



U.S. Department of Commerce  
BUREAU OF THE CENSUS

Series P-25, No. 863  
Issued November 1979

# Population Estimates and Projections

## 1977 Population Estimates for Counties and Incorporated Places in Wyoming

This report is one of a series containing current estimates of the total July 1, 1977, population for all general purpose governmental units in each State. The preparation of current population estimates below the county level was prompted by the State and Local Fiscal Assistance Act of 1972. The estimates shown here also reflect changes made during the review of the figures with local officials. The figures are used by a wide variety of Federal, State, and local governmental agencies for program planning and administrative purposes. Estimates of per capita income for 1976 were not prepared, but figures for 1977 will appear later in this report series accompanying the 1978 population estimates.

Areas included in this series of reports are all counties (or county equivalents such as census divisions in Alaska, parishes in Louisiana, and independent cities in Maryland, Missouri, Nevada, and Virginia) and incorporated places in the State, plus active minor civil divisions (MCD's), commonly towns in New England, New York, and Wisconsin, or townships in other parts of the United States.<sup>1</sup> These State reports appear in **Current Population Reports**, Series P-25, in alphabetical sequence as report number 814 (Alabama) through number 863 (Wyoming). A list indicating the report number for each State is appended.

The detailed table for each State shows July 1, 1977, estimates of the population of each area, together with April 1, 1970, census population and numerical and percentage change between 1970 and 1977. The 1970 figures reflect annexations since 1970 up to December 31, 1977, and include corrections to the 1970 census counts.

The estimates are presented in the table in county order, with all incorporated places in the county listed in alphabetical order, followed by any functioning minor civil divisions also listed in alphabetical order. Minor civil divisions

<sup>1</sup>In certain midwestern States (Illinois, Kansas, Minnesota, Missouri, Nebraska, and the Dakotas), some counties have active minor civil divisions while others do not.

are always identified in the listing by the term "township," "town," or other MCD category. When incorporated places fall in more than one county, each county piece is marked "part," and totals for these places are presented at the end of the table.

### METHODOLOGY

To estimate the population of each subcounty area, a component procedure (the Administrative Records method) was used, with each of the components of population change (births, deaths, net migration, and special populations) estimated separately. The estimates were derived in four stages, moving from 1970 as a base year to develop estimates for 1973, and, in turn, moving from 1973 as the base year to derive estimates for 1975, from 1975 as the base year for 1976, and from 1976 as the base year for 1977.

**Migration.** Individual Federal income tax returns were used to measure migration by matching individual returns for successive periods. The places of residence on tax returns filed in the base year and in the estimate year were noted for matched returns to determine immigrants, outmigrants, and nonmigrants for each area. A net migration rate was derived, based on the difference between the immigration and outmigration of taxpayers and dependents, and was applied to a base population to yield an estimate of net migration for all persons in the area.

**Natural change.** Reported resident birth and death statistics were used, wherever available, to estimate natural change. These data were collected from State health departments and supplemented, where necessary, by data prepared and published by the U.S. Department of Health, Education, and Welfare, National Center for Health Statistics. For subcounty areas where reported birth and death statistics were not available from either source, estimates were developed by applying fertility and mortality rates. These estimates were

subsequently controlled to agree with birth and death statistics for larger areas where reported data were available.

**Adjustment for special populations.** In addition to the above components of population change, estimates of special populations were also taken into account. Special populations include immigrants from abroad, members of the Armed Forces living in barracks, residents of institutions (prisons and long-term health care facilities), and college students enrolled in full-time programs. These populations were treated separately because changes in these types of population groups are not reflected in the components of population change developed by standard measures, and the information is generally available for use as an independent series.

**Annexations and new incorporations.** The 1970 census counts shown in this report reflect all population corrections made to the figures after the initial tabulations. In addition, adjustments for annexations are reflected in the estimates. For new incorporations occurring after 1970, the 1970 population within the boundaries of the new areas is shown in the detailed table.

**Other adjustments.** For areas where special censuses were conducted at dates that approximate the estimate date, the census results were taken into account in developing the estimates.<sup>2</sup> In several States, the subcounty estimates developed by the Administrative Records method were averaged with estimates for corresponding geographic areas which were prepared by State agencies participating in the Federal-State Cooperative Program for Local Population Estimates (FSCP). These States include California, Florida, New Jersey, Oregon, Vermont, Washington, and Wisconsin.

