

# **POPULATION PROJECTIONS FOR OKLAHOMA 2000-2030**



**Oklahoma Department of Commerce**

# **Population Projections For Oklahoma 2000-2030**

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## Introduction

This report presents projections of the resident population of Oklahoma by age and sex and its counties for each five year period from 2000 to 2030. These projections supersede previous state projections published April 1993.

Since actual future population trends are unknown, the projections in this report should not be considered a prediction of the future. Rather, these projections, calculated under a specific set of assumptions, indicate the levels of population that would result if our assumptions about each population component were to hold true. The assumptions utilized in this report are outlined in detail in the following discussion.

Three series of projections were calculated for the state and counties under different sets of migration assumptions - "high," "medium," and "low." The series of projections calculated under "high" migration assume an unusually high rate of migration, while "medium" migration assumes a moderate gain from migration. "Low" migration assumes no population gain at all from migration. We recommend the medium series for most applications.

## Methodology

### State Level Projections

The state projections were made using a cohort-component projection model. With this method, each component of population change (births, deaths, and net migration) is projected separately for each year birth cohort by sex. Algorithms were developed for the projections model supplied by the U.S. Census Bureau.

The cohort-component method employs the following basic demographic formula:

$$P_1 = P_0 + B - D + NM$$

Where:

- $P_1$  = Population at the end of the period
- $P_0$  = Population at the beginning of the period
- $B$  = Births during the period
- $D$  = Deaths during the period
- $NM$  = Net migration

The model works in the following manner. For every year projection period, the base population disaggregated by five-year age groups by sex, is "survived" to the next year period by applying the appropriate survival rates for each age and sex group. Next, net migrants by age and sex are added to the survived population, as is the population under age 5. This younger population is generated by applying age-specific birth rates to the females of childbearing age and surviving the births over the period.

### Base Population

These projections begin with the April 1, 2000 census population of Oklahoma. The population data in this report are for the resident population of the state. They include members of the Armed Forces stationed within Oklahoma.

### Projections of Births

Fertility has been declining in both Oklahoma and the United States during the past several decades, but the decline in Oklahoma is not as dramatic as for the nation. This decline has been slowing down over the past few years. For these projections, we assumed that the total fertility rate for the 2000 would continue until 2010 then decline by 0.05 percent every 5 years.



The actual measure of fertility used in the model is based on age-specific birth rates for females aged 10 to 4 and over by 5 year cohorts. The rates used were calculated by dividing the number of births by age of mother in 2000 by the 2000 appropriate female population (see Table A-1 for age-specific fertility rates). In the model, these rates are applied to the projected number of females of childbearing age at the beginning of the period to obtain the number of births over the five-year period. The gender of births was determined by applying the usual assumption of 105 male births for every 100 female births. This process results in the projected population under age 5 for each five-year period.

### **Projections of Deaths**

The expectation of life at birth for the population of Oklahoma improved significantly over the past decades. Over the period from 1969-71 to 1979-81, life expectancy in Oklahoma improved from 67.4 years to 69.6 years for males and from 75.7 years to 77.8 years for females. From 1979-81 to 1989-91, males made further improvement to 71.6 and females to 78.5 (U.S. Department of Health and Human Services, Oklahoma Life Tables 1969-71, 1979-81, and 1989-91).

Survival rates by single ages by sex for 2000 and 2100 were supplied by the U.S. Census Bureau. In the projection model, the base population by age and sex for each projection period was survived to the next period by applying the survival rate for each age.

### **Projections of Net Migration**

The only consistency in Oklahoma's recent migration history has been its unpredictability. During the period from 1950 to 1960, the state lost a net population of over 218,000 people, but in the following decade gained a net of about 15,000 persons. During the oil boom period there was a large inflow of migrants to the state. Oklahoma gained a net of 165,300 persons in the five years between 1975 and 1980 and 200,700 between 1980 and 1983 (Decennial Census and Population Estimates Branch: U.S. Census Bureau).

Because of the oil price decline and subsequent economic problems, the state lost population due to net migration from 1983 to 1990. During much of the 1990s, migration reversed and had a positive impact on the state population. Only in the

last two years has the state seen any negative migration. (Decennial Census and Population Estimates Branch: U.S. Census Bureau)

Table A-3 in the appendix provides information about the amount of change in population due to net migration and the amount of change accounted for by natural increase.

Because net migration is a significant determinant of the state's growth and migration patterns have been so irregular, this report provides three different sets of net migration assumptions - high, medium, and low - each corresponding to general economic conditions in the state. The high net migration assumption can be expected only with a major economic recovery in the state. This assumption of 25,000 net migrants per year, which is just below the actual annual net migration over the period 1970 to 1983, represents a very high level of sustained migration for the state.

Under the low assumption, we assumed no net migration; that is, outmigration and immigration will balance each other over the long run. Under this assumption, the economy of the state is expected to improve very little, although it will not worsen. Under the medium migration assumption, net migration of 10,000 per year, the state would undergo moderate economic growth.

For use in the computer model, migration had to be expressed in terms of persons by age and sex. The percent change by single years of age by sex from 1990 to 2000 was used to calculate each migration assumption.

### **Group Quarters Population**

Because of the difficulty in predicting growth rates in group quarters populations, this special population was held constant (using the 2000 population) over the 30 year period. Group quarters include population in dormitories, prisons, nursing homes, hospitals, and boarding houses. Table A-4, in the appendix, gives the state group quarters population by age and sex.



