

# Arapahoe County Births and Deaths 2009

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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: Arapahoe County residents, 2009

Characteristic	Number	Percent
Total Live Births	8,110	100.0
Age of Mother		
10-17	244	3.0
18-19	456	5.6
20-29	3,972	49.0
30+	3,436	42.4
Low Weight Births (<2,500 Grams)	716	8.8
Very Low Weight Births (<1,500 Grams)	118	1.5
Prenatal Care Later than 1st Trimester/No Care	2,192	27.5
No Prenatal Care	172	2.2
Preterm Births (<37 Weeks)	767	9.5
Education of Mother <High School Diploma/GED	1,624	20.3
Live Births to Unmarried Women	2,082	25.7
Smoking During Pregnancy	420	5.2

*"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 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, 2009

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>	8,110	100.0	244	100.0	456	100.0	3,972	100.0	3,436	100.0
<b>Race/Ethnicity of Mother</b>										
White, Non-Hispanic	4,183	52.1	55	22.7	141	31.1	1,986	50.7	2,001	58.7
White, Hispanic	2,156	26.9	137	56.6	202	44.5	1,087	27.7	730	21.4
Black	1,035	12.9	35	14.5	87	19.2	551	14.1	362	10.6
Asian American/Pacific Islander	490	6.1	4	1.7	10	2.2	219	5.6	257	7.5
American Indian/Native Alaskan	64	0.8	4	1.7	8	1.8	30	0.8	22	0.6
Other	98	1.2	7	2.9	6	1.3	48	1.2	37	1.1
Unknown	84		*	*	*	*	51		27	
<b>Low Weight Births (&lt;2,500 Grams)</b>	716	8.8	35	14.3	37	8.1	334	8.4	308	9.0
<b>Very Low Weight Births (&lt;1,500 Grams)</b>	118	1.5	7	2.9	4	0.9	61	1.5	44	1.3
<b>Prenatal Care Later than 1st Trimester/No Care</b>	2,192	27.5	139	57.7	210	46.8	1,217	31.3	626	18.5
<b>No Prenatal Care</b>	172	2.2	15	6.2	16	3.6	96	2.5	45	1.3
<b>Preterm Births (&lt;37 Weeks)</b>	767	9.5	27	11.1	41	9.0	349	8.8	348	10.1
<b>Education of Mother &lt;High School Diploma/GED</b>	1,624	20.3	212	87.6	205	45.3	760	19.4	447	13.2
<b>Live Births to Unmarried Women</b>	2,082	25.7	200	82.0	320	70.2	1,152	29.0	410	11.9
<b>Smoking During Pregnancy</b>	420	5.2	10	4.1	51	11.2	256	6.5	103	3.0

*"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 of mother unknown.*

*Percentages are of total births, excluding cases with specific characteristics unknown.*

*Percentage not computed for cells shaded in light gray.*

*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, 2009

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>	4,183	100.0	2,156	100.0	1,035	100.0	490	100.0	64	100.0
<b>Age of Mother</b>										
<b>10-17</b>	55	1.3	137	6.4	35	3.4	4	0.8	4	6.3
<b>18-19</b>	141	3.4	202	9.4	87	8.4	10	2.0	8	12.5
<b>20-29</b>	1,986	47.5	1,087	50.4	551	53.2	219	44.7	30	46.9
<b>30+</b>	2,001	47.8	730	33.9	362	35.0	257	52.4	22	34.4
<b>Low Weight Births (&lt;2,500 Grams)</b>	345	8.2	167	7.7	119	11.5	58	11.8	5	7.8
<b>Very Low Weight Births (&lt;1,500 Grams)</b>	47	1.1	34	1.6	21	2.0	11	2.2	0	0.0
<b>Prenatal Care Later than 1st Trimester/No Care</b>	742	18.0	860	40.7	383	37.8	141	29.3	23	35.9
<b>No Prenatal Care</b>	38	0.9	80	3.8	33	3.3	17	3.5	*	*
<b>Preterm Births (&lt;37 Weeks)</b>	390	9.3	190	8.8	102	9.9	61	12.4	5	7.8
<b>Education of Mother &lt;High School Diploma/GED</b>	288	7.0	1,052	49.3	185	18.0	46	9.4	17	26.6
<b>Live Births to Unmarried Women</b>	722	17.3	721	33.4	490	47.3	72	14.7	31	48.4
<b>Smoking During Pregnancy</b>	287	6.9	58	2.7	55	5.3	7	1.4	6	9.4

