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Population Estimates and Projections

Estimates of the Population of Oregon Counties and Metropolitan Areas: July 1, 1977 (Revised) and 1978 (Provisional)

This report presents total population estimates for revised July 1, 1977 and provisional estimates for July 1, 1978 for counties and metropolitan areas in Oregon. These estimates were prepared by the Bureau of the Census as part of its continuing population estimates program. They are consistent in methodology with county estimates for other States jointly prepared by State agencies and the Bureau of the Census through the Federal-State Cooperative Program and published in **Current Population Reports**, Series P-26.

County estimates for July 1, 1971-76 and provisional estimates for July 1, 1977, were published earlier in **Current Population Reports**, Series P-25 or P-26. The provisional estimates in the last cited report are superseded by the numbers published here.

The decision on methodology used in this report was based upon the results of tests of the methods. The Administrative Records method has been tested against special censuses conducted since 1970. The other methods were evaluated against the 1970 census. For a detailed description of the Federal-State Cooperative Program and an analysis of 1970 test results for methods other than the Administrative Records method, see **Current Population Reports**, Series P-26, No. 21, "Federal-State Cooperative Program for Local Population Estimates: Test Results—April 1, 1970," April 1973. Summary results of tests of the Administrative Records method are presented in **Current Population Reports**, Series P-25, Nos. 649-698, and in detail in Series P-25, No. 699 (forthcoming).

The estimates shown for July 1, 1977, are based on an average of the following methods, adjusted to agree with the July 1, 1977 State estimate.

1. **The Regression (ratio-correlation) method.**¹ In the Regression method, a multiple regression equation is used to relate changes in a number of different data series to change in population distribution. The series of data used in the Regression method for Oregon are: school enrollment in grades 1 through 8 plus elementary special and ungraded enrollment (X_1), State individual tax returns (X_2), and registered voters (X_3). The prediction equation used for Oregon is given by

$$\hat{Y} = -0.0370 + 0.2264X_1 + 0.4623X_2 + 0.3435X_3$$

2. **Component Method II.**¹ This method employs vital statistics to measure natural change and school enrollment to measure net migration. The estimates produced by Component Method II are specific to the population under 65 not residing in group quarters. To this population is added an estimate of the population 65 and over

¹ More detailed descriptions of the methods are given in **Current Population Reports**, Series P-25, Nos. 427 and 520. Modifications made to the methodologies for the current series will be given in forthcoming reports in Series P-25.

based on the change in Medicare enrollees from 1970 to the estimate date, the institutional and college population, and reported military population living in barracks.

3. The Administrative Records method.¹ This is a component method which uses individual Federal income tax returns to measure the intercounty migration of the nongroup quarters population and reported birth and death statistics to estimate natural change. The tax returns are matched by Social Security number in the base year and the estimate year to determine the number of persons whose county of residence changed during the estimating period. A net migration rate based on exemptions claimed by the matched cases is then applied to the total population. The resulting estimate is made specific to the nongroup quarters population under age 65 by excluding from the migration computations any data relating to persons 65 years and over as well as persons residing in group quarters. These estimates of migration are then combined with the independent estimates of the population 65 and over used in the Component Method II estimate and the other components of population change—births, deaths, immigration, and the net movement between the military and civilian population.

The provisional July 1, 1978 estimates for counties were developed by adding to the 1977 estimates, the average change between the 1977 and 1978 Component Method II

estimates and the corresponding Regression method estimates. All counties were subsequently adjusted to agree with the provisional July 1, 1978 State estimate.

Table 2 presents estimates of the population of metropolitan areas and metropolitan counties in the State. The titles and definitions of the standard metropolitan statistical areas (SMSA's) are those currently defined by the Office of Federal Statistical Policy and Standards, Department of Commerce. Where an SMSA falls in more than one State (indicated in the SMSA title), information on the other State parts of the area can be obtained by referring to the P-26 or P-25 report for that particular State.