**Counties.** In generating estimates for counties by this procedure, the method was modified slightly to make the county estimates specific to the resident population under 65 years of age. The resident population 65 years old and over in counties was estimated separately by adding the change in Medicare enrollees between April 1, 1970, and July 1 of the estimate year to the April 1, 1970, population 65 years old and over in the county as enumerated in the 1970 census. These estimates of the population 65 years old and over were then added to estimates of the population under 65 years old to yield estimates of the total resident population in each county.

The estimates for the subareas in each county were adjusted to independently derived county estimates. Since all of the data necessary to develop final estimates under the FSCP program are not available at the time subcounty estimates are prepared, only two of the methods relied upon

<sup>2</sup> Only special censuses conducted by the Bureau of the Census or by the California, Florida, Michigan, Oregon, or Washington State agencies participating in the Federal-State Cooperative Program for Local Population Estimates were used for this purpose. In addition, in a relatively small number of cases where special censuses were conducted by localities, where the procedures and definitions were essentially the same as those used by the Bureau of the Census, the results of these special censuses were also taken into account in preparing the estimates.

in the standard FSCP program of estimates for counties (i.e., Component Method II and the Administrative Records method) were utilized. The 1977 estimates result from adding the average 1976-77 population change indicated by the two methods to the 1976 county population figures contained in *Current Population Reports*, Series P-25 and P-26.<sup>3</sup>

The county estimates, in turn, were adjusted to be consistent with independent State estimates published by the Bureau of the Census in *Current Population Reports*, Series P-25, No. 790, in which the Administrative Records based estimates were averaged with the estimates prepared using Component Method II and the Regression method.<sup>4</sup>

## LIMITATIONS OF THE ESTIMATES

Tests of the accuracy of the methods used to develop State and county population estimates appearing in *Current Population Reports*, Series P-25 and P-26 are reported in Series P-25, No. 520 for States and in Series P-26, No. 21 for counties. In summary, the State estimates averaging Component Method II and the Regression method yielded average differences of approximately 1.9 percent when compared to the 1970 census. Subsequent modifications of the two procedures that have been incorporated in preparing estimates for the 1970's would have reduced the average difference in 1970 to 1.2 percent. For counties, the 1970 evaluations indicated an average difference of approximately 4.5 percent for the combination of procedures used. It should be noted that all of the evaluations against the results of the 1970 census concern estimates extending over the entire 10-year period of 1960 to 1970.

Since 1970, however, the Administrative Records method has been introduced with partial weight in the estimates for States and counties, and except for the few States in which local estimates are utilized, carries the full weight for estimates below the county level. The data series upon which the estimates procedure is based has been available as a comprehensive series for the entire United States only since 1967. Nonetheless, several studies have been undertaken evaluating the Administrative Records estimates from the State to the local level. At the Statewide level, little direct testing can be performed due to the lack of special censuses covering entire States. Some sense of the general reasonableness of the Administrative Records estimates may be obtained, however, by reviewing the degree of correspondence between the results of the method against those of the "standard" methods tested in 1970 and already in use to produce State estimates during the 1970's. It must be recognized that the differences between the two sets of estimates may not be interpreted as errors in either set of figures, but may only be used as a partial guide indicating the degree of consistency between the newer Administrative Records system and the established methods.

<sup>3</sup> Descriptions of the methodologies are given for each State in the individual Series P-26 or P-25 report for the State.

<sup>4</sup> For further discussion of the methodologies used in preparing State estimates, see *Current Population Reports*, P-25, No. 640.

Table A presents such a comparison for State estimates referring to July 1, 1977. A rather close agreement may be observed in the estimates for all States at only a 1.1 percent difference. The variation of the Administrative Records method from the average of the other methods does increase for smaller States in a regular pattern, but still reaches an average of only 1.3 percent for the smallest size category. The only consistent variations suggesting a potential for directional bias are indicated in the tendency for larger States to be estimated higher by the Administrative Records procedure than by the other techniques.

A similar comparison may be made at the county level (table B). Although the differences between the FSCP estimates and the Administrative Records results are larger at the county level than for States, the variations are well within the range that would be expected for areas of this population size, and the county pattern matches closely the findings for States. The overall difference for all counties is 2.6 percent, and ranges from 1.5 percent for the larger counties to 8.4 percent for the 26 small counties under 1,000 population. The comparisons indicate virtually no change from similar comparisons for the 1976 estimates. Only the average difference for counties with less than 1,000 population experienced any significant change from the 1976 levels in improving from 10.1 to 8.4 average percent differences.