## County Level Projections

The procedure used for county projections was similar to that developed for the state projections, in that a cohort-component projection model was utilized. Separate methods were developed to account for the peculiarities of projecting county populations

### Base Population

The 2000 census population of each county by age and sex was used as the base population.

### Projections of Births

The distribution of fertility for the state was used in the model based on the actual age-specific birth rates for females aged 10 to 45 and over in 2000. The total births for each county were divided into male and female births under the usual assumption of 105 male births for every 100 female births.

Preliminary calculations, which took into account that not all counties had declining birth rates, were performed. However, these numbers were not significantly different from calculations which assumed birth rates would decline in all counties regardless of an increase or decrease in the last decade.

### Projections of Deaths

In the absence of complete life tables for individual counties, the state survival rates by age and sex were used in calculating the county projections. It was assumed that each county would have the same mortality experience as that of the state. In general, the mortality differentials between counties and the state are insignificant.

### Projections of Net Migration

The medium state migration assumption was used to calculate county migration trends. Each county's proportion of total state migration over the period was calculated using the county percent change between 1990 and 2000. Counties that had a negative percent change were given zero migration.

## Limitations

These projections are unlikely to be free of error since potential error is introduced with every assumption of future demographic trends. If actual trends deviate from those used in this report, the projections will obviously prove to be inaccurate. In particular, projections of small areas are generally less reliable than those for larger areas. In addition, these projections were based on demographic characteristics of the population. Extraneous variables such as wars, epidemics, natural catastrophes and economic changes within the state or particular areas of the state could affect actual population growth. Any discrepancies between tables are caused due to rounding.

## Appendix Tables

Table A-1 shows fertility rates by age for the state. These rates are used to project births in the projection formula (See Projections of Births in text). Table A-2 lists age-specific survival ratios (See Projections of Deaths in text). Table A-3 was included to show the amount of change in population attributed to net migration and the amount of change accounted for by natural increase from 1920 to present. Table A-4 shows 2000 group quarters population for the state. Group quarters population include college dormitories, prisons, hospitals, and nursing homes.

## Dissemination and Availability of Projections

This report provides state projections for five year age groups by sex for three migration assumptions and county total projections for the medium migration assumption over the period 2000 to 2030. The entire report is available on the Oklahoma Department of Commerce's web site at <http://www.odoc.state.ok.us> County projections for age by sex and city projections will also be made available on the Commerce web site.

Please contact the Oklahoma State Data Center for more information.



Table 1  
 Population Projections of the State by Age and Sex, Selected Migration Assumptions: 2000 - 2030

	Census		Projections				
	2000	2005	2010	2015	2020	2025	2030
<b>High Series</b>							
<b>Both Sexes</b>							
Total	3,450,654	3,652,000	3,860,500	4,071,500	4,278,500	4,479,700	4,675,900
0-4	236,353	249,700	264,400	275,700	281,400	286,900	295,000
5-9	244,525	244,700	258,000	272,700	284,000	289,800	295,300
10-14	252,029	254,000	254,100	267,500	282,200	293,500	299,300
15-19	269,373	278,200	280,200	280,400	293,700	308,500	319,800
20-24	247,165	281,600	290,400	292,500	292,800	306,200	320,900
25-29	229,026	240,500	274,800	283,700	285,800	286,200	299,600
30-34	222,621	234,700	246,200	280,400	289,300	291,600	292,000
35-39	259,131	229,800	241,900	253,400	287,400	296,500	298,800
40-44	264,391	264,700	235,800	248,000	259,600	293,500	302,600
45-49	240,805	267,200	267,800	239,600	251,800	263,500	297,200
50-54	212,956	241,800	268,000	269,000	241,700	254,000	265,900
55-59	173,199	211,200	239,600	265,500	267,000	241,100	253,500
60-64	143,130	168,400	205,100	232,700	258,200	260,400	236,500
65-69	128,756	135,100	159,100	193,700	220,300	245,000	248,100
70-74	113,743	116,700	123,300	145,400	177,200	202,200	225,700
75-79	94,068	96,800	100,500	107,000	126,700	154,800	177,500
80-84	62,208	71,700	75,000	79,000	85,300	101,700	125,100
85+	57,175	65,300	76,400	85,400	94,000	104,400	123,200
<b>Male</b>							
Total	1,695,895	1,798,300	1,904,000	2,010,900	2,115,500	2,216,700	2,315,400
0-4	121,605	127,800	135,300	141,100	144,100	146,900	151,100
5-9	125,130	125,800	132,100	139,600	145,400	148,400	151,200
10-14	128,849	130,000	130,800	137,000	144,500	150,300	153,300
15-19	139,122	143,100	144,300	145,100	151,300	158,900	164,700
20-24	127,797	147,800	151,800	153,100	153,900	160,200	167,700
25-29	116,965	123,300	143,200	147,300	148,600	149,500	155,800
30-34	112,508	119,100	125,500	145,300	149,400	150,800	151,700
35-39	129,416	115,900	122,600	128,900	148,600	152,800	154,200
40-44	131,306	131,400	118,200	124,800	131,300	150,800	155,000
45-49	119,074	131,500	131,700	118,900	125,600	132,100	151,500
50-54	103,955	118,400	130,700	131,100	118,900	125,600	132,100
55-59	83,872	101,900	116,000	128,100	128,900	117,400	124,200
60-64	68,185	80,300	97,600	111,300	123,100	124,300	113,900
65-69	59,486	63,000	74,300	90,400	103,500	114,900	116,500
70-74	50,607	52,100	55,600	65,900	80,400	92,400	103,100
75-79	39,283	40,500	42,300	45,700	54,500	67,000	77,600
80-84	22,829	27,200	28,600	30,500	33,500	40,500	50,400
85+	15,906	19,100	23,300	26,600	29,900	34,100	41,400



Table 1 (cont.)

