

Population Estimates and Projections



U.S. Department of Commerce
BUREAU OF THE CENSUS

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Estimates of the Population of Washington Counties and Metropolitan Areas: July 1, 1976 (Revised) and 1977 (Provisional)

This report presents total population estimates for July 1, 1976 and provisional estimates for July 1, 1977 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, 1971-1975 and provisional estimates for July 1, 1976, 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 The provisional estimates in the last cited report are superseded by the numbers published here.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, 1976, are based on an average of the following methods, adjusted to agree with the July 1, 1976 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 Washington are: automobile registrations (X_1), elementary 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

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

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.

2. Component Method II.¹ This method employs vital statistics to measure natural increase 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.

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 increase. 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 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, 1977 estimates were developed by adding to the 1976 estimates the average change between the 1976 and 1977 Component Method II estimates and the corresponding Regression method estimates. All counties were subsequently adjusted to agree with the provisional July 1, 1977 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 Management and Budget, Executive Office of the President. 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 1976-77 series, together with those published for earlier years.

The 1970 census populations for the State and counties shown on the table 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 increase.

¹ See footnote 1 on page 1.

Table 1. ESTIMATES OF THE POPULATION OF WASHINGTON COUNTIES: JULY 1, 1976 AND 1977

(State estimates are shown to the nearest thousand, county estimates to the nearest hundred)

COUNTY	JULY 1, 1977 (PROVI- SIONAL)	JULY 1, 1976	APRIL 1, 1970 (CENSUS) ¹	CHANGE, 1970 TO 1977		COMPONENTS OF CHANGE, 1970 TO 1977 ²			
				NUMBER	PERCENT	BIRTHS	DEATHS	NET MIGRATION	
								NUMBER	PERCENT
WASHINGTON.....	3,658,000	3,611,000	3,413,244	245,000	7.2	405,000	233,000	72,000	2.1
ADAMS ³	14,100	13,800	12,014	2,000	17.0	2,100	700	700	5.7
ASOTIN.....	15,200	15,100	13,799	1,400	10.0	1,700	1,300	1,000	7.0
BENTON.....	88,400	83,400	67,540	20,800	30.9	8,800	3,700	15,700	23.3
CHELAN.....	41,700	41,100	41,103	600	1.4	4,000	3,400	-100	-0.2
CLALLAM.....	42,600	42,300	34,770	7,800	22.6	4,800	3,200	6,200	18.0
CLARK.....	163,100	158,800	128,454	34,600	27.0	18,400	8,900	25,100	19.5
COLUMBIA.....	4,700	4,600	4,439	200	5.5	400	400	300	6.0
COWLITZ.....	72,400	72,400	68,616	3,800	5.5	9,300	4,600	-900	-1.3
DOUGLAS.....	20,900	20,200	16,787	4,100	24.3	1,900	900	3,100	18.4
FERRY ⁴	5,200	5,000	3,655	1,500	42.3	500	200	1,200	34.1
FRANKLIN.....	29,100	28,900	25,816	3,300	12.8	4,300	1,600	700	2.6
GARFIELD.....	2,800	2,900	2,911	-100	-3.7	300	200	-200	-5.8
GRANT.....	48,200	47,300	41,881	6,300	15.1	6,100	2,500	2,700	6.4
GRAYS HARBOR.....	62,500	61,100	59,553	2,900	4.9	7,300	5,200	800	1.4
ISLAND ⁵	37,900	36,400	27,011	10,900	40.3	4,800	1,700	7,800	28.9
JEFFERSON.....	13,200	12,400	10,661	2,500	23.8	1,100	1,000	2,400	22.5
KING.....	1,154,000	1,148,100	1,159,369	-5,300	-0.5	113,300	73,700	-45,000	-3.9
KITSAP ⁶	120,700	117,800	101,732	18,900	18.6	13,100	7,200	13,100	12.9
KITTITAS.....	24,300	25,100	25,039	-700	-2.9	2,400	1,500	-1,600	-6.4
Klickitat.....	13,800	13,700	12,138	1,700	14.0	1,700	1,000	1,000	8.0
LEWIS.....	50,900	49,900	45,467	5,400	11.9	6,100	4,200	3,500	7.7
LINCOLN.....	9,700	9,900	9,572	200	1.8	1,000	900	100	0.6
MASON.....	25,000	24,400	20,918	4,100	19.5	2,400	1,700	3,400	16.1
OKANOGAN.....	28,600	28,500	25,867	2,800	10.7	3,400	2,200	1,500	5.9
PACIFIC.....	16,200	16,000	15,796	400	2.4	1,700	1,600	300	1.9
PEND OREILLE ⁷	8,100	7,800	6,025	2,100	34.3	900	600	1,700	28.7
PIERCE.....	423,400	420,800	412,344	11,100	2.7	54,400	26,200	-17,100	-4.1
SAN JUAN ⁸	6,200	5,600	3,856	2,300	59.9	300	400	2,400	62.1
SKAGIT.....	56,700	55,800	52,381	4,300	8.3	6,200	4,400	2,400	4.7
SKAMANIA.....	6,100	5,900	5,845	200	4.1	700	300	-200	-2.7
SNOHOMISH.....	273,200	269,500	265,236	7,900	3.0	32,400	15,100	-9,400	-3.5
SPOKANE.....	310,200	308,600	287,487	22,700	7.9	37,300	22,600	8,000	2.8
STEVENS ¹⁰	23,800	23,500	17,405	6,400	36.8	2,500	1,500	5,300	30.5
THURSTON.....	106,600	97,200	76,894	29,700	38.6	10,800	5,500	24,400	31.7
WAHIAKUM ¹¹	3,800	3,700	3,592	200	4.4	400	300	(2)	0.6
WALLA WALLA.....	43,400	43,300	42,176	1,200	2.9	4,200	3,600	700	1.6
WHATCOM.....	92,400	91,500	81,983	10,500	12.7	10,000	6,200	6,700	8.2
WHITMAN.....	42,200	42,000	37,900	4,300	11.4	3,800	1,800	2,400	6.4
YAKIMA.....	156,600	156,800	145,212	11,400	7.9	20,600	11,400	2,200	1.5

