

For more information about these tables contact the [Health Statistics Section](#) of the Colorado Department of Public Health and Environment at 303.692.2160.

# Kiowa County Births and Deaths 1999

Selected birth characteristics with 95% confidence limit: Kiowa County residents, 1999 .....	2
Selected birth characteristics by age group of mother: Kiowa County residents, 1999 .....	3
Selected birth characteristics by race/ethnicity of mother: Kiowa County residents, 1999 .....	4
Live births and fertility rates with 95% confidence limits by age of mother: Kiowa County residents, 1999 .....	5
Vital statistics summary: Kiowa County residents, 1989, 1995-1999 .....	6
Deaths from selected causes by race/ethnicity: Kiowa County residents, 1999 .....	7
Deaths and crude death rates with 95% confidence limits by age group: Kiowa County residents, 1999 .....	8
Deaths and crude death rates from selected causes by age group: Kiowa County residents, 1999 .....	9
Deaths, crude death rates and age-adjusted death rates with 95% confidence limits from selected causes: Kiowa County residents, 1999 .....	10
Appendix: Conversion Table of ICD-9 to ICD-10 Codes for Disease Mortality Used in Report .....	11

## Selected birth characteristics with 95% confidence limit: Kiowa County residents, 1999

CHARACTERISTIC	NUMBER	PERCENT	LOWER LIMIT	UPPER LIMIT
Total Live Births	17	100.0	100.0	100.0
Age of Mother				
10-17	*	*	*	*
18-19	*	*	*	*
20-29	13	76.5	53.4	99.6
30+	3	17.6	0.0	38.0
Low Weight Births (<2,500 Grams)	*	*	*	*
Very Low Weight Births (<1,500 Grams)	*	*	*	*
Prenatal Care Later than 1st Trimester	4	23.5	0.0	47.1
No Prenatal Care	*	*	*	*
Preterm Births (<37 Weeks)	*	*	*	*
Education of Mother <12 Years	3	17.6	0.0	38.0
Live Births to Unmarried Women	3	17.6	0.0	38.0
Smoking During Pregnancy	*	*	*	*

\*Fewer than three 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 the technical notes of Colorado Vital Statistics Annual Report for definitions of data items and explanation of confidence limits. Prepared by Health Statistics Section, Colorado Department of Public Health and Environment.

## Selected birth characteristics by age group of mother: Kiowa County residents, 1999

CHARACTERISTIC	ALL AGES		10-17		18-19		20-29		30+	
	N	%	N	%	N	%	N	%	N	%
Total Live Births	17	100.0	*	*	*	*	13	100.0	3	100.0
Race/Ethnicity of Mother										
White/Non-Hispanic	17	100.0	*	*	*	*	13	100.0	3	100.0
White/Hispanic	*	*	*	*	*	*	*	*	*	*
Black	*	*	*	*	*	*	*	*	*	*
Other	*	*	*	*	*	*	*	*	*	*
Low Weight Births (<2,500 Grams)										
Very Low Weight Births (<1,500 Grams)	*	*	*	*	*	*	*	*	*	*
Prenatal Care Started after 1st Trimester	4	23.5	*	*	*	*	*	*	*	*
No Prenatal Care	*	*	*	*	*	*	*	*	*	*
Preterm Births (<37 Weeks)										
Education of Mother <12 Years	3	17.6	*	*	*	*	*	*	*	*
Births to Unmarried Women	3	17.6	*	*	*	*	*	*	*	*
Mother Smoked During Pregnancy	*	*	*	*	*	*	*	*	*	*

\*Fewer than three 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 the technical notes of Colorado Vital Statistics Annual Report for definition of data items and explanation of confidence limits. Prepared by Health Statistics Section, Colorado Department of Public Health and Environment.

