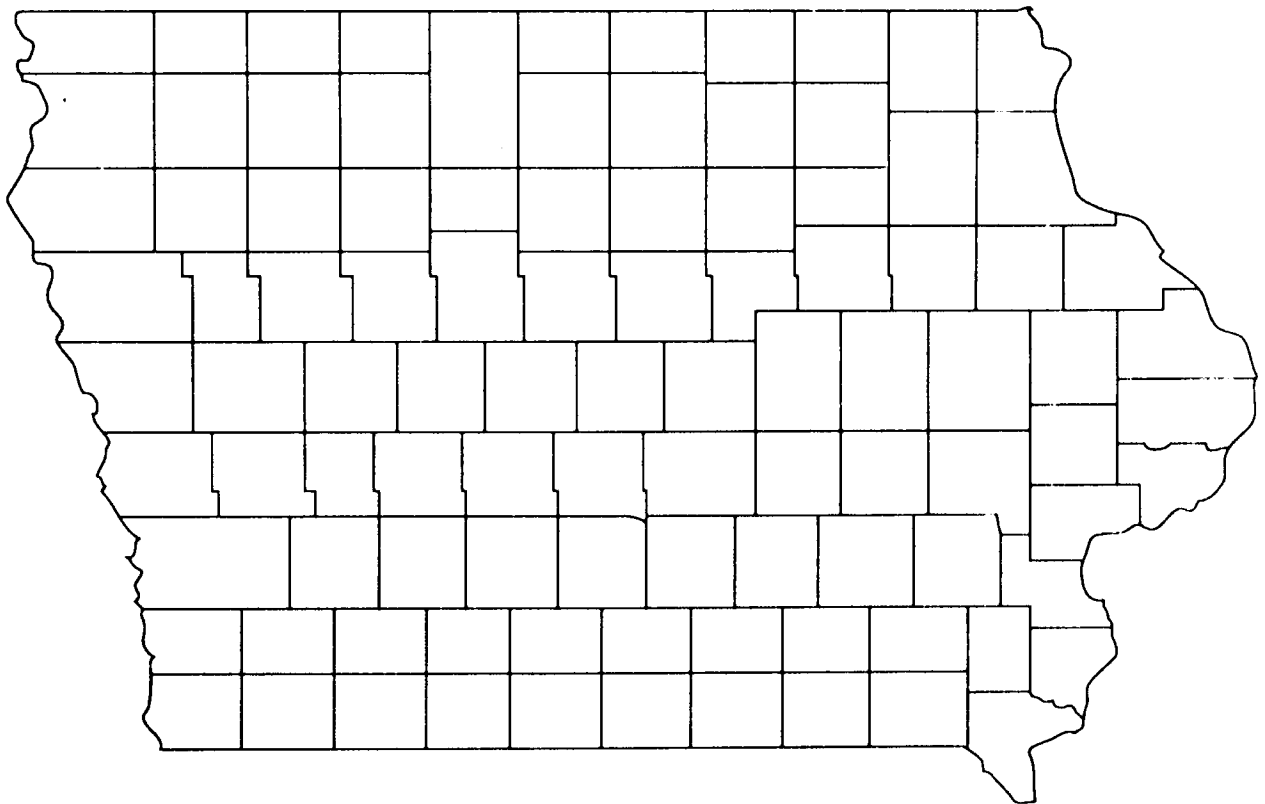




Iowa's Counties:

Selected Population Trends, Vital Statistics, and Socioeconomic Data

1989 Edition



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Introduction

Willis Goudy, Iowa State University
Sandra Charvat Burke, Iowa State University

What are the latest estimates of the population in Iowa's counties? What are the trends in births and deaths in counties in the eastern part of the state? What's been the trend in farm numbers and size in the western counties? The reports that follow attempt to provide the latest data so that these and similar questions can be answered.

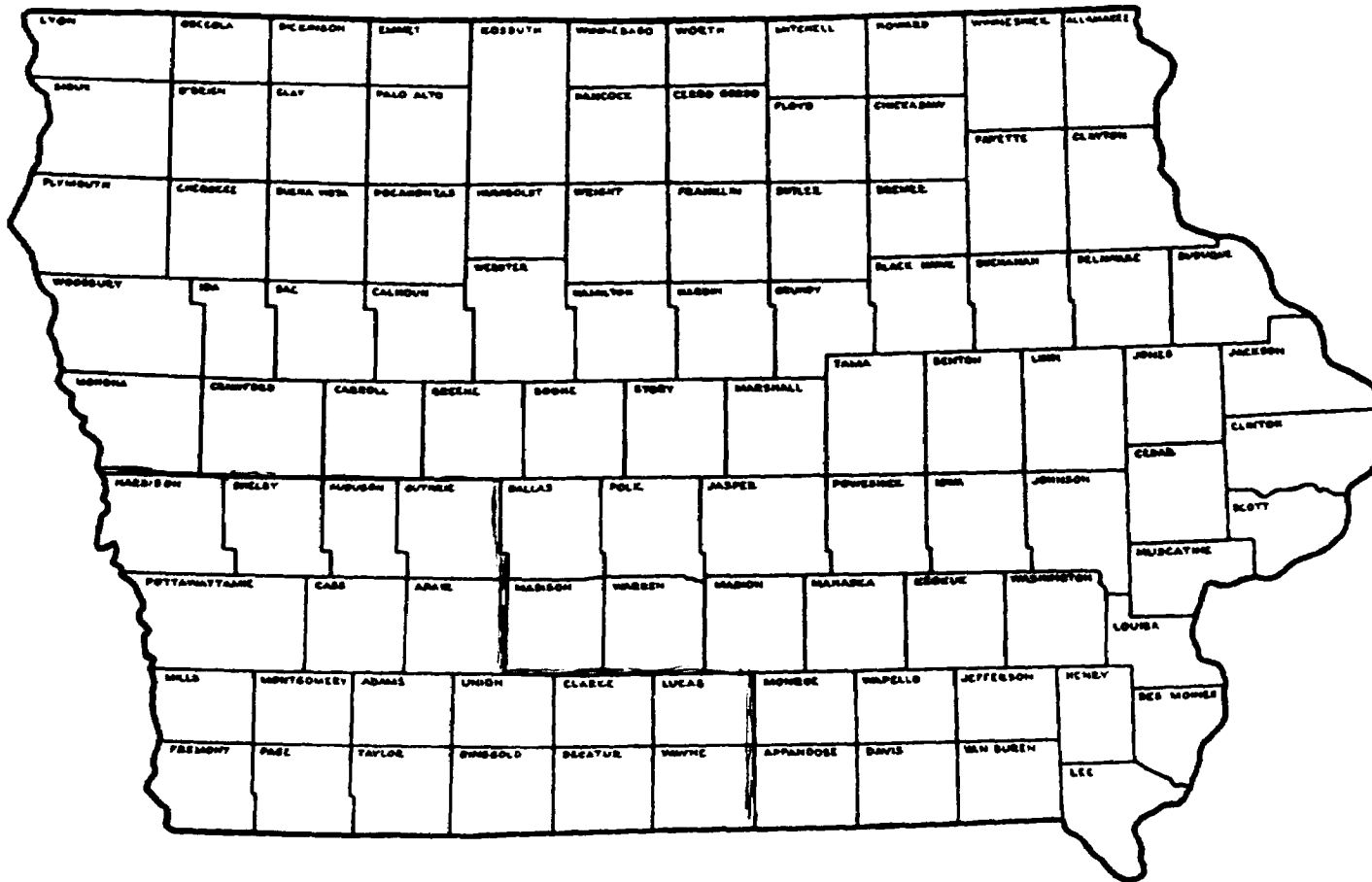
Census Services at Iowa State University has disseminated data from a variety of sources since 1983. We began publishing reports based on the data from the 1980 and earlier censuses. Because of requests for information not included in the decennial censuses, we started to work with data from other state and federal agencies. In this volume, we have gathered data from varied sources to serve as a reference for demographic and socioeconomic change in Iowa's counties. We've focused on the 1980s for the most part, although one section traces population back to 1850 while another projects it to 2010.

Each data set is accompanied by a commentary that provides a brief analysis of trends. Definitions are provided where necessary, as well as notes of caution and an indication of the source of the data. For assistance in locating counties mentioned in the text, a map is included on page 2.

We plan this to be an annual volume, with data sets added as they become available. Suggestions on data that would be useful would be appreciated. So would comments on this edition. There are from 400 to 4,400 numbers in each of the reports in this volume; indeed, there are more than 34,000 numbers in the pages that follow. Although they have been checked and rechecked, it is possible that some are incorrect. Please inform us of any discrepancies from published documents so that they can be corrected in the next edition of this volume.

Census Services is located at 320 East Hall, Department of Sociology and Anthropology, Iowa State University, Ames, IA 50011. We can be reached at 515-294-8337.