2 LESS THAN 50 PERSONS OR LESS THAN 0.05 PERCENT.

3 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.

4 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 INCREASE.

5 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.

6 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.

7 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.

8 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, 1977, WAS 37,528. THE ESTIMATES SHOWN HERE HAVE BEEN ADJUSTED TO REFLECT THIS COUNT.

9 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.

10 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.

11 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.

12 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.

13 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, 1976 AND 1977**

(SMSA totals rounded independently of county numbers)

STANDARD METROPOLITAN STATISTICAL AREA AND COUNTY	JULY 1, 1977 (PROVI- SIONAL)	JULY 1, 1976	APRIL 1, 1970 (CENSUS)	CHANGE, 1970 TO 1977		COMPONENTS OF CHANGE, 1970 TO 1977 ¹			
				NUMBER	PERCENT	BIRTHS	DEATHS	NET MIGRATION	
								NUMBER	PERCENT
PORTLAND, OREG.-WASH. (WASH. PORTION).....	163,100	158,800	128,454	34,600	27.0	18,400	8,900	25,100	19.5
CLARK.....	163,100	158,800	128,454	34,600	27.0	18,400	8,900	25,100	19.5
RICHLAND-KENNEWICK, WASH.....	117,500	112,200	93,356	24,100	25.9	13,100	5,300	16,400	17.5
BENTON.....	88,400	83,400	67,540	20,800	30.9	8,800	3,700	15,700	23.3
FRANKLIN.....	29,100	28,900	25,816	3,300	12.8	4,300	1,600	700	2.6
SEATTLE-EVERETT, WASH.....	1,427,200	1,417,600	1,424,605	2,600	0.2	145,800	88,900	-54,300	-3.8
KING.....	1,154,000	1,148,100	1,159,369	-5,300	-0.5	113,300	73,700	-45,000	-3.9
SNOHOMISH.....	273,200	269,500	265,236	7,900	3.0	32,400	15,100	-9,400	-3.5
SPOKANE, WASH.....	310,200	308,600	287,487	22,700	7.9	37,300	22,600	8,000	2.8
SPOKANE.....	310,200	308,600	287,487	22,700	7.9	37,300	22,600	8,000	2.8
TACOMA, WASH.....	423,400	420,800	412,344	11,100	2.7	54,400	26,200	-17,100	-4.1
PIERCE.....	423,400	420,800	412,344	11,100	2.7	54,400	26,200	-17,100	-4.1
YAKIMA, WASH.....	156,600	156,800	145,212	11,400	7.9	20,600	11,400	2,200	1.5
YAKIMA.....	156,600	156,800	145,212	11,400	7.9	20,600	11,400	2,200	1.5
METROPOLITAN.....	2,598,000	2,575,000	2,491,458	106,500	4.3	289,500	163,300	-19,700	-0.8
NONMETROPOLITAN.....	1,059,800	1,035,900	921,786	138,000	15.0	116,000	70,200	92,200	10.0

