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# Arapahoe County Births and Deaths 2007

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## Selected birth characteristics: Arapahoe County residents, 2007

Characteristic	Number	Percent
Total Live Births	8,226	100.0
Age of Mother		
10-17	224	2.7
18-19	470	5.7
20-29	4,191	51.0
30+	3,340	40.6
Low Weight Births (<2,500 Grams)	799	9.7
Very Low Weight Births (<1,500 Grams)	127	1.5
Prenatal Care Later than 1st Trimester/No Care	1,515	19.1
No Prenatal Care	186	2.3
Preterm Births (<37 Weeks)	883	10.7
Education of Mother <High School Diploma/GED	1,669	20.7
Live Births to Unmarried Women	2,136	26.0
Smoking During Pregnancy	453	5.5

*"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 age group of mother: Arapahoe County residents, 2007

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>	8,226	100.0	224	100.0	470	100.0	4,191	100.0	3,340	100.0
<b>Race/Ethnicity of Mother</b>										
White Non-Hispanic	4,211	51.7	58	26.7	134	28.7	2,029	48.9	1,989	60.2
White Hispanic	2,221	27.3	112	51.6	205	43.9	1,254	30.2	650	19.7
Black	1,082	13.3	40	18.4	110	23.6	595	14.3	337	10.2
Other	628	7.7	7	3.2	18	3.9	275	6.6	328	9.9
<b>Low Weight Births (&lt;2,500 Grams)</b>	799	9.7	23	10.3	47	10.0	395	9.4	334	10.0
Very Low Weight Births (<1,500 Grams)	127	1.5	*	*	7	1.5	73	1.7	46	1.4
<b>Prenatal Care Later than 1st Trimester/No Care</b>	1,515	19.1	73	33.8	127	27.9	845	21.0	470	14.5
No Prenatal Care	186	2.3	11	5.1	21	4.6	95	2.4	59	1.8
<b>Preterm Births (&lt;37 Weeks)</b>	883	10.7	18	8.0	58	12.3	437	10.4	370	11.1
<b>Education of Mother &lt;High School Diploma/GED</b>	1,669	20.7	198	90.8	210	45.8	871	21.3	390	11.9
<b>Live Births to Unmarried Women</b>	2,136	26.0	189	84.4	297	63.2	1,255	29.9	395	11.8
<b>Smoking During Pregnancy</b>	453	5.5	8	3.6	38	8.1	295	7.1	112	3.4

*"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 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: Arapahoe 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>	4,211	100.0	2,221	100.0	1,082	100.0	469	100.0	65	100.0
<b>Age of Mother</b>										
<b>10-17</b>	58	1.4	112	5.0	40	3.7	3	0.6	*	*
<b>18-19</b>	134	3.2	205	9.2	110	10.2	7	1.5	5	7.7
<b>20-29</b>	2,029	48.2	1,254	56.5	595	55.0	184	39.2	39	60.0
<b>30+</b>	1,989	47.2	650	29.3	337	31.1	275	58.6	19	29.2
<b>Low Weight Births (&lt;2,500 Grams)</b>	387	9.2	180	8.1	166	15.3	44	9.4	3	4.6
<b>Very Low Weight Births (&lt;1,500 Grams)</b>	62	1.5	28	1.3	30	2.8	5	1.1	0	0.0
<b>Prenatal Care Later than 1st Trimester/No Care</b>	556	13.6	562	26.3	248	24.0	95	21.2	13	21.0
<b>No Prenatal Care</b>	48	1.2	84	3.9	35	3.4	8	1.8	*	*
<b>Preterm Births (&lt;37 Weeks)</b>	442	10.5	223	10.0	148	13.7	45	9.6	6	9.2
<b>Education of Mother &lt;High School Diploma/GED</b>	305	7.3	1,076	50.2	182	17.2	41	8.9	14	22.6
<b>Live Births to Unmarried Women</b>	777	18.5	701	31.6	536	49.5	54	11.5	25	38.5
<b>Smoking During Pregnancy</b>	316	7.5	52	2.3	58	5.4	10	2.1	4	6.2

