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Population Estimates and Projections

Estimates of the Population of Alaska Census Divisions 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 census divisions and metropolitan areas in Alaska. 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.

Census division 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 The provisional estimates in the last cited report are superseded by the numbers published here.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 Alaska are: school enrollment in grades 1 through 8 plus elementary special and ungraded enrollment (X_1), and a 3-year average of resident births (X_2). The prediction equation used for Alaska is given by

$$\hat{Y} = 0.2087 + 0.5125X_1 + 0.3309X_2$$

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 based on the change in Medicare enrollees from 1970 to

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.

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 intercensus division 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 census division 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 estimate for Anchorage census division was developed by adding to the 1977 estimates, the average change between the 1977 and 1978 Component Method II estimates and the corresponding Housing Unit method estimates. In the **Housing Unit method**, the estimates of the population are based on changes in the housing inventory that are derived from data

on building permits issued and demolition records, or on electric meter connections. The provisional July 1, 1978 estimates for the remaining census divisions were developed by adding the change between 1977 and 1978 Component Method II estimates to the 1977 estimates. All census divisions were subsequently adjusted to agree with the provisional July 1, 1978 State estimate.

Table 2 presents estimates of the population of the Anchorage metropolitan area. The titles and definitions of 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 census divisions shown in the tables reflect all corrections to the census count made subsequent to the release of the official State figure. The only census division with a correction of more than 500 is the Anchorage census division.

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 Alaska Census Divisions: July 1, 1977 and 1978

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

CENSUS DIVISION	JULY 1, 1978 (PROVI- SIONAL)	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
ALASKA.....	403,000	413,000	302,583	110,000	36.3	53,000	11,000	68,000	22.4
ALEUTIAN ISLANDS.....	7,400	8,000	8,221	-200	-2.3	900	200	-1,000	-11.9
ANCHORAGE.....	179,800	182,000	126,385	55,600	44.0	23,400	3,600	35,800	28.3
ANGOOK.....	900	800	503	300	57.5	100	(Z)	300	50.7
BARROW-NORTH SLOPE.....	4,400	4,600	3,451	1,100	32.3	500	100	800	23.1
BETHEL.....	9,200	9,900	7,767	2,100	26.9	1,500	300	900	11.4
BRISTOL BAY BOROUGH.....	1,300	1,300	1,147	200	15.3	100	(Z)	100	9.6
BRISTOL BAY.....	4,100	4,200	3,485	700	21.5	600	200	400	10.2
CORDOVA-MCCARTHY.....	2,300	2,500	1,857	600	33.8	200	100	500	27.2
FAIRBANKS.....	52,600	56,100	45,864	10,200	22.3	8,700	1,300	2,800	6.1
HAINES.....	1,700	2,000	1,504	500	31.6	200	100	400	24.0
JUNEAU.....	18,800	19,000	13,556	5,500	40.3	2,000	600	4,100	30.3
KENAI-COOK INLET ³	22,300	21,300	14,250	7,000	49.5	2,200	500	5,300	37.2
KETCHIKAN.....	10,400	11,300	10,041	1,300	13.0	1,500	500	300	3.2
KOBUK.....	4,600	4,900	4,048	800	20.8	900	200	200	4.2
KODIAK.....	9,300	10,100	9,409	700	7.4	1,600	300	700	-6.2
KUSKOKWIM.....	3,000	2,900	2,306	600	24.0	400	100	300	14.6
MATANUSKA-SUSITNA.....	16,100	14,800	6,509	8,200	126.6	1,200	400	7,400	114.2
NOME.....	6,700	7,000	5,749	1,300	21.9	1,100	400	500	9.3
OUTER KETCHIKAN.....	1,400	1,800	1,676	100	8.8	300	100	(Z)	-2.3
PRINCE OF WALES.....	3,200	2,900	2,106	800	38.9	200	100	700	31.8
SEWARD ⁴	3,100	3,000	2,336	600	27.4	300	200	500	20.4
SITKA.....	7,500	7,700	6,109	1,500	25.3	900	300	900	15.1
SKAGWAY-YAKUTAT.....	3,100	2,800	2,157	700	31.2	300	100	500	21.6
SOUTHEAST FAIRBANKS.....	4,900	5,300	4,179	1,100	26.8	800	100	400	10.6
UPPER YUKON.....	1,400	1,600	1,282	300	26.2	200	100	200	14.8
VALDEZ-CHITINA-WHITTIER.....	7,400	8,200	3,098	5,100	165.9	600	200	4,700	152.6
WADE HAMPTON.....	4,700	4,900	3,917	1,000	25.4	800	200	300	8.0
WRANGELL-PETERSBURG.....	5,700	5,800	4,913	900	18.4	800	300	400	7.9
YUKON-KOYUKUK.....	5,400	5,900	4,758	1,100	23.5	700	200	700	14.4

² 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 ALASKA WAS 302,173.² 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.³ THE POPULATION OF KENAI-COOK INLET CENSUS DIVISION, AS COUNTED IN THE SPECIAL CENSUS ON JULY 13, 1978, WAS 22,271. THE ESTIMATES SHOWN HERE HAVE BEEN ADJUSTED TO REFLECT THIS COUNT.⁴ THE POPULATION OF SEWARD CENSUS DIVISION, AS COUNTED IN THE SPECIAL CENSUS ON JULY 13, 1978, WAS 3,064. THE ESTIMATES SHOWN HERE HAVE BEEN ADJUSTED TO REFLECT THIS COUNT.

Table 2. Estimates of the Population of Metropolitan Areas and Their Component Census Divisions: Alaska, July 1, 1977 and 1978

(SMSA TOTALS ROUNDED INDEPENDENTLY OF CENSUS DIVISION NUMBERS)

STANDARD METROPOLITAN STATISTICAL AREA AND CENSUS DIVISION	JULY 1, 1978 (PROVI- SIONAL)	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
ANCHORAGE.....	179,800	182,000	126,385	55,600	44.0	23,400	3,600	35,800	28.3
ANCHORAGE.....	179,800	182,000	126,385	55,600	44.0	23,400	3,600	35,800	28.3
METROPOLITAN.....	179,800	182,000	126,385	55,600	44.0	23,400	3,600	35,800	28.3
NONMETROPOLITAN.....	222,900	230,600	176,198	54,400	30.9	29,700	7,200	31,900	18.1

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 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.....	(¹)	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.....	78-34	77-34	76-34
Georgia.....		77-10	76-10	Ohio.....		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.....	78-14	77-14	76-14	Rhode Island.....	78-39	77-39	76-39
Iowa.....	78-15	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.....	78-20	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.....	78-25	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; Alaska, No. 866.

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.

