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CURRENT POPULATION REPORTS

FEDERAL-STATE COOPERATIVE PROGRAM FOR

Population Estimates

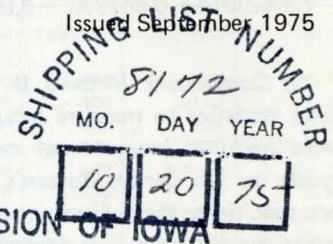


U.S. DEPARTMENT OF COMMERCE / Bureau of the Census

Series P-26, No. 138

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ESTIMATES OF THE POPULATION OF IOWA COUNTIES AND METROPOLITAN AREAS: JULY 1, 1973 AND 1974

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This report presents population estimates for July 1, 1973 and provisional estimates for July 1, 1974, for counties and metropolitan areas prepared under the auspices of the Federal-State Cooperative Program for Local Population Estimates. The objective of this program is the development and publication of estimates of the population of counties using uniform procedures largely standardized for data input and methodology. The estimates shown here were prepared jointly by the Bureau of the Census and the Division of Records and Statistics, Iowa State Department of Health and the Office of Planning and Programming. The latter agency was designated by the Governor to work with the Bureau of the Census in implementing and carrying out the Federal-State Cooperative Program.

County estimates for July 1, 1971, July 1, 1972, and provisional estimates for July 1, 1973, were published earlier in **Current Population Reports**, Series P-26, Nos. 31 and 72. The provisional estimates in the last report are superseded by the numbers published here.

This report introduces an additional estimating procedure using administrative records, made possible by the availability of a new data source. Because of the resultant change in weighting of methods and changes in input data in other methods used, estimates shown here may not always be comparable with those for the earlier years.

The methods used have been tested against the 1970 census and recent special censuses. A decision on

current methodology was made jointly by the individual States and the Bureau of the Census on the basis of the tests. For a more detailed description of the 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. Results of a test of the Administrative Records method are presented in **Current Population Reports**, Series P-25, No. 560.¹

The estimates shown for July 1, 1973, are based on an average of the following methods, adjusted to agree with the July 1, 1973 State estimate published in Series P-25, No. 533.

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

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 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.

of data used in the Regression method for Iowa are: automobile registrations (X_1), two-year average of resident births (X_2), two-year average of resident deaths (X_3), and elementary school enrollment in grades 1 through 8 plus elementary special and elementary ungraded. The prediction equation for Iowa for the 1970's is given by

$$\hat{Y} = 0.0014 + 0.8577X_1 + 0.0346X_2 + 0.0470X_3 + 0.0586X_4$$

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, 1974 estimates for large metropolitan counties were developed by adding the average change between 1973 and 1974 estimates based on Component Method II and the Housing Unit method to the 1973 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, 1974 estimates for the remaining counties were developed by adding the change between 1973 and 1974 Component Method II estimates to the 1973 estimates. All counties were subsequently adjusted to agree with the provisional July 1, 1974 State estimate published in **Current Population Reports, Series P-25, No. 533.**

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.

The 1973 estimates published in this report represent revisions to county estimates shown in **Current Population Reports, Series P-25, No. 560.** They reflect more current data on population change than were available at the time that the Series P-25 report was prepared. The estimates for counties, incorporated places, and other general purpose governments published in the Series P-25 report were used as the basis for the distribution of funds under the State and Local Fiscal Assistance Act of 1972. See that report for a description of methods, assumptions, and limitations of the estimates.

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 1973-74 series, together with those published earlier in the decade.

The 1970 census total for the State shown on the table may differ slightly from the sum of the counties because of corrections made subsequent to the release of the official State figure. All county populations for 1970 reflect the most recent corrections in the census count.

The estimates presented in the tables 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.