¹ 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 INCREASE.

APPENDIX

ESTIMATES PUBLISHED IN SERIES P-26 SINCE 1970

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

State	Report No.*			State	Report No.*		
	1976 and provisional 1977	1975 and provisional 1976	1974 and provisional 1975		1976 and provisional 1977	1975 and provisional 1976	1974 and provisional 1975
Alabama.....		76-1	75-1	Montana.....		76-26	75-26
Alaska.....		(²)	(³)	Nebraska.....	77-27	76-27	75-27
Arizona.....	(¹)	76-3	75-3	Nevada.....		76-28	75-28
Arkansas.....		76-4	75-4	New Hampshire.....	77-29	76-29	75-29
California.....		76-5	75-5	New Jersey.....		76-30	75-30
Colorado.....		76-6	75-6	New Mexico.....	77-31	76-31	75-31
Connecticut.....		76-7	75-7	New York.....	77-32	76-32	(³)
Delaware.....	77-8	76-8	75-8	North Carolina.....	77-33	76-33	75-33
Florida.....		76-9	75-9	North Dakota.....		76-34	75-34
Georgia.....		76-10	75-10	Ohio.....		76-35	75-35
Hawaii.....	77-11	76-11	75-11	Oklahoma.....		76-36	75-36
Idaho.....	77-12	76-12	75-12	Oregon.....		76-37	75-37
Illinois.....		76-13	75-13	Pennsylvania.....		76-38	75-38
Indiana.....	77-14	76-14	75-14	Rhode Island.....	77-39	76-39	75-39
Iowa.....		76-15	75-15	South Carolina.....		76-40	75-40
Kansas.....		76-16	75-16	South Dakota.....	77-41	76-41	75-41
Kentucky.....	77-17	76-17	75-17	Tennessee.....		76-42	75-42
Louisiana.....	77-18	76-18	75-18	Texas.....		(²)	(³)
Maine.....	77-19	76-19	75-19	Utah.....		76-44	75-44
Maryland.....		76-20	(³)	Vermont.....	77-45	76-45	75-45
Massachusetts.....		(²)	(³)	Virginia.....		76-46	75-46
Michigan.....	77-22	76-22	75-22	Washington.....	(¹)	(²)	(³)
Minnesota.....	77-23	76-23	75-23	West Virginia.....		76-48	75-48
Mississippi.....		76-24	75-24	Wisconsin.....		76-49	75-49
Missouri.....		76-25	75-25	Wyoming.....		76-50	75-50