Note: Renea Miller entered and verified on a microcomputer much of the data reported in this volume. In addition, she is our expert at using a word processing system to construct tables and format text. We are delighted that, among her other duties, she is the clerk-typist for Census Services.



Estimated Population in Iowa's Counties:

1980-1988

Willis Goudy, Iowa State University
Sandra Charvat Burke, Iowa State University

The U.S. Bureau of the Census annually estimates the population of all states and counties. Iowa's population increased by 11,000 from 1987 to 1988, which was only the second estimated increase this decade (Table 1). From the last census (April 1, 1980) to July 1, 1988, Iowa is estimated to have declined by about 79,800 residents (or 2.7%).

Since 1980, 12 counties (Clarke, Dallas, Jefferson, Johnson, Linn, Madison, Marion, Muscatine, Polk, Pottawattamie, Warren, Winneshiek) are estimated to have gained population. By far the greatest increase (21,500) occurred in Polk. The next highest gain was about 5,000 in Johnson. Only three other counties (Linn, 1,700; Pottawattamie, 1,400; Warren, 1,800) gained at least 1,000 residents from 1980 through 1988. Percentage increases ranged from less than one point in three counties (Clarke, Madison, Winneshiek) to at least five points in three others (Johnson, Polk, Warren).

Declines occurred in 87 counties when the 1980 census figures and 1988 estimates are compared. The greatest decrease occurred in Black Hawk, where the population is estimated to have dropped by nearly 13,500. Clinton, Scott, and Webster counties lost from 4,200 to 4,600 residents, and another 35 counties dropped by at least 1,000. Declines of at least 10% of the 1980 population occurred in 17 counties. Estimated drops of at least 12.5% (or one-eighth of the total population) took place in Emmet, Palo Alto, and Wayne counties.

Note: Caution should be exercised in comparing figures from any one year to the next. Estimates rounded to the nearest 100 are provided by the U.S. Bureau of the Census, thus making it difficult to analyze small changes.

Table 1. Estimates of the Population in Iowa's Counties, 1980-1988.

Counties	July 1, 1988	July 1, 1987	July 1, 1986	July 1, 1985	July 1, 1984	July 1, 1983	July 1, 1982	July 1, 1981	April 1, 1980	Change, Number	Change, Percent
Adair	8500	8600	8700	9000	9300	9300	9300	9500	9509	-1009	-10.6
Adams	5300	5400	5300	5500	5600	5600	5600	5700	5731	-431	-7.5
Allamakee	14900	14900	15000	15300	15400	15400	15100	15100	15108	-208	-1.4
Appanoose	14300	14300	14300	14600	14800	15000	15200	15400	15511	-1211	-7.8
Audubon	7600	7700	7900	8200	8400	8300	8400	8500	8559	-959	-11.2
Benton	22700	22600	22700	23000	23100	23100	23400	23700	23649	-949	-4.0
Black Hawk	124500	124900	127100	131400	135300	136400	137300	137900	137961	-13461	-9.8
Boone	25400	25400	25500	25800	26000	26100	26100	26300	26184	-784	-3.0
Bremer	23300	23400	23800	24300	24700	24900	24900	24900	24820	-1520	-6.1
Buchanan	21800	21600	21800	22500	22900	23200	23200	23200	22900	-1100	-4.8
Buena Vista	20100	20200	20500	20700	21000	20900	20800	20900	20774	-674	-3.2
Butler	16300	16300	16600	17100	17400	17400	17500	17600	17668	-1368	-7.7
Calhoun	12100	12100	12200	12600	13000	13200	13400	13500	13542	-1442	-10.6
Carroll	22400	22300	22500	22800	23000	22900	22800	23000	22951	-551	-2.4
Cass	15500	15600	16000	16600	17100	17000	17000	17100	16932	-1432	-8.5
Cedar	18100	18100	18400	18800	18900	18900	18700	18800	18635	-535	-2.9
Cerro Gordo	48100	48000	48700	49100	48600	48400	48400	48500	48458	-358	-0.7
Cherokee	14700	14900	15100	15600	15900	16000	16000	16200	16238	-1538	-9.5
Chickasaw	14300	14400	14800	15100	15400	15500	15500	15500	15437	-1137	-7.4
Clarke	8800	8700	8600	8600	8800	8800	8900	8700	8612	188	0.2
Clay	17600	17600	18100	18700	19300	19400	19300	19500	19576	-1976	-10.1
Clayton	20200	20200	20400	21000	21200	21100	21000	21100	21098	-898	-4.3
Clinton	52900	52800	53400	54600	55400	56000	56700	56900	57122	-4222	-7.4
Crawford	18400	18400	18500	19000	19300	19300	19100	19100	18935	-535	-2.8
Dallas	30400	29800	29700	29900	29800	29800	29500	29500	29513	887	3.0
Davis	8700	8800	8900	9000	9100	9100	9100	9200	9104	-604	-4.4
Decatur	8600	8700	8900	9100	9300	9400	9700	9800	9794	-1174	-12.2
Delaware	18600	18700	18700	19200	19300	19100	19000	19000	18933	-333	-1.8
Des Moines	44300	44100	44200	44800	45200	45300	45800	46400	46203	-1903	-4.1
Dickinson	15300	15100	15200	15400	15500	15500	15500	15600	15629	-329	-2.1
Dubuque	90900	90600	90700	91900	92100	92200	93100	93800	93745	-2845	-3.0
Emmet	11600	11600	11800	12400	12700	12800	13100	13300	13336	-1736	-13.0
Fayette	22600	22800	23300	24200	24900	25000	25200	25300	25488	-2888	-11.3
Floyd	18100	18200	18400	19100	19200	19400	19300	19500	19597	-1497	-7.6
Franklin	11800	12000	12300	12600	12700	12800	12900	13000	13036	-1236	-9.5
Fremont	8800	8900	8900	9000	9200	9200	9200	9300	9401	-601	-6.4
Greene	10700	10900	11100	11500	11700	11900	11900	12100	12119	-1419	-11.7
Grundy	12700	12800	13100	13600	13700	14000	14100	14300	14366	-1666	-11.6
Guthrie	11000	11000	11300	11500	11600	11500	11700	11800	11983	-983	-8.2
Hamilton	16900	16900	17200	17300	17400	17600	17700	17900	17862	-962	-5.4
Hancock	13300	13200	13400	13700	13800	13600	13700	13700	13833	-533	-3.9
Hardin	19800	20100	20700	21300	21700	21600	21700	21700	21776	-1976	-9.1
Harrison	15900	15800	15900	16000	16100	16200	16300	16300	16348	-448	-2.7
Henry	18800	18900	18800	18500	18500	18500	18600	18800	18890	-90	-0.5
Howard	10500	10600	10700	10900	11100	11000	11100	11100	11114	-614	-5.5
Humboldt	11300	11300	11600	11900	12100	12100	12100	12300	12246	-946	-7.7
Ide	8600	8600	8800	8900	8900	8900	8800	8900	8908	-308	-3.5
Iowa	14700	14800	15000	15200	15200	15200	15200	15400	15429	-729	-4.7
Jackson	21700	21800	21900	22300	22500	22500	22400	22500	22503	-803	-3.6
Jasper	36200	35900	35800	35800	35900	35900	36200	36300	36425	-225	-0.6

Table 1. Estimates of the Population in Iowa's Counties, 1980-1988 (continued).