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;** and Zitter and Word, *op cit.*

**Table 1. ESTIMATES OF THE POPULATION OF IOWA COUNTIES:
JULY 1, 1973 AND JULY 1, 1974**

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

County	July 1, 1974 (provi- sional)	July 1, 1973	April 1, 1970 (census) ¹	Change, 1970 to 1974		Components of change, 1970 to 1974 ²			
				Number	Percent	Births	Deaths	Net migration	
								Number	Percent
Iowa.....	2,855,000	2,863,000	2,825,041	30,000	1.0	181,000	125,000	-26,000	-0.9
Adair.....	9,200	9,700	9,487	-300	-3.0	500	500	-300	-2.7
Adams.....	6,200	6,200	6,322	-200	-2.5	300	400	-100	-1.2
Allamakee.....	15,100	15,200	14,968	100	0.9	900	800	(Z)	0.2
Appanoose.....	14,400	15,000	15,007	-600	-4.1	900	1,000	-500	-3.2
Audubon.....	9,200	9,200	9,595	-400	-4.6	400	500	-400	-4.2
Benton.....	23,200	23,200	22,885	400	1.6	1,300	1,100	200	0.8
Black Hawk.....	132,400	134,100	132,916	-600	-0.4	8,700	4,800	-4,500	-3.4
Boone.....	26,100	27,000	26,470	-400	-1.4	1,400	1,400	-400	-1.5
Bremer.....	24,100	23,500	22,737	1,400	6.0	1,400	900	900	3.8
Buchanan.....	22,400	22,100	21,762	600	2.8	1,500	1,000	100	0.5
Buena Vista.....	20,700	20,900	20,693	(Z)	-0.2	1,200	1,000	-200	-1.2
Butler.....	17,100	17,200	16,953	200	1.1	1,000	800	(Z)	(Z)
Calhoun.....	13,700	14,000	14,292	-600	-4.2	700	800	-500	-3.8
Carroll.....	23,500	23,300	22,912	600	2.7	1,400	1,100	300	1.5
Cass.....	16,700	17,200	17,007	-300	-1.6	1,000	1,100	-200	-1.0
Cedar.....	17,400	17,800	17,655	-200	-1.3	1,000	800	-400	-2.2
Cerro Gordo.....	49,700	49,500	49,223	500	1.0	2,900	2,300	-200	-0.4
Cherokee.....	16,500	17,200	17,269	-800	-4.6	1,000	800	-1,000	-5.8
Chickasaw.....	15,000	15,000	14,969	100	0.5	1,000	700	-200	-1.5
Clarke.....	7,800	7,800	7,581	200	2.5	400	500	200	3.0
Clay.....	18,500	18,500	18,464	100	0.4	1,100	800	-100	-0.8
Clayton.....	20,600	20,800	20,606	(Z)	-0.2	1,300	1,100	-300	-1.4
Clinton.....	57,500	56,900	56,749	700	1.3	3,800	2,600	-400	-0.7
Crawford.....	18,500	18,600	19,116	-600	-3.3	1,300	900	-1,000	-5.4
Dallas.....	27,600	26,900	26,085	1,500	5.9	1,700	1,300	1,200	4.5
Davis.....	8,700	8,400	8,207	500	5.7	500	500	400	5.1
Decatur.....	9,800	9,600	9,737	(Z)	0.3	500	600	100	1.3
Delaware.....	18,800	19,100	18,770	(Z)	-0.1	1,300	800	-400	-2.4
Des Moines.....	45,800	45,600	46,982	-1,200	-2.6	2,800	2,200	-1,900	-3.9
Dickinson.....	13,300	13,100	12,565	800	6.0	700	600	600	5.0
Dubuque.....	91,600	93,800	90,609	1,000	1.1	6,800	3,500	-2,300	-2.5
Emmet.....	13,500	13,900	14,009	-500	-3.4	900	700	-700	-5.1
Fayette.....	25,800	26,500	26,898	-1,100	-3.9	1,500	1,300	-1,300	-4.7
Floyd.....	20,000	19,800	19,860	100	0.6	1,200	1,000	-100	-0.4
Franklin.....	13,300	13,100	13,255	(Z)	0.3	700	700	100	0.7
Fremont.....	9,500	9,400	9,282	200	2.6	500	600	300	3.3
Greene.....	12,200	12,400	12,716	-500	-3.7	700	700	-400	-3.2
Grundy.....	14,300	14,100	14,119	200	1.6	700	600	100	0.5
Guthrie.....	12,500	12,500	12,243	300	2.2	600	700	300	2.4
Hamilton.....	17,700	18,300	18,383	-700	-3.6	1,000	800	-900	-4.7
Hancock.....	13,200	13,700	13,506	-300	-2.1	900	600	-500	-3.9
Hardin.....	22,300	22,100	22,248	(Z)	0.1	1,200	1,100	(Z)	-0.1
Harrison.....	16,600	16,800	16,240	300	2.0	1,000	900	300	1.6
Henry.....	18,000	17,900	18,114	-200	-0.9	1,000	900	-300	-1.7
Howard.....	11,400	11,300	11,442	-100	-0.7	600	600	(Z)	-0.4
Humboldt.....	12,300	12,600	12,519	-200	-1.4	700	500	-300	-2.2
Ida.....	9,100	9,300	9,283	-200	-1.9	500	500	-100	-1.3
Iowa.....	15,300	15,700	15,419	-200	-1.0	900	700	-300	-2.0
Jackson.....	21,600	21,400	20,839	800	3.7	1,500	1,000	300	1.4
Jasper.....	36,000	36,600	35,425	500	1.5	2,200	1,500	-200	-0.4

