.5	10	47.6	40	71.4	215	65.2	104	66.7
White Hispanic	151	26.8	10	47.6	15	26.8	93	28.2	33	21.2
Black	*	*	0	0.0	0	0.0	0	0.0	*	*
Other	41	7.3	*	*	*	*	22	6.7	17	10.9
<b>Low Weight Births (&lt;2,500 Grams)</b>	61	10.7	*	*	7	12.3	28	8.4	25	16.0
Very Low Weight Births (<1,500 Grams)	5	0.9	0	0.0	0	0.0	*	*	3	1.9
<b>Prenatal Care Later than 1st Trimester/No Care</b>	172	30.5	17	81.0	17	29.8	101	30.5	37	23.9
No Prenatal Care	11	2.0	*	*	*	*	6	1.8	*	*
<b>Preterm Births (&lt;37 Weeks)</b>	55	9.7	*	*	7	12.3	28	8.4	19	12.2
<b>Education of Mother &lt;High School Diploma/GED</b>	150	26.9	20	95.2	22	39.3	80	24.5	28	18.1
<b>Live Births to Unmarried Women</b>	144	25.4	18	85.7	27	47.4	84	25.1	15	9.6
<b>Smoking During Pregnancy</b>	63	11.1	3	14.3	9	15.8	42	12.6	9	5.8

*"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](http://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: Montrose 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>	369	100.0	151	100.0	*	*	10	100.0	6	100.0
<b>Age of Mother</b>										
<b>10-17</b>	10	2.7	10	6.6	0	0.0	0	0.0	0	0.0
<b>18-19</b>	40	10.8	15	9.9	0	0.0	0	0.0	0	0.0
<b>20-29</b>	215	58.3	93	61.6	0	0.0	5	50.0	3	50.0
<b>30+</b>	104	28.2	33	21.9	*	*	5	50.0	3	50.0
<b>Low Weight Births (&lt;2,500 Grams)</b>	44	11.9	13	8.6	*	*	*	*	*	*
<b>Very Low Weight Births (&lt;1,500 Grams)</b>	4	1.1	*	*	0	0.0	0	0.0	0	0.0
<b>Prenatal Care Later than 1st Trimester/No Care</b>	97	26.5	63	41.7	0	0.0	3	30.0	*	*
<b>No Prenatal Care</b>	7	1.9	4	2.6	0	0.0	0	0.0	0	0.0
<b>Preterm Births (&lt;37 Weeks)</b>	37	10.0	14	9.3	0	0.0	*	*	*	*
<b>Education of Mother &lt;High School Diploma/GED</b>	47	12.8	84	57.5	0	0.0	*	*	*	*
<b>Live Births to Unmarried Women</b>	90	24.4	43	28.5	0	0.0	*	*	*	*
<b>Smoking During Pregnancy</b>	53	14.4	9	6.0	0	0.0	0	0.0	0	0.0

*"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](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: Montrose County residents, 2008**

Age Group	Births	Population	Fertility Rate	Lower Limit	Upper Limit
All Ages	568	7,780	73.0	67.2	78.9
Teen Age Groups		*			
13-14	*	568	*	*	*
15-17	20	878	22.8	12.3	33.2
18-19	57	556	102.5	76.4	128.6
10-17	21	2,319	9.1	5.0	13.1
10-19	78	2,875	27.1	21.0	33.2
All Age Groups		*			
10-14	*	1,441	*	*	*
15-19	77	1,434	53.7	41.7	65.7
20-24	171	1,282	133.4	114.4	152.4
25-29	163	1,202	135.6	115.8	155.4
30-34	93	1,247	74.6	59.6	89.6
35-39	49	1,335	36.7	26.2	47.2
40-49	14	2,794	5.0	2.2	7.8

*\* 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: Montrose County residents, 1998, 2004-2008

