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# Population Estimates and Projections

## Estimates of the Population of Washington 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 Washington. 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 The provisional estimates in the last cited report are superseded by the numbers published here.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.**<sup>1</sup> 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 Washington are: automobile registrations ( $X_1$ ), school enrollment in grades 1 through 8 plus elementary special and ungraded enrollment ( $X_2$ ), and covered employment ( $X_3$ ). The prediction equation used for Washington is given by:

$$\hat{Y} = 0.1550 + 0.3531X_1 + 0.4410X_2 + 0.0531X_3$$

**2. Component Method II.**<sup>1</sup> 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 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.

<sup>1</sup> 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.

**3. The Administrative Records method.**<sup>1</sup> 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.

<sup>1</sup> See footnote 1 on page 1.

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 King and Pierce 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.

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

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

COUNTY	JULY 1, 1978 (PROVI- SIONAL)	JULY 1, 1977	APRIL 1, 1970 (CENSUS) <sup>1</sup>	CHANGE, 1970 TO 1977		COMPONENTS OF CHANGE, 1970 TO 1977 <sup>2</sup>			
				NUMBER	PERCENT	BIRTHS	DEATHS	NET MIGRATION	
								NUMBER	PERCENT
WASHINGTON.....	3,774,000	3,681,000	3,413,244	268,000	7.8	379,000	218,000	107,000	3.1
ADAMS <sup>3</sup> .....	14,100	13,800	12,014	1,800	14.7	1,900	600	500	3.9
ASOTIN.....	15,600	15,300	13,799	1,500	11.0	1,600	1,300	1,200	8.4
BENTON.....	96,800	89,500	67,540	21,900	32.5	8,200	3,400	17,200	25.5
CHELAN.....	43,000	42,100	41,103	1,000	2.3	3,900	3,100	200	0.6
CLALLAM.....	45,200	43,400	34,770	8,600	24.8	4,500	2,900	7,100	20.4
CLARK.....	171,500	164,800	128,454	36,300	28.3	17,200	8,300	27,400	21.4
COLUMBIA.....	4,600	4,600	4,439	200	4.7	400	400	200	5.3
COWLITZ <sup>4</sup> .....	74,100	72,500	68,616	3,900	5.7	8,600	4,300	-400	-0.6
DOUGLAS.....	21,300	21,000	16,787	4,200	25.2	1,800	900	3,300	19.7
FERRY <sup>5</sup> .....	5,400	5,200	3,655	1,500	42.3	500	200	1,300	34.6
FRANKLIN.....	31,200	29,600	25,816	3,800	14.8	3,900	1,500	1,400	5.3
GARFIELD.....	2,700	2,800	2,911	-100	-2.4	300	200	-100	-4.5
GRANT.....	49,000	48,500	41,881	6,700	15.9	5,700	2,300	3,300	7.9
GRAYS HARBOR.....	63,300	62,600	59,553	3,000	5.1	6,800	4,900	1,000	1.7
ISLAND <sup>6</sup> .....	39,400	37,900	27,011	10,900	40.3	4,500	1,600	8,000	29.5
JEFFERSON.....	14,000	13,300	10,661	2,600	24.3	1,000	900	2,500	23.1
KING.....	1,177,600	1,161,500	1,159,369	2,100	0.2	106,400	68,900	-35,400	-3.1
KITSAP <sup>7</sup> .....	127,300	122,300	101,732	20,500	20.2	12,300	6,700	15,000	14.7
KITKITAS.....	25,000	24,500	25,039	-500	-2.0	2,200	1,400	-1,300	-5.2
KLICKITAT.....	14,400	13,900	12,138	1,800	14.7	1,600	900	1,100	9.2
LEWIS.....	51,900	51,000	45,467	5,600	12.3	5,600	3,900	3,800	8.4
LINCOLN.....	9,800	9,800	9,572	200	2.2	900	800	100	1.3
MASON.....	25,800	25,300	20,918	4,300	20.8	2,300	1,600	3,700	17.5
OKANOGAN.....	29,400	28,900	25,867	3,100	11.8	3,200	2,000	1,900	7.2
PACIFIC.....	16,200	16,300	15,796	500	3.0	1,600	1,500	400	2.6
PEND OREILLE <sup>8</sup> .....	8,400	8,100	6,025	2,100	34.3	900	500	1,700	28.7
PIERCE.....	436,900	426,200	412,344	13,900	3.4	50,700	24,500	-12,300	-3.0
SAN JUAN <sup>9</sup> .....	6,900	6,200	3,856	2,300	60.8	300	400	2,400	62.1
SKAGIT.....	58,600	57,000	52,381	4,600	8.8	5,800	4,100	2,900	5.5
SKAMANIA.....	6,000	6,100	5,845	200	3.7	700	300	-100	-2.4
SNOHOMISH.....	290,000	275,900	265,236	10,600	4.0	30,400	14,200	-5,600	-2.1
SPOKANE.....	319,600	313,100	287,487	25,600	8.9	34,800	21,100	11,900	4.1
STEVENS <sup>10</sup> .....	25,100	23,800	17,405	6,300	36.5	2,400	1,400	5,400	30.8
THURSTON.....	112,800	106,000	76,894	29,100	37.8	10,000	5,100	24,200	31.5
WAHIAKUM <sup>11</sup> .....	3,800	3,800	3,592	200	5.1	400	300	100	1.8
WALLA WALLA.....	43,400	43,300	42,176	1,100	2.7	3,900	3,400	700	1.6
WHATCOM.....	96,800	94,100	81,983	12,100	14.8	9,300	5,800	8,600	10.5
WHITMAN.....	37,500	38,700	37,900	800	2.1	3,500	1,700	-1,000	-2.6
YAKIMA.....	159,300	158,300	145,212	13,100	9.0	19,200	10,700	4,700	3.2