Corresponding estimates for other States will be published as they become available. The appendix table lists reports published to date for States in the 1977-78 series, together with those published for earlier years.

The 1970 census populations for the State and counties shown in the tables reflect all corrections to the census count made subsequent to the release of the official State figure. Counties with corrections of more than 500 are Lane and Multnomah Counties.

The estimates presented in the table have been rounded to the nearest hundred without being adjusted to the State total, which was independently rounded to the nearest thousand. Percentages are based on unrounded numbers. Births and deaths are taken from reported vital statistics from April 1, 1970, to December 31, 1977. Net migration is the residual difference between net change and natural change.

¹ See footnote 1 on page 1.

Table 1. Estimates of the Population of Oregon Counties: July 1, 1977 and 1978

(STATE ESTIMATES ARE SHOWN TO THE NEAREST THOUSAND, COUNTY ESTIMATES TO THE NEAREST HUNDRED)

COUNTY	JULY 1, 1978 (PROVISIONAL)	JULY 1, 1977	APRIL 1, 1970 (CENSUS) ¹	CHANGE, 1970 TO 1977		COMPONENTS OF CHANGE, 1970 TO 1977 ²			
				NUMBER	PERCENT	BIRTHS	DEATHS	NET MIGRATION	
								NUMBER	PERCENT
OREGON.....	2,444,000	2,385,000	2,091,533	293,000	14.0	241,000	147,000	198,000	9.5
BAKER.....	15,900	15,900	14,919	1,000	6.5	1,600	1,400	700	5.0
BENTON.....	65,800	65,000	53,776	11,200	20.9	5,400	2,300	8,100	15.1
CLACKAMAS.....	228,800	218,000	166,088	51,900	31.3	19,900	10,400	42,400	25.5
CLATSOP.....	30,500	29,600	28,473	1,100	3.9	3,000	2,500	600	2.2
COLUMBIA.....	32,600	32,600	28,790	3,800	13.3	3,500	2,000	2,300	8.0
COOS.....	62,400	60,800	56,515	4,200	7.5	6,800	3,800	1,200	2.2
CROOK.....	12,200	11,800	9,985	1,800	17.9	1,200	800	1,400	13.6
CURRY.....	15,600	15,100	13,006	2,100	16.2	1,500	1,000	1,600	12.6
DESCHUTES.....	52,100	47,300	30,442	16,800	55.3	4,300	2,500	15,000	49.4
DOUGLAS.....	89,100	86,800	71,743	15,100	21.0	9,700	4,800	10,200	14.2
GILLIAM.....	2,200	2,200	2,342	-100	-6.0	200	200	-200	-7.9
GRANT.....	7,700	7,600	6,996	600	8.2	800	500	200	3.5
HARNEY.....	7,800	7,800	7,215	600	8.2	900	500	200	2.6
HOOD RIVER.....	15,300	14,900	13,187	1,800	13.4	1,600	1,000	1,200	8.8
JACKSON.....	123,100	119,600	94,533	25,100	26.5	11,000	7,300	21,400	22.6
JEFFERSON.....	11,000	10,500	8,548	1,900	22.7	1,300	600	1,200	14.0
JOSEPHINE.....	53,700	51,000	35,746	15,200	42.6	4,900	3,500	13,900	39.0
KLAMATH.....	59,400	57,700	50,021	7,700	15.3	6,700	3,200	4,100	8.3
LAKE.....	7,100	6,900	6,343	600	9.1	700	400	300	4.1
LANE.....	257,700	250,100	215,401	34,700	16.1	24,900	11,800	21,600	10.0
LINCOLN.....	31,300	30,200	25,755	4,400	17.2	2,600	2,300	4,200	16.2
LINN.....	85,700	84,600	71,914	12,700	17.6	9,100	4,600	8,200	11.4
MALHEUR.....	25,400	24,900	23,159	1,800	7.6	3,100	1,600	200	0.8
MARION.....	182,200	176,100	151,309	24,800	16.4	18,000	11,000	17,900	11.8
MORROW.....	7,100	6,400	4,465	2,000	43.8	600	300	1,700	38.8
MULTNOMAH.....	523,700	527,900	554,668	-26,700	-4.8	56,700	44,300	-39,200	-7.1
POLK.....	43,700	43,100	35,349	7,700	21.8	3,800	2,400	6,400	18.1
SHERMAN.....	1,700	2,100	2,139	(Z)	-0.7	200	100	-100	-5.3
TILLAMOOK.....	19,900	19,300	18,034	1,300	7.2	1,900	1,500	1,000	5.3
UMATILLA.....	53,900	51,900	44,923	6,900	15.5	5,500	3,400	4,900	10.8
UNION.....	23,400	22,700	19,377	3,300	17.2	2,400	1,400	2,300	12.1
WALLOWA.....	7,200	6,900	6,247	700	11.2	600	500	600	9.7
WASCO.....	21,000	20,400	20,133	300	1.4	2,100	1,500	-300	-1.5
WASHINGTON.....	216,100	207,300	157,920	49,400	31.3	20,100	8,200	37,500	23.7
WHEELER.....	2,000	2,000	1,849	100	5.6	200	100	(Z)	1.4
YAMHILL.....	49,700	47,400	40,213	7,200	17.9	4,700	3,000	5,600	13.9

