

# Adams County Births and Deaths 2008

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

## Selected birth characteristics: Adams County residents, 2008

Characteristic	Number	Percent
Total Live Births	7,848	100.0
Age of Mother		
10-17	310	4.0
18-19	599	7.6
20-29	4,316	55.0
30+	2,619	33.4
Low Weight Births (<2,500 Grams)	714	9.1
Very Low Weight Births (<1,500 Grams)	105	1.3
Prenatal Care Later than 1st Trimester/No Care	1,782	24.3
No Prenatal Care	146	2.0
Preterm Births (<37 Weeks)	779	9.9
Education of Mother <High School Diploma/GED	2,261	29.5
Live Births to Unmarried Women	2,187	27.9
Smoking During Pregnancy	633	8.1

*"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: Adams 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>	7,848	100.0	310	100.0	599	100.0	4,316	100.0	2,619	100.0
<b>Race/Ethnicity of Mother</b>										
White Non-Hispanic	3,506	46.9	69	23.9	176	31.1	1,923	46.5	1,335	53.6
White Hispanic	3,194	42.7	187	64.7	323	57.1	1,786	43.2	898	36.1
Black	227	3.0	13	4.5	30	5.3	128	3.1	56	2.2
Other	554	7.4	20	6.9	37	6.5	296	7.2	201	8.1
<b>Low Weight Births (&lt;2,500 Grams)</b>	714	9.1	27	8.7	68	11.4	364	8.4	255	9.7
Very Low Weight Births (<1,500 Grams)	105	1.3	6	1.9	12	2.0	45	1.0	42	1.6
<b>Prenatal Care Later than 1st Trimester/No Care</b>	1,782	24.3	121	42.0	206	37.1	984	24.4	468	19.2
No Prenatal Care	146	2.0	7	2.4	11	2.0	84	2.1	43	1.8
<b>Preterm Births (&lt;37 Weeks)</b>	779	9.9	27	8.7	61	10.2	398	9.2	291	11.1
<b>Education of Mother &lt;High School Diploma/GED</b>	2,261	29.5	275	91.4	285	48.7	1,163	27.5	538	21.1
<b>Live Births to Unmarried Women</b>	2,187	27.9	259	83.5	344	57.4	1,238	28.7	346	13.2
<b>Smoking During Pregnancy</b>	633	8.1	23	7.5	61	10.2	395	9.2	154	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.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: Adams 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>	3,506	100.0	3,194	100.0	227	100.0	326	100.0	67	100.0
<b>Age of Mother</b>										
<b>10-17</b>	69	2.0	187	5.9	13	5.7	3	0.9	5	7.5
<b>18-19</b>	176	5.0	323	10.1	30	13.2	12	3.7	7	10.4
<b>20-29</b>	1,923	54.8	1,786	55.9	128	56.4	160	49.1	39	58.2
<b>30+</b>	1,335	38.1	898	28.1	56	24.7	151	46.3	16	23.9
<b>Low Weight Births (&lt;2,500 Grams)</b>	319	9.1	275	8.6	40	17.6	38	11.7	6	9.0
<b>Very Low Weight Births (&lt;1,500 Grams)</b>	48	1.4	42	1.3	6	2.6	5	1.5	*	*
<b>Prenatal Care Later than 1st Trimester/No Care</b>	596	17.8	911	30.5	78	37.1	78	25.9	17	26.6
<b>No Prenatal Care</b>	41	1.2	83	2.8	7	3.3	6	2.0	5	7.8
<b>Preterm Births (&lt;37 Weeks)</b>	364	10.4	303	9.5	31	13.7	31	9.5	9	13.4
<b>Education of Mother &lt;High School Diploma/GED</b>	374	10.8	1,522	48.6	51	23.3	46	14.6	23	34.3
<b>Live Births to Unmarried Women</b>	747	21.3	1,075	33.7	111	48.9	49	15.0	31	46.3
<b>Smoking During Pregnancy</b>	447	12.8	124	3.9	18	7.9	5	1.5	10	14.9