## Selected birth characteristics by race/ethnicity of mother: Kiowa County residents, 1999

CHARACTERISTIC	WHITE/ NON-HISPANIC		WHITE /HISPANIC		BLACK		ASIAN		AMERICAN INDIAN	
	N	%	N	%	N	%	N	%	N	%
Total Live Births	17	100.0	*	*	*	*	*	*	*	*
Age of Mother										
10-17	*	*	*	*	*	*	*	*	*	*
18-19	*	*	*	*	*	*	*	*	*	*
20-29	13	76.5	*	*	*	*	*	*	*	*
30+	3	17.6	*	*	*	*	*	*	*	*
Low Weight Births (<2,500 Grams)	*	*	*	*	*	*	*	*	*	*
Very Low Weight Births (<1,500 Grams)	*	*	*	*	*	*	*	*	*	*
Prenatal Care Later than 1st Trimester	4	23.5	*	*	*	*	*	*	*	*
No Prenatal Care	*	*	*	*	*	*	*	*	*	*
Preterm Births (<37 Weeks)	*	*	*	*	*	*	*	*	*	*
Education of Mother <12 Years	3	17.6	*	*	*	*	*	*	*	*
Live Births to Unmarried Women	3	17.6	*	*	*	*	*	*	*	*
Mother Smoking During Pregnancy	*	*	*	*	*	*	*	*	*	*

\*Fewer than three events in the category. Sums may not add to total due to cases with age or race/ethnicity of mother unknown or not presented. Percentages are of total births of each race/ethnicity group, excluding cases with specific characteristics unknown. Prepared by Health Statistics Section, Colorado Department of Public Health and Environment.

## Live births and fertility rates with 95% confidence limits by age of mother: Kiowa County residents, 1999

	BIRTHS	POPULATION	FERTILITY RATE	LOWER LIMIT	UPPER LIMIT
ALL AGES	17	364	46.7	23.7	69.8
TEENAGE GROUP					
13-14	*	34	*	*	*
15-17	*	47	*	*	*
18-19	*	29	*	*	*
10-17	*	118	*	*	*
10-19	*	147	*	*	*
ALL AGE GROUPS					
10-14	*	71	*	*	*
15-19	*	76	*	*	*
20-24	8	63	127.0	36.8	217.1
25-29	5	39	128.2	10.5	246.0
30-34	*	39	*	*	*
35-39	*	80	*	*	*
40-49	*	147	*	*	*

\*Fewer than three 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 aged 15-44. See the technical notes of Colorado Vital Statistics Annual Report for explanation of confidence limits. Prepared by Health Statistics Section, Colorado Department of Public Health and Environment.