Counties	July 1, 1988	July 1, 1987	July 1, 1986	July 1, 1985	July 1, 1984	July 1, 1983	July 1, 1982	July 1, 1981	April 1, 1980	Change, 1980-1988 Number	Percent
Jefferson	16700	16500	16500	16500	16500	16300	16400	16100	16316	384	2.4
Johnson	86700	85600	85200	85500	85300	84300	83400	82900	81717	4983	6.1
Jones	19800	19700	19900	20200	20400	20300	20300	20400	20401	-601	-2.9
Keokuk	12000	12000	12200	12500	12600	12700	12700	12800	12921	-721	-7.1
Kossuth	19700	19800	20200	21000	21400	21400	21400	21700	21891	-2291	-10.0
Lee	40400	40600	41100	41600	42200	42400	42600	42800	43106	-2706	-6.3
Linn	171500	169200	168300	169000	168900	168100	168600	169600	169775	1725	1.0
Louisa	12000	11900	11900	12000	12100	12100	12100	12200	12055	-55	-0.5
Lucas	9500	9600	9700	10000	10200	10200	10400	10300	10313	-813	-7.9
Lyon	12200	12200	12400	12600	12800	12900	12800	12900	12896	-696	-5.4
Madison	12600	12500	12400	12400	12400	12400	12500	12600	12597	3	0.0
Mahaska	22400	22200	22300	22400	22600	22400	22500	22700	22867	-467	-2.0
Marion	30200	29800	29700	29700	29900	29900	30000	29800	29669	531	1.8
Marshall	39400	39500	40300	41000	41600	42000	42100	42000	41652	-2252	-5.4
Mills	13400	13200	13200	13500	13500	13400	13400	13500	13406	-6	-0.0
Mitchell	11500	11500	11600	11800	11900	12100	12100	12200	12329	-829	-6.7
Monona	10400	10500	10600	10900	11300	11500	11400	11600	11692	-1292	-11.1
Monroe	8400	8400	8500	8800	8800	9000	9000	9100	9209	-809	-8.8
Montgomery	12200	12200	12500	13000	13300	13200	13200	13400	13413	-1213	-9.0
Muscatine	41100	40900	41200	41400	41700	41700	41800	41200	40436	664	1.6
O'Brien	15600	15600	15900	16400	16800	17000	16900	17000	16972	-1372	-8.1
Osceola	7600	7700	7800	8100	8300	8300	8200	8300	8371	-771	-9.2
Page	17100	17200	17600	18100	18500	18500	18700	18900	19063	-1963	-10.3
Palo Alto	11100	11200	11500	12100	12300	12600	12600	12700	12721	-1621	-12.7
Plymouth	24100	24000	24000	24000	24400	24500	24600	25000	24743	-643	-2.6
Pocahontas	10300	10400	10700	11100	11100	11200	11100	11300	11369	-1069	-9.4
Polk	324700	318800	314700	314000	311700	309300	306700	306100	303170	21530	7.1
Pottawattamie	88000	87600	87400	88100	88300	87600	87200	87000	86561	1439	1.7
Poweshiek	18900	18700	18700	18900	18800	19100	19100	19300	19306	-406	-2.1
Ringgold	5400	5400	5500	5800	6000	6000	6100	6100	6112	-712	-11.6
Sac	12600	12700	12900	13200	13400	13600	13800	14000	14118	-1518	-10.8
Scott	155400	155300	156500	158700	159800	160100	161200	161000	160022	-4622	-2.9
Shelby	14100	14200	14400	14800	15200	15000	15000	15000	15043	-943	-6.3
Sioux	30200	30000	30300	30800	31000	30900	30600	30700	30813	-613	-2.0
Story	71900	71300	72300	73000	73100	72700	71900	72500	72326	-426	-0.6
Tama	18400	18500	18800	19200	19500	19400	19400	19000	19533	-1133	-5.8
Taylor	7500	7500	7700	8000	8200	8300	8400	8400	8353	-853	-10.2
Union	12900	13000	13100	13300	13600	13800	13800	13900	13858	-958	-6.9
Van Buren	8200	8200	8200	8400	8500	8600	8600	8700	8626	-426	-4.9
Wapello	36600	37100	37900	38900	39400	39500	39600	40100	40241	-3641	-9.0
Warren	36700	36400	36000	35700	35600	35400	35100	35200	34878	1822	5.2
Washington	20100	19900	20000	20100	20200	20100	20200	20300	20141	-41	-0.2
Wayne	7100	7300	7400	7600	7800	7900	8000	8100	8199	-1099	-13.4
Webster	41700	41900	42300	43400	44200	44600	45100	45600	45953	-4253	-9.3
Winnebago	12400	12400	12700	12900	12900	12800	12700	12700	13010	-610	-4.7
Winneshiek	21900	21800	21900	22200	22300	22300	22100	22100	21876	24	0.1
Woodbury	98500	97400	98000	99600	100200	100300	100700	101300	100884	-2384	-2.4
Worth	8600	8500	8800	9000	9100	9000	9000	9100	9075	-475	-5.2
Wright	14700	14800	15100	15700	16000	16000	16000	16100	16319	-1619	-9.9
State of Iowa	2834000	2823000	2840000	2881000	2904000	2905000	2908000	2918000	2913808	-79808	-2.7

Historical Trends of the Population in Iowa's Counties:

1850-1980

Sandra Charvat Burke, Iowa State University
Willis Goudy, Iowa State University

The population in Iowa's counties has been counted every 10 years by the U.S. Bureau of the Census. Iowa's first census occurred in 1850, which was four years after statehood in 1846. County populations have undergone many changes in the succeeding years.

1850 - 1900

In 1850, much of Iowa was only sparsely settled; 50 of today's counties had no population reported for that year (Table 1). Those 50 counties were in the west and north parts of the state such that a line drawn from the southwest corner to the northeast corner of the state would serve to separate the area where residents were counted from that where they were not. Iowa's 192,214 people were highly concentrated in the southeast corner. Indeed, more than 54,000 lived in just four counties (Des Moines, Jefferson, Lee, Van Buren) and another 10,841 lived in Dubuque. At the same time, many counties had fewer than a thousand people.

By 1860, settlement had spread across almost the entire state and the population had increased significantly to nearly 675,000. Only Lyon and Osceola, two counties in the northwest corner of the state, had no reported population. During the decade of the 1850s, the counties along the Mississippi River experienced relatively great growth. Dubuque gained more than 20,000 people; Scott gained nearly that many (Table 2). The eastern and southeastern parts of the state grew as settlement progressed westward and northward from the southeast corner. By 1860, 29 counties had populations of more than 10,000. All counties in the state gained population from 1850 to 1860 with the exception of Pottawattamie.

Growth continued through the decade of the 1860s. The state gained more than 500,000 in the 10-year span and the total population in 1870 topped the one million mark. All counties gained during the decade, with the exception of Osceola which still did not have any inhabitants listed in the census. Only five other counties remained under 1,000 in population and most of them were in the northwest. By 1870, 52 counties were over the 10,000 population mark and five were over 30,000. The highest populations were in Dubuque and Scott, each of which had more than 38,000. During the 1860s, the most rapidly growing counties were in the central areas of the state rather than along the Mississippi River as earlier. This reflected the gradual westward direction of settlement across the state.

People were first counted in Osceola County in the 1880 census, completing settlement across the state. All counties had at least 1,500 residents and three (Dubuque, Polk, Scott) had moved past 41,000. This was the first time Polk was among the three most populous counties. The state reached 1,624,615 by 1880. During the 1870s, the counties with the greatest increases were Cass, Pottawattamie, Polk, and Shelby, indicating that rapid growth had reached into western Iowa. An additional indication of the shift in population was seen in the losses experienced by some southeastern counties.

Twenty-seven counties lost population from 1880 to 1890 with most in the eastern or southern areas of Iowa. The state population as a whole, however, continued to grow, reaching 1,912,297 by 1890. All counties had at least 4,200 residents, and seven were above 40,000. The largest numbers were in Polk (65,410) and Woodbury (55,632). Woodbury had gained more than 40,000 during the decade and, for the first time, Polk became the most populous county. Significant growth was also shown in Plymouth and Sioux.

Table 1. Population in Iowa Counties, 1850-1980.

	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850
Adair	9509	9487	10893	12292	13196	13891	14259	14420	16192	14534	11667	3982	984	0
Adams	5731	6322	7468	8753	10156	10437	10521	10998	13601	12292	11888	4614	1533	0
Allamakee	15108	14968	15982	16351	17184	16328	17285	17328	18711	17907	19791	17868	12237	777
Appanoose	15511	15007	16015	19683	24245	24835	30535	28701	25927	18961	16636	16456	11931	3131
Audubon	8559	9595	10919	11579	11790	12264	12520	12671	13626	12412	7448	1212	454	0
Benton	23649	22885	23422	22656	22879	22851	24080	23156	25177	24178	24888	22454	8496	672
Black Hawk	137961	132916	122482	100448	79946	69146	56570	44865	32399	24219	23913	21706	8244	135
Boone	26184	26470	28037	28139	29782	29271	29892	27626	28200	23772	20838	14584	4232	735
Bremer	24820	22737	21108	18884	17932	17046	16728	15843	16305	14630	14081	12528	4915	0
Buchanan	22900	21762	22293	21927	20991	19550	19890	19748	21427	18997	18546	17034	7906	517
Buena Vista	20774	20693	21189	21113	19838	18667	18556	15981	16975	13548	7537	1585	57	0
Butler	17668	16953	17467	17394	17986	17617	17845	17119	17955	15463	14293	9951	3724	0
Calhoun	13542	14292	15923	16925	17584	17605	17783	17090	18569	13107	5595	1602	147	0
Carroll	22951	22912	23431	23065	22770	22326	21549	20117	20319	18828	12351	2451	281	0
Cass	16932	17007	17919	18532	18647	19422	19421	19047	21274	19645	16943	5464	1612	0
Cedar	18635	17655	17791	16910	16884	16760	17560	17765	19371	18253	18936	19731	12949	3941
Cerro Gordo	48458	49223	49894	46053	43845	38476	34675	25011	20672	14864	11461	4722	940	0
Cherokee	16238	17269	18598	19052	19258	18737	17760	16741	16570	15659	8240	1967	58	0
Chickasaw	15437	14969	15034	15228	15227	14637	15431	15375	17037	15019	14534	10180	4336	0
Clarke	8612	7581	8222	9369	10233	10384	10506	10736	12440	11332	11513	8735	5427	79
Clay	19576	18464	18504	18103	17762	16107	15660	12766	13401	9309	4248	1523	52	0
Clayton	21098	20606	21962	22522	24334	24559	25032	25576	27750	26733	28829	27771	20728	3873
Clinton	57122	56749	55060	49664	44722	44377	43371	45394	43832	41199	36763	35357	18938	2822
Crawford	18935	19116	18569	19741	20538	21028	20614	20041	21685	18894	12413	2530	383	0
Dallas	29513	26085	24123	23661	24649	25493	25120	23628	23058	20479	18746	12019	5244	854
Davis	9104	8207	9199	9959	11136	11150	12574	13315	15620	15258	16468	15565	13764	7264
Decatur	9794	9737	10539	12601	14012	14903	16566	16347	18115	15643	15336	12018	8677	965
Delaware	18933	18770	18483	17734	18487	18122	18183	17888	19185	17349	17950	17432	11024	1759
Des Moines	46203	46982	44605	42056	36804	38162	35520	36145	35989	35324	33099	27256	19611	12988
Dickinson	15629	12565	12574	12756	12185	10982	10241	8137	7995	4328	1901	1389	180	0
Dubuque	93745	90609	80048	71337	63768	61214	58262	57450	56403	49848	42996	38969	31164	10841
Emmet	13336	14009	14871	14102	13406	12856	12627	9816	9936	4274	1550	1392	105	0
Fayette	25488	26898	28581	28294	29151	29145	29251	27919	29845	23141	22258	16973	12073	825

