



Population Estimates and Projections

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ESTIMATES OF THE POPULATION OF WASHINGTON COUNTIES AND METROPOLITAN AREAS: JULY 1, 1974 AND 1975

This report presents total population estimates for July 1, 1974 and provisional estimates for July 1, 1975 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 methodological approach with county estimates for other States jointly prepared by State agencies and the Bureau of the Census under the auspices of the Federal-State Cooperative Program and published in *Current Population Reports*, Series P-26.

County estimates for July 1, 1971, 1972, 1973 and provisional July 1, 1974, were published earlier in *Current Population Reports*, Series P-25, No. 517, P-26, No. 66, and P-25, No. 597. The provisional estimates in the last cited report are superseded by the numbers published here.

This report shows estimates that are comparable to those prepared last year when administrative records on a national basis first became available as a data source. Because of the resulting change in weighting which occurred then and has been continued here, the estimates shown may not always be completely comparable with those for the years prior to 1973.

The methods used have been tested against the 1970 census and recent special censuses. A decision on current methodology was made by the Bureau of the Census on the basis of the tests. For a more detailed description of the Federal-State Cooperative Program and an analysis of 1970 test results for methods other than the recently developed 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. The results of a test of the Administrative Records method are presented in *Current Population Reports*, Series P-25, Nos. 546-595.¹

The estimates shown for July 1, 1974, are based on an average of the following methods:

1. **The Regression (ratio-correlation) method.** 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.² 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 elementary ungraded (X_2), and covered employment (X_3). The prediction equation for Washington for the 1970's is given by

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

¹ Results of earlier studies were given in "Use of Administrative Records for Small-Area Population Estimates," by Meyer Zitter and David L. Word; a paper presented at the Annual Meeting of the Population Association of America, New Orleans, Louisiana, April 27, 1974. A copy of this paper can be obtained by writing Chief, Population Division, Bureau of the Census, Washington, D.C. 20233.

² Descriptions of methodologies 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.** This method employs vital statistics to measure natural increase and school enrollment to measure net migration. The estimates made by the Census Bureau's Component Method II are specific to the civilian population under 65. To this population is added an estimate of the population 65 and over based on Medicare statistics and an estimate of the resident military population based on station strength statistics.²

3. **The Administrative Records method.** This newly developed component method uses administrative records (in this instance individual Federal income tax returns) to measure civilian intercounty migration and reported vital statistics to estimate natural increase.³ The tax returns are matched for the successive periods to determine the number of persons whose county of residence changed during the estimating period. A net migration rate based on the number of taxpayers changing residence is derived; this rate is then assumed to apply to the total population. This estimate is made specific to the civilian population under age 65 by excluding from the migration computations data relating to persons 65 years and over. These estimates are then combined with independent estimates of the population 65 and over based on Medicare statistics. The other components of population change—births, deaths, immigration, net movement between the Armed Forces and civilian population, and resident military population—are identical with Component Method II (described above).

The provisional July 1, 1975 estimates were developed by adding the average change between 1974 and 1975 estimates based on Component

² See footnote 2 on page 1.

³ For a discussion of this methodology see Donald E. Starsinic, "Development of Population Estimates for Revenue Sharing Areas," in U.S. Bureau of the Census, *Census Tract Papers*, Series GE-40, No. 10, "Zitter and Word, *op. cit.*, and *Current Population Reports*, Series P-25, Nos. 546-595.

Method II and the Regression method to the 1974 estimates.

The estimates published in this report were controlled to independent estimates of the State population for July 1, 1974 and July 1, 1975 which differ from those previously published in **Current Population Reports**, Series P-25, No. 615. The State estimates shown here reflect differences between population estimates and special census counts at the county level. Counties which have had special censuses since 1970 are footnoted in table 1.

Table 2 of this report 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 report for the other States.

Corresponding estimates for other States in the program will be published as they become available. The appendix table shows reports published to date for States in the 1974-75 series, together with those published earlier in the decade.