## Vital statistics summary: Kiowa County residents, 1989, 1995-1999

	1989	1995	1996	1997	1998	1999	1995-1999 ANNUAL AVERAGE
TOTAL POPULATION	1,744	1,726	1,766	1,781	1,780	1,785	1,768
Total Births							
Number	20	17	13	20	17	17	17
Birth Rate	11.5	9.8	7.4	11.2	9.6	9.5	9.5
General Fertility Rate	67.6	49.7	36.8	55.6	47.0	46.7	47.2
Age of Mother 10-17							
Number	*	*	*	*	*	*	*
Percent of Total Births	*	*	*	*	*	*	*
Fertility Rate	*	*	*	*	*	*	*
Low Weight Births (<2,500 Grams)							
Number	*	*	3	*	*	*	*
Percent	*	*	23.1	*	*	*	*
Prenatal Care Later Than 1st Trimester							
Number	4	*	*	3	8	4	4
Percent	20.0	*	*	15.0	47.1	23.5	22.6
Births To Unmarried Women							
Number	*	4	4	3	6	3	4
Percent	*	23.5	30.8	15.0	35.3	17.6	23.8
Mother's Education <12 Years							
Number	*	*	3	3	3	3	3
Percent	*	*	23.1	15.0	17.6	17.6	16.7
Infant Deaths							
Number	*	*	*	*	*	*	*
Rate	*	*	*	*	*	*	*
Neonatal Deaths							
Number	*	*	*	*	*	*	*
Rate	*	*	*	*	*	*	*
Underlying Cause of Death All Causes							
Number	21	16	20	18	19	15	18
Crude Rate	1,204.2	927.0	1,132.5	1,010.7	1,067.4	840.3	995.7
Age-Adjusted Rate	1,172.5	667.1	852.4	694.0	768.2	637.9	726.9
Cardiovascular Disease							
Number	6	6	8	7	12	5	8
Age-Adjusted Rate	381.3	227.3	328.7	256.5	460.9	220.7	298.6
Heart Disease							
Number	6	3	4	4	9	5	5
Age-Adjusted Rate	381.3	114.1	177.1	144.7	349.8	220.7	200.0
Cerebrovascular Disease							
Number	*	*	3	3	*	*	*
Age-Adjusted Rate	*	*	112.8	111.8	*	*	*
Malignant Neoplasms							
Number	7	3	6	4	*	7	4
Age-Adjusted Rate	343.3	129.2	260.1	182.7	*	300.4	176.5
Lung Cancer							
Number	*	*	*	*	*	*	*
Age-Adjusted Rate	*	*	*	*	*	*	*
Breast Cancer							
Number	*	*	*	*	*	*	*
Age-Adjusted Rate	*	*	*	*	*	*	*
Total Unintentional Injuries							
Number	*	*	*	*	*	*	*
Age-Adjusted Rate	*	*	*	*	*	*	*
Motor Vehicle							
Number	*	*	*	*	*	*	*
Age-Adjusted Rate	*	*	*	*	*	*	*
All Other Unintentional Injuries							
Number	*	*	*	*	*	*	*
Age-Adjusted Rate	*	*	*	*	*	*	*
Chronic Obstructive Pulmonary Disease							
Number	3	*	*	*	*	*	*
Age-Adjusted Rate	139.6	*	*	*	*	*	*
Suicide							
Number	*	*	*	*	*	*	*
Age-Adjusted Rate	*	*	*	*	*	*	*
Homicide and Legal Intervention							
Number	*	*	*	*	*	*	*
Age-Adjusted Rate	*	*	*	*	*	*	*
Work-Related Injury							
Number	*	*	*	*	*	*	*
Age-Adjusted Rate	*	*	*	*	*	*	*

\*Fewer than three events in the category. Birth rates are per 1,000 total population. General fertility rates are births per 1,000 females aged 15-44. Fertility rates for mothers age 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. Prepared by Health Statistics Section, Colorado Department of Public Health and Environment.

## Deaths from selected causes by race/ethnicity: Kiowa County residents, 1999

CAUSE OF DEATH (ICD-10)	ALL RACES		WHITE/ NON-HISPANIC		WHITE /HISPANIC		BLACK		ASIAN		AMERICAN INDIAN	
	N	%	N	%	N	%	N	%	N	%	N	%
TOTAL	15	100.0	15	100.0	*	*	*	*	*	*	*	*
Cardiovascular Disease	5	33.3	5	33.3	*	*	*	*	*	*	*	*
Heart Disease	5	33.3	5	33.3	*	*	*	*	*	*	*	*
Cerebrovascular Disease	*	*	*	*	*	*	*	*	*	*	*	*
Atherosclerosis	*	*	*	*	*	*	*	*	*	*	*	*
Malignant Neoplasms	7	46.7	7	46.7								
Lung Cancer	*	*	*	*	*	*	*	*	*	*	*	*
Breast Cancer	*	*	*	*	*	*	*	*	*	*	*	*
Chronic Obstructive Pulmonary Disease	*	*	*	*	*	*	*	*	*	*	*	*
Unintentional Injuries	*	*	*	*	*	*	*	*	*	*	*	*
Motor Vehicle	*	*	*	*	*	*	*	*	*	*	*	*
All Other	*	*	*	*	*	*	*	*	*	*	*	*
Pneumonia and Influenza	*	*	*	*	*	*	*	*	*	*	*	*
Suicide	*	*	*	*	*	*	*	*	*	*	*	*
Diabetes Mellitus	*	*	*	*	*	*	*	*	*	*	*	*
HIV Infection	*	*	*	*	*	*	*	*	*	*	*	*
Chronic Liver Disease and Cirrhosis	*	*	*	*	*	*	*	*	*	*	*	*
Alzheimer's Disease	*	*	*	*	*	*	*	*	*	*	*	*
Nephritis, Nephrosis, Nephrotic Syndrome	*	*	*	*	*	*	*	*	*	*	*	*
Homicide and Legal Intervention	*	*	*	*	*	*	*	*	*	*	*	*
Septicemia	*	*	*	*	*	*	*	*	*	*	*	*
Congenital Anomalies	*	*	*	*	*	*	*	*	*	*	*	*
Perinatal Period Conditions	*	*	*	*	*	*	*	*	*	*	*	*
All Other	*	*	*	*	*	*	*	*	*	*	*	*
Injury by Firearms	*	*	*	*	*	*	*	*	*	*	*	*
Drug-Induced Deaths	*	*	*	*	*	*	*	*	*	*	*	*
Alcohol-Induced Deaths	*	*	*	*	*	*	*	*	*	*	*	*
Work Related Injury (Y/N Check Death Certificate)	*	*	*	*	*	*	*	*	*	*	*	*