***"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: Arapahoe County residents, 2007**

<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>	8,226	115,896	71.0	69.5	72.5
<b>Teen Age Groups</b>					
<b>13-14</b>	7	7,460	0.9	0.2	1.7
<b>15-17</b>	217	11,484	18.9	16.4	21.4
<b>18-19</b>	470	7,818	60.1	54.8	65.5
<b>10-17</b>	224	29,591	7.6	6.6	8.6
<b>10-19</b>	694	37,409	18.6	17.2	19.9
<b>All Age Groups</b>					
<b>10-14</b>	7	18,107	0.4	0.1	0.7
<b>15-19</b>	687	19,302	35.6	33.0	38.2
<b>20-24</b>	1,857	20,042	92.7	88.6	96.7
<b>25-29</b>	2,334	15,975	146.1	140.6	151.6
<b>30-34</b>	2,013	19,246	104.6	100.2	108.9
<b>35-39</b>	1,088	20,580	52.9	49.8	55.9
<b>40-49</b>	237	44,033	5.4	4.7	6.1

*\* 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](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: Arapahoe County residents, 1997, 2003-2007

	1997	2003	2004	2005	2006	2007	2003-2007 Annual Average
<b>Total Population</b>	459,061	518,937	527,353	532,998	541,148	552,592	534,606
<b>Total Births</b>							
Number	6,370	8,025	8,056	7,992	8,260	8,226	8,112
Birth Rate	13.9	15.5	15.3	15.0	15.3	14.9	15.2
General Fertility Rate	57.8	69.7	70.1	69.8	72.0	71.0	70.5
<b>Age of Mother 10-17</b>							
Number	176	239	252	237	247	224	240
Percent of Total Births	2.8	3.0	3.1	3.0	3.0	2.7	3.0
Fertility Rate	6.5	7.9	8.4	8.0	8.4	7.6	8.1
<b>Low Weight Births (&lt;2,500 Grams)</b>							
Number	585	758	731	775	786	799	770
Percent	9.2	9.4	9.1	9.7	9.5	9.7	9.5
<b>Prenatal Care Later Than 1st Trimester/No Care</b>							
Number	668	1,588	1,570	1,034	1,048	1,515	1,351
Percent	10.6	20.3	20.1	13.4	13.2	19.1	17.2
<b>Births to Unmarried Women</b>							
Number	1,325	2,151	2,227	2,173	2,332	2,136	
Percent	20.8	26.8	27.6	27.2	28.2	26.0	
<b>Mother's Education &lt;12 Years</b>							
Number	766	1,609	1,653	1,658	1,611	1,669	
Percent	12.2	20.2	20.8	21.6	20.6	20.3	
<b>Infant Deaths</b>							
Number	47	44	53	49	42	66	51
Rate	7.4	5.5	6.6	6.1	5.1	8.0	6.3
<b>Neonatal Deaths</b>							
Number	32	36	39	38	35	46	39
Rate	5.0	4.5	4.8	4.8	4.2	5.6	4.8
<b>Total Deaths</b>							
Number	2,442	2,897	2,904	2,985	3,062	3,102	2,990
Crude Rate	532.0	558.3	550.7	560.0	565.8	561.4	559.3
Age-Adjusted Rate	775.4	738.5	707.4	712.6	723.9	704.1	716.9
<b>Cardiovascular Disease</b>							
Number	799	864	874	904	904	819	873
Age-Adjusted Rate	269.7	231.3	222.5	225.7	224.5	194.4	219.2
<b>Heart Disease</b>							
Number	605	586	614	647	656	602	621
Age-Adjusted Rate	202.1	155.1	153.1	159.8	160.6	141.4	153.9

(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: Arapahoe County residents, 1997, 2003-2007