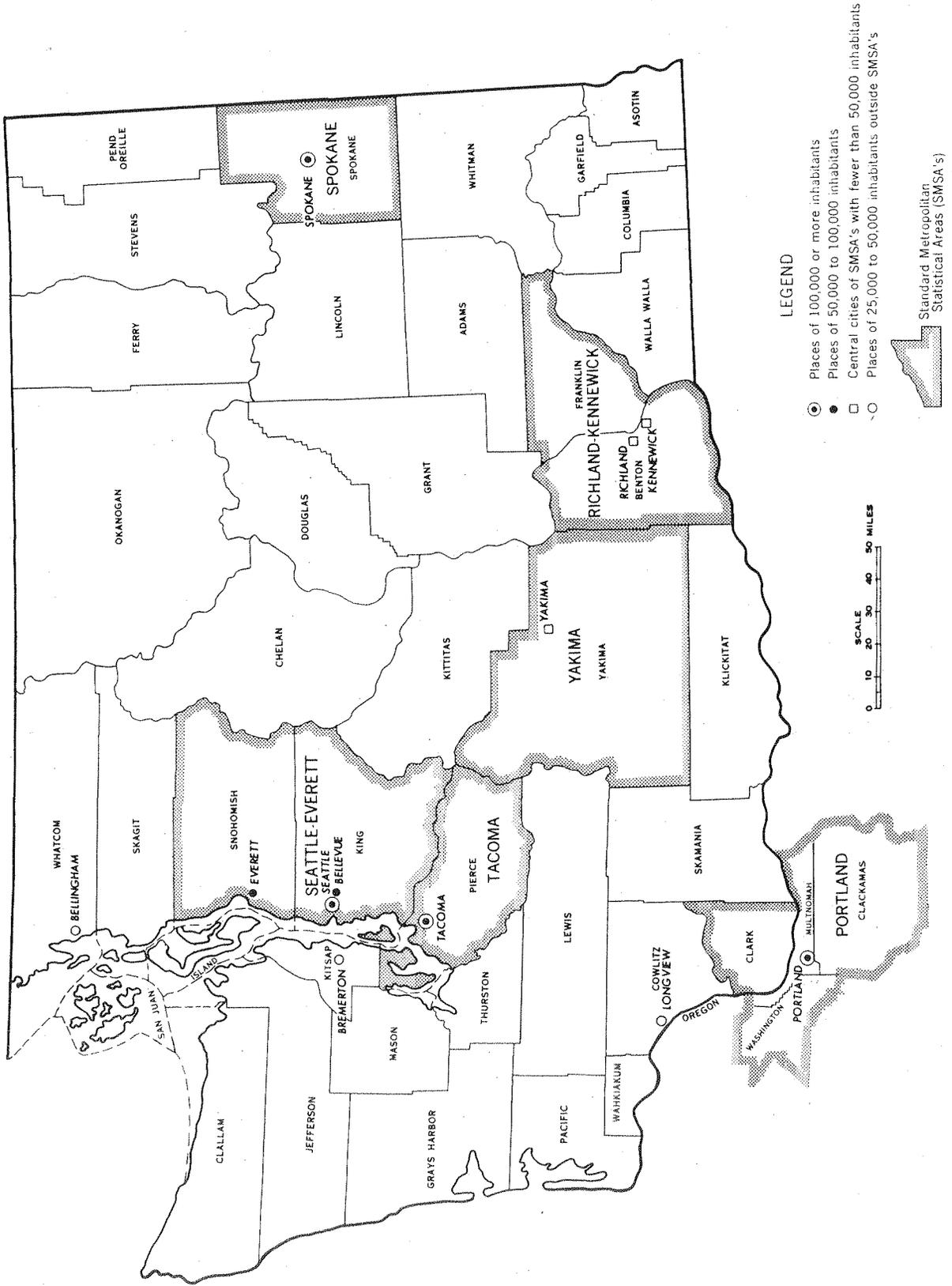
*County estimates for all States for 1971 and provisional 1972 are published in Series P-25, No. 517. County estimates for all States for 1972 and provisional 1973 are published in Series P-26, Nos. 49-93 and Series P-25, Nos. 527, 530, 531, 532 and 535. County estimates for all States for 1973 and provisional 1974 are published in Series P-26, Nos. 94-117, 119-138 and Series P-25, Nos. 596, 597, 599, 602, 604 and 609.

¹County 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.