\*Fewer than three events in the category. Percentages are of total deaths of each race/ethnicity category. Prepared by Health Statistics Section, Colorado Department of Public Health and Environment.

**Deaths and crude death rates with 95% confidence limits by age group: Kiowa County residents, 1999**

AGE GROUP	DEATHS	POPULATION	AGE-SPECIFIC DEATH RATE	LOWER LIMIT	UPPER LIMIT
ALL AGES	15	1,785	8.4	3.9	12.9
INFANT	*	17	*	*	*
NEONATAL	*	17	*	*	*
1-4	*	75	*	*	*
5-9	*	99	*	*	*
10-14	*	142	*	*	*
15-19	*	147	*	*	*
20-24	*	117	*	*	*
25-29	*	82	*	*	*
30-34	*	78	*	*	*
35-39	*	149	*	*	*
40-44	*	143	*	*	*
45-49	*	171	*	*	*
50-54	*	103	*	*	*
55-59	*	87	*	*	*
60-64	3	94	31.9	0.0	68.8
65-69	*	61	*	*	*
70-74	*	64	*	*	*
75-79	4	66	60.6	0.0	121.2
80-84	*	52	*	*	*
85+	4	38	105.3	0.0	210.5
1-14	*	316	*	*	*
15-24	*	264	*	*	*
25-64	4	907	4.4	0.0	8.8
65+	11	281	39.1	14.7	63.6

\*Fewer than three 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. Prepared by Health Statistics Section, Colorado Department of Public Health and Environment.