	1997	2003	2004	2005	2006	2007	2003-2007 Annual Average
<b>Cerebrovascular Disease</b>							
Number	175	176	157	152	154	153	158
Age-Adjusted Rate	60.8	48.0	41.5	38.9	39.7	37.0	40.9
<b>Malignant Neoplasms</b>							
Number	564	661	618	623	671	694	653
Age-Adjusted Rate	173.4	163.8	146.8	144.3	152.8	153.9	152.2
<b>Lung Cancer</b>							
Number	132	159	131	144	158	151	149
Age-Adjusted Rate	41.4	41.1	31.7	33.7	36.7	34.3	35.5
<b>Breast Cancer</b>							
Number	43	59	60	61	60	48	58
Age-Adjusted Rate	11.6	14.0	13.1	13.1	12.8	10.3	12.6
<b>Total Unintentional Injuries</b>							
Number	131	159	205	180	162	203	182
Age-Adjusted Rate	33.5	34.5	43.1	36.8	32.7	40.2	37.4
<b>Motor Vehicle</b>							
Number	53	39	68	60	42	45	51
Age-Adjusted Rate	12.1	7.6	13.2	10.9	7.7	8.5	9.6
<b>Other Unintentional Injuries</b>							
Number	78	120	137	120	120	158	131
Age-Adjusted Rate	21.4	26.8	29.9	25.9	25.0	31.7	27.9
<b>Chronic Lower Respiratory Diseases</b>							
Number	121	159	164	172	177	179	170
Age-Adjusted Rate	40.8	42.5	43.0	43.7	43.9	43.3	43.3
<b>Suicide</b>							
Number	56	73	83	77	78	90	80
Age-Adjusted Rate	13.3	14.3	15.3	14.3	14.5	15.9	14.9
<b>Homicide and Legal Intervention</b>							
Number	16	21	29	28	30	18	25
Age-Adjusted Rate	3.3	3.9	5.6	5.0	5.5	3.2	4.6
<b>Work-Related Injury</b>							
Number	7	*	7	7	6	6	6
Age-Adjusted Rate	1.4	*	1.3	1.2	1.2	1.0	1.0

**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: Arapahoe 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>	3,102	100.0	2,647	100.0	154	100.0	208	100.0	76	100.0	14	100.0
<b>Cardiovascular Disease</b>	819	26.4	721	27.2	29	18.8	51	24.5	16	21.1	*	*
Heart Disease	602	19.4	541	20.4	20	13.0	32	15.4	8	10.5	*	*
Cerebrovascular Disease	153	4.9	127	4.8	5	3.2	13	6.3	7	9.2	*	*
Atherosclerosis	27	0.9	26	1.0	*	*	0	0.0	0	0.0	0	0.0
<b>Malignant Neoplasms</b>	694	22.4	588	22.2	31	20.1	49	23.6	22	28.9	3	21.4
Lung Cancer	151	4.9	137	5.2	*	*	7	3.4	5	6.6	0	0.0
Breast Cancer	48	1.5	43	1.6	*	*	*	*	*	*	*	*
<b>Chronic Lower Respiratory Disease</b>	179	5.8	168	6.3	*	*	5	2.4	4	5.3	*	*
<b>Unintentional Injuries</b>	203	6.5	167	6.3	14	9.1	17	8.2	4	5.3	*	*
Motor Vehicle	45	1.5	35	1.3	3	1.9	6	2.9	*	*	0	0.0
Other Unintentional Injuries	158	5.1	132	5.0	11	7.1	11	5.3	3	3.9	*	*
<b>Pneumonia and Influenza</b>	57	1.8	52	2.0	*	*	*	*	*	*	0	0.0
<b>Suicide</b>	90	2.9	75	2.8	8	5.2	5	2.4	*	*	*	*
<b>Diabetes Mellitus</b>	78	2.5	64	2.4	6	3.9	5	2.4	*	*	*	*
<b>HIV Infection</b>	10	0.3	3	0.1	*	*	3	1.4	*	*	0	0.0
<b>Chronic Liver Disease and Cirrhosis</b>	55	1.8	43	1.6	10	6.5	*	*	0	0.0	*	*
<b>Alzheimer's Disease</b>	172	5.5	160	6.0	3	1.9	9	4.3	0	0.0	0	0.0
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	63	2.0	49	1.9	5	3.2	7	3.4	*	*	0	0.0
<b>Homicide and Legal Intervention</b>	18	0.6	4	0.2	3	1.9	8	3.8	3	3.9	0	0.0
<b>Septicemia</b>	33	1.1	28	1.1	0	0.0	4	1.9	*	*	0	0.0
<b>Congenital Anomalies</b>	24	0.8	15	0.6	5	3.2	*	*	*	*	0	0.0
<b>Perinatal Period Conditions</b>	33	1.1	15	0.6	9	5.8	8	3.8	0	0.0	*	*
<b>All Other</b>	574	18.5	495	18.7	26	16.9	33	15.9	15	19.7	3	21.4
Injury by Firearm	54	1.7	42	1.6	4	2.6	7	3.4	*	*	0	0.0
Drug-Induced Deaths	94	3.0	77	2.9	7	4.5	8	3.8	*	*	*	*
Alcohol-Induced Deaths	56	1.8	49	1.9	6	3.9	0	0.0	0	0.0	*	*
Work-Related Injury (Y/N Check Death Certificate)	6	0.2	4	0.2	*	*	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: Arapahoe County residents, 2007