*"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: Arapahoe County residents, 2009**

<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>	8,110	117,217	69.2	67.7	70.6
<b>Teen Age Groups</b>					
<b>13-14</b>	11	7,169	1.5	0.6	2.5
<b>15-17</b>	233	11,341	20.5	17.9	23.2
<b>18-19</b>	456	7,966	57.2	52.1	62.4
<b>10-17</b>	244	29,298	8.3	7.3	9.4
<b>10-19</b>	700	37,264	18.8	17.4	20.2
<b>All Age Groups</b>					
<b>10-14</b>	11	17,957	0.6	0.2	1.0
<b>15-19</b>	689	19,307	35.7	33.0	38.3
<b>20-24</b>	1,610	20,546	78.4	74.7	82.1
<b>25-29</b>	2,362	18,098	130.5	125.6	135.4
<b>30-34</b>	2,088	18,430	113.3	108.7	117.9
<b>35-39</b>	1,109	20,837	53.2	50.2	56.3
<b>40-49</b>	238	42,730	5.6	4.9	6.3

*\* 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: Arapahoe County residents, 1999, 2005-2009

	1999	2005	2006	2007	2008	2009	2005-2009 Annual Average
<b>Total Population</b>	481,307	530,973	539,128	549,569	560,599	571,596	550,373
<b>Total Births</b>							
Number	6,944	7,992	8,260	8,226	8,211	8,110	8,160
Birth Rate	14.4	15.1	15.3	15.0	14.6	14.2	14.8
General Fertility Rate	61.8	70.3	72.4	71.4	70.5	69.2	70.8
<b>Age of Mother 10-17</b>							
Number	190	237	247	224	234	244	237
Percent of Total Births	2.7	3.0	3.0	2.7	2.8	3.0	2.9
Fertility Rate	6.6	8.0	8.4	7.6	8.0	8.3	8.1
<b>Low Weight Births (&lt;2,500 Grams)</b>							
Number	583	775	786	799	831	716	781
Percent	8.4	9.7	9.5	9.7	10.1	8.8	9.6
<b>Prenatal Care Later Than 1st Trimester/No Care</b>							
Number	854	1,034	1,048	1,515	1,799	2,192	1,518
Percent	12.4	13.4	13.2	19.1	22.6	27.5	19.2
<b>Births to Unmarried Women</b>							
Number	1,490	2,173	2,332	2,136	2,055	2,082	
Percent	21.5	27.2	28.2	26.0	25.0	25.7	
<b>Mother's Education &lt;12 Years</b>							
Number	999	1,658	1,611	1,669	1,715	1,624	
Percent	14.5	21.6	20.6	20.7	21.3	20.3	
<b>Infant Deaths</b>							
Number	47	49	42	66	59	57	55
Rate	6.8	6.1	5.1	8.0	7.2	7.0	6.7
<b>Neonatal Deaths</b>							
Number	33	38	35	46	40	43	40
Rate	4.8	4.8	4.2	5.6	4.9	5.3	5.0
<b>Total Deaths</b>							
Number	2,660	2,985	3,062	3,102	3,219	3,289	3,131
Crude Rate	552.7	562.2	568.0	564.4	574.2	575.4	569.0
Age-Adjusted Rate	771.2	706.2	717.3	698.3	695.0	679.5	698.7
<b>Cardiovascular Disease</b>							
Number	872	904	904	819	786	818	846
Age-Adjusted Rate	266.3	223.4	222.2	192.6	176.2	177.4	197.4
<b>Heart Disease</b>							
Number	614	647	656	602	559	596	612
Age-Adjusted Rate	185.6	158.3	159.0	140.1	123.6	127.9	141.1

