

# POPULATION PROJECTIONS FOR CONWAY, ARKANSAS

MAY, 2002

The Conway Planning Department has prepared population projections for Conway, Arkansas for the years 2010, 2020 and 2030. The projections are based on the decennial census results for 1930 through 2000. The average growth rate per decade for the entire period of time is used as the basis for one set of projections and the average growth rate for the last three decades is used as the basis for a second set. The Conway projections are constrained by the Census Bureau projections for the entire country for low, middle and high estimates. As a result of the methodology, there are a total of six possible projections for each of the three years. The set based on the seven decade average has low, middle and high projections and the set based on the three decade average also has low, middle and high projections. The results are presented below:

## CONWAY, ARKANSAS POPULATION PROJECTIONS

### YEAR 2010

#### SEVEN DECADE AVERAGE

<u>LOW</u>	<u>MIDDLE</u>	<u>HIGH</u>
53,880	55,443	57,485

#### THREE DECADE AVERAGE

<u>LOW</u>	<u>MIDDLE</u>	<u>HIGH</u>
56,728	58,373	60,523

### YEAR 2020

#### SEVEN DECADE AVERAGE

<u>LOW</u>	<u>MIDDLE</u>	<u>HIGH</u>
67,677	72,416	79,039

#### THREE DECADE AVERAGE

<u>LOW</u>	<u>MIDDLE</u>	<u>HIGH</u>
71,254	76,243	83,216

### YEAR 2030

#### SEVEN DECADE AVERAGE

<u>LOW</u>	<u>MIDDLE</u>	<u>HIGH</u>
83,725	94,313	110,038

#### THREE DECADE AVERAGE

<u>LOW</u>	<u>MIDDLE</u>	<u>HIGH</u>
92,808	104,545	121,976

## METHODOLOGY

The methodology utilized to produce these projections has been in use for many years. The first step is to project the population for the three coming decades for Arkansas and four other individual states and the remainder of the nation individually, based on the average of either seven decades or three decades of census data. Those straight line projections are then divided by the total straight line projection of population for the nation to find a percentage of growth that is expected for each one. Those percentages are then multiplied by the low, middle and high projections developed by the Census Bureau for the nation as a whole for each decade. This method produces constrained values for each of the states and for the remainder of the country.

The same process has been used for Faulkner County, four other counties and the remainder of the state with the constraints derived by the six projected possible populations for the state of Arkansas.

The process is once more duplicated for Conway, three other cities and the remainder of the county with the constraints provided by the six projected possible populations for Faulkner County.

## EXCEL SPREADSHEETS

The Excel spreadsheets are shown below:

### POPULATION PROJECTIONS FOR ARKANSAS USING COHORT SURVIVAL AND CONSTRAINED TECHNIQUES

YEAR	1930	1940	1950	1960	1970	1980	1990	2000
STATE								
ARKANSAS	1,854,482	1,949,387	1,909,511	1,786,272	1,923,322	2,286,435	2,350,725	2,673,400
LOUISIANA	2,101,593	2,363,880	3,683,516	3,257,022	3,644,637	4,205,900	4,219,973	4,468,976
TEXAS	5,824,715	6,414,824	7,711,194	9,579,679	11,198,655	14,229,191	16,986,510	20,851,820
OKLAHOMA	2,396,040	2,336,434	2,233,351	2,328,284	2,559,463	3,025,290	3,145,585	3,450,654
MISSOURI	3,629,367	3,784,664	3,954,653	4,319,813	4,677,623	4,916,686	5,117,073	5,595,211
DUMMY	107,396,427	115,315,380	131,833,573	158,052,105	179,298,331	197,882,303	216,890,007	244,381,845
NATION	123,202,624	132,164,569	151,325,798	179,323,175	203,302,031	226,545,805	248,709,873	281,421,906
DECADE								
STATE		1930 to 1940	1940 to 1950	1950 to 1960	1960 to 1970	1970 to 1980	1980 to 1990	1990 to 2000
ARKANSAS		1.051176016	0.979544339	0.93546044	1.076724038	1.1887947	1.028118009	1.137266163
LOUISIANA		1.124803899	1.558249996	0.884215516	1.119009021	1.153996955	1.003346014	1.059005828
TEXAS		1.101311223	1.202089722	1.24230813	1.16900107	1.27061607	1.193779042	1.227551745
OKLAHOMA		0.97512312	0.9558802	1.042506977	1.099291581	1.18200185	1.03976313	1.096983232
MISSOURI		1.042789004	1.044915216	1.092336799	1.082829974	1.051107796	1.040756518	1.093439746
DUMMY		1.073735721	1.143243625	1.198875987	1.134425454	1.103648327	1.096055603	1.126754747
NATION		1.072741511	1.144980074	1.185013906	1.133718667	1.114331243	1.09783482	1.131526878