Population Projections of the State by Age and Sex, Selected Migration Assumptions: 2000 - 2030

	Census	Projections					
	2000	2005	2010	2015	2020	2025	2030
High Series							
Female							
Total	1,754,759	1,853,800	1,956,500	2,060,600	2,163,100	2,263,000	2,360,600
0-4	114,748	121,900	129,000	134,500	137,300	140,000	143,900
5-9	119,395	118,800	125,900	133,100	138,600	141,400	144,100
10-14	123,180	123,900	123,400	130,500	137,700	143,200	146,000
15-19	130,251	135,000	135,800	135,300	142,400	149,600	155,100
20-24	119,368	133,800	138,600	139,400	138,900	146,000	153,200
25-29	112,061	117,200	131,600	136,400	137,200	136,700	143,800
30-34	110,113	115,600	120,700	135,100	139,900	140,800	140,300
35-39	129,715	113,800	119,300	124,500	138,800	143,700	144,600
40-44	133,085	133,300	117,600	123,100	128,300	142,600	147,500
45-49	121,731	135,800	136,100	120,700	126,300	131,500	145,800
50-54	109,001	123,400	137,400	137,800	122,800	128,400	133,700
55-59	89,327	109,300	123,500	137,300	138,100	123,700	129,300
60-64	74,945	88,100	107,500	121,500	135,100	136,100	122,600
65-69	69,270	72,100	84,800	103,300	116,900	130,200	131,600
70-74	63,136	64,600	67,700	79,500	96,800	109,800	122,600
75-79	54,785	56,300	58,200	61,400	72,200	87,900	99,900
80-84	39,379	44,500	46,400	48,600	51,800	61,100	74,700
85+	41,269	46,300	53,100	58,700	64,100	70,400	81,800

Table 1 (cont.)

Population Projections of the State by Age and Sex, Selected Migration Assumptions: 2000 - 2030

	Census		Projections				
	2000	2005	2010	2015	2020	2025	2030
<b>Medium Series</b>							
<b>Both Sexes</b>							
Total	3,450,654	3,576,200	3,707,000	3,838,400	3,963,800	4,081,400	4,192,400
0-4	236,353	244,400	253,600	259,300	259,700	259,900	262,800
5-9	244,525	239,500	247,600	256,800	262,600	262,900	263,200
10-14	252,029	248,600	243,600	251,600	260,900	266,700	267,000
15-19	269,373	272,500	269,100	264,200	272,300	281,500	287,400
20-24	247,165	275,800	279,100	275,800	270,900	279,100	288,300
25-29	229,026	235,400	264,000	267,300	264,100	259,400	267,500
30-34	222,621	229,800	236,200	264,700	268,100	265,000	260,300
35-39	259,131	224,600	231,800	238,300	266,700	270,200	267,200
40-44	264,391	259,000	225,000	232,300	238,900	267,200	270,800
45-49	240,805	261,800	256,700	223,500	230,800	237,600	265,700
50-54	212,956	236,900	257,800	253,200	221,000	228,500	235,500
55-59	173,199	207,100	230,800	251,500	247,600	216,800	224,500
60-64	143,130	165,100	197,900	221,100	241,600	238,600	209,900
65-69	128,756	132,300	153,300	184,300	206,700	226,700	224,800
70-74	113,743	114,300	118,400	137,800	166,400	187,500	206,700
75-79	94,068	94,800	96,500	101,000	118,300	143,600	163,000
80-84	62,208	70,300	72,100	74,700	79,300	93,800	114,900
85+	57,175	64,100	73,800	81,100	88,000	96,400	112,700
<b>Male</b>							
Total	1,695,895	1,760,900	1,828,200	1,895,700	1,959,800	2,019,600	2,075,900
0-4	121,605	125,100	129,800	132,800	132,900	133,100	134,600
5-9	125,130	123,200	126,700	131,400	134,400	134,600	134,700
10-14	128,849	127,300	125,400	128,900	133,600	136,600	136,800
15-19	139,122	140,200	138,700	136,800	140,400	145,100	148,100
20-24	127,797	144,800	146,000	144,500	142,700	146,300	151,100
25-29	116,965	120,700	137,700	138,900	137,500	135,700	139,300
30-34	112,508	116,600	120,400	137,300	138,600	137,200	135,500
35-39	129,416	113,300	117,500	121,300	138,100	139,400	138,200
40-44	131,306	128,500	112,800	117,000	120,800	137,500	138,900
45-49	119,074	128,800	126,200	110,900	115,100	119,100	135,600
50-54	103,955	116,000	125,600	123,300	108,600	112,900	117,000
55-59	83,872	99,900	111,800	121,300	119,400	105,500	109,900
60-64	68,185	78,700	94,100	105,700	115,100	113,700	101,000
65-69	59,486	61,700	71,600	86,000	97,000	106,200	105,500
70-74	50,607	51,000	53,400	62,400	75,500	85,700	94,400
75-79	39,283	39,700	40,600	43,100	50,900	62,100	71,200
80-84	22,829	26,600	27,500	28,800	31,100	37,400	46,300
85+	15,906	18,700	22,500	25,300	28,000	31,400	37,900



Table 1 (cont.)