Table 1. Population in Iowa Counties, 1850-1980 (continued).

	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850
Floyd	19597	19860	21102	21505	20169	19524	18860	17119	17754	15424	14677	10768	3744	0
Franklin	13036	13255	15472	16268	16379	16382	15807	14780	14996	12871	10249	4738	1309	0
Fremont	9401	9282	10282	12323	14645	15533	15447	15623	18546	16842	17652	11174	5074	1244
Greene	12119	12716	14379	15544	16599	16528	16467	16023	17820	15797	12727	4627	1374	0
Grundy	14366	14119	14132	13722	13518	14133	14420	13574	13757	13215	12639	6399	793	0
Guthrie	11983	12243	13607	15197	17210	17324	17596	17374	18729	17380	14394	7061	3058	0
Hamilton	17862	18383	20032	19660	19922	20978	19531	19242	19514	15319	11252	6055	1699	0
Hancock	13833	13506	14604	15077	15402	14802	14723	12731	13752	7621	3453	999	179	0
Hardin	21776	22248	22533	22218	22530	22947	23337	20921	22794	19003	17807	13684	5440	0
Harrison	16348	16240	17600	19560	22767	24897	24488	23162	25597	21356	16649	8931	3621	0
Henry	18890	18114	18187	18708	17994	17660	18298	18640	20022	18895	20986	21463	18701	8707
Howard	11114	11442	12734	13105	13531	13082	13705	12920	14512	11182	10837	6282	3168	0
Humboldt	12246	12519	13156	13117	13459	13202	12951	12182	12667	9836	5341	2596	332	0
Ida	8908	9283	10269	10697	11047	11933	11689	11296	12327	10705	4382	226	43	0
Iowa	15429	15419	16396	15835	17016	17332	18600	18409	19544	18270	19221	16644	8029	822
Jackson	22503	20839	20754	18622	19181	18481	19931	21258	23615	22771	23771	22619	18493	7210
Jasper	36425	35425	35282	32305	31496	32936	27855	27034	26976	24943	25963	22116	9883	1280
Jefferson	16316	15774	15818	15696	15762	16241	16440	15951	17437	15184	17469	17839	15038	9904
Johnson	81717	72127	53663	45756	33191	30276	26462	25914	24817	23082	25429	24898	17573	4472
Jones	20401	19868	20693	19401	19950	19206	18607	19050	21954	20233	21052	19731	13306	3007
Keokuk	12921	13943	15492	16797	18406	19148	20983	21160	24979	23862	21258	19434	13271	4822
Kossuth	21891	22937	25314	26241	26630	25452	25082	21971	22720	13120	6178	3351	416	0
Lee	43106	42996	44207	43102	41074	41268	39676	36702	39719	37715	34859	37210	29232	18861
Linn	169775	163213	136899	104274	89142	82336	74004	60720	55392	45303	37237	31080	18947	5444
Louisa	12055	10682	10290	11101	11384	11575	12179	12855	13516	11873	13142	12877	10370	4939
Lucas	10313	10163	10923	12069	14571	15114	15686	13462	16126	14563	14530	10388	5766	471
Lyon	12896	13340	14468	14697	15374	15293	15431	14624	13165	8680	1968	221	0	0
Madison	12597	11558	12295	13131	14525	14331	15020	15621	17710	15977	17224	13884	7339	1179
Mahaska	22867	22177	23602	24672	26485	25804	26270	29860	34273	28805	25202	22508	14816	5989
Marion	29669	26352	25886	25930	27019	25727	24957	22995	24159	23058	25111	24436	16813	5482
Marshall	41652	41076	37984	35611	35406	33727	32630	30279	29991	25842	23752	17576	6015	338
Mills	13406	11832	13050	14064	15064	15866	15422	15811	16764	14548	14137	8718	4481	0
Mitchell	12329	13108	14043	13945	14121	14065	13921	13435	14916	13299	14363	9582	3409	0

Table 1. Population in Iowa Counties, 1850-1980 (continued).

	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850
Monona	11692	12069	13916	16303	18238	18213	17125	16633	17980	14515	9055	3654	832	0
Monroe	9209	9357	10463	11814	14553	15010	23467	25429	17985	13666	13719	12724	8612	2884
Montgomery	13413	12781	14467	15685	15697	16752	17048	16604	17803	15848	15895	5934	1256	0
Muscatine	40436	37181	33840	32148	31296	29385	29042	29505	28242	24504	23170	21688	16444	5731
O'Brien	16972	17522	18840	18970	19293	18409	19051	17262	16985	13060	4155	715	8	0
Osceola	8371	8555	10064	10181	10607	10182	10223	8956	8725	5574	2219	0	0	0
Page	19063	18537	21023	23921	24887	25904	24137	24002	24187	21341	19667	9975	4419	551
Palo Alto	12721	13289	14736	15891	16170	15398	15486	13845	14354	9318	4131	1336	132	0
Plymouth	24743	24322	23906	23252	23502	24159	23584	23129	22209	19568	8566	2199	148	0
Pocahontas	11369	12793	14234	15496	16266	15687	15602	14808	15339	9553	3713	1446	103	0
Polk	303170	286130	266315	226010	195835	172837	154029	110438	82624	65410	42395	27857	11625	4513
Pottawattamie	86561	86991	83102	69682	66756	69888	61550	55832	54336	47430	39850	16893	4968	7828
Poweshiek	19306	18803	19300	19344	18758	18727	19910	19589	19414	18394	18936	15581	5668	615
Ringgold	6112	6373	7910	9528	11137	11966	12919	12904	15325	13556	12085	5691	2923	0
Sec	14118	15573	17007	17518	17639	17641	17500	16555	17639	14522	8774	1411	246	0
Scott	160022	142687	119067	100698	84748	77332	73952	60000	51558	43164	41266	38599	25959	5986
Shelby	15043	15528	15825	15942	16720	17131	16065	16552	17932	17611	12696	2540	818	0
Sioux	30813	27996	26375	26381	27209	26806	26458	25248	23337	18370	5426	576	10	0
Story	72326	62783	49327	44294	33434	31141	26185	24083	23159	18127	16906	11651	4051	0
Tama	19533	20147	21413	21688	22428	21987	21861	22156	24585	22052	21585	16131	5285	8
Taylor	8353	8790	10288	12420	14258	14859	15514	16312	18784	16384	15635	6989	3590	204
Union	13858	13557	13712	15651	16280	17435	17268	16616	19928	16900	14980	5986	2012	0
Van Buren	8626	8643	9778	11007	12053	12603	14060	15020	17354	16253	17043	17672	17081	12270
Wapello	40241	42149	46126	47397	44280	40480	37937	37743	35426	30426	25285	22346	14518	8471
Warren	34878	27432	20829	17758	17695	17700	18047	18194	20376	18269	19578	17980	10281	961
Washington	20141	18967	19406	19557	20055	19822	20421	19925	20718	18468	20374	18952	14235	4957
Wayne	8199	8405	9800	11737	13308	13787	15378	16184	17491	15670	16127	11287	6409	340
Webster	45953	48391	47810	44241	41521	40425	37611	34629	31757	21582	15951	10484	2504	0
Winnebago	13010	12990	13099	13450	13972	13143	13489	11914	12725	7325	4917	1562	168	0
Winneshie	21876	21758	21651	21639	22263	21630	22091	21729	23731	22528	23938	23570	13942	546
Woodbury	100884	103052	107849	103917	103627	101669	92171	67616	54610	55632	14996	6172	1119	0
Worth	9075	8984	10259	11068	11449	11164	11630	9950	10887	9247	7953	2892	756	0
Wright	16319	17294	19447	19652	20038	20216	20348	17951	18227	12057	5062	2392	653	0
State of Iowa	2913808	2825368	2757537	2621073	2538268	2470939	2404021	2224771	2231853	1912297	1624615	1194020	674913	192214

Table 2. Population Change in Iowa Counties, 1850-1980.