### UNCONSTRAINED PROJECTIONS FOR THE STATES

YEAR	2010		2020		2030	
STATE	7 DECADES	3 DECADES	7 DECADES	3 DECADES	7 DECADES	3 DECADES
ARKANSAS	2,825,052	2,989,021	2,985,307	3,158,577	3,154,652	3,531,477
LOUISIANA	5,045,236	4,791,262	5,695,803	5,409,079	6,430,258	5,799,162
TEXAS	25,042,014	25,661,270	30,074,232	30,817,928	36,117,679	37,926,051
OKLAHOMA	3,643,669	3,817,284	3,847,480	4,030,806	4,062,692	4,459,077
MISSOURI	5,953,444	5,940,816	6,334,614	6,321,177	6,740,187	6,711,623
DUMMY	274,990,303	270,975,370	309,432,425	304,914,627	348,188,370	338,095,302
NATION	316,806,574	313,662,813	356,640,343	353,101,301	401,482,624	393,554,110

### PROJECTED POPULATION FIGURES FOR THE UNITED STATES (COHORT SURVIVAL, CENSUS BUREAU)

RANGE	2010	2020	2030
LOW	291,413,000	303,664,000	311,656,000
MIDDLE	299,862,000	324,927,000	351,070,000
HIGH	310,910,000	354,642,000	409,604,000

### CONSTRAINED PROJECTIONS FOR THE STATES

2010						
STATE	7 DECADES			3 DECADES		
	LOW	MIDDLE	HIGH	LOW	MIDDLE	HIGH
ARKANSAS	2,598,610	2,673,952	2,772,471	2,776,993	2,857,507	2,962,788
LOUISIANA	4,640,836	4,775,389	4,951,331	4,451,392	4,749,212	4,749,212
TEXAS	23,034,776	23,702,628	24,575,919	23,840,977	25,436,058	25,436,058
OKLAHOMA	3,351,611	3,448,785	3,575,851	3,546,503	3,649,328	3,783,782
MISSOURI	5,476,247	5,635,021	5,842,636	5,519,402	5,679,427	5,888,677
DUMMY	252,948,505	260,282,296	269,872,036	251,753,609	259,052,756	268,597,196
NATION	292,050,586	300,518,072	311,590,244	291,888,875	301,424,288	311,417,714
2020						
STATE	7 DECADES			3 DECADES		
	LOW	MIDDLE	HIGH	LOW	MIDDLE	HIGH
ARKANSAS	2,541,861	2,719,846	2,968,579	2,716,348	2,906,551	3,172,358
LOUISIANA	4,849,732	5,189,318	5,663,888	4,651,761	4,977,484	5,432,681
TEXAS	25,606,922	27,399,957	29,905,719	26,503,146	28,358,935	30,952,397
OKLAHOMA	3,275,965	3,505,353	3,825,922	3,466,458	3,709,184	4,048,394
MISSOURI	5,393,653	5,771,324	6,299,119	5,436,156	5,816,804	6,348,758
DUMMY	263,468,476	281,916,927	307,698,599	262,223,886	280,585,188	306,245,071
NATION	305,136,609	326,502,724	356,361,826	304,997,754	326,354,146	356,199,660
2030						
STATE	7 DECADES			3 DECADES		
	LOW	MIDDLE	HIGH	LOW	MIDDLE	HIGH
ARKANSAS	2,448,839	2,758,534	3,218,466	2,796,581	3,150,254	3,675,497
LOUISIANA	4,991,570	5,622,835	6,560,332	4,592,364	5,173,143	6,035,663
TEXAS	28,036,808	31,582,521	36,848,284	30,033,688	33,831,940	39,472,748
OKLAHOMA	3,153,716	3,552,555	4,144,874	3,531,149	3,977,721	4,640,927
MISSOURI	5,232,156	5,893,848	6,876,531	5,314,943	5,987,105	6,985,336
DUMMY	270,285,657	304,467,700	355,231,686	267,738,100	301,597,963	351,883,476
NATION	314,918,373	353,877,994	412,880,172	314,006,825	353,718,125	412,693,648