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.

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 based on reported vital statistics from April 1, 1970, to December 31, 1974, with extrapolations through June 30, 1975. Net migration is the difference between net change and natural increase.

Table 1. ESTIMATES OF THE POPULATION OF WASHINGTON COUNTIES: JULY 1, 1974 AND 1975

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

COUNTY	JULY 1, 1975 (PROVI- SIONAL)	JULY 1, 1974	APRIL 1, 1970 (CENSUS) ¹	CHANGE, 1970 TO 1975		COMPONENTS OF CHANGE, 1970 TO 1975 ²			
				NUMBER	PERCENT	BIRTHS	DEATHS	NET MIGRATION	
								NUMBER	PERCENT
WASHINGTON.....	3,547,000	3,500,000	3,413,244	134,000	3.9	272,000	158,000	20,000	0.6
ADAMS.....	13,000	12,700	12,014	1,000	8.1	1,300	400	100	0.8
ASOTIN.....	14,800	15,000	13,799	1,000	7.3	1,200	900	700	5.4
BENTON.....	75,800	71,500	67,540	8,300	12.2	5,500	2,400	5,200	7.7
CHELAN.....	40,400	40,200	41,103	-700	-1.8	2,700	2,200	-1,200	-2.9
CLALLAM.....	40,900	39,800	34,770	6,200	17.7	3,100	2,100	5,100	14.7
CLARK.....	153,100	149,500	128,454	24,600	19.2	12,100	6,000	18,500	14.4
COLUMBIA.....	4,600	4,600	4,439	200	3.8	300	300	200	4.7
COWLITZ.....	71,400	70,800	68,616	2,700	4.0	6,200	3,000	500	-0.7
DOUGLAS.....	19,000	18,700	16,787	2,200	13.4	1,200	600	1,700	9.9
FERRY.....	4,500	4,500	3,655	800	22.2	400	200	600	16.3
FRANKLIN.....	26,500	27,000	25,816	700	2.8	2,600	1,000	-900	-3.4
GARFIELD.....	2,800	2,800	2,911	-100	-2.2	200	200	-100	-4.0
GRANT.....	45,300	44,300	41,681	3,400	8.1	3,900	1,700	1,200	2.8
GRAYS HARBOR.....	60,700	60,900	59,553	1,100	1.9	5,000	3,600	-300	-0.5
ISLAND.....	33,200	32,200	27,011	6,200	23.0	3,200	1,100	4,100	15.3
JEFFERSON.....	11,800	11,600	10,661	1,200	11.0	700	600	1,100	10.2
KING.....	1,149,200	1,142,000	1,159,369	-10,100	-0.9	78,600	50,300	-38,400	-3.3
KITSAP ³	116,600	110,200	101,732	14,800	14.6	8,500	4,800	11,200	11.0
KITTITAS.....	25,400	25,900	25,039	400	1.5	1,700	1,000	-300	-1.0
KLICKITAT.....	13,500	13,100	12,138	1,300	10.9	1,100	700	900	7.4
LEWIS.....	48,900	48,100	45,467	3,400	7.5	3,900	2,800	2,300	5.1
LINCOLN.....	9,700	9,500	9,572	100	1.0	600	600	100	0.7
MASON.....	23,600	22,500	20,918	2,700	12.8	1,600	1,100	2,200	10.3
OKANOGAN.....	27,600	26,900	25,867	1,700	6.8	2,300	1,500	900	3.5
PACIFIC.....	16,100	16,100	15,796	300	2.1	1,100	1,100	300	2.0
PEND OREILLE.....	7,500	7,200	6,925	1,500	25.0	600	400	1,300	21.0
PIERCE.....	409,800	404,000	412,344	-2,600	-0.6	35,900	17,700	-20,700	-5.0
SAN JUAN ⁴	5,400	5,100	3,856	1,600	40.5	200	300	1,600	42.0
SKAGIT.....	54,800	53,800	52,381	2,400	4.6	4,100	3,000	1,300	2.5
SKAMANIA.....	5,700	6,100	5,845	-100	-1.8	500	200	-400	-6.0
SNOHOMISH.....	262,500	260,000	265,236	-2,700	-1.0	22,200	10,100	-14,800	-5.6
SPOKANE.....	304,900	305,100	287,487	17,400	6.1	25,300	15,400	7,500	2.6
STEVENS ⁵	22,500	21,500	17,405	5,100	29.1	1,600	1,000	4,500	25.7
THURSTON.....	93,200	89,300	76,894	16,300	21.2	6,900	3,600	13,100	17.0
WAHIAKUM.....	3,700	3,700	3,592	200	4.3	300	200	100	2.3
WALLA WALLA.....	42,500	41,900	42,176	400	0.9	2,800	2,500	100	0.3
WHATCOM.....	90,600	88,900	81,983	8,600	10.5	6,700	4,200	6,200	7.6
WHITMAN.....	41,900	40,900	37,900	4,000	10.6	2,600	1,300	2,700	7.2
YAKIMA.....	153,700	152,100	145,212	8,500	5.9	13,400	7,900	3,000	2.1