	1970- 1980	1960- 1970	1950- 1960	1940- 1950	1930- 1940	1920- 1930	1910- 1920	1900- 1910	1890- 1900	1880- 1890	1870- 1880	1860- 1870	1850- 1860
Adair	22	-1406	-1399	-904	-695	-368	-161	-1772	1658	2867	7685	2998	984
Adams	-591	-1146	-1285	-1403	-281	-84	-477	-2603	1309	404	7274	3081	1533
Allamakee	140	-1014	-369	-833	856	-957	-43	-1383	804	-1884	1923	5631	11460
Appanoose	504	-1008	-3668	-4562	-590	-5700	1834	2774	6966	2325	180	4525	8800
Audubon	-1036	-1324	-660	-211	-474	-256	-151	-955	1214	4964	6236	758	454
Benton	764	-537	766	-223	28	-1229	924	-2021	999	-710	2434	13958	7824
Black Hawk	5045	10434	22034	20502	10800	12576	11705	12466	8180	306	2207	13462	8109
Boone	-286	-1567	-102	-1643	511	-621	2266	-574	4428	2934	6254	10352	3497
Bremer	2083	1629	2224	952	886	318	885	-462	1675	549	1553	7613	4915
Buchanan	1138	-531	366	936	1441	-340	142	-1679	2430	451	1512	9128	7389
Buena Vista	81	-496	76	1275	1171	111	2575	-994	3427	6011	5952	1528	57
Butler	715	-514	73	-592	369	-228	726	-836	2492	1170	4342	6227	3724
Calhoun	-750	-1631	-1002	-659	-21	-178	693	-1479	5462	7512	3993	1455	147
Carroll	39	-519	366	295	444	777	1432	-202	1491	6477	9900	2170	281
Cass	-75	-912	-613	-115	-775	1	374	-2227	1629	2702	11479	3852	1612
Cedar	980	-136	881	26	124	-800	-205	-1606	1118	-683	-795	6782	9008
Cerro Gordo	-765	-671	3841	2208	5369	3801	9664	4339	5808	3403	6739	3782	940
Cherokee	-1031	-1329	-454	-206	521	977	1019	171	911	7419	6273	1909	58
Chickasaw	468	-65	-194	1	590	-794	56	-1662	2018	485	4354	5844	4336
Clarke	1031	-641	-1147	-864	-151	-122	-230	-1704	1108	-181	2778	3308	5348
Clay	1112	-40	401	341	1655	447	2894	-635	4092	5061	2725	1471	52
Clayton	492	-1356	-560	-1812	-225	-473	-544	-2174	1017	-2096	1058	7043	16855
Clinton	373	1689	5396	4942	345	1006	-2023	1562	2633	4436	1406	16419	16116
Crawford	-181	547	-1172	-797	-490	414	573	-1644	2791	6481	9883	2147	383
Dallas	3428	1962	462	-988	-844	373	1492	570	2579	1733	6727	6775	4390
Davis	897	-992	-760	-1177	-14	-1424	-741	-2305	362	-1210	903	1801	6500
Decatur	57	-802	-2062	-1411	-891	-1663	219	-1768	2472	307	3318	3341	7712
Delaware	163	287	749	-753	365	-61	295	-1297	1836	-601	518	6408	9265
Des Moines	-779	2377	2549	5252	-1358	2642	-625	156	665	2225	5843	7645	6623
Dickinson	3064	-9	-182	571	1203	741	2104	142	3667	2427	512	1209	180
Dubuque	3136	10561	8711	7569	2554	2952	812	1047	6555	6852	4027	7805	20323
Emmet	-673	-862	769	696	550	229	2811	-120	5662	2724	158	1287	105
Fayette	-1410	-1683	287	-857	6	-106	1332	-1926	6704	883	5285	4900	11248

Table 2. Population Change in Iowa Counties, 1850-1980 (continued).

	1970- 1980	1960- 1970	1950- 1960	1940- 1950	1930- 1940	1920- 1930	1910- 1920	1900- 1910	1890- 1900	1880- 1890	1870- 1880	1860- 1870	1850- 1860
Floyd	-263	-1242	-403	1336	645	664	1741	-635	2330	747	3909	7024	3744
Franklin	-219	-2217	-796	-111	-3	575	1027	-216	2125	2622	5511	3429	1309
Fremont	119	-1000	-2041	-2322	-888	86	-176	-2923	1704	-810	6478	6100	3830
Greene	-597	-1663	-1165	-1055	71	61	444	-1797	2023	3070	8100	3253	1374
Grundy	247	-13	410	204	-615	-287	846	-183	542	576	6240	5606	793
Guthrie	-260	-1364	-1590	-2013	-114	-272	222	-1355	1349	2986	7333	4003	3058
Hamilton	-521	-1649	372	-262	-1056	1447	289	-272	4195	4067	5197	4356	1699
Hancock	327	-1098	-473	-325	600	79	1992	-1021	6131	4168	2454	820	179
Hardin	-472	-285	315	-312	-417	-390	2416	-1873	3791	1196	4123	8244	5440
Harrison	108	-1360	-1960	-3207	-2130	409	1326	-2435	4241	4707	7718	5310	3621
Henry	776	-73	-521	714	334	-638	-342	-1382	1127	-2091	-477	2762	9994
Howard	-328	-1292	-371	-426	449	-623	785	-1592	3330	345	4555	3114	3168
Humboldt	-273	-637	39	-342	257	251	769	-485	2831	4495	2745	2264	332
Ida	-375	-986	-428	-350	-886	244	393	-1031	1622	6323	4156	183	43
Iowa	10	-977	561	-1181	-316	-1268	191	-1135	1274	-951	2577	8615	7207
Jackson	1664	85	2132	-559	700	-1450	-1327	-2357	844	-1000	1152	4126	11283
Jasper	1000	143	2977	809	-1440	5081	821	58	2033	-1020	3847	12233	8603
Jefferson	542	-44	122	-66	-479	-199	489	-1486	2253	-2285	-370	2801	5134
Johnson	9590	18464	7907	12565	2915	3814	548	1097	1735	-2347	531	7325	13101
Jones	533	-825	1292	-549	744	599	-443	-2904	1721	-819	1321	6425	10299
Keokuk	-1022	-1549	-1305	-1609	-742	-1835	-177	-3819	1117	2604	1824	6163	8449
Kossuth	-1046	-2377	-927	-389	1178	370	3111	-749	9600	6942	2827	2935	416
Lee	110	-1211	1105	2028	-194	1592	2974	-3017	2004	2856	-2351	7978	10371
Linn	6562	26314	32625	15132	6806	8332	13284	5328	10089	8066	6157	12133	13503
Louisa	1373	392	-811	-283	-191	-604	-676	-661	1643	-1269	265	2507	5431
Lucas	150	-760	-1146	-2502	-543	-572	2224	-2664	1563	33	4142	4622	5295
Lyon	-444	-1128	-229	-677	81	-138	807	1459	4485	6712	1747	221	0
Madison	1039	-737	-836	-1394	194	-689	-601	-2089	1733	-1247	3340	6545	6160
Mahaska	690	-1425	-1070	-1813	681	-466	-3590	-4413	5468	3603	2694	7692	8827
Marion	3317	466	-44	-1089	1292	770	1962	-1164	1101	-2053	675	7623	11331
Marshall	576	3092	2373	205	1679	1097	2351	288	4149	2090	6176	11561	5677
Mills	1574	-1218	-1014	-1000	-802	444	-389	-953	2216	411	5419	4237	4481
Mitchell	-779	-935	98	-176	56	144	486	-1481	1617	-1064	4781	6173	3409

Table 2. Population Change in Iowa Counties, 1850-1980 (continued).