(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, 1999, 2005-2009

	1999	2005	2006	2007	2008	2009	2005-2009 Annual Average
<b>Cerebrovascular Disease</b>							
Number	163	152	154	153	155	148	152
Age-Adjusted Rate	50.9	38.5	39.3	36.6	35.9	32.9	36.5
<b>Malignant Neoplasms</b>							
Number	615	623	671	694	696	733	683
Age-Adjusted Rate	171.2	143.0	151.5	152.7	142.1	143.5	146.6
<b>Lung Cancer</b>							
Number	133	144	158	151	182	190	165
Age-Adjusted Rate	38.3	33.4	36.3	33.9	37.7	38.2	36.0
<b>Breast Cancer</b>							
Number	67	61	60	48	53	52	55
Age-Adjusted Rate	18.1	13.1	12.7	10.3	10.3	10.0	11.2
<b>Total Unintentional Injuries</b>							
Number	124	180	162	203	216	220	196
Age-Adjusted Rate	30.5	36.7	32.7	40.1	41.1	40.8	38.4
<b>Motor Vehicle</b>							
Number	38	60	42	45	45	44	47
Age-Adjusted Rate	8.4	11.0	7.7	8.5	8.4	7.9	8.7
<b>Other Unintentional Injuries</b>							
Number	86	120	120	158	171	176	149
Age-Adjusted Rate	22.1	25.7	25.0	31.7	32.7	32.9	29.7
<b>Chronic Lower Respiratory Diseases</b>							
Number	157	172	177	179	243	198	194
Age-Adjusted Rate	47.6	43.2	43.5	42.9	56.0	42.8	45.7
<b>Suicide</b>							
Number	62	77	78	90	88	100	87
Age-Adjusted Rate	13.4	14.4	14.6	16.0	15.1	17.4	15.5
<b>Homicide and Legal Intervention</b>							
Number	19	28	30	18	15	21	22
Age-Adjusted Rate	3.8	5.1	5.5	3.2	2.6	3.8	4.0
<b>Work-Related Injury</b>							
Number	3	7	6	6	7	5	6
Age-Adjusted Rate	0.6	1.2	1.2	1.0	1.3	0.9	1.1

