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ESTIMATES OF THE POPULATION OF MARYLAND 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 Maryland. 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, Nos. 517, 530, and 596. The provisional estimates in the last cited report are superseded by the numbers published here.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, adjusted to agree with the July 1, 1974 State estimate published in Series P-25, No. 615.

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 Maryland are: two-year average of resident births (X_1), two-year average of resident deaths (X_2),

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.

elementary school enrollment in grades 1 through 8 plus elementary special and elementary ungraded (X_3), automobile registrations (X_4), and individual State income tax returns (X_5). The prediction equation for Maryland for the 1970's is given by

$$\hat{Y} = 0.0202 + 0.2202X_1 - 0.0158X_2 + 0.4915X_3 + 0.2411X_4 + 0.0416X_5$$

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).

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.

The provisional July 1, 1975 estimates for large metropolitan counties were developed by adding the average change between 1974 and 1975 estimates based on Component Method II and the Housing Unit method to the 1974 estimates. In the **Housing Unit method** the estimates of the population are based on estimates of the housing inventory. Changes in the housing inventory are derived from data on building permits issued and demolition records, or on data on electric meter connections. The provisional July 1, 1975 estimates for the remaining counties were developed by adding the change between 1974 and 1975 Component Method II estimates to the 1974 estimates. All counties were subsequently adjusted to agree with the provisional July 1, 1975 State estimate published in *Current Population Reports*, Series P-25, No. 615.

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 Anne Arundel, Baltimore, and Prince George's.

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 Maryland Counties: July 1, 1974 and 1975

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

COUNTY	JULY 1, 1975 (PROVISIONAL)	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
MARYLAND.....	4,098,000	4,089,000	3,923,897	174,000	4.4	309,000	173,000	38,000	1.0
ALLEGANY.....	83,000	83,700	84,044	-1,000	-1.2	5,800	5,200	-1,600	-1.9
ANNE ARUNDEL.....	336,600	331,200	298,042	38,600	12.9	24,900	10,300	23,900	8.0
BALTIMORE.....	635,300	630,400	620,409	14,900	2.4	40,800	25,700	-300	(Z)
CALVERT.....	26,200	25,100	20,682	5,500	26.6	2,200	1,100	4,400	21.4
CARROLL.....	21,600	21,100	19,781	1,800	9.3	1,500	1,300	1,700	8.6
CARROLL.....	81,500	79,100	69,006	12,500	18.1	5,400	3,200	10,300	15.0
CECIL.....	55,700	55,200	53,291	2,400	4.4	4,900	2,300	-300	-0.5
CHARLES.....	59,100	58,200	47,678	11,400	23.9	5,100	1,700	8,000	16.8
DORCHESTER.....	29,600	29,400	29,405	200	0.5	2,000	2,100	200	0.8
FREDERICK.....	96,000	93,500	84,927	11,000	13.0	7,000	4,200	8,200	9.6
GARRETT.....	23,400	23,400	21,476	1,900	8.9	1,900	1,200	1,200	5.5
HARFORD.....	135,300	132,600	115,378	19,900	17.3	10,800	3,800	12,900	11.2
HOWARD.....	96,800	89,500	62,394	34,400	55.2	5,800	2,100	30,700	49.2
KENT.....	16,600	16,700	16,146	400	2.6	1,100	1,100	400	2.3
MONTGOMERY.....	564,000	558,000	522,809	41,200	7.9	36,900	17,200	21,500	4.1
PRINCE GEORGE'S.....	678,400	684,600	661,719	16,700	2.5	60,200	18,000	-25,500	-3.9
QUEEN ANNE'S.....	20,000	19,600	18,422	1,500	8.4	1,200	1,100	1,500	7.9
ST. MARY'S.....	49,900	50,700	47,388	2,500	5.3	5,600	1,700	-1,400	-3.0
SOMERSET.....	19,500	19,200	18,924	500	2.8	1,300	1,400	600	3.1
TALBOT.....	25,500	25,000	23,682	1,800	7.7	1,500	1,600	2,000	8.3
WASHINGTON.....	107,300	107,200	103,829	3,400	3.3	7,800	5,200	900	0.8
WICOMICO.....	59,100	58,300	54,236	4,900	9.0	4,300	3,200	3,800	7.0
WORCESTER.....	26,500	26,300	24,442	2,100	8.5	1,900	1,700	1,900	7.7
INDEPENDENT CITY									
BALTIMORE.....	851,500	871,300	905,787	-54,300	-6.0	69,100	56,500	-66,800	-7.4

Z LESS THAN 50 PERSONS OR LESS THAN 0.05 PERCENT.

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 MARYLAND WAS 3,922,399.

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.

Table 2. Estimates of the Population of Metropolitan Areas and Their Component Counties: Maryland, 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
BALTIMORE, MD.....	2,136,900	2,134,100	2,071,016	65,900	3.2	156,800	101,600	10,700	0.5
ANNE ARUNDEL.....	336,600	331,200	298,042	38,600	12.9	24,900	10,300	23,900	8.0
BALTIMORE.....	635,300	630,400	620,409	14,900	2.4	40,800	25,700	-300	(Z)
CARROLL.....	81,500	79,100	69,006	12,500	18.1	5,400	3,200	10,300	15.0
HARFORD.....	135,300	132,600	115,378	19,900	17.3	10,800	3,800	12,900	11.2
HOWARD.....	96,800	89,500	62,394	34,400	55.2	5,800	2,100	30,700	49.2
BALTIMORE.....	851,500	871,300	905,787	-54,300	-6.0	69,100	56,500	-66,800	-7.4
WASHINGTON, D.C.-MD.-VA. (MD. PORTION).....	1,301,500	1,300,800	1,232,206	69,300	5.6	102,200	36,900	4,000	0.3
CHARLES.....	59,100	58,200	47,678	11,400	23.9	5,100	1,700	8,000	16.8
MONTGOMERY.....	564,000	558,000	522,809	41,200	7.9	36,900	17,200	21,500	4.1
PRINCE GEORGE'S.....	678,400	684,600	661,719	16,700	2.5	60,200	18,000	-25,500	-3.9
WILMINGTON, DEL.-N.J.-MD. (MD. PORTION).....	55,700	55,200	53,291	2,400	4.4	4,900	2,300	-300	-0.5
CECIL.....	55,700	55,200	53,291	2,400	4.4	4,900	2,300	-300	-0.5
METROPOLITAN.....	3,494,100	3,490,100	3,356,513	137,600	4.1	263,800	140,700	14,400	0.4
NONMETROPOLITAN.....	604,100	599,300	567,384	36,700	6.5	45,100	32,000	23,600	4.2

Z LESS THAN 50 PERSONS OR LESS THAN 0.05 PERCENT.

¹ 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.

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.....	75-27	104	58
Ariz.....	75-3	94	50	Nev.....		117	67
Ark.....	75-4	115	70	N. H.....		107	52
Calif.....	75-5	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.....	75-33	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.....	75-41	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.....	(¹)	(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.....	75-49	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 States: Washington, No. 624; and Maryland, No. 629.

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; Alaska, No. 604; and Texas, No. 609.

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: MARYLAND