***"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: Adams County residents, 2008**

<b>Age Group</b>	<b>Births</b>	<b>Population</b>	<b>Fertility Rate</b>	<b>Lower Limit</b>	<b>Upper Limit</b>
<b>All Ages</b>	7,848	95,046	82.6	80.8	84.3
<b>Teen Age Groups</b>		*			
<b>13-14</b>	11	6,209	1.8	0.6	2.9
<b>15-17</b>	299	9,581	31.2	27.7	34.7
<b>18-19</b>	599	6,202	96.6	89.1	104.0
<b>10-17</b>	310	25,237	12.3	10.9	13.7
<b>10-19</b>	909	31,439	28.9	27.0	30.8
<b>All Age Groups</b>		*			
<b>10-14</b>	11	15,656	0.7	0.3	1.1
<b>15-19</b>	898	15,783	56.9	53.3	60.5
<b>20-24</b>	2,015	15,203	132.5	127.1	138.0
<b>25-29</b>	2,301	14,999	153.4	147.6	159.2
<b>30-34</b>	1,679	15,907	105.6	100.7	110.4
<b>35-39</b>	785	17,092	45.9	42.8	49.1
<b>40-49</b>	153	31,896	4.8	4.0	5.6

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

	1998	2004	2005	2006	2007	2008	2004-2008 Annual Average
<b>Total Population</b>	344,025	390,587	401,332	414,652	424,379	434,761	413,142
<b>Total Births</b>							
Number	6,043	7,483	7,689	7,828	7,808	7,848	7,731
Birth Rate	17.6	19.2	19.2	18.9	18.4	18.1	18.7
General Fertility Rate	74.7	85.5	86.1	85.0	83.6	82.6	84.5
<b>Age of Mother 10-17</b>							
Number	356	351	396	373	326	310	351
Percent of Total Births	5.9	4.7	5.2	4.8	4.2	4.0	4.5
Fertility Rate	17.8	15.2	16.7	15.3	13.2	12.3	14.5
<b>Low Weight Births (&lt;2,500 Grams)</b>							
Number	558	682	691	705	714	714	701
Percent	9.2	9.1	9.0	9.0	9.1	9.1	9.1
<b>Prenatal Care Later Than 1st Trimester/No Care</b>							
Number	1,240	1,576	1,449	1,518	1,704	1,782	1,606
Percent	20.7	21.4	19.1	19.8	22.9	24.3	21.5
<b>Births to Unmarried Women</b>							
Number	1,854	2,442	2,421	2,403	2,251	2,187	
Percent	30.7	32.6	31.5	30.7	28.8	27.9	
<b>Mother's Education &lt;12 Years</b>							
Number	1,391	2,346	2,365	2,260	2,290	2,261	
Percent	23.7	32.0	31.8	30.3	29.3	28.8	
<b>Infant Deaths</b>							
Number	49	55	62	45	51	51	53
Rate	8.1	7.3	8.1	5.7	6.5	6.5	6.8
<b>Neonatal Deaths</b>							
Number	29	42	50	38	35	30	39
Rate	4.8	5.6	6.5	4.9	4.5	3.8	5.0
<b>Total Deaths</b>							
Number	2,095	2,214	2,321	2,249	2,336	2,479	2,320
Crude Rate	609.0	566.8	578.3	542.4	550.5	570.2	561.5
Age-Adjusted Rate	962.6	915.5	946.7	920.7	917.4	939.6	927.9
<b>Cardiovascular Disease</b>							
Number	618	664	620	596	590	622	618
Age-Adjusted Rate	306.7	301.6	286.5	272.7	254.6	257.9	274.0
<b>Heart Disease</b>							
Number	484	475	445	440	436	444	448
Age-Adjusted Rate	238.6	210.4	204.7	197.7	185.5	182.4	195.7

(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: Adams County residents, 1998, 2004-2008