	1970- 1980	1960- 1970	1950- 1960	1940- 1950	1930- 1940	1920- 1930	1910- 1920	1900- 1910	1890- 1900	1880- 1890	1870- 1880	1860- 1870	1850- 1860
Monona	-377	-1847	-2387	-1935	25	1088	492	-1347	3465	5460	5401	2822	832
Monroe	-148	-1106	-1351	-2739	-457	-8457	-1962	7444	4319	-53	995	4112	5728
Montgomery	632	-1686	-1218	-12	-1055	-296	444	-1199	1955	-47	9961	4678	1256
Muscatine	3255	3341	1692	852	1911	343	-463	1263	3738	1334	1482	5244	10713
O'Brien	-550	-1318	-130	-323	884	-642	1789	277	3925	8905	3440	707	8
Osceola	-184	-1509	-117	-426	425	-41	1267	231	3151	3355	2219	0	0
Page	526	-2486	-2898	-966	-1017	1767	135	-185	2846	1674	9692	5556	3868
Palo Alto	-568	-1447	-1155	-279	772	-88	1641	-509	5036	5187	2795	1204	132
Plymouth	421	416	654	-250	-657	575	455	920	2641	11002	6367	2051	148
Pocahontas	-1424	-1441	-1262	-770	579	85	794	-531	5786	5840	2267	1343	103
Polk	17040	19815	40305	30175	22998	18808	43591	27814	17214	23015	14538	16232	7112
Pottawattamie	-430	3889	13420	2926	-3132	8338	5718	1496	6906	7580	22957	11925	-2860
Poweshiek	503	-497	-44	586	31	-1183	321	175	1020	-542	3355	9913	5053
Ringgold	-261	-1537	-1618	-1609	-829	-953	15	-2421	1769	1471	6394	2768	2923
Sac	-1455	-1434	-511	-121	-2	141	945	-1084	3117	5748	7363	1165	246
Scott	17335	23620	18369	15950	7416	3380	13952	8442	8394	1898	2667	12640	19973
Shelby	-485	-297	-117	-778	-411	1066	-487	-1380	321	4915	10156	1722	818
Sioux	2817	1621	-6	-828	403	348	1210	1911	4967	12944	4850	566	10
Story	9543	13456	5033	10860	2293	4956	2102	924	5032	1221	5255	7600	4051
Tama	-614	-1266	-275	-740	441	126	-295	-2429	2533	467	5454	10846	5277
Taylor	-437	-1498	-2132	-1838	-601	-655	-798	-2472	2400	749	8646	3399	3386
Union	301	-155	-1939	-629	-1155	167	652	-3312	3028	1920	8994	3974	2012
Van Buren	-17	-1135	-1229	-1046	-550	-1457	-960	-2334	1101	-790	-629	591	4811
Wapello	-1908	-3977	-1271	3117	3800	2543	194	2317	5000	5141	2939	7828	6047
Warren	7446	6603	3071	63	-5	-347	-147	-2182	2107	-1309	1598	7699	9320
Washington	1174	-439	-151	-498	233	-599	496	-793	2250	-1906	1422	4717	9278
Wayne	-206	-1395	-1937	-1571	-479	-1591	-806	-1307	1821	-457	4840	4878	6069
Webster	-2438	581	3569	2720	1096	2814	2982	2872	10175	5631	5467	7980	2504
Winnebago	20	-109	-351	-522	829	-346	1575	-811	5400	2408	3355	1394	168
Winneshiek	118	107	12	-624	633	-461	362	-2002	1203	-1410	368	9628	13396
Woodbury	-2168	-4797	3932	290	1958	9498	24555	13006	-1022	40636	8824	5053	1119
Worth	91	-1275	-809	-381	285	-466	1680	-937	1640	1294	5061	2136	756
Wright	-975	-2153	-205	-386	-178	-132	2397	-276	6170	6995	2670	1739	653
State of Iowa	88440	67831	136464	82805	67329	66918	179250	-7082	319556	287682	430595	519107	482699

Table 3. Estimated Population Change (1850-1900, 1900-1980), Decades of Population Increase, and Year Census Count Highest in Iowa counties.

	Population Change:			Number of Decades of Population Increase:		Year Census Count Highest
	1850-1900 Number	1900-1980 Number	Percent	1850-1900	1900-1980	
Adair	16192	-6683	-41.3	5	1	1900
Adams	13601	-7870	-57.9	5	0	1900
Allamakee	17934	-3603	-19.3	4	2	1880
Appanoose	22796	-10416	-40.2	5	3	1920
Audubon	13626	-5067	-37.2	5	0	1900
Benton	24505	-1528	-6.1	4	4	1900
Black Hawk	32264	105562	325.8	5	8	1980
Boone	27465	-2016	-7.2	5	2	1920
Bremer	16305	8515	52.2	5	7	1980
Buchanan	20910	1473	6.9	5	5	1980
Buena Vista	16975	3799	22.4	5	6	1960
Butler	17955	-287	-1.6	5	4	1940
Calhoun	18569	-5027	-27.1	5	1	1900
Carroll	20319	2632	13.0	5	6	1960
Cass	21274	-4342	-20.4	5	2	1900
Cedar	15430	-736	-3.8	3	4	1870
Cerro Gordo	20672	27786	134.4	5	6	1960
Cherokee	16570	-332	-2.0	5	4	1940
Chickasaw	17037	-1600	-9.4	5	4	1900
Clarke	12361	-3828	-30.8	4	1	1900
Clay	13401	6175	46.1	5	6	1980
Clayton	23877	-6652	-24.0	4	1	1880
Clinton	41010	13290	30.3	5	7	1980
Crawford	21685	-2750	-12.7	5	3	1900
Dallas	22204	6455	28.0	5	6	1980
Davis	8356	-6516	-41.7	4	1	1880
Decatur	17150	-8321	-45.9	5	2	1900
Delaware	17426	-252	-1.3	4	5	1900
Des Moines	23001	10214	28.4	5	5	1970
Dickinson	7995	7634	95.5	5	6	1980
Dubuque	45562	37342	66.2	5	8	1980
Emmet	9936	3400	34.2	5	5	1960
Fayette	29020	-4357	-14.6	5	3	1900
Floyd	17754	1843	10.4	5	4	1950
Franklin	14996	-1960	-13.1	5	2	1930
Fremont	17302	-9145	-49.3	4	2	1900
Greene	17820	-5701	-32.0	5	3	1900
Grundy	13757	609	4.4	5	4	1920
Guthrie	18729	-6746	-36.0	5	1	1900
Hamilton	19514	-1652	-8.5	5	3	1930
Hancock	13752	81	0.6	5	4	1940
Hardin	22796	-1018	-4.5	5	2	1920
Harrison	25597	-9249	-36.1	5	3	1900
Henry	11315	-1132	-5.6	3	3	1870
Howard	14512	-3398	-23.4	5	2	1900
Humboldt	12667	-421	-3.3	5	4	1940
Ida	12327	-3419	-27.7	5	2	1900
Iowa	18722	-4115	-21.1	4	3	1900
Jackson	16405	-1112	-4.7	4	4	1880
Jasper	25696	9449	35.0	4	7	1980

Table 3. Estimated Population Change (1850-1900, 1900-1980), Decades of Population Increase, and Year Census Count Highest in Iowa counties (continued).

	Population Change:			Number of Decades of Population Increase:		Year Census Count Highest
	1850-1900 Number	1900-1980 Number	Percent	1850-1900	1900-1980	
Jefferson	7533	-1121	-6.4	3	3	1870
Johnson	20345	56900	229.3	4	8	1980
Jones	18947	-1553	-7.1	4	4	1900
Keokuk	20157	-12058	-48.3	5	0	1900
Kossuth	22720	-829	-3.6	5	3	1940
Lee	20858	3387	8.5	4	5	1960
Linn	49948	114383	206.5	5	8	1980
Louisa	8577	-1461	-10.8	4	2	1900
Lucas	15655	-5813	-36.0	5	2	1900
Lyon	13165	-269	-2.0	4	3	1920
Madison	16531	-5113	-28.9	4	2	1900
Mahaska	28284	-11406	-33.3	5	2	1900
Marion	18677	5510	22.8	4	5	1980
Marshall	29653	11661	38.9	5	8	1980
Mills	16764	-3358	-20.0	5	2	1900
Mitchell	14916	-2587	-17.3	4	4	1900
Monona	17980	-6288	-35.0	5	3	1940
Monroe	15101	-8776	-48.8	4	1	1910
Montgomery	17803	-4390	-24.7	4	2	1900
Muscatine	22511	12194	43.2	5	7	1980
O'Brien	16985	-13	-0.1	5	3	1940
Osceola	8725	-354	-4.1	3	3	1940
Page	23636	-5124	-21.2	5	3	1930
Palo Alto	14354	-1633	-11.4	5	2	1940
Plymouth	22209	2534	11.4	5	6	1980
Pocahontas	15339	-3970	-25.9	5	3	1940
Polk	78111	220546	266.9	5	8	1980
Pottawattamie	46508	32225	59.3	4	6	1970
Poweshiek	18799	-108	-0.6	4	5	1920
Ringgold	15325	-9213	-60.1	5	1	1900
Sac	17639	-3521	-20.0	5	2	1930
Scott	45572	108464	210.4	5	8	1980
Shelby	17932	-2889	-16.1	5	1	1900
Sioux	23337	7476	32.0	5	6	1980
Story	23159	49167	212.3	5	8	1980
Tama	24577	-5052	-20.6	5	2	1900
Taylor	18580	-10431	-55.5	5	0	1900
Union	19928	-6070	-30.5	5	3	1900
Van Buren	5084	-8728	-50.3	3	0	1870
Wapello	26955	4815	13.6	5	5	1950
Warren	19415	14502	71.2	4	4	1980
Washington	15761	-577	-2.8	4	3	1900
Wayne	17151	-9292	-53.1	4	0	1900
Webster	31757	14196	44.7	5	7	1970
Winnebago	12725	285	2.2	5	3	1940
Winneshiek	23185	-1855	-7.8	4	5	1880
Woodbury	54610	46274	84.7	4	6	1960
Worth	10887	-1812	-16.6	5	3	1920
Wright	18227	-1908	-10.5	5	1	1920
State of Iowa	2039639	681955	30.6	5	7	1980

At the turn of the century, Iowa reached a milestone of more than two million people. Only three counties (Dickinson, Emmet, Osceola) remained under 10,000 in 1900. Polk, with 82,624, had more residents than any other county, although five others were over 50,000. Woodbury was the only one to lose population between 1890 and 1900.