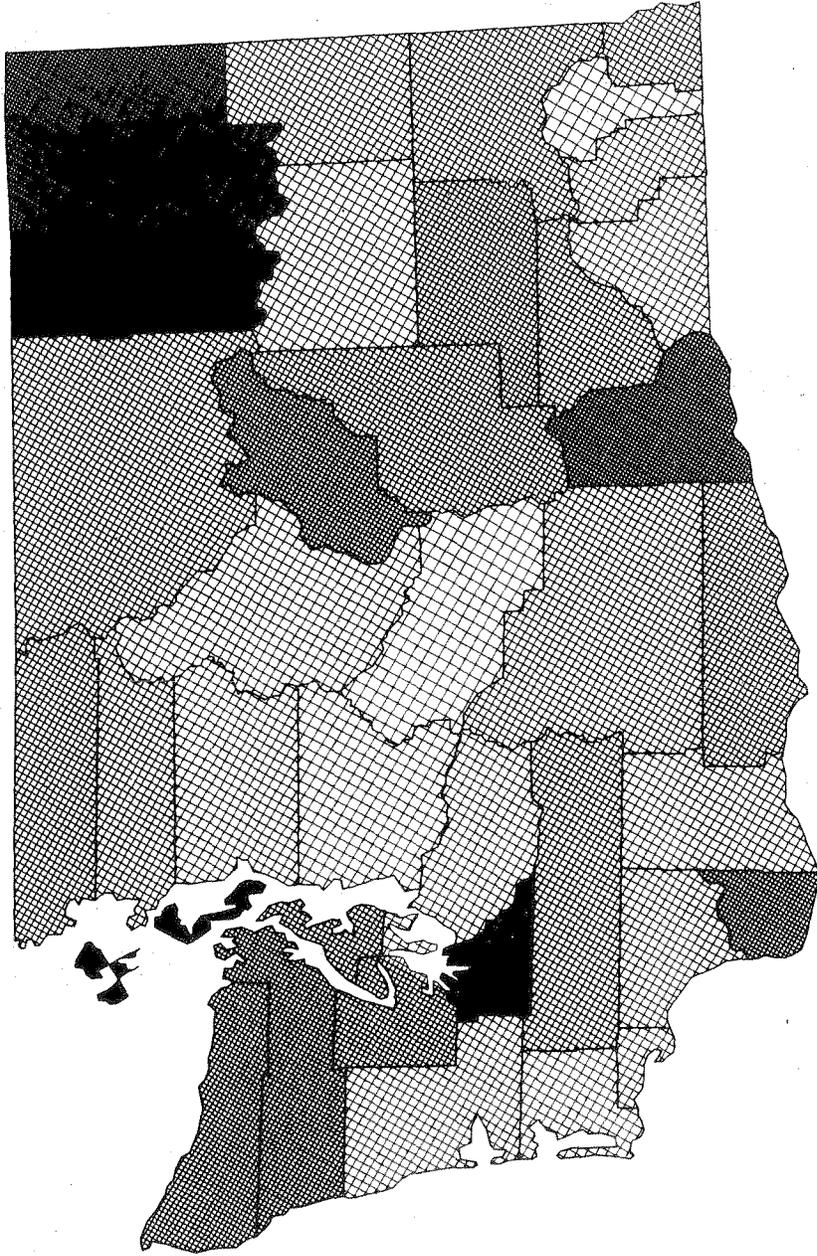
²County or county equivalent estimates for 1975 and provisional 1976 are published in Series P-25 for the following States: Washington, No. 707; Alaska, No. 712; Massachusetts, No. 715; and Texas, No. 717.

³County or county equivalent estimates for 1974 and provisional 1975 are published in Series P-25 for the following States: Washington, No. 624; Maryland, No. 629; New York, No. 631; Massachusetts, No. 633; Texas, No. 637; and Alaska, No. 638.