See footnotes at end of table.

**Table 1. ESTIMATES OF THE POPULATION OF IOWA COUNTIES:
JULY 1, 1973 AND JULY 1, 1974—Continued**

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

County	July 1, 1974 (provi- sional)	July 1, 1973	April 1, 1970 (census) ¹	Change, 1970 to 1974		Components of change, 1970 to 1974 ²			
				Number	Percent	Births	Deaths	Net migration	
								Number	Percent
Jefferson.....	14,200	15,500	15,774	-1,500	-9.8	900	700	-1,700	-11.1
Johnson ³	73,900	73,500	72,127	1,700	2.4	4,900	1,700	-1,500	-2.0
Jones.....	19,300	19,600	19,868	-500	-2.6	1,200	900	-800	-4.1
Keokuk.....	13,500	13,900	13,943	-400	-2.9	700	900	-300	-2.1
Kossuth.....	22,500	23,000	22,937	-400	-1.8	1,300	1,000	-800	-3.4
Lee.....	43,100	42,400	42,996	100	0.1	2,600	2,300	-300	-0.7
Linn.....	164,600	164,600	163,213	1,400	0.9	11,500	5,800	-4,400	-2.7
Louisa.....	11,000	11,000	10,682	300	2.6	700	500	100	1.0
Lucas.....	10,200	10,400	10,163	100	0.8	600	700	200	1.9
Lyon.....	13,600	13,600	13,340	200	1.8	800	500	-100	-0.6
Madison.....	12,300	12,200	11,558	700	6.3	700	700	700	5.9
Mahaska.....	22,300	22,400	22,177	100	0.7	1,300	1,300	100	0.2
Marion.....	27,100	26,800	26,352	700	2.8	1,500	1,200	500	1.8
Marshall.....	42,000	42,100	41,076	900	2.2	2,800	1,700	-200	-0.4
Mills.....	12,900	12,300	11,832	1,100	9.4	800	600	900	7.5
Mitchell.....	12,600	12,800	13,108	-500	-3.9	700	600	-600	-4.5
Monona.....	11,900	12,000	12,069	-100	-1.2	700	700	-100	-0.7
Monroe.....	9,400	9,400	9,357	(Z)	-0.1	500	600	100	1.1
Montgomery.....	13,000	13,000	12,781	200	1.8	800	800	300	2.3
Muscatine.....	38,600	38,200	37,181	1,400	3.8	2,700	1,700	500	1.2
O'Brien.....	17,800	17,500	17,522	200	1.4	1,000	900	200	1.2
Osceola.....	8,400	8,500	8,555	-200	-1.8	500	400	-300	-3.1
Page.....	19,100	18,900	18,537	600	3.0	1,100	1,100	600	3.4
Palo Alto.....	13,500	13,300	13,289	200	1.4	800	700	100	0.8
Plymouth.....	24,100	24,000	24,322	-200	-0.9	1,500	1,000	-700	-2.9
Pocahontas.....	11,900	12,100	12,793	-900	-6.7	700	600	-900	-7.2
Polk.....	297,600	296,700	286,130	11,500	4.0	20,500	11,200	2,200	0.8