	1998	2004	2005	2006	2007	2008	2004-2008 Annual Average
<b>Total Population</b>	31,833	36,743	37,775	38,862	40,260	41,299	38,988
<b>Total Births</b>							
Number	428	496	521	493	556	568	527
Birth Rate	13.4	13.5	13.8	12.7	13.8	13.8	13.5
General Fertility Rate	70.6	72.4	74.0	68.0	73.3	73.0	72.2
<b>Age of Mother 10-17</b>							
Number	28	22	15	19	27	21	21
Percent of Total Births	6.5	4.4	2.9	3.9	4.9	3.7	3.9
Fertility Rate	14.4	10.3	6.9	8.6	11.8	9.1	9.4
<b>Low Weight Births (&lt;2,500 Grams)</b>							
Number	33	46	42	32	52	61	47
Percent	7.7	9.3	8.1	6.5	9.4	10.7	8.8
<b>Prenatal Care Later Than 1st Trimester/No Care</b>							
Number	128	176	222	198	176	172	189
Percent	30.0	35.9	42.9	40.5	31.9	30.5	36.1
<b>Births to Unmarried Women</b>							
Number	141	151	133	141	150	144	
Percent	32.9	30.4	25.5	28.6	27.0	25.4	
<b>Mother's Education &lt;12 Years</b>							
Number	132	138	131	120	165	150	
Percent	31.3	29.4	26.1	26.3	29.7	26.4	
<b>Infant Deaths</b>							
Number	*	*	*	3	6	4	3
Rate	*	*	*	6.1	10.8	7.0	6.5
<b>Neonatal Deaths</b>							
Number	0	*	0	3	4	*	*
Rate	0.0	*	0.0	6.1	7.2	*	*
<b>Total Deaths</b>							
Number	348	339	330	365	386	367	357
Crude Rate	1093.2	922.6	873.6	939.2	958.8	888.6	916.7
Age-Adjusted Rate	926.6	754.7	728.4	764.7	791.3	733.5	754.5
<b>Cardiovascular Disease</b>							
Number	117	104	100	119	98	106	105
Age-Adjusted Rate	306.5	227.1	211.7	241.4	193.0	207.8	215.8
<b>Heart Disease</b>							
Number	95	77	77	87	75	79	79
Age-Adjusted Rate	249.4	166.4	163.9	175.3	148.4	153.3	161.2

(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: Montrose County residents, 1998, 2004-2008

	1998	2004	2005	2006	2007	2008	2004-2008 Annual Average
<b>Cerebrovascular Disease</b>							
Number	22	17	16	23	19	22	19
Age-Adjusted Rate	57.1	39.2	33.1	47.9	36.5	44.6	40.3
<b>Malignant Neoplasms</b>							
Number	73	69	69	70	92	93	79
Age-Adjusted Rate	194.1	155.1	152.9	147.7	189.9	187.5	167.2
<b>Lung Cancer</b>							
Number	20	19	18	28	24	20	22
Age-Adjusted Rate	51.8	43.7	39.2	59.4	48.7	40.0	46.2
<b>Breast Cancer</b>							
Number	4	3	*	*	*	8	3
Age-Adjusted Rate	10.4	6.5	*	*	*	16.0	7.2
<b>Total Unintentional Injuries</b>							
Number	22	18	18	20	26	29	22
Age-Adjusted Rate	68.1	46.8	47.4	47.2	56.7	65.8	52.9
<b>Motor Vehicle</b>							
Number	10	8	5	5	3	11	6
Age-Adjusted Rate	33.9	20.2	13.4	12.5	7.8	26.2	16.0
<b>Other Unintentional Injuries</b>							
Number	12	10	13	15	23	18	16
Age-Adjusted Rate	34.2	26.6	34.0	34.7	48.9	39.5	36.9
<b>Chronic Lower Respiratory Diseases</b>							
Number	27	38	22	32	33	30	31
Age-Adjusted Rate	70.1	84.5	47.3	66.5	65.3	58.2	64.2
<b>Suicide</b>							
Number	5	7	11	6	11	6	8
Age-Adjusted Rate	16.9	18.1	29.4	13.8	27.7	13.9	20.6
<b>Homicide and Legal Intervention</b>							
Number	0	0	*	*	*	0	*
Age-Adjusted Rate	0.0	0.0	*	*	*	0.0	*
<b>Work-Related Injury</b>							
Number	0	*	0	*	3	*	*
Age-Adjusted Rate	0.0	*	0.0	*	6.9	*	*