Overall, the last half of the 1800s saw Iowa go from a sparsely- to a fully-settled state with a gain of more than two million people (Table 3). It was a time of generalized population growth shared by all the counties across the state. A total of 69 counties gained population during each of the five decades and only four (Cedar, Henry, Jefferson, Van Buren) lost during more than one decade.

1900 - 1980

The turn of the century marked a significant change for Iowa's population. The generalized growth of the previous 50 years came to a halt. In the decade from 1900 to 1910, Iowa experienced a population loss of 7,082. Although small in number and proportion (-0.3%), it was the first decade loss for the state. The decline was widespread among Iowa's counties; 71 had fewer residents in 1910 than in 1900. Mahaska decreased by more than 4,000 people; Keokuk, Lee, and Union dropped by more than 3,000. In percentage terms, Adams lost more than 19% of its population, with Fremont, Keokuk, Lucas, Ringgold, and Union declining by more than 15%. Such widespread losses were unprecedented in the state's history. In contrast, 28 counties gained during the period. The greatest percentage growth generally occurred in counties with large cities (Black Hawk, +38%; Polk, +34%; Woodbury, +24%), although Monroe was highest (+41%). Polk increased by more than 27,000 during that decade and both Black Hawk and Woodbury each added at least 12,000 residents. Polk became the first Iowa county with more than 100,000 residents. The total population for the state in 1910 stood at 2,224,771.

The state rebounded from its 1900-1910 losses during the next decade (1910-1920) by gaining more than 179,000 people (+8%). Although 27 counties lost population during the 1910-1920 period, this was a much smaller number than the previous decade; also, the percentage declines tended to be lower. Mahaska dropped more than any other county in both numbers and proportion (-3,590, -12%); it was the only county with a decline greater than 10%. The counties showing losses tended to be in the east, south, and west central areas of the state. Counties with large cities continued the growth trend started earlier. Polk gained more than 43,000 to put its population above 154,000; it remained the only one over 100,000. For the first time, all counties had at least 10,000 residents; seven had 50,000 or more inhabitants.

In 1930, Iowa's population reached 2,470,939, an increase of 2.8% over 1920. Even though the state was growing, nearly half (48) of the counties declined. Monroe dropped by 8,457 people, a 36% loss. It experienced the highest losses in both numbers and percent, although five other southern-border counties (Appanoose, Davis, Decatur, Van Buren, Wayne) also declined more than 10%. Of the 51 counties that grew during the decade, the greatest percentage gains were in Black Hawk (+22%), Story (+19%), and Jasper (+18%). Woodbury joined Polk in having a total population over 100,000.

In the 1930s, the trends from the 1920s continued; that is, the state's population increased, but many counties (43) decreased. The greatest declines were in two western counties, Pottawattamie (-3,132) and Harrison (-2,130). Harrison also had the greatest percentage loss (-9%) for the decade. Polk (+22,998) and Black Hawk (+10,800) continued their gains as did most counties with large cities other than Pottawattamie. Black Hawk's percentage gain of 16% was the highest of any county.

The 1940s witnessed World War II and ushered in the post-war era. Once again, the state grew, this time by more than 82,000 residents. However, two-thirds (67) of the counties lost population, most at higher rates than in the 1930s. Thirteen counties had declines greater than 10%; four of these (Appanoose, Fremont, Lucas, Monroe) were over 15%. The counties with the highest percentage losses were located in the southern and west central parts of the state. Four counties (Adams, Clarke, Davis, Ringgold) dropped below 10,000 in population, the first time any of these had been that low since 1870. Indeed, all counties in Iowa had been above 10,000 since 1920. In sharp contrast to these losses were nine counties for which population gains were greater than 10%. All of these nine contained substantial cities. Johnson and Story

led with increases greater than 30% as students returned to the universities after the war. Polk alone gained more than 30,000 people, Black Hawk more than 20,000, and Linn and Scott more than 15,000. In 1940, only two counties (Polk, Woodbury) had been over 100,000; by 1950, there were five (Black Hawk, Linn, Polk, Scott, Woodbury). Polk exceeded 200,000 for the first time. The total population for Iowa was more than 2.6 million in 1950.

Iowa experienced an upsurge in population in the 1950s, when it increased by more than 5% for only the second decade this century. Polk once again made an impressive gain (more than 40,000). Black Hawk and Linn also continued to post substantial gains. Twelve counties had percentage increases greater than 10% and eight of these also had more than 10% growth the previous decade. Still, 58 counties declined, 16 losing more than 10%. Eight counties (Adams, Appanoose, Decatur, Fremont, Monona, Ringgold, Taylor, Wayne) were down at least 14% and all of them had lost at least 10% the previous decade as well. By the 1960 census, six counties (Adams, Clarke, Davis, Ringgold, Van Buren, Wayne) had slipped below 10,000 residents.

The 1960 population of 2,757,537 grew to 2,825,368 by 1970, but the rate of growth slowed somewhat to 2.5%. This time 74 counties experienced population declines, more than in any previous decade. Twenty-two had losses of at least 10%. As of 1970, 15 were under 10,000 in population. The least populous counties were Adams and Ringgold, each with just over 6,300 inhabitants. Woodbury had the highest numerical loss (-4,797) with Wapello next (-3,977). The trend of the previous decades continued, in that most counties with large cities increased, although Polk's gain of 19,815 was less than half that of the previous decade. The greatest growth in numbers came in Linn (+26,314) and Scott (+23,620) and increases greater than 25% occurred in Johnson (+34%), Story (+27%), and Warren (+32%).

Population declines slowed somewhat for many counties in the 1970s. Between 1970 and 1980, 42 counties lost population, fewer than in the previous decade. Only Pocahontas and Audubon counties had percentage declines above 10%. The largest numerical losses of the decade were in Wapello (-1,908), Webster (-2,438), and Woodbury (-2,168). In 1970 and 1980, the same fifteen counties had fewer than 10,000 residents. Growth counties were led by percentage gains of 24% in Dickinson and 27% in Warren. Numerical gains were largest in Polk and Scott, with increases greater than 17,000 in each. Polk surpassed 300,000 for the first time and, by 1980, the population of the state was more than 2.9 million.

Iowa's counties differed substantially when changes over the entire 1900-1980 period were examined (Table 3). Although the state gained 681,955 residents (+30.6%), nearly two-thirds (65) of the counties declined. Five counties (Adams, Ringgold, Taylor, Van Buren, Wayne) dropped by more than half their 1900 populations, with Ringgold's 60% loss the largest. Another 20 counties decreased by at least 25%. Counties with high percentage declines are located in the southern and west central areas of the state. Substantial downturns in the number of residents occurred in some counties. Appanoose (-10,416), Keokuk (-12,058), Mahaska (-11,406), and Taylor (-10,431) had at least 10,000 fewer residents in 1980 than in 1900. Six counties (Adams, Audubon, Keokuk, Taylor, Van Buren, Wayne) did not increase any decade this century and another 10 were down seven out of the eight decades.

Distinctly different trends took place in the 34 counties that had higher populations in 1980 than in 1900. Black Hawk, Johnson, Linn, Polk, Scott, and Story gained over 200%, with Black Hawk's increase of 325% the highest. Black Hawk, Linn, and Scott county each had at least 100,000 more people in 1980 than 80 years earlier and Polk gained more than 220,000. Eight counties increased every decade (Black Hawk, Dubuque, Johnson, Linn, Marshall, Polk, Scott, Story).

Projected Population in Iowa's Counties: 1990-2010

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Projections of the population of Iowa and its counties require the use of past trends, current information, and assumptions of what may occur in the future. Three sets of projections are reported in Table 1, each of which is based on assumptions concerning possible demographic or economic trends.