Pottawattamie.....	86,900	87,500	86,991	-100	-0.1	6,300	3,400	-2,900	-3.3
Poweshiek.....	20,000	19,400	18,803	1,200	6.6	1,100	900	1,100	5.7
Ringgold.....	6,200	6,300	6,373	-100	-2.3	300	400	-100	-1.4
Sac.....	15,100	15,300	15,573	-500	-3.3	800	800	-500	-3.0
Scott.....	147,400	145,600	142,687	4,700	3.3	10,600	5,500	-400	-0.3
Shelby.....	15,300	15,700	15,528	-200	-1.3	900	700	-400	-2.8
Sioux.....	28,700	28,600	27,996	700	2.4	1,900	1,100	-100	-0.5
Story.....	65,900	65,900	62,783	3,100	4.9	3,900	1,800	1,000	1.6
Tama.....	20,200	20,200	20,147	100	0.3	1,100	1,100	(Z)	-0.1
Taylor.....	8,200	8,600	8,790	-600	-7.2	400	600	-400	-5.0
Union.....	13,500	13,500	13,557	-100	-0.5	800	900	(Z)	-0.2
Van Buren.....	8,700	8,600	8,643	100	1.2	400	600	200	2.8
Wapello.....	41,400	42,100	42,149	-800	-1.8	2,400	2,200	-1,000	-2.3
Warren.....	30,800	30,600	27,432	3,400	12.4	2,200	900	2,100	7.8
Washington.....	19,200	19,000	18,967	200	1.0	1,200	900	-100	-0.4
Wayne.....	8,700	8,500	8,405	300	3.5	400	600	500	6.2
Webster.....	47,200	47,600	48,391	-1,200	-2.5	2,900	2,000	-2,100	-4.3
Winnebago.....	14,100	14,100	12,990	1,100	8.5	800	600	1,000	7.4
Winneshiek.....	21,900	22,000	21,758	200	0.9	1,200	900	-100	-0.3
Woodbury.....	103,800	104,200	103,052	700	0.7	7,400	4,700	-2,000	-2.0
Worth.....	8,600	9,000	8,984	-400	-4.2	500	500	-400	-3.9
Wright.....	16,700	17,200	17,294	-500	-3.2	800	900	-500	-2.9

Z Less than 50 persons or less than 0.05 percent.

¹Total does not agree with the sum of the counties due to corrections made to the county populations after release of the official State counts.

²Births and deaths are based on reported vital statistics from April 1, 1970, to December 31, 1973, with extrapolations to June 30, 1974. Net migration is the difference between net change and natural increase.

³The population of Johnson County, as counted in the special census on September 20, 1974, was 75,025. The estimates shown here have been adjusted to reflect this count.

Table 2. ESTIMATES OF THE POPULATION OF METROPOLITAN AREAS AND THEIR COMPONENT COUNTIES: IOWA, JULY 1, 1973 AND 1974

(SMSA totals rounded independently of county numbers)