Three tests of the Administrative Records population estimates against census counts also have been undertaken. First, a limited evaluation involving 24 large areas (16 counties and 8 cities) was conducted on estimates for the 1968-70 period.<sup>5</sup> Although the test shows the estimates to

<sup>5</sup>Meyer Zitter and David L. Word, U.S. Bureau of the Census, "Use of Administrative Records for Small Area Population Estimates," unpublished paper prepared for presentation at the annual meeting of the Population Association of America, New Orleans, Louisiana, April 27, 1973.

be quite accurate (1.8 percent difference), the areas may not be assumed to be representative of the 39,000 units of government covered by the Administrative Records estimating system, and the time segment evaluated refers only to a 2-year period.

A more representative group of special censuses in 86 areas selected particularly for evaluation purposes was conducted in 1973. The areas were randomly chosen nationwide to be typical of areas with populations below 20,000 persons. Table C summarizes the average percent difference between the estimates from the Administrative Records method and counts from the 86 special censuses. Overall, the estimates differed from the special census counts by 5.9 percent, with the largest differences occurring in the smallest areas. Areas of between 1,000 and 20,000 population differed by 4.6 percent, while the average difference for the 27 areas below 1,000 population was 8.6 percent. There was a slight positive directional bias, with about 60 percent of the estimates exceeding the census counts. Again, the impact of population size on the expected level of accuracy may be noted. Even though all of the areas in this study are relatively small—less than 20,000 population—the larger ones demonstrate much lower variation from census figures than the smaller ones.

The third evaluation involving census comparisons is currently underway, and is based upon the approximately 2,000 special censuses that have been conducted since 1970 at the request of localities throughout the United States. Such areas constitute a fairly stringent test for any method in that they are generally very small areas, often are experiencing rapid population growth, and frequently are found to have had a vigorous program of annexation since the last census. This evaluation study has not been completed for use here, but will be included in detail as a part of the comprehensive methodology description in *Current Population Reports*, Series P-25, No. 699 (in preparation).

**Table A. Percent Difference Between Administrative Records Estimates and the Average of Component Method II and Regression Estimates for States: 1977**

(Base is the average of Method II and Regression estimates)

Item	All States	Population size in 1970		
		4 million and over	1.5 to 4 million	Less than 1.5 million
Average percent difference (disregarding sign).....	1.1	0.8	1.2	1.3
Number of States.....	51	16	18	17
With differences of:				
Less than 1 percent.....	21	9	7	5
1 to 2 percent.....	19	6	6	7
2 percent and over.....	11	1	5	5
Where Administrative Records was:				
Higher.....	29	10	9	10
Lower.....	22	6	9	7

**Table B. Percent Difference Between Administrative Records Estimates and the Provisional FSCP Estimates for Counties: 1977**

(Base is the provisional FSCP estimates for counties)

Item	All counties	Counties with 1,000 or more 1970 population					Counties with less than 1,000 1970 population
		Total	50,000 or more	25,000 to 49,999	10,000 to 24,999	1,000 to 9,999	
Average percent difference (disregarding sign).....	2.6	2.6	1.5	2.1	2.5	3.6	8.4
Number of counties or equivalents.....	3,143	3,117	679	567	1,017	854	26
With differences of:							
Less than 1 percent.....	952	951	329	191	266	165	1
1 to 3 percent.....	1,265	1,259	274	246	436	303	6
3 to 5 percent.....	526	520	56	95	196	173	6
5 to 10 percent.....	327	320	18	30	101	171	7
10 percent and over.....	73	67	2	5	18	42	6

**Table C. Percent Difference Between Administrative Records Estimates (Unrevised) and 86 Special Censuses: 1973**

(Base is special census)

Area	Average percent difference <sup>1</sup>	Number of areas with differences of:			
		Under 3 percent	3 to 5 percent	5 to 10 percent	10 percent and over
All areas (86) <sup>2</sup> .....	5.9	32	18	20	16
1,000 to 20,000 (59).....	4.6	26	13	14	6
Under 1,000 population (27).....	8.6	6	5	6	10

<sup>1</sup>Disregarding sign.

<sup>2</sup>All areas have population under 20,000 persons.