<sup>1</sup>THE 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 WASHINGTON WAS 3,409,169.

<sup>2</sup>BIRTHS 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.

<sup>3</sup>THE POPULATION OF ADAMS COUNTY, AS COUNTED IN THE SPECIAL CENSUS TAKEN BY THE POPULATION STUDIES DIVISION, OFFICE OF PROGRAM PLANNING AND FISCAL MANAGEMENT ON APRIL 1, 1976 WAS 13,709. THE ESTIMATES SHOWN HERE HAVE BEEN ADJUSTED TO REFLECT THIS COUNT.

<sup>4</sup>THE POPULATION OF COWLITZ COUNTY, AS COUNTED IN THE SPECIAL CENSUS TAKEN BY THE POPULATION STUDIES DIVISION, OFFICE OF PROGRAM PLANNING AND FISCAL MANAGEMENT ON SEPTEMBER 10, 1973 WAS 70,408. THE ESTIMATES SHOWN HERE HAVE BEEN ADJUSTED TO REFLECT THIS COUNT.

<sup>5</sup>THE POPULATION OF FERRY COUNTY, AS COUNTED IN THE SPECIAL CENSUS TAKEN BY THE POPULATION STUDIES DIVISION, OFFICE OF PROGRAM PLANNING AND FISCAL MANAGEMENT ON MARCH 25, 1977 WAS 5,147. THE ESTIMATES SHOWN HERE HAVE BEEN ADJUSTED TO REFLECT THIS COUNT.

<sup>6</sup>THE POPULATION OF ISLAND COUNTY, AS COUNTED IN THE SPECIAL CENSUS TAKEN BY THE POPULATION STUDIES DIVISION, OFFICE OF PROGRAM PLANNING AND FISCAL MANAGEMENT ON APRIL 1, 1971 WAS 37,528. THE ESTIMATES SHOWN HERE HAVE BEEN ADJUSTED TO REFLECT THIS COUNT.

<sup>7</sup>THE POPULATION OF KITSAP COUNTY, AS COUNTED IN THE SPECIAL CENSUS TAKEN BY THE POPULATION STUDIES DIVISION, OFFICE OF PROGRAM PLANNING AND FISCAL MANAGEMENT ON APRIL 17, 1975 WAS 116,090. THE ESTIMATES SHOWN HERE HAVE BEEN ADJUSTED TO REFLECT THIS COUNT.

<sup>8</sup>THE POPULATION OF PEND OREILLE COUNTY, AS COUNTED IN THE SPECIAL CENSUS TAKEN BY THE POPULATION STUDIES DIVISION, OFFICE OF PROGRAM PLANNING AND FISCAL MANAGEMENT ON OCTOBER 31, 1977 WAS 8,186. THE ESTIMATES SHOWN HERE HAVE BEEN ADJUSTED TO REFLECT THIS COUNT.

<sup>9</sup>THE POPULATION OF SAN JUAN COUNTY, AS COUNTED IN THE SPECIAL CENSUS TAKEN BY THE POPULATION STUDIES DIVISION, OFFICE OF PROGRAM PLANNING AND FISCAL MANAGEMENT ON SEPTEMBER 22, 1975 WAS 5,493. THE ESTIMATES SHOWN HERE HAVE BEEN ADJUSTED TO REFLECT THIS COUNT.

<sup>10</sup>THE POPULATION OF STEVENS COUNTY, AS COUNTED IN THE SPECIAL CENSUS TAKEN BY THE POPULATION STUDIES DIVISION, OFFICE OF PROGRAM PLANNING AND FISCAL MANAGEMENT ON SEPTEMBER 25, 1975 WAS 22,708. THE ESTIMATES SHOWN HERE HAVE BEEN ADJUSTED TO REFLECT THIS COUNT.