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	3,102	552,592	5.6
Infant	66	8,226	8.0
Neonatal	46	8,226	5.6
1-4	9	32,516	0.3
5-9	*	37,471	*
10-14	3	37,095	0.1
15-19	24	39,957	0.6
20-24	31	41,229	0.8
25-29	31	32,664	0.9
30-34	27	38,597	0.7
35-39	55	41,894	1.3
40-44	80	41,245	1.9
45-49	106	45,296	2.3
50-54	154	42,648	3.6
55-59	164	37,668	4.4
60-64	187	25,232	7.4
65-69	155	14,737	10.5
70-74	224	12,769	17.5
75-79	371	10,962	33.8
80-84	449	6,749	66.5
85+	964	5,835	165.2
1-14	14	107,082	0.1
15-24	55	81,186	0.7
25-64	804	305,244	2.6
65+	2,163	51,052	42.4

\* 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: Arapahoe 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	66	8.0	14	0.1	55	0.7	193	1.3	611	4.1	2,163	42.4
Cardiovascular Disease	3	0.4	*	*	3	0.0	24	0.2	129	0.9	659	12.9
Heart Disease	*	*	*	*	3	0.0	17	0.1	105	0.7	474	9.3
Cerebrovascular Disease	*	*	0	0.0	0	0.0	7	0.0	19	0.1	126	2.5
Atherosclerosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	27	0.5
Malignant Neoplasms	0	0.0	3	0.0	*	*	25	0.2	181	1.2	483	9.5
Lung Cancer	0	0.0	0	0.0	0	0.0	*	*	33	0.2	116	2.3
Breast Cancer	0	0.0	0	0.0	0	0.0	3	0.0	15	0.1	30	0.6
Chronic Lower Respiratory Diseases	0	0.0	0	0.0	0	0.0	*	*	20	0.1	158	3.1
Unintentional Injuries	*	*	5	0.0	27	0.3	53	0.3	54	0.4	63	1.2
Motor Vehicle	0	0.0	*	*	13	0.2	10	0.1	11	0.1	9	0.2
Other Unintentional Injuries	*	*	3	0.0	14	0.2	43	0.3	43	0.3	54	1.1
Pneumonia and Influenza	0	0.0	0	0.0	0	0.0	*	*	10	0.1	46	0.9
Suicide	0	0.0	0	0.0	10	0.1	30	0.2	40	0.3	10	0.2
Diabetes Mellitus	0	0.0	0	0.0	0	0.0	*	*	19	0.1	58	1.1
HIV Infection	0	0.0	0	0.0	*	*	4	0.0	5	0.0	0	0.0
Chronic Liver Disease and Cirrhosis	0	0.0	0	0.0	0	0.0	8	0.1	35	0.2	12	0.2
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	*	*	171	3.3
Nephritis, Nephrosis, Nephrotic Syndrome	0	0.0	0	0.0	0	0.0	*	*	8	0.1	53	1.0
Homicide and Legal Intervention	*	*	*	*	3	0.0	8	0.1	4	0.0	*	*
Septicemia	0	0.0	0	0.0	0	0.0	*	*	7	0.0	25	0.5
Congenital Anomalies	12	1.5	0	0.0	*	*	*	*	4	0.0	4	0.1