¹ 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.

² BIRTHS AND DEATHS ARE BASED ON REPORTED VITAL STATISTICS FROM APRIL 1, 1970 TO DECEMBER 31, 1974, WITH EXTRAPOLATIONS TO JUNE 30, 1975. NET MIGRATION IS THE DIFFERENCE BETWEEN NET CHANGE AND NATURAL INCREASE.

³ THE JULY 1, 1974 AND PROVISIONAL JULY 1, 1975 STATE ESTIMATES SHOWN HERE DIFFER FROM THOSE PRESENTED IN CURRENT POPULATION REPORTS, SERIES P-25, NO. 615. THE JULY 1, 1974 AND PROVISIONAL JULY 1, 1975 ESTIMATES PUBLISHED IN THAT REPORT ARE 3,494,000 AND 3,544,000 RESPECTIVELY. SEE TEXT FOR EXPLANATION.

⁴ 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.

⁵ 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.

⁶ 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.

⁷ 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.

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Table 2. ESTIMATES OF THE POPULATION OF METROPOLITAN AREAS AND THEIR COMPONENT COUNTIES: WASHINGTON, JULY 1, 1974 AND 1975

(SMSA totals rounded independently of county numbers)

STANDARD METROPOLITAN STATISTICAL AREA AND COUNTY	JULY 1, 1975 (PROVISIONAL)	JULY 1, 1974	APRIL 1, 1970 (CENSUS)	CHANGE, 1970 TO 1975		COMPONENTS OF CHANGE, 1970 TO 1975 ¹			
				NUMBER	PERCENT	BIRTHS	DEATHS	NET MIGRATION	
								NUMBER	PERCENT
PORTLAND, OREG.-WASH. (WASH. PORTION).....	153,100	149,500	128,454	24,600	19.2	12,100	6,000	18,500	14.4
CLARK.....	153,100	149,500	128,454	24,600	19.2	12,100	6,000	18,500	14.4
RICHLAND-KENNEWICK, WASH.....	102,300	98,500	93,356	9,000	9.6	8,100	3,500	4,400	4.7
BENTON.....	75,800	71,500	67,540	8,300	12.2	5,500	2,400	5,200	7.7
FRANKLIN.....	26,500	27,000	25,816	700	2.8	2,600	1,000	-900	-3.4
SEATTLE-EVERETT, WASH.....	1,411,700	1,402,000	1,424,605	-12,900	-0.9	100,700	60,400	-53,200	-3.7
KING.....	1,149,200	1,142,000	1,159,369	-10,100	-0.9	78,600	50,300	-38,400	-3.3
SNOHOMISH.....	262,500	260,000	265,236	-2,700	-1.0	22,200	10,100	-14,800	-5.6
SPOKANE, WASH.....	304,900	305,100	287,487	17,400	6.1	25,300	15,400	7,500	2.6
SPOKANE.....	304,900	305,100	287,487	17,400	6.1	25,300	15,400	7,500	2.6
TACOMA, WASH.....	409,800	404,000	412,344	-2,600	-0.6	35,900	17,700	-20,700	-5.0
PIERCE.....	409,800	404,000	412,344	-2,600	-0.6	35,900	17,700	-20,700	-5.0
YAKIMA, WASH.....	153,700	152,100	145,212	8,500	5.9	13,400	7,900	3,000	2.1
YAKIMA.....	153,700	152,100	145,212	8,500	5.9	13,400	7,900	3,000	2.1
METROPOLITAN.....	2,535,600	2,511,200	2,491,458	44,100	1.8	195,500	110,800	-40,600	-1.6
NONMETROPOLITAN.....	1,011,700	988,600	921,786	89,900	9.8	76,200	47,100	60,800	6.6