As a final caution, it must be noted that for convenience in presentation, the estimates contained in table 1 are shown in unrounded form. It is not intended, however, that the figures be considered accurate to the last digit. The nature of estimates prompts the rounding of figures in related Bureau reports and must be kept in mind during the application of the estimates contained here.

#### RELATED REPORTS

The population estimates shown in this series of reports update those found in **Current Population Reports**, Series P-25, Nos. 740 through 789 for 1976. The population estimates contained here for States are consistent with Series P-25, No. 790. The county estimates for 1977 are

superior to the provisional 1977 figures published earlier in Series P-25 and P-26 due to the addition of a second method, but will not be reported elsewhere in **Current Population Reports**. The county population estimates are being replaced by subsequent final 1977 figures developed through the Federal-State Cooperative Program for Local Population Estimates.

#### DETAILED TABLE SYMBOLS

In the detailed table entries, a dash “—” represents zero, and the symbol “Z” indicates that the figure is less than 0.05 percent. The symbol “B” means that the base for the derived figure is less than 75,000. Three dots “...” mean not applicable and “NA” means not available.

Table 1. July 1, 1977 Population Estimates for the State, Counties, and Subcounty Areas

AREA	JULY 1, 1977	APRIL 1, 1970 CENSUS	CHANGE, 1970 TO 1977		AREA	JULY 1, 1977	APRIL 1, 1970 CENSUS	CHANGE, 1970 TO 1977	
			NUMBER	PERCENT				NUMBER	PERCENT
STATE OF WYOMING.....	405 990	332 416	73 574	22.1	BUFFALO.....	3 608	3 394	214	6.3
ALBANY COUNTY.....	28 408	26 431	1 977	7.5	KAYCEE.....	286	272	14	5.1
LARAMIE.....	24 962	23 143	1 819	7.9	LARAMIE COUNTY.....	64 327	56 360	7 967	14.1
ROCK RIVER.....	393	344	49	14.2	ALBIN.....	123	118	5	4.2
BIG HORN COUNTY.....	11 833	10 202	1 631	16.0	BURNS.....	227	185	42	22.7
BASIN.....	1 327	1 145	182	15.9	CHEYENNE.....	48 274	41 254	7 020	17.0
BYRON.....	505	397	108	27.2	PINE BLUFFS.....	988	937	51	5.4
COWLEY.....	419	366	53	14.5	LINCOLN COUNTY.....	10 957	8 640	2 317	26.8
DEAVER.....	120	112	8	7.1	AFTON.....	1 654	1 290	364	28.2
FRANNIE (PART).....	132	103	29	28.2	COKEVILLE.....	578	440	138	31.4
GREYBULL.....	2 374	1 953	421	21.6	DIAMONVILLE.....	858	485	373	76.9
LOVELL.....	2 429	2 371	58	2.4	KEMMERER.....	2 935	2 292	643	28.1
MANDERSON.....	147	117	30	25.6	LA BARGE.....	244	204	40	19.6
CAMPBELL COUNTY.....	16 800	12 957	3 843	29.7	THAYNE.....	275	195	80	41.0
GILLETTE <sup>1</sup> .....	10 686	7 764	2 922	37.6	NATRONA COUNTY.....	59 596	51 264	8 332	16.3
CARBON COUNTY.....	18 132	13 354	4 778	35.8	CASPER.....	44 012	39 361	4 651	11.8
BAGGS.....	280	146	134	91.8	EDGERTON.....	290	350	-60	-17.1
DIXON.....	80	72	8	11.1	EVANSVILLE.....	2 530	832	1 698	204.1
ELK MOUNTAIN.....	147	127	20	15.7	MIDWEST.....	720	604	116	19.2
ELMO.....	68	53	15	28.3	MILLS.....	2 042	1 724	318	18.4
ENCAMPMENT.....	538	321	217	67.6	NIJBRARA COUNTY.....	2 953	2 924	29	1.0
HANNA.....	713	460	253	55.0	LUSK.....	1 710	1 495	215	14.4
MEDICINE BOW.....	898	455	443	97.4	MANVILLE.....	72	92	-20	-21.7
RAWLINS.....	10 218	7 855	2 363	30.1	VAN TASSEL.....	17	21	-4	-19.0
RIVERSIDE.....	58	46	12	26.1	PARK COUNTY.....	19 581	17 752	1 829	10.3
SARATOGA.....	1 766	1 181	585	49.5	CODY <sup>1</sup> .....	5 752	5 281	471	8.9
SINCLAIR.....	544	445	99	22.2	FRANNIE (PART).....	48	36	12	33.3
CONVERSE COUNTY.....	10 596	5 938	4 658	78.4	MEETEETSE.....	482	459	23	5.0
DOUGLAS.....	5 254	2 677	2 577	96.3	POWELL.....	4 788	4 807	-19	-0.4
GLENROCK.....	2 479	1 515	964	63.6	PLATTE COUNTY.....	8 275	6 486	1 789	27.6
LOST SPRINGS.....	13	7	6	85.7	CHUGWATER.....	190	187	3	1.6
CROOK COUNTY.....	5 270	4 535	735	16.2	GLENDO.....	284	210	74	35.2
HULETT.....	381	318	63	19.8	GUERNSEY.....	1 002	793	209	26.4
MOORCROFT.....	1 231	981	250	25.5	HARTVILLE.....	299	246	53	21.5
SUNDANCE.....	1 389	1 056	333	31.5	WHEATLAND.....	3 555	2 498	1 057	42.3
FREMONT COUNTY.....	33 653	28 352	5 301	18.7	SHERIDAN COUNTY.....	21 673	17 852	3 821	21.4
DUBOIS.....	1 140	898	242	26.9	CLEARMONT.....	227	141	86	61.0
HUDSON.....	504	381	123	32.3	DAYTON.....	497	396	101	25.5
LANDER.....	7 667	7 125	542	7.6	RANCHESTER.....	512	208	304	146.2
PAVILLION.....	170	181	-11	-6.1	SHERIDAN.....	12 270	10 856	1 414	13.0
RIVERTON.....	9 234	7 995	1 239	15.5	SUBLETTE COUNTY.....	4 398	3 755	643	17.1
SHOSHONI.....	767	562	205	36.5	BIG PINEY.....	740	570	170	29.8
GOSHEN COUNTY.....	12 139	10 885	1 254	11.5	MARBLETON.....	261	223	38	17.0
FORT LARAMIE.....	223	197	26	13.2	PINEDALE.....	1 179	948	231	24.4
LA GRANGE.....	259	189	70	37.0	SWEETWATER COUNTY.....	33 710	18 391	15 319	83.3
LINGLE.....	436	446	-10	-2.2	GRANGER.....	263	137	126	92.0
TORRINGTON.....	4 995	4 237	758	17.9	GREEN RIVER.....	9 854	4 196	5 658	134.8
YODER.....	207	101	106	105.0	ROCK SPRINGS.....	18 999	11 657	7 342	63.0
HOT SPRINGS COUNTY.....	4 952	4 952	-	-	SOUTH SUPERIOR.....	332	197	135	68.5
EAST THERMOPOLIS.....	237	316	-79	-25.0	WAMSUTTER.....	280	139	141	101.4
KIRBY.....	72	75	-3	-4.0					
THERMOPOLIS.....	3 250	3 063	187	6.1					
JOHNSON COUNTY.....	6 100	5 587	513	9.2					