**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, 2009

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>	3,289	100.0	2,758	100.0	191	100.0	242	100.0	74	100.0	15	100.0
<b>Cardiovascular Disease</b>	818	24.9	702	25.5	35	18.3	64	26.4	14	18.9	3	20.0
Heart Disease	596	18.1	518	18.8	24	12.6	44	18.2	8	10.8	*	*
Cerebrovascular Disease	148	4.5	122	4.4	5	2.6	14	5.8	6	8.1	*	*
Atherosclerosis	25	0.8	20	0.7	*	*	3	1.2	0	0.0	0	0.0
<b>Malignant Neoplasms</b>	733	22.3	615	22.3	38	19.9	54	22.3	24	32.4	*	*
Lung Cancer	190	5.8	163	5.9	9	4.7	9	3.7	8	10.8	*	*
Breast Cancer	52	1.6	43	1.6	5	2.6	*	*	*	*	*	*
<b>Chronic Lower Respiratory Disease</b>	198	6.0	182	6.6	*	*	6	2.5	3	4.1	*	*
<b>Unintentional Injuries</b>	220	6.7	170	6.2	20	10.5	22	9.1	5	6.8	*	*
Motor Vehicle	44	1.3	30	1.1	7	3.7	5	2.1	*	*	0	0.0
Other Unintentional Injuries	176	5.4	140	5.1	13	6.8	17	7.0	3	4.1	*	*
<b>Pneumonia and Influenza</b>	70	2.1	59	2.1	5	2.6	*	*	3	4.1	*	*
<b>Suicide</b>	100	3.0	83	3.0	7	3.7	5	2.1	3	4.1	*	*
<b>Diabetes Mellitus</b>	81	2.5	62	2.2	8	4.2	5	2.1	5	6.8	*	*
<b>HIV Infection</b>	5	0.2	*	*	0	0.0	3	1.2	0	0.0	0	0.0
<b>Chronic Liver Disease and Cirrhosis</b>	55	1.7	47	1.7	6	3.1	*	*	*	*	0	0.0
<b>Alzheimer's Disease</b>	209	6.4	194	7.0	4	2.1	10	4.1	*	*	0	0.0
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	49	1.5	42	1.5	3	1.6	4	1.7	0	0.0	0	0.0
<b>Homicide and Legal Intervention</b>	21	0.6	7	0.3	7	3.7	7	2.9	0	0.0	0	0.0
<b>Septicemia</b>	36	1.1	30	1.1	*	*	3	1.2	*	*	*	*
<b>Congenital Anomalies</b>	17	0.5	9	0.3	4	2.1	4	1.7	0	0.0	0	0.0
<b>Perinatal Period Conditions</b>	32	1.0	13	0.5	9	4.7	9	3.7	0	0.0	*	*
<b>All Other</b>	645	19.6	541	19.6	42	22.0	43	17.8	14	18.9	*	*
<b>Injury by Firearm</b>	67	2.0	48	1.7	9	4.7	10	4.1	0	0.0	0	0.0
<b>Drug-Induced Deaths</b>	100	3.0	81	2.9	7	3.7	10	4.1	*	*	*	*
<b>Alcohol-Induced Deaths</b>	62	1.9	54	2.0	4	2.1	4	1.7	0	0.0	0	0.0
<b>Work-Related Injury (Y/N Check Death Certificate)</b>	5	0.2	*	*	*	*	*	*	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, 2009

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	3,289	571,596	5.8
Infant	57	8,110	7.0
Neonatal	43	8,110	5.3
1-4	7	33,426	0.2
5-9	8	39,237	0.2
10-14	7	36,715	0.2
15-19	16	39,803	0.4
20-24	36	42,276	0.9
25-29	36	37,242	1.0
30-34	33	36,760	0.9
35-39	44	42,442	1.0
40-44	64	40,127	1.6
45-49	96	44,572	2.2
50-54	174	43,920	4.0
55-59	206	39,354	5.2
60-64	223	31,187	7.2
65-69	235	16,301	14.4
70-74	260	13,796	18.8
75-79	321	11,892	27.0
80-84	423	7,847	53.9
85+	1,043	6,433	162.1
1-14	22	109,378	0.2
15-24	52	82,079	0.6
25-64	876	315,604	2.8
65+	2,282	56,269	40.6