**POPULATION PROJECTIONS FOR FAULKNER COUNTY USING COHORT SURVIVAL AND CONSTRAINED TECHNIQUES**

YEAR	1930	1940	1950	1960	1970	1980	1990	2000
COUNTY								
PULASKI	137,727	156,085	196,685	242,980	287,189	340,613	349,660	361,474
FAULKNER	28,381	25,880	25,289	24,303	31,578	46,192	60,006	86,014
SALINE	15,660	19,163	23,816	28,956	36,107	53,161	64,183	83,529
LONOKE	33,759	29,802	27,278	24,551	26,249	34,518	39,268	52,828
PERRY	7,795	8,392	5,978	4,927	5,634	7,266	7,969	10,209
DUMMY	1,631,160	1,710,065	1,630,341	1,460,555	1,536,565	1,804,685	1,829,639	2,079,346
STATE	1,854,482	1,949,387	1,909,387	1,786,272	1,923,322	2,286,435	2,350,725	2,673,400
DECADE								
COUNTY								
PULASKI	1.133292673	1.260114681	1.235376363	1.181945016	1.186023838	1.026560936	1.033787107	
FAULKNER	0.911877665	0.977163833	0.961010716	1.29934576	1.46279055	1.299056114	1.433423324	
SALINE	1.223690932	1.242811668	1.215821297	1.246960906	1.472318387	1.207332443	1.301419379	
LONOKE	0.882786812	0.915307697	0.900029328	1.069162152	1.315021525	1.137609363	1.345319344	
PERRY	1.076587556	0.712345091	0.824188692	1.143495027	1.289669862	1.096751996	1.281089221	
DUMMY	1.04837355	0.95337955	0.895858596	1.052041861	1.174493106	1.013827344	1.136478835	
STATE	1.051176016	0.979480729	0.935521191	1.076724038	1.1887947	1.028118009	1.137266163	

**UNCONSTRAINED PROJECTIONS FOR THE COUNTIES**

YEAR	2010	2020	2030	2040	2050	2060
COUNTY	7 DECADES	3 DECADES	7 DECADES	3 DECADES	7 DECADES	3 DECADES
PULASKI	416,062	391,160	478,893	450,230	551,213	487,205
FAULKNER	102,537	120,284	122,234	143,390	145,714	200,520
SALINE	106,325	110,845	135,342	141,095	172,277	187,237
LONOKE	57,094	66,879	61,704	72,280	66,686	91,505
PERRY	10,828	12,481	11,484	13,237	12,179	16,182
DUMMY	2,160,872	2,304,469	2,245,595	2,394,822	2,333,639	2,654,101
STATE	2,825,051	2,989,021	2,985,304	3,158,575	3,154,648	3,531,475

**PROJECTED POPULATION FIGURES FOR ARKANSAS (DERIVED FROM COHORT SURVIVAL, CENSUS BUREAU)**

RANGE	2010	2020	2030	2040	2050	2060
7 DECADES				3 DECADES		
LOW	2,598,610	2,541,861	2,448,839	2,776,993	2,716,348	2,796,581
MIDDLE	2,673,952	2,719,846	2,758,534	2,857,507	2,906,551	3,150,254
HIGH	2,772,471	2,968,579	3,218,466	2,962,788	3,172,358	3,675,497