**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: Montrose 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>	367	100.0	338	100.0	27	100.0	*	*	0	0.0	0	0.0
<b>Cardiovascular Disease</b>	106	28.9	98	29.0	6	22.2	*	*	0	0.0	0	0.0
Heart Disease	79	21.5	73	21.6	5	18.5	*	*	0	0.0	0	0.0
Cerebrovascular Disease	22	6.0	20	5.9	*	*	*	*	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>	93	25.3	87	25.7	6	22.2	0	0.0	0	0.0	0	0.0
Lung Cancer	20	5.4	19	5.6	*	*	0	0.0	0	0.0	0	0.0
Breast Cancer	8	2.2	7	2.1	*	*	0	0.0	0	0.0	0	0.0
<b>Chronic Lower Respiratory Disease</b>	30	8.2	28	8.3	*	*	0	0.0	0	0.0	0	0.0
<b>Unintentional Injuries</b>	29	7.9	24	7.1	5	18.5	0	0.0	0	0.0	0	0.0
Motor Vehicle	11	3.0	9	2.7	*	*	0	0.0	0	0.0	0	0.0
Other Unintentional Injuries	18	4.9	15	4.4	3	11.1	0	0.0	0	0.0	0	0.0
<b>Pneumonia and Influenza</b>	7	1.9	6	1.8	*	*	0	0.0	0	0.0	0	0.0
<b>Suicide</b>	6	1.6	6	1.8	0	0.0	0	0.0	0	0.0	0	0.0
<b>Diabetes Mellitus</b>	6	1.6	6	1.8	0	0.0	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	1.9	7	2.1	0	0.0	0	0.0	0	0.0	0	0.0
<b>Alzheimer's Disease</b>	11	3.0	11	3.3	0	0.0	0	0.0	0	0.0	0	0.0
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	*	*	*	*	0	0.0	0	0.0	0	0.0	0	0.0
<b>Homicide and Legal Intervention</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Septicemia</b>	5	1.4	4	1.2	*	*	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	0	0.0	0	0.0
<b>Perinatal Period Conditions</b>	*	*	*	*	*	*	0	0.0	0	0.0	0	0.0
<b>All Other</b>	64	17.4	59	17.5	5	18.5	0	0.0	0	0.0	0	0.0
<b>Injury by Firearm</b>	3	0.8	3	0.9	0	0.0	0	0.0	0	0.0	0	0.0
<b>Drug-Induced Deaths</b>	4	1.1	4	1.2	0	0.0	0	0.0	0	0.0	0	0.0
<b>Alcohol-Induced Deaths</b>	7	1.9	7	2.1	0	0.0	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

\* 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: Montrose County residents, 2008

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	367	41,299	8.9
Infant	4	568	7.0
Neonatal	*	568	*
1-4	*	2,244	*
5-9	*	2,845	*
10-14	*	2,932	*
15-19	0	2,884	0.0
20-24	3	2,663	1.1
25-29	*	2,441	*
30-34	5	2,474	2.0
35-39	0	2,636	0.0
40-44	7	2,645	2.6
45-49	10	2,948	3.4
50-54	18	2,914	6.2
55-59	12	2,591	4.6
60-64	14	2,165	6.5
65-69	28	1,744	16.1
70-74	36	1,531	23.5
75-79	59	1,338	44.1
80-84	51	905	56.4
85+	114	868	131.3
1-14	4	8,021	0.5
15-24	3	5,547	0.5
25-64	68	20,814	3.3
65+	288	6,386	45.1