	1998	2004	2005	2006	2007	2008	2004-2008 Annual Average
<b>Cerebrovascular Disease</b>							
Number	127	107	98	93	81	110	98
Age-Adjusted Rate	64.6	50.2	42.9	43.1	34.6	47.3	43.6
<b>Malignant Neoplasms</b>							
Number	465	472	516	515	537	556	519
Age-Adjusted Rate	204.2	185.8	201.3	202.1	203.3	203.0	199.2
<b>Lung Cancer</b>							
Number	112	135	129	123	139	162	138
Age-Adjusted Rate	49.1	52.8	51.2	49.4	53.2	58.9	53.2
<b>Breast Cancer</b>							
Number	41	29	38	27	36	27	31
Age-Adjusted Rate	16.2	10.8	14.2	8.9	12.6	8.2	10.9
<b>Total Unintentional Injuries</b>							
Number	116	154	179	181	167	180	172
Age-Adjusted Rate	39.6	50.6	56.7	54.1	51.4	50.8	52.7
<b>Motor Vehicle</b>							
Number	52	57	65	48	40	57	53
Age-Adjusted Rate	16.2	15.2	16.6	12.5	10.2	13.6	13.6
<b>Other Unintentional Injuries</b>							
Number	64	97	114	133	127	123	119
Age-Adjusted Rate	23.4	35.4	40.0	41.6	41.2	37.2	39.1
<b>Chronic Lower Respiratory Diseases</b>							
Number	168	160	173	158	173	198	172
Age-Adjusted Rate	78.0	72.0	78.5	68.8	72.8	82.3	75.0
<b>Suicide</b>							
Number	57	75	78	60	71	68	70
Age-Adjusted Rate	18.3	20.1	20.0	15.2	18.4	16.0	17.9
<b>Homicide and Legal Intervention</b>							
Number	14	24	29	18	14	22	21
Age-Adjusted Rate	3.5	5.7	6.8	4.0	3.0	5.0	4.9
<b>Work-Related Injury</b>							
Number	6	6	11	12	10	13	10
Age-Adjusted Rate	1.9	1.5	2.7	3.0	2.4	3.1	2.6

**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: Adams 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>	2,479	100.0	1,881	100.0	455	100.0	67	100.0	49	100.0	23	100.0
<b>Cardiovascular Disease</b>	622	25.1	479	25.5	89	19.6	29	43.3	19	38.8	6	26.1
Heart Disease	444	17.9	347	18.4	60	13.2	21	31.3	13	26.5	3	13.0
Cerebrovascular Disease	110	4.4	78	4.1	20	4.4	4	6.0	5	10.2	3	13.0
Atherosclerosis	18	0.7	16	0.9	*	*	0	0.0	0	0.0	0	0.0
<b>Malignant Neoplasms</b>	556	22.4	436	23.2	98	21.5	10	14.9	7	14.3	5	21.7
Lung Cancer	162	6.5	137	7.3	22	4.8	*	*	*	*	0	0.0
Breast Cancer	27	1.1	22	1.2	3	0.7	0	0.0	*	*	*	*
<b>Chronic Lower Respiratory Disease</b>	198	8.0	183	9.7	14	3.1	0	0.0	0	0.0	*	*
<b>Unintentional Injuries</b>	180	7.3	113	6.0	55	12.1	*	*	6	12.2	*	*
Motor Vehicle	57	2.3	31	1.6	23	5.1	*	*	*	*	0	0.0
Other Unintentional Injuries	123	5.0	82	4.4	32	7.0	*	*	4	8.2	*	*
<b>Pneumonia and Influenza</b>	47	1.9	39	2.1	6	1.3	0	0.0	*	*	*	*
<b>Suicide</b>	68	2.7	56	3.0	11	2.4	*	*	0	0.0	0	0.0
<b>Diabetes Mellitus</b>	78	3.1	43	2.3	30	6.6	*	*	3	6.1	0	0.0
<b>HIV Infection</b>	3	0.1	*	*	*	*	0	0.0	0	0.0	0	0.0
<b>Chronic Liver Disease and Cirrhosis</b>	57	2.3	33	1.8	21	4.6	0	0.0	*	*	*	*
<b>Alzheimer's Disease</b>	97	3.9	77	4.1	14	3.1	4	6.0	*	*	0	0.0
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	42	1.7	31	1.6	7	1.5	*	*	*	*	*	*
<b>Homicide and Legal Intervention</b>	22	0.9	10	0.5	8	1.8	4	6.0	0	0.0	0	0.0
<b>Septicemia</b>	19	0.8	16	0.9	*	*	*	*	0	0.0	0	0.0
<b>Congenital Anomalies</b>	19	0.8	9	0.5	10	2.2	0	0.0	0	0.0	0	0.0
<b>Perinatal Period Conditions</b>	23	0.9	10	0.5	11	2.4	*	*	*	*	0	0.0
<b>All Other</b>	448	18.1	344	18.3	78	17.1	11	16.4	8	16.3	6	26.1
<b>Injury by Firearm</b>	44	1.8	33	1.8	9	2.0	*	*	0	0.0	0	0.0
<b>Drug-Induced Deaths</b>	66	2.7	45	2.4	15	3.3	*	*	*	*	3	13.0
<b>Alcohol-Induced Deaths</b>	55	2.2	36	1.9	17	3.7	0	0.0	0	0.0	*	*
<b>Work-Related Injury (Y/N Check Death Certificate)</b>	13	0.5	10	0.5	3	0.7	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: Adams County residents, 2008