<sup>11</sup>THE POPULATION OF WAHIAKUM COUNTY, AS COUNTED IN THE SPECIAL CENSUS TAKEN BY THE POPULATION STUDIES DIVISION, OFFICE OF PROGRAM PLANNING AND FISCAL MANAGEMENT ON APRIL 1, 1976 WAS 3,682. THE ESTIMATES SHOWN HERE HAVE BEEN ADJUSTED TO REFLECT THIS COUNT.

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

(SMSA TOTALS ROUNDED INDEPENDENTLY OF COUNTY NUMBERS)

STANDARD METROPOLITAN STATISTICAL AREA AND COUNTY	JULY 1, 1978 (PROVI- SIONAL)	JULY 1, 1977	APRIL 1, 1970 (CENSUS)	CHANGE, 1970 TO 1977		COMPONENTS OF CHANGE, 1970 TO 1977 <sup>1</sup>			
				NUMBER	PERCENT	BIRTHS	DEATHS	NET MIGRATION	
								NUMBER	PERCENT
PORTLAND, OREG.-WASH. (WASH. PORTION).....	171,500	164,800	128,454	36,300	28.3	17,200	8,300	27,400	21.4
CLARK.....	171,500	164,800	128,454	36,300	28.3	17,200	8,300	27,400	21.4
RICHLAND-KENNEWICK-PASCO, WASH... BENTON.....	128,000	119,100	93,356	25,800	27.6	12,100	4,900	18,600	19.9
FRANKLIN.....	96,800	89,500	67,540	21,900	32.5	8,200	3,400	17,200	25.5
SEATTLE-EVERETT, WASH.....	31,200	29,600	25,816	3,800	14.8	3,900	1,500	1,400	5.3
KING.....	1,467,600	1,437,300	1,424,605	12,700	0.9	136,800	83,000	-41,100	-2.9
SNOHOMISH.....	1,177,600	1,161,500	1,159,369	2,100	0.2	106,400	68,900	-35,400	-3.1
SPOKANE, WASH.....	290,000	275,900	265,236	10,600	4.0	30,400	14,200	-5,600	-2.1
SPOKANE.....	319,600	313,100	287,487	25,600	8.9	34,800	21,100	11,900	4.1
TACOMA, WASH.....	319,600	313,100	287,487	25,600	8.9	34,800	21,100	11,900	4.1
PIERCE.....	436,900	426,200	412,344	13,900	3.4	50,700	24,500	-12,300	-3.0
YAKIMA, WASH.....	436,900	426,200	412,344	13,900	3.4	50,700	24,500	-12,300	-3.0
YAKIMA.....	159,300	158,300	145,212	13,100	9.0	19,200	10,700	4,700	3.2
METROPOLITAN.....	159,300	158,300	145,212	13,100	9.0	19,200	10,700	4,700	3.2
NONMETROPOLITAN.....	2,682,900	2,618,900	2,491,458	127,500	5.1	270,900	152,500	9,200	0.4
	1,090,700	1,062,000	921,786	140,200	15.2	108,300	65,400	97,400	10.6

<sup>1</sup>BIRTHS 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.....		77-1	76-1	Montana.....		77-26	76-26
Alaska.....		77-2	( <sup>3</sup> )	Nebraska.....		77-27	76-27
Arizona.....	( <sup>1</sup> )	( <sup>2</sup> )	76-3	Nevada.....	78-28	77-28	76-28
Arkansas.....		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.....		77-31	76-31
Connecticut.....		77-7	76-7	New York.....		77-32	76-32
Delaware.....	78-8	77-8	76-8	North Carolina....		77-33	76-33
Florida.....		77-9	76-9	North Dakota.....		77-34	76-34
Georgia.....		77-10	76-10	Ohio.....		77-35	76-35
Hawaii.....	78-11	77-11	76-11	Oklahoma.....		77-36	76-36
Idaho.....	78-12	77-12	76-12	Oregon.....		77-37	76-37
Illinois.....		77-13	76-13	Pennsylvania.....		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.....		77-17	76-17	Tennessee.....		77-42	76-42
Louisiana.....	78-18	77-18	76-18	Texas.....		( <sup>2</sup> )	( <sup>3</sup> )
Maine.....	78-19	77-19	76-19	Utah.....		77-44	76-44
Maryland.....		77-20	76-20	Vermont.....	78-45	77-45	76-45
Massachusetts.....		( <sup>2</sup> )	( <sup>3</sup> )	Virginia.....		77-46	76-46
Michigan.....	78-22	77-22	76-22	Washington.....	( <sup>1</sup> )	( <sup>2</sup> )	( <sup>3</sup> )
Minnesota.....		77-23	76-23	West Virginia.....		77-48	76-48
Mississippi.....		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

<sup>1</sup>County 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.

<sup>2</sup>County 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.

<sup>3</sup>County 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.