COUNTIES, METROPOLITAN AREAS, AND SELECTED PLACES: WASHINGTON



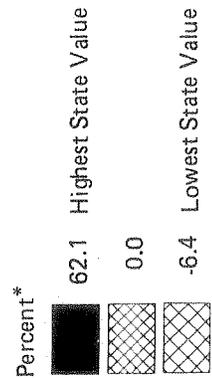
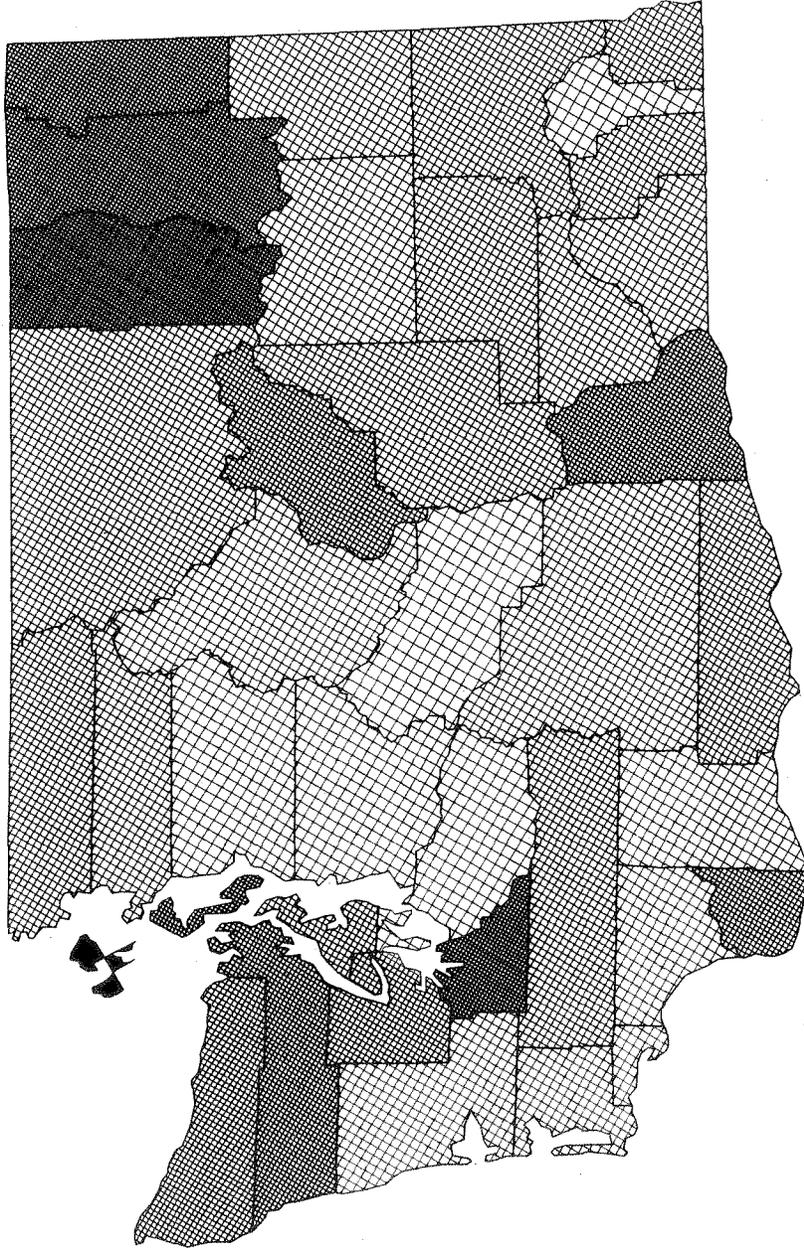
Percent Change in Population of Washington Counties 1970 — 1977



Percent*
 59.9 Highest State Value
 0.0
 -3.7 Lowest State Value

*The intensity of the line patterns showing county data values varies continuously from the lowest value within the State (sparsest line pattern) to the highest value within the State (most dense line pattern). While small variations are difficult to distinguish, the maps give an overall impression of change patterns.

Percent Net Migration for Washington Counties 1970 — 1977



*The intensity of the line patterns showing county data values varies continuously from the lowest value within the State (sparsest line pattern) to the highest value within the State (most dense line pattern). While small variations are difficult to distinguish, the maps give an overall impression of change patterns.