## Deaths and crude death rates from selected causes by age group: Kiowa County residents, 1999

CAUSE OF DEATH (ICD-10)	<1		1-14		15-24		25-44		45-64		65+	
	N	RATE	N	RATE	N	RATE	N	RATE	N	RATE	N	RATE
TOTAL	*	*	*	*	*	*	*	*	4	8.8	11	39.1
Cardiovascular Disease	*	*	*	*	*	*	*	*	*	*	4	14.2
Heart Disease	*	*	*	*	*	*	*	*	*	*	4	14.2
Cerebrovascular Disease	*	*	*	*	*	*	*	*	*	*	*	*
Atherosclerosis	*	*	*	*	*	*	*	*	*	*	*	*
Malignant Neoplasms	*	*	*	*	*	*	*	*	3	6.6	4	14.2
Lung Cancer	*	*	*	*	*	*	*	*	*	*	*	*
Breast Cancer	*	*	*	*	*	*	*	*	*	*	*	*
Chronic Obstructive Pulmonary Disease	*	*	*	*	*	*	*	*	*	*	*	*
Unintentional Injuries	*	*	*	*	*	*	*	*	*	*	*	*
Motor Vehicle	*	*	*	*	*	*	*	*	*	*	*	*
All Other	*	*	*	*	*	*	*	*	*	*	*	*
Pneumonia and Influenza	*	*	*	*	*	*	*	*	*	*	*	*
Suicide	*	*	*	*	*	*	*	*	*	*	*	*
Diabetes Mellitus	*	*	*	*	*	*	*	*	*	*	*	*
HIV Infection	*	*	*	*	*	*	*	*	*	*	*	*
Chronic Liver Disease and Cirrhosis	*	*	*	*	*	*	*	*	*	*	*	*
Alzheimer's Disease	*	*	*	*	*	*	*	*	*	*	*	*
Nephritis, Nephrosis, Nephrotic Syndrome	*	*	*	*	*	*	*	*	*	*	*	*
Homicide and Legal Intervention	*	*	*	*	*	*	*	*	*	*	*	*
Septicemia	*	*	*	*	*	*	*	*	*	*	*	*
Congenital Anomalies	*	*	*	*	*	*	*	*	*	*	*	*
Perinatal Period Conditions	*	*	*	*	*	*	*	*	*	*	*	*
All Other	*	*	*	*	*	*	*	*	*	*	*	*
Injury by Firearms	*	*	*	*	*	*	*	*	*	*	*	*
Drug-Induced Deaths	*	*	*	*	*	*	*	*	*	*	*	*
Alcohol-Induced Deaths	*	*	*	*	*	*	*	*	*	*	*	*

\*Fewer than three events in the category. Crude death rates are calculated without age adjustment. Infant (<1 year) mortality rates are per 1,000 live births. Other rates are deaths per 1,000 population of the age group. Prepared by 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: Kiowa County residents, 1999**

CAUSE OF DEATH (ICD-10)	DEATHS	CRUDE RATE	AGE-ADJUSTED DEATH RATE		
			RATE	LOWER LIMIT	UPPER LIMIT
TOTAL	15	840.3	637.9	320.5	955.3
Cardiovascular Disease	5	280.1	220.7	27.9	413.4
Heart Disease	5	280.1	220.7	27.9	413.4
Cerebrovascular Disease	*	*	*	*	*
Atherosclerosis	*	*	*	*	*
Malignant Neoplasms	7	392.2	300.4	78.2	522.6
Lung Cancer	*	*	*	*	*
Breast Cancer	*	*	*	*	*
Chronic Obstructive Pulmonary Disease	*	*	*	*	*
Unintentional Injuries	*	*	*	*	*
Motor Vehicle	*	*	*	*	*
All Other	*	*	*	*	*
Pneumonia and Influenza	*	*	*	*	*
Suicide	*	*	*	*	*
Diabetes Mellitus	*	*	*	*	*
HIV Infection	*	*	*	*	*
Chronic Liver Disease and Cirrhosis	*	*	*	*	*
Alzheimer's Disease	*	*	*	*	*
Nephritis, Nephrosis, Nephrotic Syndrome	*	*	*	*	*
Homicide and Legal Intervention	*	*	*	*	*
Septicemia	*	*	*	*	*
Congenital Anomalies	*	*	*	*	*
Perinatal Period Conditions	*	*	*	*	*
All Other	*	*	*	*	*
Injury by Firearms	*	*	*	*	*
Drug-Induced Deaths	*	*	*	*	*
Alcohol-Induced Deaths	*	*	*	*	*
Work Related Injury (Y/N Check Death Certificate)	*	*	*	*	*

\*Fewer than three 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. Prepared by Health Statistics Section, Colorado Department of Public Health and Environment.