Population Projections of the State by Age and Sex, Selected Migration Assumptions: 2000 - 2030

	Census	Projections					
	2000	2005	2010	2015	2020	2025	2030
Medium Series							
Female							
Total	1,754,759	1,815,300	1,878,800	1,942,700	2,004,000	2,061,800	2,116,500
0-4	114,748	119,300	123,800	126,600	126,700	126,800	128,200
5-9	119,395	116,300	120,800	125,300	128,100	128,300	128,400
10-14	123,180	121,300	118,200	122,800	127,200	130,100	130,200
15-19	130,251	132,300	130,400	127,400	131,900	136,400	139,300
20-24	119,368	131,000	133,100	131,200	128,200	132,800	137,300
25-29	112,061	114,700	126,300	128,400	126,600	123,600	128,200
30-34	110,113	113,100	115,800	127,400	129,500	127,800	124,800
35-39	129,715	111,300	114,300	117,000	128,600	130,800	129,100
40-44	133,085	130,400	112,200	115,300	118,100	129,700	131,900
45-49	121,731	133,000	130,500	112,600	115,700	118,600	130,100
50-54	109,001	120,900	132,200	129,900	112,400	115,600	118,500
55-59	89,327	107,200	119,000	130,200	128,200	111,300	114,600
60-64	74,945	86,400	103,700	115,400	126,500	124,800	108,900
65-69	69,270	70,600	81,600	98,300	109,600	120,500	119,400
70-74	63,136	63,300	65,000	75,300	90,900	101,800	112,300
75-79	54,785	55,100	55,900	57,900	67,400	81,600	91,800
80-84	39,379	43,600	44,600	45,900	48,200	56,400	68,600
85+	41,269	45,400	51,300	55,800	60,000	65,000	74,800

Table 1 (cont.)

Population Projections of the State by Age and Sex, Selected Migration Assumptions: 2000 - 2030

	Census		Projections				
	2000	2005	2010	2015	2020	2025	2030
<b>Low Series</b>							
<b>Both Sexes</b>							
Total	3,450,654	3,525,700	3,604,700	3,683,000	3,753,900	3,815,900	3,870,100
0-4	236,353	240,900	246,400	248,500	245,200	241,900	241,300
5-9	244,525	236,000	240,600	246,100	248,200	245,000	241,800
10-14	252,029	244,900	236,500	241,100	246,600	248,700	245,500
15-19	269,373	268,800	261,800	253,400	258,000	263,600	265,700
20-24	247,165	272,000	271,500	264,600	256,300	261,000	266,600
25-29	229,026	232,000	256,800	256,400	249,600	241,500	246,200
30-34	222,621	226,400	229,500	254,300	254,000	247,300	239,200
35-39	259,131	221,200	225,100	228,300	252,900	252,700	246,200
40-44	264,391	255,100	217,800	221,800	225,100	249,700	249,600
45-49	240,805	258,100	249,300	212,700	216,900	220,400	244,800
50-54	212,956	233,700	251,000	242,700	207,200	211,500	215,300
55-59	173,199	204,400	224,900	242,200	234,600	200,700	205,300
60-64	143,130	162,900	193,100	213,300	230,500	224,000	192,200
65-69	128,756	130,500	149,400	178,000	197,600	214,500	209,300
70-74	113,743	112,700	115,100	132,700	159,200	177,700	194,100
75-79	94,068	93,400	93,800	96,900	112,700	136,200	153,300
80-84	62,208	69,300	70,200	71,700	75,300	88,600	108,200
85+	57,175	63,200	72,000	78,300	84,000	91,000	105,700
<b>Male</b>							
Total	1,695,895	1,736,000	1,777,800	1,818,900	1,856,000	1,888,200	1,916,300
0-4	121,605	123,300	126,100	127,200	125,500	123,900	123,600
5-9	125,130	121,400	123,200	126,000	127,100	125,400	123,800
10-14	128,849	125,400	121,700	123,500	126,300	127,400	125,800
15-19	139,122	138,300	134,900	131,300	133,000	135,900	137,000
20-24	127,797	142,900	142,100	138,800	135,300	137,000	139,900
25-29	116,965	119,000	134,000	133,300	130,100	126,600	128,400
30-34	112,508	114,900	117,000	131,900	131,300	128,100	124,700
35-39	129,416	111,600	114,100	116,200	131,100	130,500	127,500
40-44	131,306	126,600	109,200	111,700	113,900	128,700	128,200
45-49	119,074	126,900	122,500	105,500	108,100	110,400	125,100
50-54	103,955	114,400	122,300	118,200	101,800	104,500	106,900
55-59	83,872	98,600	108,900	116,800	113,100	97,600	100,400
60-64	68,185	77,700	91,800	101,900	109,800	106,700	92,400
65-69	59,486	60,800	69,800	83,100	92,800	100,400	98,100
70-74	50,607	50,300	51,900	60,200	72,200	81,200	88,600
75-79	39,283	39,100	39,500	41,400	48,500	58,900	67,000
80-84	22,829	26,300	26,800	27,600	29,500	35,300	43,500
85+	15,906	18,500	22,000	24,400	26,700	29,600	35,500



Table 1 (cont.)