¹BIRTHS AND DEATHS ARE BASED ON REPORTED VITAL STATISTICS FROM APRIL 1, 1970 TO DECEMBER 31, 1974, WITH EXTRAPOLATIONS TO JUNE 30, 1975. NET MIGRATION IS THE DIFFERENCE BETWEEN NET CHANGE AND NATURAL INCREASE.

APPENDIX

ESTIMATES PUBLISHED IN SERIES P-26 REPORTS 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.*		
	1974 and provisional 1975	1973 and provisional 1974	1972 and provisional 1973		1974 and provisional 1975	1973 and provisional 1974	1972 and provisional 1973
Ala.....		125	76	Mont.....	75-26	109	53
Alaska.....		(²)	(³)	Nebr.....		104	58
Ariz.....	75-3	94	50	Nev.....		117	67
Ark.....		115	70	N. H.....		107	52
Calif.....		119	(³)	N. J.....		135	82
Colo.....		103	62	N. Mex.....		123	85
Conn.....		116	79	N. Y.....		(²)	(³)
Del.....		111	57	N. C.....		114	68
Fla.....		130	90	N. Dak.....		102	60
Ga.....		124	92	Ohio.....		122	80
Hawaii.....	75-11	105	56	Okla.....		112	63
Idaho.....	75-12	106	51	Oreg.....		(²)	74
Ill.....		128	78	Pa.....		136	93
Ind.....		113	75	R. I.....		98	65
Iowa.....		138	72	S. C.....		108	71
Kans.....		129	64	S. Dak.....		101	61
Ky.....	75-17	120	84	Tenn.....		133	83
La.....	75-18	97	54	Tex.....		(²)	(³)
Maine.....	75-19	99	59	Utah.....	75-44	96	55
Md.....		(²)	(³)	Vt.....		95	49
Mass.....		137	91	Va.....		127	88
Mich.....	75-22	110	69	Wash.....	(¹)	(²)	66
Minn.....		132	87	W. Va.....		121	89
Miss.....		131	86	Wis.....		126	81
Mo.....		134	77	Wyo.....		100	73

*County estimates for all States for 1971 and provisional 1972 are published in Series P-25, No. 517.

¹County or county equivalent estimates for 1974 and provisional 1975 are published in Series P-25 for the following State: Washington, No. 624.

²County or county equivalent estimates for 1973 and provisional 1974 are published in Series P-25 for the following States: Maryland, No. 596; Washington, No. 597; New York, No. 599; Oregon, No. 602; and Alaska, No. 604.

³County or county equivalent estimates for 1972 and provisional 1973 are published in Series P-25 for the following States: New York, No. 527; Maryland, No. 530; Alaska, No. 531; California, No. 532; and Texas, No. 535.

COUNTIES, METROPOLITAN AREAS, AND SELECTED PLACES: WASHINGTON