Z LESS THAN 50 PERSONS OR LESS THAN 0.05 PERCENT.

¹THE TOTAL FOR THE STATE SHOWN HERE INCLUDES ALL CORRECTIONS TO THE 1970 CENSUS MADE SUBSEQUENT TO THE RELEASE OF THE OFFICIAL COUNTS. THE OFFICIAL 1970 CENSUS COUNT FOR OREGON WAS 2,091,385.²BIRTHS AND DEATHS ARE BASED ON REPORTED VITAL STATISTICS FROM APRIL 1, 1970 TO DECEMBER 31, 1977. NET MIGRATION IS THE DIFFERENCE BETWEEN NET CHANGE AND NATURAL CHANGE.

Table 2. Estimates of the Population of Metropolitan Areas and Their Component Counties: Oregon, July 1, 1977 and 1978

(SMSA TOTALS ROUNDED INDEPENDENTLY OF COUNTY NUMBERS)

STANDARD METROPOLITAN STATISTICAL AREA AND COUNTY	JULY 1, 1978 (PROVISIONAL)	JULY 1, 1977	APRIL 1, 1970 (CENSUS)	CHANGE, 1970 TO 1977		COMPONENTS OF CHANGE, 1970 TO 1977 ¹			
				NUMBER	PERCENT	BIRTHS	DEATHS	NET MIGRATION	
								NUMBER	PERCENT
EUGENE-SPRINGFIELD, OREG.....	257,700	250,100	215,401	34,700	16.1	24,900	11,800	21,600	10.0
LANE.....	257,700	250,100	215,401	34,700	16.1	24,900	11,800	21,600	10.0
PORTLAND, OREG.-WASH. (OREG PORTION).....	968,600	953,200	878,676	74,600	8.5	96,700	62,900	40,700	4.6
CLACKAMAS.....	228,800	218,000	166,088	51,900	31.3	19,900	10,400	42,400	25.5
MULTNOMAH.....	523,700	527,900	554,668	-26,700	-4.8	56,700	44,300	-39,200	-7.1
WASHINGTON.....	216,100	207,300	157,920	49,400	31.3	20,100	8,200	37,500	23.7
SALEM, OREG.....	225,900	219,200	186,658	32,600	17.4	21,700	13,500	24,300	13.0
MARION.....	182,200	176,100	151,309	24,800	16.4	18,000	11,000	17,900	11.8
POLK.....	43,700	43,100	35,349	7,700	21.8	3,800	2,400	6,400	18.1
METROPOLITAN.....	1,452,100	1,422,600	1,280,735	141,900	11.1	143,400	88,200	86,600	6.8
NONMETROPOLITAN.....	991,700	961,900	810,798	151,100	18.6	98,000	58,800	111,900	13.8

¹BIRTHS AND DEATHS ARE BASED ON REPORTED VITAL STATISTICS FROM APRIL 1, 1970 TO DECEMBER 31, 1977. NET MIGRATION IS THE DIFFERENCE BETWEEN NET CHANGE AND NATURAL CHANGE.