**CONSTRAINED PROJECTIONS FOR THE COUNTIES**

COUNTY	2010	2020	2030	2040	2050	2060
	7 DECADES			3 DECADES		
	LOW	MIDDLE	HIGH	LOW	MIDDLE	HIGH
PULASKI	382,713	393,809	408,318	363,413	373,949	387,727
FAULKNER	94,318	97,053	100,628	111,752	114,992	119,228
SALINE	97,802	100,638	104,346	102,982	105,968	109,872
LONOKE	52,517	54,040	56,031	62,135	63,937	66,292
PERRY	9,960	10,248	10,626	11,595	11,931	12,371
DUMMY	1,987,669	2,045,297	2,120,654	2,141,001	2,203,075	2,284,245
STATE	2,624,979	2,701,085	2,800,603	2,792,878	2,873,852	2,979,735
	2020			3 DECADES		
	7 DECADES			LOW	MIDDLE	HIGH
PULASKI	407,757	436,309	476,210	387,194	414,306	452,195
FAULKNER	104,077	111,365	121,549	123,314	131,949	144,016
SALINE	115,238	123,307	134,583	121,341	129,837	141,711
LONOKE	52,538	56,217	61,358	62,160	66,513	72,595
PERRY	9,778	10,462	11,419	11,383	12,181	13,294
DUMMY	1,912,029	2,045,912	2,233,014	2,059,527	2,203,738	2,405,272
STATE	2,601,417	2,783,572	3,038,134	2,764,919	2,958,523	3,229,084
	2030			3 DECADES		
	7 DECADES			LOW	MIDDLE	HIGH
PULASKI	427,886	482,000	562,364	385,818	434,612	507,074
FAULKNER	113,113	127,418	148,662	158,792	178,874	208,698
SALINE	133,733	150,645	175,762	148,273	167,025	194,873
LONOKE	51,766	58,313	68,035	72,463	81,627	95,237
PERRY	9,454	10,650	12,426	12,815	14,435	16,842
DUMMY	1,811,519	2,040,615	2,380,848	2,101,787	2,367,592	2,762,341
STATE	2,681,949	2,869,641	3,348,097	2,879,948	3,244,164	3,785,065

**POPULATION PROJECTIONS FOR CONWAY USING COHORT SURVIVAL AND CONSTRAINED TECHNIQUES**

YEAR	1930	1940	1950	1960	1970	1980	1990	2000
CITY								
CONWAY	5,534	5,782	8,610	9,791	15,510	20,375	26,481	43,167
MAYFLOWER	188	165	293	355	469	1,381	1,415	1,631
VILONIA	0	259	215	234	423	736	1,133	2,106
GREENBRIER	0	0	375	401	582	1,423	2,130	3,042
DUMMY	22,659	19,674	15,796	13,522	14,594	22,277	28,847	36,068
FAULKNER	28,381	25,880	25,289	24,303	31,578	46,192	60,006	86,014
DECADE	1930 to 1940	1940 to 1950	1950 to 1960	1960 to 1970	1970 to 1980	1980 to 1990	1990 to 2000	
CITY								
CONWAY	1.044813878	1.489104116	1.137166086	1.584107854	1.313668601	1.299680982	1.630112156	
MAYFLOWER	0.877659574	1.775757576	1.211604096	1.321126761	2.9445629	1.024619841	1.152650177	
VILONIA		0.83011583	1.088372093	1.807692308	1.739952719	1.539402174	1.858781995	
GREENBRIER			1.069333333	1.451371571	2.445017182	1.496837667	1.428169014	
DUMMY	0.868264266	0.802887059	0.856039504	1.079278213	1.526449226	1.294923015	1.250320657	
FAULKNER	0.911877665	0.977163833	0.961010716	1.29934576	1.46279055	1.299056114	1.433423324	

**UNCONSTRAINED PROJECTIONS FOR THE CITIES**

YEAR	2010	2020	2030
CITY	7 DECADES	3 DECADES	3 DECADES
CONWAY	58,575	61,059	79,484
MAYFLOWER	2,402	2,785	3,537
VILONIA	2,667	3,607	3,377
GREENBRIER	3,429	5,445	3,865
DUMMY	39,562	48,953	43,395
FAULKNER	102,537	120,284	122,234

**PROJECTED POPULATION FIGURES FOR FAULKNER COUNTY (DERIVED FROM COHORT SURVIVAL, CENSUS BUREAU)**

RANGE	2010	2020	2030
7 DECADES			
LOW	94,318	104,077	113,113
MIDDLE	97,053	111,365	127,418
HIGH	100,628	121,549	148,662

**CONSTRAINED PROJECTIONS FOR THE CITIES**

CITY	2010			2020			2030		
	7 DECADES	MIDDLE	HIGH	7 DECADES	MIDDLE	HIGH	7 DECADES	MIDDLE	HIGH
CONWAY	53,880	55,443	57,485	67,677	72,416	79,039	83,725	94,313	110,038
MAYFLOWER	2,209	2,273	2,357	3,011	3,222	3,517	4,043	4,554	5,313
VILONIA	2,453	2,524	2,617	2,876	3,077	3,358	3,320	3,740	4,363
GREENBRIER	3,154	3,246	3,365	3,291	3,522	3,844	3,382	3,810	4,445
DUMMY	36,391	37,446	38,826	36,949	39,536	43,152	36,950	41,622	48,562
FAULKNER	98,088	100,932	104,651	113,805	121,773	132,910	157,732	148,039	172,722