Standard metropolitan statistical area and county	July 1, 1974 (provisional)	July 1, 1973	April 1, 1970 (census)	Change, 1970 to 1974		Components of change, 1970 to 1974 ¹			
				Number	Percent	Births	Deaths	Net migration	
								Number	Percent
CEDAR RAPIDS, IOWA.....	164,600	164,600	163,213	1,400	0.9	11,500	5,800	-4,400	-2.7
Linn.....	164,600	164,600	163,213	1,400	0.9	11,500	5,800	-4,400	-2.7
DAVENPORT-ROCK ISLAND-MOLINE, IOWA-ILL. (Iowa portion).....	147,400	145,600	142,687	4,700	3.3	10,600	5,500	-400	-0.3
Scott.....	147,400	145,600	142,687	4,700	3.3	10,600	5,500	-400	-0.3
DES MOINES, IOWA.....	328,400	327,300	313,562	14,900	4.7	22,700	12,100	4,300	1.4
Polk.....	297,600	296,700	286,130	11,500	4.0	20,500	11,200	2,200	0.8
Warren.....	30,800	30,600	27,432	3,400	12.4	2,200	900	2,100	7.8
DUBUQUE, IOWA.....	91,600	93,800	90,609	1,000	1.1	6,800	3,500	-2,300	-2.5
Dubuque.....	91,600	93,800	90,609	1,000	1.1	6,800	3,500	-2,300	-2.5
OMAHA, NEBR.-IOWA (Iowa portion).....	86,900	87,500	86,991	-100	-0.1	6,300	3,400	-2,900	-3.3
Pottawattamie.....	86,900	87,500	86,991	-100	-0.1	6,300	3,400	-2,900	-3.3
SIOUX CITY, IOWA-NEBR. (Iowa portion).....	103,800	104,200	103,052	700	0.7	7,400	4,700	-2,000	-2.0
Woodbury.....	103,800	104,200	103,052	700	0.7	7,400	4,700	-2,000	-2.0
WATERLOO-CEDAR FALLS, IOWA	132,400	134,100	132,916	-600	-0.4	8,700	4,800	-4,500	-3.4
Black Hawk.....	132,400	134,100	132,916	-600	-0.4	8,700	4,800	-4,500	-3.4

¹Births and deaths are based on reported vital statistics from April 1, 1970, to December 31, 1973, with extrapolations to June 30, 1974. 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.		
	1973 and provisional 1974	1972 and provisional 1973	1971 and provisional 1972		1973 and provisional 1974	1972 and provisional 1973	1971 and provisional 1972
Ala.....	125	76	48	Mont.....	109	53	19
Alaska.....	(¹)	(²)	(³)	Nebr.....	104	58	25
Ariz.....	94	50	*11	Nev.....	117	67	29
Ark.....	115	70	33	N. H.....	107	52	18
Calif.....	119	(²)	*41	N. J.....	135	82	20
Colo.....	103	62	17	N. Mex.....	123	85	(³)
Conn.....	116	79	(³)	N. Y.....	(¹)	(²)	(³)
Del.....	111	57	15	N. C.....	114	68	44
Fla.....	130	90	46	N. Dak.....	102	60	(³)
Ga.....	124	92	37	Ohio.....	122	80	*40
Hawaii.....	105	56	23	Okla.....	112	63	24
Idaho.....	106	51	9	Oreg.....	(¹)	74	(³)
Ill.....	128	78	27	Pa.....	136	93	*39
Ind.....	113	75	14	R. I.....	98	65	22
Iowa.....	138	72	31	S. C.....	108	71	34
Kans.....	129	64	43	S. Dak.....	101	61	*12
Ky.....	120	84	35	Tenn.....	133	83	47
La.....	97	54	*16	Tex.....	(¹)	(²)	(³)
Maine.....	99	59	28	Utah.....	96	55	10
Md.....	(¹)	(²)	(³)	Vt.....	95	49	*13
Mass.....	137	91	42	Va.....	127	88	36
Mich.....	110	69	32	Wash.....	(¹)	66	(³)
Minn.....	132	87	38	W. Va.....	121	89	30
Miss.....	131	86	(³)	Wis.....	126	81	26
Mo.....	134	77	45	Wyo.....	100	73	(³)