Population Projections of the State by Age and Sex, Selected Migration Assumptions: 2000 - 2030

	Census		Projections				
	2000	2005	2010	2015	2020	2025	2030
Low Series							
Female							
Total	1,754,759	1,789,700	1,827,000	1,864,100	1,897,900	1,927,700	1,953,800
0-4	114,748	117,600	120,300	121,300	119,700	118,100	117,800
5-9	119,395	114,600	117,400	120,100	121,200	119,600	118,000
10-14	123,180	119,500	114,800	117,600	120,300	121,300	119,700
15-19	130,251	130,500	126,800	122,100	125,000	127,700	128,700
20-24	119,368	129,200	129,400	125,800	121,100	124,000	126,700
25-29	112,061	113,100	122,900	123,100	119,600	114,900	117,800
30-34	110,113	111,500	112,600	122,300	122,600	119,100	114,500
35-39	129,715	109,600	111,000	112,100	121,900	122,200	118,700
40-44	133,085	128,500	108,600	110,100	111,300	121,000	121,400
45-49	121,731	131,200	126,800	107,200	108,700	110,000	119,700
50-54	109,001	119,300	128,700	124,500	105,400	107,000	108,400
55-59	89,327	105,800	116,000	125,400	121,500	103,100	104,800
60-64	74,945	85,200	101,200	111,400	120,700	117,300	99,800
65-69	69,270	69,600	79,600	94,900	104,800	114,100	111,200
70-74	63,136	62,400	63,200	72,600	87,000	96,500	105,500
75-79	54,785	54,300	54,300	55,600	64,200	77,300	86,300
80-84	39,379	43,100	43,400	44,100	45,700	53,300	64,600
85+	41,269	44,800	50,000	53,900	57,300	61,300	70,200

Source: Oklahoma Department of Commerce

Table 2

Population Projections for the State and Metropolitan Areas: 2000 - 2030

	Census		Projections				
	2000	2005	2010	2015	2020	2025	2030
Oklahoma	3,450,654	3,576,200	3,707,000	3,838,400	3,963,800	4,081,400	4,192,400
Metropolitan Areas							
Enid	57,813	58,400	59,200	60,100	61,000	61,800	62,500
Ft. Smith	38,972	41,200	43,500	45,900	48,200	50,400	52,600
Lawton	114,996	119,400	123,600	127,900	132,000	135,800	139,200
Oklahoma City	1,083,346	1,128,700	1,171,700	1,211,300	1,247,400	1,281,300	1,312,800
Tulsa	803,235	833,600	863,500	893,500	922,000	947,800	970,400
Metro	2,098,362	2,181,200	2,261,600	2,338,700	2,410,700	2,477,200	2,537,500
Non-Metro	1,352,292	1,395,000	1,445,400	1,499,700	1,553,000	1,604,300	1,654,900

Source: Oklahoma Department of Commerce



Table 3  
Population Projections for Counties: 2000 - 2030

	Census		Projections				
	2000	2005	2010	2015	2020	2025	2030
Oklahoma	3,452,654	3,576,200	3,707,000	3,838,400	3,963,800	4,081,400	4,192,400
Adair	21,038	22,800	24,700	26,700	28,800	30,900	32,900
Alfalfa	6,105	6,000	5,900	5,900	5,900	5,900	5,900
Atoka	13,879	14,600	15,500	16,500	17,400	18,300	19,300
Beaver	5,857	5,800	5,900	5,900	6,000	6,100	6,100
Beckham	19,799	20,400	21,300	22,200	23,200	24,200	25,200
Blaine	11,976	12,200	12,600	13,200	13,700	14,300	14,900
Bryan	36,534	38,600	40,700	42,800	44,900	47,000	49,200
Caddo	30,150	30,300	30,800	31,400	32,100	32,600	33,100
Canadian	87,697	92,300	97,300	102,200	106,800	110,800	114,200
Carter	45,621	46,300	47,400	48,700	50,200	51,500	52,900
Cherokee	42,521	46,400	50,400	54,200	57,900	61,600	65,300
Choctaw	15,342	15,400	15,600	15,800	16,000	16,200	16,300
Cimarron	3,148	3,200	3,200	3,300	3,400	3,400	3,500
Cleveland	208,016	220,300	231,400	240,800	248,600	255,700	262,500
Coal	6,031	6,300	6,600	7,100	7,600	8,100	8,600
Comanche	114,996	119,400	123,600	127,900	132,000	135,800	139,200
Cotton	6,614	6,500	6,600	6,600	6,700	6,700	6,800
Craig	14,950	15,700	16,500	17,400	18,300	19,200	20,000
Creek	67,367	69,500	72,000	74,600	77,000	79,100	80,900
Custer	26,142	26,900	27,700	28,500	29,000	29,600	30,200
Delaware	37,077	40,200	43,400	46,700	49,900	53,100	56,200
Dewey	4,743	4,600	4,600	4,500	4,500	4,500	4,500
Ellis	4,075	3,900	3,800	3,800	3,700	3,700	3,700
Garfield	57,813	58,400	59,200	60,100	61,000	61,800	62,500
Garvin	27,210	27,300	27,500	27,900	28,200	28,400	28,700
Grady	45,516	47,000	48,800	50,600	52,300	53,800	55,300
Grant	5,144	5,100	5,100	5,100	5,200	5,200	5,300
Greer	6,061	5,900	5,900	5,900	5,900	5,900	5,900
Harmon	3,283	3,200	3,300	3,300	3,300	3,400	3,400
Harper	3,562	3,500	3,400	3,400	3,400	3,400	3,400
Haskell	11,792	12,600	13,500	14,400	15,300	16,300	17,200
Hughes	14,154	14,800	15,700	16,500	17,500	18,400	19,300
Jackson	28,439	29,200	30,100	31,000	31,900	32,700	33,400
Jefferson	6,818	6,600	6,600	6,600	6,700	6,700	6,800
Johnston	10,513	11,000	11,600	12,300	13,000	13,700	14,500
Kay	48,080	48,500	49,100	50,000	50,800	51,500	52,100
Kingfisher	13,926	14,500	15,300	16,200	17,100	18,000	18,900
Kiowa	10,227	10,000	9,900	9,900	9,900	10,000	10,000
Latimer	10,692	10,800	11,000	11,200	11,500	11,800	12,100
Le Flore	48,109	49,700	51,500	53,500	55,500	57,300	59,100
Lincoln	32,080	33,300	34,700	36,300	37,800	39,200	40,400
Logan	33,924	36,300	38,700	41,100	43,500	45,700	47,800
Love	8,831	9,600	10,500	11,400	12,300	13,100	14,000