## Appendix: Conversion Table of ICD-9 to ICD-10 Codes for Disease Mortality Used in Report

The *International Classification of Diseases (ICD)* is a classification system developed collaboratively between the World Health Organization (WHO) and 10 international centers so that the medical terms reported by physicians, medical examiners, and coroners on death certificates can be grouped together for statistical purposes. The purpose of the ICD and of WHO sponsorship is to promote international comparability in the collection, classification, processing, and presentation of mortality statistics. New revisions of the ICD are implemented periodically so that the classification reflects advances in medical science. Since 1900, the ICD has been modified about once every 10 years, except for the 20-year interval between the last two revisions, ICD-9 and ICD-10. Effective with deaths occurring in 1999, the United States began using the ICD-10, replacing ICD-9 used with 1979-98 data. Publications showing mortality data under ICD-10 will differ substantially from those under ICD-9 because of changes in coding rules, changes in category names and ICD numbers, and changes in the tabulation lists used to produce mortality data. The following table shows the ICD-9 and ICD-10 codes for diseases and injuries reported in this document. Data users should be mindful of the huge impact of the ICD-10 on mortality statistics and are encouraged to contact National Center for Health Statistics or the Health Statistics Section of the Colorado Department of Public Health and Environment (303-692-2160) for assistance in using the ICD-10 and data interpretation.

CAUSE	ICD-9	ICD-10
Cardiovascular Disease	390-434,436-448	I00-I78
Heart Disease	390-398,402,404,410-429	I00-I09,I11,I13,I20-I51
Cerebrovascular Diseases	430-434,436-438	I60-I69
Atherosclerosis	440	I70
Malignant Neoplasms	140-208	C00-C97
Lung Cancer	162	C33-C34
Breast Cancer	174-175	C50
Chronic Obstructive Pulmonary Disease	490-494,496	J40-J47
Unintentional Injuries	E800-E869,E880-E929	V01-X59,Y85-Y86
Motor Vehicle	E810-E825	V02-V04,V09.0,V90.2,V12-V14,V19.0-V19.2,V19.4-V19.6,V20-V79,V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2
All Other Unintentional Injuries	E800-E809,E826-E869,E880-E929	V01,V05-V08,V09.1,V09.3-V09.9,V10-V11,V15-V18,V19.3,V19.8-V19.9,V80.0-V80.2,V80.6-V80.9,V81.2-V81.9,V82.2-V82.9,V87.9,V88.9,V89.1,V89.3,V89.9,V90-V99,W00-X59,Y85-Y86
Pneumonia And Influenza	480-487	J10-J18
Suicide	E950-E959	X60-X84,Y87.0
Diabetes Mellitus	250	E10-E14
Human Immunodeficiency Virus Infection	042-044	B20-B24
Chronic Liver Disease And Cirrhosis	571	K70,K73-K74
Alzheimer's Disease	331.0	G30
Nephritis, Nephrosis, Nephrotic Syndrome	580-589	N00-N07,N17-N19,N25-N27
Homicide And Legal Intervention	E960-E978	X85-Y09,Y35,Y87.1,Y89.0
Septicemia	038	A40-A41
Congenital Anomalies	740-759	Q00-Q99
Perinatal Period Conditions	760-771.2,771.4-779	P00-P96
Injury By Firearms	E922,E955.0-E955.4,E965.4,E965.5,E970,E985.0-E985.4	W32-W34,X72-X74,X93-X95,Y22-Y24,Y35.0
Drug-Induced Deaths	292,304,305.2-305.9,E850-E858,E950.0-E950.5,E962.0,E980.0-E980.5	F11.0-F11.5,F11.7-F11.9,F12.0-F12.5,F12.7-F12.9,F13.0-F13.5,F13.7-F13.9,F14.0-F14.5,F14.7-F14.9,F15.0-F15.5,F15.7-F15.9,F16.0-F16.5,F16.7-F16.9,F17.0-F17.3,F17.5-F17.7,F17.9,F18.0-F18.5,F18.7-F18.9,F19.0-F19.5,F19.7-F19.9,X40-X44,X60-X64,X85,Y10-Y14
Alcohol-Induced Deaths	291,303,305.0,357.5,425.5,535.3,571.0-571.3,790.3,E860	F10,G31.2,G62.1,I42.6,K29.2,K70,R78.0,X45,X65,Y15