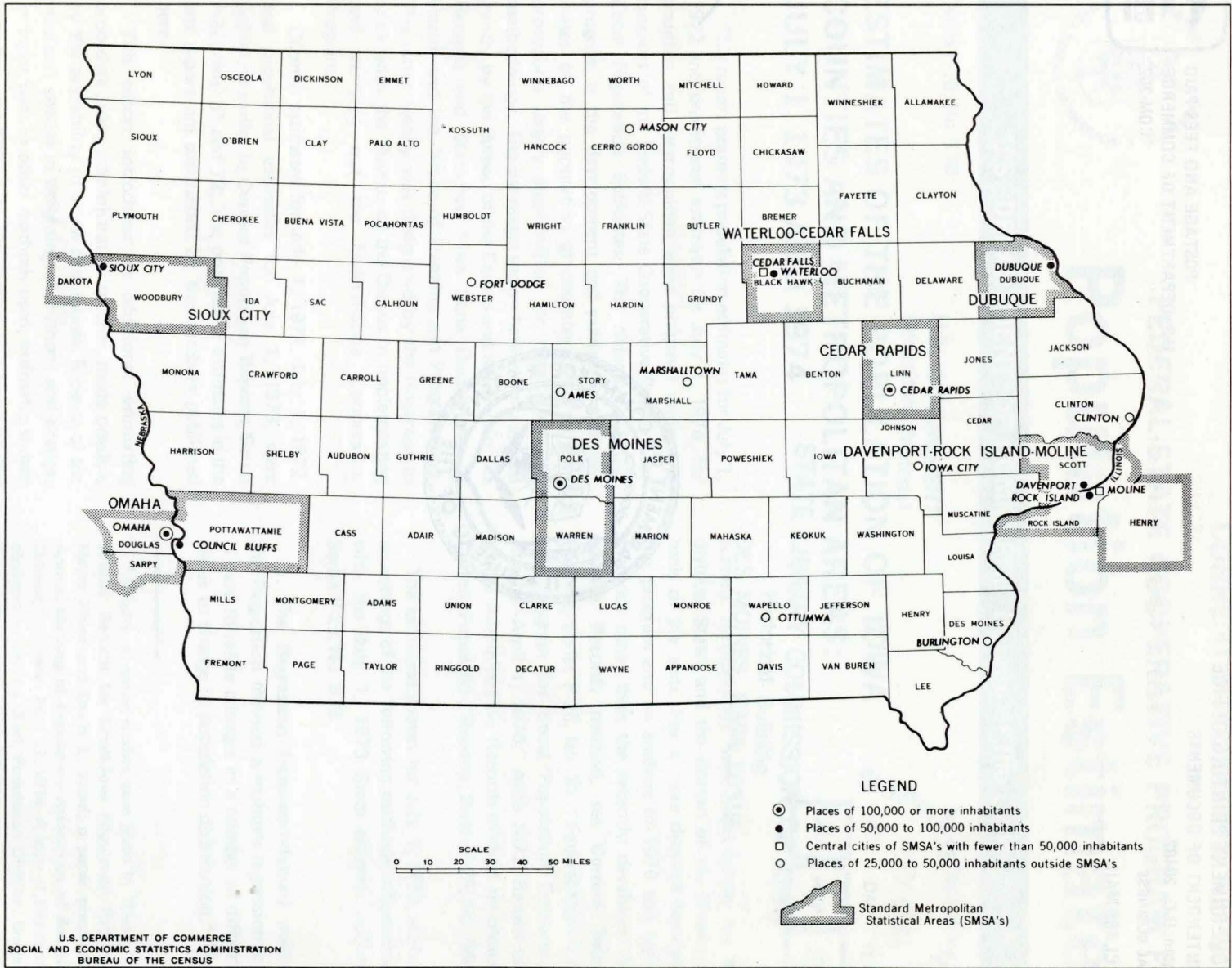
*First year only. For second year, see Series P-25, No. 517.

¹County 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.

²County or county equivalent estimates for 1972 and provisional 1973 are published in Series P-25 for the following States: Alaska, No. 531; California, No. 532; Maryland, No. 530; New York, No. 527; and Texas, No. 535.

³County estimates for this State for 1971 and provisional 1972 are published in Series P-25, No. 517.

COUNTIES, METROPOLITAN AREAS, AND SELECTED PLACES: IOWA



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