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	2,479	434,761	5.7
Infant	51	7,848	6.5
Neonatal	30	7,848	3.8
1-4	8	29,442	0.3
5-9	3	37,322	0.1
10-14	4	32,051	0.1
15-19	18	31,883	0.6
20-24	24	31,258	0.8
25-29	30	31,693	0.9
30-34	34	33,277	1.0
35-39	55	35,686	1.5
40-44	57	33,137	1.7
45-49	102	32,818	3.1
50-54	131	27,876	4.7
55-59	156	22,859	6.8
60-64	210	17,025	12.3
65-69	196	10,083	19.4
70-74	251	8,316	30.2
75-79	279	6,101	45.7
80-84	322	3,458	93.1
85+	548	2,794	196.1
1-14	15	98,815	0.2
15-24	42	63,141	0.7
25-64	775	234,371	3.3
65+	1,596	30,751	51.9

\* 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: Adams 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	51	6.5	15	0.2	42	0.7	176	1.3	599	6.0	1,596	51.9
Cardiovascular Disease	*	*	0	0.0	*	*	22	0.2	127	1.3	471	15.3
Heart Disease	0	0.0	0	0.0	0	0.0	16	0.1	99	1.0	329	10.7
Cerebrovascular Disease	*	*	0	0.0	*	*	5	0.0	14	0.1	89	2.9
Atherosclerosis	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0	15	0.5
Malignant Neoplasms	0	0.0	*	*	3	0.0	19	0.1	168	1.7	364	11.8
Lung Cancer	0	0.0	0	0.0	0	0.0	*	*	49	0.5	111	3.6
Breast Cancer	0	0.0	0	0.0	0	0.0	0	0.0	16	0.2	11	0.4
Chronic Lower Respiratory Diseases	0	0.0	0	0.0	0	0.0	4	0.0	31	0.3	163	5.3
Unintentional Injuries	6	0.8	5	0.1	19	0.3	58	0.4	49	0.5	43	1.4
Motor Vehicle	*	*	4	0.0	13	0.2	22	0.2	12	0.1	5	0.2
Other Unintentional Injuries	5	0.6	*	*	6	0.1	36	0.3	37	0.4	38	1.2
Pneumonia and Influenza	*	*	0	0.0	0	0.0	*	*	8	0.1	37	1.2
Suicide	0	0.0	0	0.0	9	0.1	22	0.2	32	0.3	5	0.2
Diabetes Mellitus	0	0.0	0	0.0	0	0.0	3	0.0	20	0.2	55	1.8
HIV Infection	0	0.0	0	0.0	0	0.0	*	*	*	*	*	*
Chronic Liver Disease and Cirrhosis	0	0.0	0	0.0	0	0.0	7	0.1	39	0.4	11	0.4
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	*	*	96	3.1
Nephritis, Nephrosis, Nephrotic Syndrome	0	0.0	0	0.0	*	*	0	0.0	9	0.1	32	1.0
Homicide and Legal Intervention	*	*	*	*	3	0.0	10	0.1	5	0.0	*	*
Septicemia	0	0.0	0	0.0	0	0.0	*	*	*	*	17	0.6
Congenital Anomalies	9	1.1	3	0.0	0	0.0	*	*	3	0.0	*	*
Perinatal Period Conditions	22	2.8	*	*	0	0.0	0	0.0	0	0.0	0	0.0
All Other	10	1.3	3	0.0	6	0.1	26	0.2	105	1.0	298	9.7
Injury by Firearm	0	0.0	0	0.0	6	0.1	17	0.1	18	0.2	3	0.1
Drug-Induced Deaths	0	0.0	0	0.0	*	*	30	0.2	30	0.3	4	0.1
Alcohol-Induced Deaths	0	0.0	0	0.0	*	*	8	0.1	40	0.4	6	0.2
Work-Related Injury (Y/N Check Death Certificate)	0	0.0	0	0.0	*	*	3	0.0	7	0.1	*	*

