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# Boulder County Births and Deaths 2002

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## Selected birth characteristics: Boulder county residents, 2002

Characteristic	Number	Percent
Total Live Births	3,700	100.0
Age of Mother		
10-17	97	2.6
18-19	174	4.7
20-29	1,453	39.3
30+	1,974	53.4
Low Weight Births (<2,500 Grams)	246	6.6
Very Low Weight Births (<1,500 Grams)	34	0.9
Prenatal Care Later than 1st Trimester/No Care	519	14.0
No Prenatal Care	16	0.4
Preterm Births (<37 Weeks)	316	8.5
Education of Mother <12 Years	646	17.5
Live Births to Unmarried Women	668	18.1
Smoking During Pregnancy	114	3.1

\* 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: Boulder county residents, 2002**

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>	3,700	100.0	97	100.0	174	100.0	1,453	100.0	1,974	100.0
<b>Race/Ethnicity of Mother</b>										
White Non-Hispanic	2,519	68.1	26	26.8	71	40.8	822	56.6	1,599	81.0
White Hispanic	921	24.9	67	69.1	100	57.5	531	36.5	222	11.2
Black	16	0.4	0	0.0	0	0.0	9	0.6	7	0.4
Other	244	6.6	4	4.1	3	1.7	91	6.3	146	7.4
<b>Low Weight Births (&lt;2,500 Grams)</b>	246	6.7	6	6.2	22	12.6	91	6.3	127	6.4
Very Low Weight Births (<1,500 Grams)	34	0.9	*	*	4	2.3	13	0.9	16	0.8
<b>Prenatal Care Later than 1st Trimester/No Care</b>	519	14.1	27	28.4	52	30.1	258	17.8	181	9.2
No Prenatal Care	16	0.4	3	3.2	3	1.7	7	0.5	3	0.2
<b>Preterm Births (&lt;37 Weeks)</b>	316	8.5	8	8.2	22	12.6	111	7.6	175	8.9
<b>Education of Mother &lt;12 Years</b>	646	17.5	78	80.4	97	55.7	355	24.4	116	5.9
<b>Live Births to Unmarried Women</b>	668	18.1	78	80.4	103	59.2	361	24.8	126	6.4
<b>Smoking During Pregnancy</b>	114	3.1	7	7.3	16	9.4	66	4.5	25	1.3

\* 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: Boulder county residents, 2002**

Characteristic	White Non-Hispanic		White Hispanic		Black		Asian		American Indian	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Total Live Births</b>	2,519	100.0	921	100.0	16	100.0	218	100.0	26	100.0
<b>Age of Mother</b>										
10-17	26	1.0	67	7.3	0	0.0	*	*	*	*
18-19	71	2.8	100	10.9	0	0.0	*	*	*	*
20-29	822	32.6	531	57.7	9	56.3	75	34.4	16	61.5
30+	1,599	63.5	222	24.1	7	43.8	140	64.2	6	23.1
<b>Low Weight Births (&lt;2,500 Grams)</b>	166	6.6	63	6.8	*	*	15	6.9	0	0.0
<b>Very Low Weight Births (&lt;1,500 Grams)</b>	22	0.9	10	1.1	0	0.0	*	*	0	0.0
<b>Prenatal Care Later than 1st Trimester/No Care</b>	251	10.0	239	26.1	3	20.0	21	9.7	5	19.2
<b>No Prenatal Care</b>	7	0.3	8	0.9	0	0.0	0	0.0	*	*
<b>Preterm Births (&lt;37 Weeks)</b>	226	9.0	69	7.5	*	*	20	9.2	0	0.0
<b>Education of Mother &lt;12 Years</b>	112	4.4	519	56.4	*	*	9	4.1	5	19.2
<b>Live Births to Unmarried Women</b>	314	12.5	322	35.0	7	43.8	12	5.5	13	50.0
<b>Smoking During Pregnancy</b>	94	3.7	15	1.6	*	*	*	*	3	12.0

\* 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 of each race/ethnicity group, 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 by age group of mother: Boulder county residents, 2002

Age Group	Births	Population	Fertility Rate
<b>All Ages</b>	3,700	66,422	55.7
<b>Teen Age Groups</b>			
13-14	*	3,513	*
15-17	95	5,410	17.6
18-19	174	5,706	30.5
10-17	97	14,259	6.8
10-19	271	19,965	13.6
<b>All Age Groups</b>			
10-14	*	8,849	*
15-19	269	11,116	24.2
20-24	619	11,443	54.1
25-29	834	10,389	80.3
30-34	1,099	10,665	103.0
35-39	703	10,717	65.6
40-49	172	23,911	7.2

\* 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 definition of fertility rate.

Source: Health Statistics Section, Colorado Department of Public Health and Environment.