Table 3 (cont.)  
 Population Projections for Counties: 2000 - 2030

	Census		Projections				
	2000	2005	2010	2015	2020	2025	2030
McClain	27,740	30,300	32,900	35,700	38,400	41,000	43,500
McCurtain	34,402	34,900	35,600	36,400	37,200	37,900	38,500
McIntosh	19,456	20,500	21,700	23,000	24,300	25,600	27,000
Major	7,545	7,500	7,400	7,500	7,500	7,500	7,500
Marshall	13,184	15,000	16,900	18,900	20,800	22,800	24,800
Mayes	38,369	40,100	42,100	44,200	46,300	48,400	50,300
Murray	12,623	13,200	13,800	14,400	15,000	15,700	16,400
Muskogee	69,451	70,000	70,900	72,100	73,300	74,500	75,500
Noble	11,411	11,700	12,000	12,300	12,600	12,800	13,000
Nowata	10,569	11,200	12,000	12,800	13,700	14,500	15,400
Okfuskee	11,814	11,800	11,900	12,000	12,200	12,300	12,500
Oklahoma	660,448	681,800	701,400	719,000	735,400	751,100	765,600
Okmulgee	39,685	40,700	42,100	43,600	45,200	46,600	47,900
Osage	44,437	45,900	47,500	49,300	50,900	52,200	53,400
Ottawa	33,194	34,000	34,900	36,100	37,300	38,400	39,600
Pawnee	16,612	17,300	18,200	19,200	20,200	21,100	22,000
Payne	68,190	73,200	77,500	80,800	83,400	86,300	89,600
Pittsburg	43,953	44,500	45,300	46,300	47,400	48,300	49,200
Pontotoc	35,143	35,600	36,300	37,000	37,700	38,300	39,000
Pottawatomie	65,521	67,700	70,000	72,500	74,800	77,100	79,300
Pushmataha	11,667	12,300	13,000	13,900	14,700	15,500	16,300
Roger Mills	3,436	3,400	3,400	3,400	3,400	3,400	3,400
Rogers	70,641	75,200	80,100	85,100	90,000	94,400	98,500
Seminole	24,894	24,900	25,200	25,600	26,000	26,300	26,700
Sequoyah	38,972	41,200	43,500	45,900	48,200	50,400	52,600
Stephens	43,182	42,900	42,900	43,100	43,400	43,600	43,800
Texas	20,107	23,200	26,300	29,500	32,700	36,000	39,200
Tillman	9,287	9,200	9,200	9,300	9,400	9,500	9,600
Tulsa	563,299	581,700	598,900	615,500	631,400	646,000	658,500
Wagoner	57,491	61,300	65,100	69,000	72,700	76,000	79,000
Washington	48,996	49,300	49,700	50,300	50,800	51,100	51,300
Washita	11,508	11,700	11,900	12,100	12,300	12,400	12,600
Woods	9,089	9,100	9,200	9,200	9,200	9,200	9,300
Woodward	18,486	18,800	19,200	19,600	20,000	20,300	20,600

Source: Oklahoma Department of Commerce



Table A-1

Age Specific Fertility Rates by Age and Projected Total Fertility Rate: 2000 – 2030