\* 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: Montrose 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	4	7.0	4	0.5	3	0.5	14	1.4	54	5.1	288	45.1
Cardiovascular Disease	0	0.0	0	0.0	0	0.0	3	0.3	13	1.2	90	14.1
Heart Disease	0	0.0	0	0.0	0	0.0	*	*	10	0.9	68	10.6
Cerebrovascular Disease	0	0.0	0	0.0	0	0.0	*	*	*	*	18	2.8
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	3	0.3	16	1.5	73	11.4
Lung Cancer	0	0.0	0	0.0	0	0.0	0	0.0	4	0.4	16	2.5
Breast Cancer	0	0.0	0	0.0	0	0.0	0	0.0	*	*	6	0.9
Chronic Lower Respiratory Diseases	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	30	4.7
Unintentional Injuries	0	0.0	3	0.4	*	*	5	0.5	10	0.9	10	1.6
Motor Vehicle	0	0.0	*	*	*	*	3	0.3	4	0.4	*	*
Other Unintentional Injuries	0	0.0	*	*	0	0.0	*	*	6	0.6	8	1.3
Pneumonia and Influenza	*	*	0	0.0	0	0.0	0	0.0	0	0.0	6	0.9
Suicide	0	0.0	0	0.0	*	*	*	*	*	*	*	*
Diabetes Mellitus	0	0.0	0	0.0	0	0.0	0	0.0	*	*	5	0.8
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	0	0.0	4	0.4	3	0.5
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	11	1.7
Nephritis, Nephrosis, Nephrotic Syndrome	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	*	*
Homicide and Legal Intervention	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Septicemia	0	0.0	0	0.0	0	0.0	*	*	*	*	3	0.5
Congenital Anomalies	0	0.0	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
All Other	*	*	0	0.0	0	0.0	*	*	7	0.7	55	8.6
Injury by Firearm	0	0.0	0	0.0	0	0.0	0	0.0	*	*	*	*
Drug-Induced Deaths	0	0.0	0	0.0	0	0.0	*	*	3	0.3	0	0.0
Alcohol-Induced Deaths	0	0.0	0	0.0	0	0.0	0	0.0	5	0.5	*	*
Work-Related Injury (Y/N Check Death Certificate)	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:  
Montrose County residents, 2008**

Cause of Death	N	Rate	Age-Adjusted Rate	Lower Limit	Upper Limit
All Causes	367	888.6	733.5	659.8	807.2
Cardiovascular Disease	106	256.7	207.8	168.4	247.2
Heart Disease	79	191.3	153.3	119.7	187.0
Cerebrovascular Disease	22	53.3	44.6	25.7	63.5
Atherosclerosis	0	0.0	0.0	0.0	0.0
Malignant Neoplasms	93	225.2	187.5	149.3	225.6
Lung Cancer	20	48.4	40.0	22.4	57.5
Breast Cancer	8	19.4	16.0	6.1	30.5
Chronic Lower Respiratory Diseases	30	72.6	58.2	37.4	79.0
Unintentional Injuries	29	70.2	65.8	41.5	90.0
Motor Vehicle	11	26.6	26.2	12.9	44.2
Other Unintentional Injuries	18	43.6	39.5	21.0	58.0
Pneumonia and Influenza	7	16.9	14.4	5.2	28.3
Suicide	6	14.5	13.9	4.8	27.6
Diabetes Mellitus	6	14.5	11.9	3.7	24.7
HIV Infection	0	0.0	0.0	0.0	0.0
Chronic Liver Disease and Cirrhosis	7	16.9	14.5	5.2	28.5
Alzheimer's Disease	11	26.6	20.1	8.7	36.1
Nephritis, Nephrosis, Nephrotic Syndrome	*	*	*	*	*
Homicide and Legal Intervention	0	0.0	0.0	0.0	0.0
Septicemia	5	12.1	10.8	3.1	23.2
Congenital Anomalies	0	0.0	0.0	0.0	0.0
Perinatal Period Conditions	*	*	*	*	*
All Other	64	155.0	121.6	92.0	151.2
Injury by Firearm	3	7.3	6.1	0.9	16.1
Drug-Induced Deaths	4	9.7	9.7	2.5	21.6
Alcohol-Induced Deaths	7	16.9	15.0	5.5	29.3
Work-Related Injury (Y/N Check Death Certificate)	*	*	*	*	*

*\* 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).