**Vital statistics summary: Boulder county residents, 1992, 1998-2002**

	1992	1998	1999	2000	2001	2002	1998-2002 Annual Average
<b>Total Population</b>	238,398	274,112	283,926	292,595	297,842	278,266	285,348
<b>Total Births</b>							
Number	3,280	3,460	3,620	3,875	3,975	3,700	3,726
Birth Rate	13.8	12.6	12.7	13.2	13.3	13.3	13.1
General Fertility Rate	51.5	50.7	51.8	54.5	55.8	55.7	53.7
<b>Age of Mother 10-17</b>							
Number	99	89	115	101	85	97	97
Percent of Total Births	3.0	2.6	3.2	2.6	2.1	2.6	2.6
Fertility Rate	9.0	6.5	8.0	6.8	5.5	6.8	6.7
<b>Low Weight Births (&lt;2,500 Grams)</b>							
Number	207	250	279	292	312	246	276
Percent	6.3	7.2	7.7	7.5	7.8	6.6	7.4
<b>Prenatal Care Later Than 1st Trimester</b>							
Number	652	510	564	600	587	519	556
Percent	20.2	14.8	15.7	15.6	14.8	14.1	15.0
<b>Births to Unmarried Women</b>							
Number	509	629	721	714	694	668	685
Percent	15.5	18.2	19.9	18.4	17.5	18.1	18.4
<b>Mother's Education &lt;12 Years</b>							
Number	421	434	535	588	650	646	571
Percent	14.0	12.7	15.0	15.3	16.5	17.6	15.5
<b>Infant Deaths</b>							
Number	17	12	18	20	21	18	18
Rate	5.2	3.5	5.0	5.2	5.3	4.9	4.8
<b>Neonatal Deaths</b>							
Number	10	5	13	15	13	11	11
Rate	3.0	1.4	3.6	3.9	3.3	3.0	3.1
<b>Total Deaths</b>							
Number	1,104	1,383	1,395	1,415	1,436	1,430	1,412
Crude Rate	463.1	504.5	491.3	483.6	482.1	513.9	494.8
Age-Adjusted Rate	707.0	751.1	729.9	704.5	706.8	758.2	729.2
<b>Cardiovascular Disease</b>							
Number	401	439	466	439	455	449	450
Age-Adjusted Rate	277.3	247.4	255.1	233.9	237.4	250.7	244.7
<b>Heart Disease</b>							
Number	331	332	323	316	309	295	315
Age-Adjusted Rate	227.4	185.1	175.6	167.5	160.2	163.7	170.1
<b>Cerebrovascular Disease</b>							
Number	59	106	106	100	110	126	110

(Continued)

\* 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: Boulder county residents, 1992, 1998-2002

	1992	1998	1999	2000	2001	2002	1998-2002 Annual Average
<b>Age-Adjusted Rate</b>	41.9	61.6	59.3	54.2	58.2	71.7	60.9
<b>Malignant Neoplasms</b>							
<b>Number</b>	270	303	305	326	329	316	316
<b>Age-Adjusted Rate</b>	171.6	164.9	157.8	160.5	160.1	167.7	161.9
<b>Lung Cancer</b>							
<b>Number</b>	52	83	81	69	78	75	77
<b>Age-Adjusted Rate</b>	32.6	45.4	42.5	35.7	39.0	41.3	40.6
<b>Breast Cancer</b>							
<b>Number</b>	31	21	22	35	22	25	25
<b>Age-Adjusted Rate</b>	19.2	11.0	10.9	15.9	10.5	11.3	12.0
<b>Total Unintentional Injuries</b>							
<b>Number</b>	53	71	77	90	91	108	87
<b>Age-Adjusted Rate</b>	26.6	29.0	29.9	36.3	36.0	46.4	35.5
<b>Motor Vehicle</b>							
<b>Number</b>	22	33	33	34	30	33	33
<b>Age-Adjusted Rate</b>	9.7	11.1	10.8	12.4	9.6	11.8	11.2
<b>Other Unintentional Injuries</b>							
<b>Number</b>	31	38	44	56	61	75	55
<b>Age-Adjusted Rate</b>	16.9	17.9	19.0	23.8	26.4	34.7	24.4
<b>Chronic Lower Respiratory Diseases</b>							
<b>Number</b>	69	98	105	97	67	75	88
<b>Age-Adjusted Rate</b>	46.8	58.4	57.8	51.9	35.7	42.1	49.1
<b>Suicide</b>							
<b>Number</b>	39	43	30	47	46	38	41
<b>Age-Adjusted Rate</b>	17.7	17.4	11.7	15.5	16.0	14.0	14.9
<b>Homicide and Legal Intervention</b>							
<b>Number</b>	*	7	6	6	3	7	6
<b>Age-Adjusted Rate</b>	*	2.6	2.2	1.9	0.9	2.4	2.0
<b>Work-Related Injury</b>							
<b>Number</b>	*	4	*	3	0	3	*
<b>Age-Adjusted Rate</b>	*	1.4	*	1.1	0.0	0.9	*