*\* 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, 2009

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	57	7.0	22	0.2	52	0.6	177	1.1	699	4.4	2,282	40.6
Cardiovascular Disease	*	*	*	*	4	0.0	13	0.1	122	0.8	676	12.0
Heart Disease	*	*	0	0.0	*	*	12	0.1	101	0.6	479	8.5
Cerebrovascular Disease	0	0.0	*	*	*	*	*	*	14	0.1	131	2.3
Atherosclerosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	25	0.4
Malignant Neoplasms	0	0.0	*	*	*	*	11	0.1	239	1.5	480	8.5
Lung Cancer	0	0.0	0	0.0	0	0.0	0	0.0	52	0.3	138	2.5
Breast Cancer	0	0.0	0	0.0	0	0.0	*	*	20	0.1	30	0.5
Chronic Lower Respiratory Diseases	0	0.0	0	0.0	0	0.0	0	0.0	26	0.2	172	3.1
Unintentional Injuries	0	0.0	7	0.1	16	0.2	56	0.4	72	0.5	69	1.2
Motor Vehicle	0	0.0	4	0.0	6	0.1	17	0.1	10	0.1	7	0.1
Other Unintentional Injuries	0	0.0	3	0.0	10	0.1	39	0.2	62	0.4	62	1.1
Pneumonia and Influenza	*	*	*	*	*	*	*	*	10	0.1	54	1.0
Suicide	0	0.0	0	0.0	17	0.2	32	0.2	38	0.2	13	0.2
Diabetes Mellitus	0	0.0	0	0.0	0	0.0	*	*	30	0.2	50	0.9
HIV Infection	0	0.0	0	0.0	*	*	3	0.0	*	*	0	0.0
Chronic Liver Disease and Cirrhosis	0	0.0	0	0.0	0	0.0	13	0.1	30	0.2	12	0.2
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	209	3.7
Nephritis, Nephrosis, Nephrotic Syndrome	0	0.0	0	0.0	*	*	*	*	5	0.0	42	0.7
Homicide and Legal Intervention	0	0.0	0	0.0	3	0.0	12	0.1	5	0.0	*	*
Septicemia	0	0.0	*	*	0	0.0	*	*	7	0.0	27	0.5
Congenital Anomalies	9	1.1	*	*	0	0.0	*	*	*	*	*	*
Perinatal Period Conditions	32	3.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
All Other	13	1.6	8	0.1	7	0.1	30	0.2	112	0.7	475	8.4
Injury by Firearm	0	0.0	0	0.0	13	0.2	27	0.2	19	0.1	8	0.1
Drug-Induced Deaths	0	0.0	*	*	8	0.1	38	0.2	47	0.3	6	0.1
Alcohol-Induced Deaths	0	0.0	0	0.0	*	*	16	0.1	36	0.2	9	0.2
Work-Related Injury (Y/N Check Death Certificate)	0	0.0	0	0.0	0	0.0	*	*	*	*	*	*

\* indicates one or two events in the category.

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, 2009**

<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>	3,289	575.4	679.5	656.8	702.2
<b>Cardiovascular Disease</b>	818	143.1	177.4	165.2	189.5
<b>Heart Disease</b>	596	104.3	127.9	117.6	138.2
<b>Cerebrovascular Disease</b>	148	25.9	32.9	27.6	38.2
<b>Atherosclerosis</b>	25	4.4	5.9	3.6	8.2
<b>Malignant Neoplasms</b>	733	128.2	143.5	132.9	154.1
<b>Lung Cancer</b>	190	33.2	38.2	32.7	43.8
<b>Breast Cancer</b>	52	9.1	10.0	7.2	12.8
<b>Chronic Lower Respiratory Diseases</b>	198	34.6	42.8	36.7	48.8
<b>Unintentional Injuries</b>	220	38.5	40.8	35.3	46.3
<b>Motor Vehicle</b>	44	7.7	7.9	5.5	10.3
<b>Other Unintentional Injuries</b>	176	30.8	32.9	27.9	37.8
<b>Pneumonia and Influenza</b>	70	12.2	15.1	11.5	18.6
<b>Suicide</b>	100	17.5	17.4	14.0	20.9
<b>Diabetes Mellitus</b>	81	14.2	15.7	12.2	19.2
<b>HIV Infection</b>	5	0.9	0.9	0.3	1.9
<b>Chronic Liver Disease and Cirrhosis</b>	55	9.6	9.5	7.0	12.1
<b>Alzheimer's Disease</b>	209	36.6	49.5	42.9	56.2
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	49	8.6	10.8	7.8	13.9
<b>Homicide and Legal Intervention</b>	21	3.7	3.8	2.2	5.4
<b>Septicemia</b>	36	6.3	7.5	5.0	10.0
<b>Congenital Anomalies</b>	17	3.0	3.1	1.6	4.5
<b>Perinatal Period Conditions</b>	32	5.6	5.3	3.5	7.2
<b>All Other</b>	645	112.8	136.4	125.8	147.0
<b>Injury by Firearm</b>	67	11.7	11.8	9.0	14.7
<b>Drug-Induced Deaths</b>	100	17.5	16.8	13.5	20.2
<b>Alcohol-Induced Deaths</b>	62	10.8	10.5	7.9	13.2
<b>Work-Related Injury (Y/N Check Death Certificate)</b>	5	0.9	0.9	0.2	2.1

*\* 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).