Perinatal Period Conditions	33	4.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
All Other	16	1.9	4	0.0	7	0.1	33	0.2	94	0.6	420	8.2
Injury by Firearm	0	0.0	0	0.0	10	0.1	16	0.1	20	0.1	8	0.2
Drug-Induced Deaths	0	0.0	0	0.0	10	0.1	39	0.3	43	0.3	*	*
Alcohol-Induced Deaths	0	0.0	0	0.0	0	0.0	12	0.1	37	0.2	7	0.1
Work-Related Injury (Y/N Check Death Certificate)	0	0.0	0	0.0	*	*	3	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:  
Arapahoe County residents, 2007**

<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>	3,102	561.4	704.1	679.9	728.3
<b>Cardiovascular Disease</b>	819	148.2	194.4	181.1	207.7
<b>Heart Disease</b>	602	108.9	141.4	130.0	152.8
<b>Cerebrovascular Disease</b>	153	27.7	37.0	31.0	42.9
<b>Atherosclerosis</b>	27	4.9	7.1	4.4	9.7
<b>Malignant Neoplasms</b>	694	125.6	153.9	142.3	165.6
<b>Lung Cancer</b>	151	27.3	34.3	28.7	39.8
<b>Breast Cancer</b>	48	8.7	10.3	7.3	13.3
<b>Chronic Lower Respiratory Diseases</b>	179	32.4	43.3	36.9	49.8
<b>Unintentional Injuries</b>	203	36.7	40.2	34.5	45.8
<b>Motor Vehicle</b>	45	8.1	8.5	5.9	11.0
<b>Other Unintentional Injuries</b>	157	28.4	31.5	26.5	36.6
<b>Pneumonia and Influenza</b>	57	10.3	13.5	10.0	17.1
<b>Suicide</b>	90	16.3	15.9	12.6	19.3
<b>Diabetes Mellitus</b>	78	14.1	17.7	13.7	21.7
<b>HIV Infection</b>	10	1.8	1.7	0.8	3.0
<b>Chronic Liver Disease and Cirrhosis</b>	55	10.0	9.7	7.1	12.4
<b>Alzheimer's Disease</b>	172	31.1	44.9	38.2	51.6
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	63	11.4	15.1	11.4	18.9
<b>Homicide and Legal Intervention</b>	18	3.3	3.2	1.7	4.7
<b>Septicemia</b>	33	6.0	7.6	4.9	10.2
<b>Congenital Anomalies</b>	24	4.3	4.4	2.6	6.2
<b>Perinatal Period Conditions</b>	33	6.0	5.7	3.7	7.6
<b>All Other</b>	574	103.9	132.7	121.7	143.6
<b>Injury by Firearm</b>	54	9.8	9.7	7.1	12.3
<b>Drug-Induced Deaths</b>	94	17.0	16.1	12.8	19.4
<b>Alcohol-Induced Deaths</b>	56	10.1	9.5	7.0	12.1
<b>Work-Related Injury (Y/N Check Death Certificate)</b>	6	1.1	1.0	0.3	2.2

*\* 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).