\* 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: Boulder county residents, 2002

Cause of Death	All Races		White Non-Hispanic		White Hispanic		Black		Asian		American Indian	
	N	%	N	%	N	%	N	%	N	%	N	%
<b>Total</b>	1,430	100.0	1,330	100.0	70	100.0	10	100.0	14	100.0	5	100.0
<b>Cardiovascular Disease</b>	449	31.4	425	32.0	17	24.3	3	30.0	3	21.4	*	*
Heart Disease	295	20.6	282	21.2	8	11.4	3	30.0	*	*	*	*
Cerebrovascular Disease	126	8.8	116	8.7	9	12.9	0	0.0	*	*	0	0.0
Atherosclerosis	5	0.3	5	0.4	0	0.0	0	0.0	0	0.0	0	0.0
<b>Malignant Neoplasms</b>	316	22.1	295	22.2	14	20.0	*	*	4	28.6	0	0.0
Lung Cancer	75	5.2	72	5.4	*	*	*	*	0	0.0	0	0.0
Breast Cancer	25	1.7	24	1.8	*	*	0	0.0	0	0.0	0	0.0
<b>Chronic Lower Respiratory Disease</b>	75	5.2	73	5.5	*	*	0	0.0	0	0.0	*	*
<b>Unintentional Injuries</b>	108	7.6	100	7.5	7	10.0	0	0.0	0	0.0	*	*
Motor Vehicle	33	2.3	29	2.2	4	5.7	0	0.0	0	0.0	0	0.0
Other Unintentional Injuries	75	5.2	71	5.3	3	4.3	0	0.0	0	0.0	*	*
<b>Pneumonia and Influenza</b>	55	3.8	53	4.0	*	*	0	0.0	0	0.0	0	0.0
<b>Suicide</b>	38	2.7	36	2.7	*	*	0	0.0	*	*	0	0.0
<b>Diabetes Mellitus</b>	30	2.1	25	1.9	5	7.1	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
<b>Chronic Liver Disease and Cirrhosis</b>	10	0.7	6	0.5	3	4.3	*	*	0	0.0	0	0.0
<b>Alzheimer's Disease</b>	61	4.3	59	4.4	*	*	0	0.0	*	*	0	0.0
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	11	0.8	10	0.8	*	*	0	0.0	0	0.0	0	0.0
<b>Homicide and Legal Intervention</b>	7	0.5	5	0.4	*	*	*	*	0	0.0	0	0.0
<b>Septicemia</b>	6	0.4	6	0.5	0	0.0	0	0.0	0	0.0	0	0.0
<b>Congenital Anomalies</b>	6	0.4	4	0.3	*	*	0	0.0	0	0.0	0	0.0
<b>Perinatal Period Conditions</b>	6	0.4	*	*	3	4.3	0	0.0	*	*	0	0.0
<b>All Other</b>	251	17.6	231	17.4	12	17.1	3	30.0	3	21.4	*	*
<b>Injury by Firearm</b>	18	1.3	16	1.2	*	*	*	*	0	0.0	0	0.0
<b>Drug-Induced Deaths</b>	32	2.2	31	2.3	*	*	0	0.0	0	0.0	0	0.0
<b>Alcohol-Induced Deaths</b>	17	1.2	13	1.0	*	*	*	*	0	0.0	*	*
<b>Work-Related Injury (Y/N Check Death Certificate)</b>	3	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: Boulder county residents, 2002

Age Group	Deaths	Population	Age-Specific Death Rate
<b>All Ages</b>	1,430	278,266	5.1
<b>Infant</b>	18	3,700	4.9
<b>Neonatal</b>	11	3,700	3.0
<b>1-4</b>	3	13,636	0.2
<b>5-9</b>	*	16,835	*
<b>10-14</b>	4	17,845	0.2
<b>15-19</b>	11	23,031	0.5
<b>20-24</b>	8	24,545	0.3
<b>25-29</b>	14	22,620	0.6
<b>30-34</b>	12	22,830	0.5
<b>35-39</b>	24	21,793	1.1
<b>40-44</b>	31	24,025	1.3
<b>45-49</b>	54	23,500	2.3
<b>50-54</b>	64	20,087	3.2
<b>55-59</b>	63	13,805	4.6
<b>60-64</b>	62	8,863	7.0
<b>65-69</b>	91	6,380	14.3
<b>70-74</b>	99	4,992	19.8
<b>75-79</b>	137	4,054	33.8
<b>80-84</b>	216	2,964	72.9
<b>85+</b>	517	2,722	189.9
<b>1-14</b>	9	48,316	0.2
<b>15-24</b>	19	47,576	0.4
<b>25-64</b>	324	157,523	2.1
<b>65+</b>	1,060	21,112	50.2