\* 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:  
Adams County residents, 2008**

<b>Cause of Death</b>	<b>N</b>	<b>Rate</b>	<b>Age-Adjusted Rate</b>	<b>Lower Limit</b>	<b>Upper Limit</b>
<b>All Causes</b>	2,479	570.2	939.6	902.5	976.6
<b>Cardiovascular Disease</b>	622	143.1	257.9	237.1	278.7
<b>Heart Disease</b>	444	102.1	182.4	164.9	200.0
<b>Cerebrovascular Disease</b>	110	25.3	47.3	38.2	56.5
<b>Atherosclerosis</b>	18	4.1	7.7	4.0	11.5
<b>Malignant Neoplasms</b>	556	127.9	203.0	185.4	220.7
<b>Lung Cancer</b>	162	37.3	58.9	49.4	68.4
<b>Breast Cancer</b>	27	6.2	8.2	4.9	11.5
<b>Chronic Lower Respiratory Diseases</b>	198	45.5	82.3	70.4	94.1
<b>Unintentional Injuries</b>	180	41.4	50.8	42.8	58.9
<b>Motor Vehicle</b>	57	13.1	13.6	9.9	17.2
<b>Other Unintentional Injuries</b>	123	28.3	37.2	30.1	44.4
<b>Pneumonia and Influenza</b>	47	10.8	20.9	14.6	27.1
<b>Suicide</b>	68	15.6	16.0	12.1	19.8
<b>Diabetes Mellitus</b>	78	17.9	28.4	21.8	35.0
<b>HIV Infection</b>	3	0.7	0.8	0.2	1.9
<b>Chronic Liver Disease and Cirrhosis</b>	57	13.1	14.8	10.8	18.9
<b>Alzheimer's Disease</b>	97	22.3	49.3	39.5	59.1
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	42	9.7	18.0	12.3	23.6
<b>Homicide and Legal Intervention</b>	22	5.1	5.0	2.9	7.2
<b>Septicemia</b>	19	4.4	8.0	4.3	11.6
<b>Congenital Anomalies</b>	19	4.4	4.2	2.2	6.3
<b>Perinatal Period Conditions</b>	23	5.3	4.1	2.5	5.8
<b>All Other</b>	448	103.0	176.1	159.1	193.2
<b>Injury by Firearm</b>	44	10.1	10.4	7.2	13.5
<b>Drug-Induced Deaths</b>	66	15.2	15.6	11.7	19.5
<b>Alcohol-Induced Deaths</b>	55	12.7	13.3	9.7	16.9
<b>Work-Related Injury (Y/N Check Death Certificate)</b>	13	3.0	3.1	1.4	4.9

*\* 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).