<sup>1</sup>1970 CENSUS FIGURE INCLUDES 1970 CENSUS POPULATION RESIDING IN AREAS ANNEXED THROUGH DECEMBER 31, 1977.

Table 1. July 1, 1977 Population Estimates for the State, Counties, and Subcounty Areas—Continued

AREA	JULY 1, 1977	APRIL 1, 1970 CENSUS	CHANGE, 1970 TO 1977		AREA	JULY 1, 1977	APRIL 1, 1970 CENSUS	CHANGE, 1970 TO 1977	
			NUMBER	PERCENT				NUMBER	PERCENT
TETON COUNTY.....	6 926	4 823	2 103	43.6	TEN SLEEP.....	442	320	122	38.1
JACKSON.....	3 773	2 688	1 085	40.4	WORLAND.....	5 639	5 055	584	11.6
UINTA COUNTY.....	10 123	7 100	3 023	42.6	WESTON COUNTY.....	6 884	6 307	577	9.1
EVANSTON.....	4 861	4 462	399	8.9	NEWCASTLE.....	3 768	3 432	336	9.8
LYMAN.....	2 019	643	1 376	214.0	UPTON.....	1 064	987	77	7.8
MOUNTAIN VIEW.....	610	444	166	37.4	MULTI-COUNTY PLACES				
WASHAKIE COUNTY.....	8 704	7 569	1 135	15.0	FRANNIE.....	180	139	41	29.5