\* 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: Boulder county residents, 2002

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	18	4.9	9	0.2	19	0.4	81	0.9	243	3.7	1,060	50.2
Cardiovascular Disease	*	*	0	0.0	0	0.0	5	0.1	60	0.9	383	18.1
Heart Disease	0	0.0	0	0.0	0	0.0	5	0.1	43	0.6	247	11.7
Cerebrovascular Disease	*	*	0	0.0	0	0.0	0	0.0	12	0.2	113	5.4
Atherosclerosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	0.2
Malignant Neoplasms	0	0.0	*	*	*	*	11	0.1	74	1.1	229	10.8
Lung Cancer	0	0.0	0	0.0	0	0.0	0	0.0	16	0.2	59	2.8
Breast Cancer	0	0.0	0	0.0	0	0.0	*	*	12	0.2	12	0.6
Chronic Lower Respiratory Diseases	0	0.0	*	*	*	*	0	0.0	9	0.1	64	3.0
Unintentional Injuries	0	0.0	*	*	9	0.2	29	0.3	27	0.4	41	1.9
Motor Vehicle	0	0.0	*	*	9	0.2	10	0.1	9	0.1	3	0.1
Other Unintentional Injuries	0	0.0	0	0.0	0	0.0	19	0.2	18	0.3	38	1.8
Pneumonia and Influenza	0	0.0	0	0.0	0	0.0	*	*	5	0.1	49	2.3
Suicide	0	0.0	0	0.0	3	0.1	15	0.2	14	0.2	6	0.3
Diabetes Mellitus	0	0.0	0	0.0	0	0.0	*	*	7	0.1	22	1.0
HIV Infection	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	5	0.1	5	0.2
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	61	2.9
Nephritis, Nephrosis, Nephrotic Syndrome	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0	8	0.4
Homicide and Legal Intervention	*	*	*	*	*	*	*	*	*	*	0	0.0
Septicemia	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	0.3
Congenital Anomalies	4	1.1	0	0.0	0	0.0	0	0.0	*	*	*	*
Perinatal Period Conditions	6	1.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
All Other	6	1.6	4	0.1	3	0.1	16	0.2	37	0.6	185	8.8
Injury by Firearm	0	0.0	*	*	3	0.1	6	0.1	6	0.1	*	*
Drug-Induced Deaths	0	0.0	0	0.0	*	*	13	0.1	15	0.2	3	0.1
Alcohol-Induced Deaths	0	0.0	0	0.0	0	0.0	*	*	12	0.2	3	0.1
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 for selected causes:  
Boulder county residents, 2002**

Cause of Death	N	Crude Rate	Age-Adjusted Rate	Lower Limit	Upper Limit
All Causes	1,430	513.9	758.2	720.0	796.5
Cardiovascular Disease	449	161.4	250.7	227.7	273.6
Heart Disease	295	106.0	163.7	145.0	182.4
Cerebrovascular Disease	126	45.3	71.7	59.2	84.3
Atherosclerosis	5	1.8	2.8	0.0	0.3
Malignant Neoplasms	316	113.6	167.7	148.9	186.6
Lung Cancer	75	27.0	41.3	31.8	50.8
Breast Cancer	25	9.0	11.3	6.7	16.0
Chronic Lower Respiratory Diseases	75	27.0	42.1	32.5	51.7
Unintentional Injuries	108	38.8	46.4	37.3	55.6
Motor Vehicle	33	11.9	11.8	7.6	15.9
Other Unintentional Injuries	72	25.9	33.7	25.6	41.7
Pneumonia and Influenza	55	19.8	31.0	22.7	39.2
Suicide	38	13.7	14.0	9.4	18.6
Diabetes Mellitus	30	10.8	16.0	10.2	21.9
HIV Infection	*	*	*	*	*
Chronic Liver Disease and Cirrhosis	10	3.6	4.9	0.1	0.5
Alzheimer's Disease	61	21.9	35.8	26.9	44.7
Nephritis, Nephrosis, Nephrotic Syndrome	11	4.0	5.9	0.2	0.6
Homicide and Legal Intervention	7	2.5	2.4	0.0	0.2
Septicemia	6	2.2	3.6	0.1	0.4
Congenital Anomalies	6	2.2	2.4	0.0	0.2
Perinatal Period Conditions	6	2.2	2.2	0.0	0.2
All Other	251	90.2	132.8	116.2	149.4
Injury by Firearm	18	6.5	6.5	3.4	9.6
Drug-Induced Deaths	32	11.5	11.4	7.3	15.5
Alcohol-Induced Deaths	17	6.1	6.7	3.4	9.9
Work-Related Injury (Y/N Check Death Certificate)	3	1.1	0.9	0.0	0.1

\* 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.