Age Specific Fertility Rates: 2000

10-14	15-19	20-24	25-29	30-34	35-39	40-44	45&OVER
0.0010	0.0592	0.1346	0.1203	0.0743	0.0267	0.0049	0.0002

Projected Total Fertility Rate: 2010 – 2030

2010	2015	2020	2025	2030
2.1064	2.0958	2.0854	2.0749	2.0645

Source: Oklahoma Department of Health, Oklahoma Department of Commerce

Table A-2

Age Specific Survival Rates by Sex: 2000

Average number of years of life remaining at the beginning of the year of age

	Male	Female		Male	Female		Male	Female
0	73.35	78.96	34	41.43	46.22	68	13.36	16.44
1	72.92	78.45	35	40.51	45.26	69	12.72	15.72
2	71.96	77.49	36	39.59	44.31	70	12.10	15.00
3	70.99	76.52	37	38.67	43.36	71	11.51	14.32
4	70.01	75.53	38	37.76	42.40	72	10.92	13.64
5	69.03	74.55	39	36.84	41.45	73	10.35	12.97
6	68.04	73.56	40	35.93	40.51	74	9.80	12.31
7	67.06	72.57	41	35.03	39.56	75	9.27	11.67
8	66.07	71.59	42	34.12	38.62	76	8.75	11.04
9	65.08	70.59	43	33.21	37.69	77	8.26	10.43
10	64.09	69.61	44	32.31	36.75	78	7.79	9.84
11	63.11	68.61	45	31.42	35.82	79	7.33	9.26
12	62.12	67.62	46	30.54	34.90	80	6.91	8.71
13	61.13	66.64	47	29.65	33.97	81	6.50	8.17
14	60.15	65.65	48	28.78	33.05	82	6.11	7.65
15	59.17	64.66	49	27.91	32.14	83	5.73	7.15
16	58.21	63.69	50	27.05	31.24	84	5.37	6.67
17	57.26	62.71	51	26.19	30.34	85	5.02	6.20
18	56.32	61.74	52	25.35	29.45	86	4.69	5.76
19	55.40	60.77	53	24.51	28.56	87	4.38	5.34
20	54.47	59.80	54	23.67	27.68	88	4.07	4.94
21	53.55	58.82	55	22.86	26.81	89	3.78	4.56
22	52.63	57.85	56	22.05	25.96	90	3.51	4.20
23	51.70	56.88	57	21.25	25.11	91	3.24	3.85
24	50.77	55.91	58	20.46	24.27	92	2.98	3.51
25	49.84	54.93	59	19.69	23.43	93	2.73	3.19
26	48.91	53.96	60	18.92	22.60	94	2.49	2.88
27	47.97	52.99	61	18.17	21.79	95	2.24	2.57
28	47.03	52.02	62	17.43	20.99	96	1.99	2.25
29	46.10	51.05	63	16.71	20.20	97	1.73	1.92
30	45.16	50.08	64	16.01	19.42	98	1.43	1.57
31	44.23	49.11	65	15.33	18.66	99	1.06	1.15
32	43.29	48.15	66	14.66	17.91	100+	0.59	0.63
33	42.36	47.19	67	14.01	17.17			

Source: U.S. Census Bureau



Table A-3  
 Historical Population, Births, Deaths, and Migration: 1920 - 2001

Year	Population	Births	Deaths	Natural Increase	Migration	Population Change	Percent Change
1920	2,028,283	40,636	16,054	24,582	700	25,300	1.26
1921	2,108,000	47,068	16,340	30,728	49,000	79,700	3.93
1922	2,140,000	50,944	16,378	34,566	-2,600	32,000	1.52
1923	2,159,000	47,452	17,273	30,179	-11,200	19,000	0.89
1924	2,179,000	50,453	17,103	33,350	-13,400	20,000	0.93
1925	2,216,000	54,915	20,026	34,889	2,100	37,000	1.70
1926	2,256,000	55,770	20,507	35,263	4,700	40,000	1.81
1927	2,306,000	51,856	21,170	30,686	19,300	50,000	2.22
1928	2,344,000	42,986	20,953	22,033	16,000	38,000	1.65
1929	2,372,000	39,738	21,398	18,340	9,700	28,000	1.19
1930	2,396,040	42,505	19,646	22,859	1,200	24,000	1.01
1931	2,403,000	43,269	18,802	24,467	-17,500	7,000	0.29
1932	2,394,000	41,039	19,285	21,754	-30,800	-9,000	-0.37
1933	2,392,000	43,697	20,309	23,388	-25,400	-2,000	-0.08
1934	2,391,000	47,302	21,373	25,929	-26,900	-1,000	-0.04
1935	2,386,000	43,691	21,091	22,600	-27,600	-5,000	-0.21
1936	2,365,000	41,815	23,350	18,465	-39,500	-21,000	-0.88
1937	2,334,000	41,223	21,399	19,824	-50,800	-31,000	-1.31
1938	2,324,000	44,190	20,422	23,768	-33,800	-10,000	-0.43
1939	2,333,000	42,760	20,657	22,103	-13,100	9,000	0.39
1940	2,336,434	44,258	20,618	23,640	-20,200	3,400	0.15
1941	2,262,000	45,313	20,097	25,216	-99,700	-74,400	-3.19
1942	2,215,000	45,277	18,985	26,292	-73,300	-47,000	-2.08
1943	2,205,000	47,800	19,765	28,035	-38,000	-10,000	-0.45
1944	2,043,000	46,885	18,438	28,447	-190,400	-162,000	-7.35
1945	2,028,000	43,405	18,731	24,674	-39,700	-15,000	-0.73
1946	2,128,000	50,043	18,420	31,623	68,400	100,000	4.93
1947	2,133,000	52,691	19,101	33,590	-28,600	5,000	0.23
1948	2,089,000	50,428	19,074	31,354	-75,400	-44,000	-2.06
1949	2,105,000	49,971	19,346	30,625	-14,600	16,000	0.77
1950	2,233,351	50,472	19,431	31,041	97,300	128,400	6.10
1951	2,229,000	50,597	20,082	30,515	-34,900	-4,400	-0.19
1952	2,210,000	50,146	19,645	30,501	-49,500	-19,000	-0.85
1953	2,219,000	51,275	19,820	31,455	-22,500	9,000	0.41
1954	2,182,000	51,457	20,121	31,336	-68,300	-37,000	-1.67
1955	2,250,000	50,636	19,705	30,931	37,100	68,000	3.12
1956	2,273,000	51,894	20,954	30,940	-7,900	23,000	1.02
1957	2,282,000	51,349	21,568	29,781	-20,800	9,000	0.40
1958	2,267,000	50,552	21,812	28,740	-43,700	-15,000	-0.66
1959	2,289,000	51,141	21,996	29,145	-7,100	22,000	0.97
1960	2,328,284	50,900	22,932	27,968	11,300	39,300	1.72
1961	2,380,000	50,859	22,973	27,886	23,800	51,700	2.22
1962	2,427,000	51,351	24,005	27,346	19,700	47,000	1.97
1963	2,439,000	49,955	24,458	25,497	-13,500	12,000	0.49
1964	2,446,000	47,563	24,194	23,369	-16,400	7,000	0.29
1965	2,440,000	42,806	24,304	18,502	-24,500	-6,000	-0.25