Appendix

Estimates Published in Series P-26 Since 1975

(Reports issued under the Federal-State Cooperative Program for Local Population Estimates, jointly prepared by the Bureau of the Census and designated State agencies)

State	Report No.			State	Report No.		
	1977 and provisional 1978	1976 and provisional 1977	1975 and provisional 1976		1977 and provisional 1978	1976 and provisional 1977	1975 and provisional 1976
Alabama.....	78-1	77-1	76-1	Montana.....	78-26	77-26	76-26
Alaska.....		77-2	(³)	Nebraska.....	78-27	77-27	76-27
Arizona.....	(¹)	(²)	76-3	Nevada.....	78-28	77-28	76-28
Arkansas.....	78-4	77-4	76-4	New Hampshire....	78-29	77-29	76-29
California.....		77-5	76-5	New Jersey.....		77-30	76-30
Colorado.....		77-6	76-6	New Mexico.....	78-31	77-31	76-31
Connecticut.....	78-7	77-7	76-7	New York.....	78-32	77-32	76-32
Delaware.....	78-8	77-8	76-8	North Carolina...	78-33	77-33	76-33
Florida.....		77-9	76-9	North Dakota.....		77-34	76-34
Georgia.....		77-10	76-10	Ohio.....	78-35	77-35	76-35
Hawaii.....	78-11	77-11	76-11	Oklahoma.....	78-36	77-36	76-36
Idaho.....	78-12	77-12	76-12	Oregon.....	(¹)	77-37	76-37
Illinois.....		77-13	76-13	Pennsylvania.....	78-38	77-38	76-38
Indiana.....		77-14	76-14	Rhode Island.....	78-39	77-39	76-39
Iowa.....		77-15	76-15	South Carolina...		77-40	76-40
Kansas.....		77-16	76-16	South Dakota.....	78-41	77-41	76-41
Kentucky.....	78-17	77-17	76-17	Tennessee.....	78-42	77-42	76-42
Louisiana.....	78-18	77-18	76-18	Texas.....		(²)	(³)
Maine.....	78-19	77-19	76-19	Utah.....	78-44	77-44	76-44
Maryland.....		77-20	76-20	Vermont.....	78-45	77-45	76-45
Massachusetts.....	(¹)	(²)	(³)	Virginia.....	78-46	77-46	76-46
Michigan.....	78-22	77-22	76-22	Washington.....	(¹)	(²)	(³)
Minnesota.....	78-23	77-23	76-23	West Virginia....		77-48	76-48
Mississippi.....	78-24	77-24	76-24	Wisconsin.....		77-49	76-49
Missouri.....		77-25	76-25	Wyoming.....	78-50	77-50	76-50
				Puerto Rico.....			76-51

¹County or county equivalent estimates for 1977 and provisional 1978 are published in Series P-25 for the following States: Arizona, No. 804; Washington, No. 808; Massachusetts, No. 811; Oregon, No. 813.

²County or county equivalent estimates for 1976 and provisional 1977 are published in Series P-25 for the following States: Arizona, No. 730; Washington, No. 738; Massachusetts, No. 797; and Texas, No. 798.

³County or county equivalent estimates for 1975 and provisional 1976 are published in Series P-25 for the following States: Washington, No. 707; Alaska, No. 712; Massachusetts, No. 715; and Texas, No. 717.

Counties, Metropolitan Areas, and Selected Places: Oregon