Table A-3 (cont.)  
 Historical Population, Births, Deaths, and Migration

Year	Population	Births	Deaths	Natural Increase	Migration	Population Change	Percent Change
1966	2,454,000	39,993	24,806	15,187	-1,200	14,000	0.57
1967	2,489,000	40,102	24,859	15,243	19,800	35,000	1.43
1968	2,503,000	40,973	25,708	15,265	-1,300	14,000	0.56
1969	2,535,000	42,737	25,972	16,765	15,200	32,000	1.28
1970	2,559,463	44,991	26,750	18,241	6,200	24,500	0.97
1971	2,618,600	45,353	25,682	19,671	39,500	59,100	2.31
1972	2,658,600	42,303	26,935	15,368	24,600	40,000	1.53
1973	2,695,900	40,765	27,357	13,408	23,900	37,300	1.40
1974	2,734,800	42,363	27,228	15,135	23,800	38,900	1.44
1975	2,774,700	43,130	27,165	15,965	23,900	39,900	1.46
1976	2,826,800	43,663	27,103	16,560	35,500	52,100	1.88
1977	2,870,000	45,449	26,766	18,683	24,500	43,200	1.53
1978	2,917,300	45,885	27,892	17,993	29,300	47,300	1.65
1979	2,975,300	49,007	27,756	21,251	36,700	58,000	1.99
1980	3,025,487	52,065	28,227	23,838	26,300	50,200	1.69
1981	3,096,200	53,620	28,568	25,052	45,700	70,700	2.34
1982	3,206,100	58,748	29,305	29,443	80,500	109,900	3.55
1983	3,290,400	56,859	29,426	27,433	56,900	84,300	2.63
1984	3,285,500	54,323	28,635	25,688	-30,600	-4,900	-0.15
1985	3,271,300	53,100	29,735	23,365	-37,600	-14,200	-0.43
1986	3,252,700	50,536	29,708	20,828	-39,400	-18,600	-0.57
1987	3,210,100	47,701	29,191	18,510	-61,100	-42,600	-1.31
1988	3,167,100	47,279	29,766	17,513	-60,500	-43,000	-1.34
1989	3,150,300	47,238	29,487	17,751	-34,600	-16,800	-0.53
1990	3,145,576	47,725	30,301	17,424	-22,100	-4,700	-0.15
1991	3,175,400	47,759	30,172	17,587	12,200	29,800	0.95
1992	3,220,500	47,544	30,425	17,119	28,000	45,100	1.42
1993	3,252,300	46,165	32,265	13,900	17,900	31,800	0.99
1994	3,280,900	45,607	32,082	13,525	15,100	28,600	0.88
1995	3,308,200	45,365	32,431	12,934	14,400	27,300	0.83
1996	3,340,100	46,133	32,872	13,261	18,600	31,900	0.96
1997	3,372,900	48,160	33,780	14,380	18,400	32,800	0.98
1998	3,405,200	49,354	33,810	15,544	16,800	32,300	0.96
1999	3,437,100	48,470	34,074	14,396	17,500	31,900	0.94
2000	3,450,654	49,712	34,707	15,005	-1,500	13,600	0.39
2001	3,460,100	48,430	33,174	15,256	-5,800	9,400	0.27

Source: U.S. Census Bureau, Oklahoma Department of Health



Table A-4  
 Group Quarters Population by Age and Sex: 2000

	Total	Male	Female
Total	112,375	68,014	44,361
Under 5	314	168	146
5 to 9	379	205	174
10 to 14	1,058	644	414
15 to 19	18,485	10,548	7,937
20 to 24	22,428	15,247	7,181
25 to 29	8,531	7,282	1,249
30 to 34	7,289	6,153	1,136
35 to 39	7,628	6,413	1,215
40 to 44	6,449	5,360	1,089
45 to 49	4,284	3,491	793
50 to 54	2,826	2,214	612
55 to 59	2,077	1,417	660
60 to 64	1,701	979	722
65 to 69	1,865	955	910
70 to 74	2,761	1,194	1,567
75 to 79	4,534	1,518	3,016
80 to 84	6,028	1,624	4,404
85 and over	13,738	2,602	11,136

Source: U.S. Census Bureau