The projections released in 1984 by the Office of the State Demographer for Iowa, a position that no longer exists in state government, were based on demographic trends. Certain assumptions were made about births, deaths, and migration in the state and the counties through 1982 and projected to 1990 and the year 2000. The projections made by the Iowa Department of Transportation in 1987 considered the same trends, although data through at least 1985 were available as the base. These projections were carried forward through the year 2010. In 1987, Woods and Poole Economics, Inc. (1794 Columbia Road, NW; Washington, DC 20009), also provided projections to 2010. Economic models drive this third set of projections, with employment statistics acting as a key determinant of the figures.

For Iowa, the projections for 1990 vary from 2,853,000 to 2,933,000 in these three sets. The numbers for the year 2000 have a slightly larger range, differing from 2,900,000 to 2,996,000. In both years, the figures from the Office of the State Demographer are between the others, with those from Woods and Poole Economics, Inc., the highest. In 2010, the two projections that are available (Iowa Department of Transportation; Woods and Poole Economics, Inc.) differ by about 118,000, with the Woods and Poole projection again being higher at 3,048,000.

More counties are projected to lose population than gain from 1980 to 1990 no matter which set of projections is examined. The number of counties predicted to suffer losses varies from 62 to 70 among the three sets. For 1980 to 2000, again more are expected to decline than gain in each set, with from 57 to 64 projected to lose population. Similar figures occur when the 1980-2010 period is examined, with 55 to 60 counties projected to decline.

When changes from 1980 to 1990 are compared, the three projections agree on the direction of change for 64 of Iowa's 99 counties. In 48 counties, decline is projected in all three sets; increases are anticipated in 16 counties in all three projections. Agreement declines slightly when changes from 1980 to 2000 are examined. Decreases are projected for 39 counties and increases are expected in 18 counties in all three projections. In both of the sets of projections available for 2010, decreases are projected for 43 and increases for 27 counties; in the remaining 29 counties, one set projects population increase while the other anticipates fewer residents.

Note: Caution is urged in examining population projections. Assumptions underlying the three sets reported here vary substantially. One method of using them would be to build a range by indicating the upper and lower projections for a county. Another possibility would be to pool projections from the various sets for a specific time period and obtain an average. In using either of these suggestions or the individual projections alone, it is important to realize how difficult it is to project populations even a few years, let alone a few decades, into the future.

Table 1. Residents, 1980, and Projected Residents, 1990-2010, in Iowa Counties.

County	Census	State Demographer		Iowa Dept. of Transportation			Woods and Poole Economics		
	1980	1990	2000	1990	2000	2010	1990	2000	2010
Adair	9509	8700	8300	8704	8245	7746	9180	9100	9060
Adams	5731	5300	5200	5275	5026	4748	5480	5300	5140
Allamakee	15108	14800	15000	16099	17755	19419	14870	14470	14180
Appanoose	15511	14500	14400	14113	13291	12413	13260	11380	10670
Audubon	8559	8200	8100	7851	7455	7019	7270	6200	5760
Benton	23649	22700	22400	22943	23037	22940	23100	23050	23180
Black Hawk	137961	137200	139400	126797	120618	113787	139230	142460	144670
Boone	26184	25800	25500	25014	24734	24254	25860	25730	25700
Bremer	24820	25000	25600	25571	27267	28834	26470	29610	31780
Buchanan	22900	23700	25000	24102	26255	28363	23480	23800	23800
Buena Vista	20774	21300	21600	20218	20366	20344	22160	24440	25600
Butler	17668	17200	17000	17522	17986	18309	17660	18060	18330
Calhoun	13542	12900	12400	12092	11175	10241	12810	12490	12290
Carroll	22951	23100	23900	23236	24349	25303	24150	26710	28070
Cass	16932	17200	17500	16265	16171	15945	17010	16900	16840
Cedar	18635	18100	18000	19158	20385	21510	18950	19140	19490
Cerro Gordo	48458	47900	47400	47123	47430	47343	48770	48970	48800
Cherokee	16238	15600	15300	15171	14670	14069	15620	15490	15090
Chickasaw	15437	14900	15000	15756	16644	17436	15680	16690	17240
Clarke	8612	9400	10000	8784	9273	9708	8870	10070	11300
Clay	19576	18300	18000	17853	16851	15774	19890	22350	23900
Clayton	21098	20900	21200	21897	23522	25058	20890	20490	20220
Clinton	57122	56800	57400	52926	50755	48270	53860	51060	49200
Crawford	18935	20100	21200	19865	21570	23227	19940	20700	20850
Dallas	29513	28900	28900	30885	33453	35933	29680	29630	29760
Davis	9104	9800	10400	9495	10249	10971	9370	9630	9920
Decatur	9794	8800	8600	8450	7546	6683	9190	8960	8780
Delaware	18933	19300	20400	21115	24373	27900	18780	18360	18070
Des Moines	46203	44000	43300	43027	41473	39644	43060	39060	36070
Dickinson	15629	15700	15800	15165	15231	15170	16660	18340	18880
Dubuque	93745	90700	92300	92207	93871	94771	90110	88190	86840
Emmet	13336	13300	13400	11710	10642	9591	11920	10760	9910
Fayette	25488	24200	23900	23922	23239	22388	24530	23950	23200
Floyd	19597	18600	18300	18800	18667	18381	18680	18740	18970
Franklin	13036	12100	11500	12365	12140	11820	12370	12230	12170
Fremont	9401	9100	9000	8611	8164	7675	8000	6600	6060
Greene	12119	11600	11400	10906	10159	9384	10590	9410	8760
Grundy	14366	13500	13000	12867	11929	10967	13950	14030	14000
Guthrie	11983	11100	10600	11030	10508	9928	10920	10290	10130
Hamilton	17862	17400	17200	16361	15511	14583	17950	19520	20190
Hancock	13833	13600	13700	14161	15004	15765	13790	14030	14160
Hardin	21776	21200	21000	20822	20608	20226	21880	21360	20660
Harrison	16348	16000	16000	16044	16297	16417	14420	12380	11560
Henry	18890	18000	17700	18501	18755	18854	19740	21850	23700
Howard	11114	10800	10900	11280	11850	12344	10860	10720	10500
Humboldt	12246	11800	11600	11752	11673	11498	11830	11840	11680
Ida	8908	8500	8200	8887	9176	9396	8890	8910	8900
Iowa	15429	15100	15000	14574	14249	13816	15080	14800	14640
Jackson	22503	22300	22900	22885	24089	25146	22310	22290	22400
Jasper	36425	35600	35100	35362	35532	35407	36050	36060	36220

Table 1. Residents, 1980, and Projected Residents, 1990-2010, in Iowa Counties (continued).

County	Census	State Demographer		Iowa Dept. of Transportation			Woods and Poole Economics		
	1980	1990	2000	1990	2000	2010	1990	2000	2010
Jefferson	16316	16400	16200	16275	16802	17202	17240	19660	21290
Johnson	81717	87900	93700	82035	85239	87833	95300	113340	127120
Jones	20401	20200	20400	20991	22355	23609	20640	20770	21060
Keokuk	12921	12200	11900	12086	11700	11233	12200	11610	11090
Kossuth	21891	21400	21600	20713	20284	19700	21160	21050	20850
Lee	43106	42600	42800	40704	39782	38558	42200	40620	38990
Linn	169775	166100	167400	165356	166693	166645	170660	172190	174820
Louisa	12055	12600	13300	12340	13073	13735	12470	12900	13420
Lucas	10313	10600	10800	9886	9808	9650	9290	8470	8310
Lyon	12896	12600	12700	13299	14196	15027	12100	10690	9790
Madison	12597	12600	12800	12796	13454	14028	12420	12570	12770
Mahaska	22867	22200	22200	22521	22957	23207	23140	23360	23660
Marion	29669	31300	32500	31131	33809	36412	31280	33960	35780
Marshall	41652	43300	44600	40138	40034	39598	41510	41580	41810
Mills	13406	14600	15600	13992	15116	16194	14300	15220	16240
Mitchell	12329	11600	11300	11287	10695	10050	11870	11660	11710
Monona	11692	11100	10700	10343	9470	8599	11190	10510	10130
Monroe	9209	9000	8900	8404	7938	7436	8710	8500	8320
Montgomery	13413	12500	12200	12592	12236	11791	13120	13410	13810
Muscatine	40436	46400	51000	43807	49121	54622	49120	63550	73700
O'Brien	16972	17000	17100	16423	16448	16336	16830	16750	16620
Osceola	8371	7900	7800	7833	7587	7287	8080	8120	8250
Page	19063	18700	18500	17176	16017	14813	19050	19170	19340
Palo Alto	12721	12200	12100	11503	10765	9991	11920	11900	11950
Plymouth	24743	23900	24000	24245	24589	24732	24950	25820	26370
Pocahontas	11369	10700	10500	10637	10300	9891	10470	10080	9720
Polk	303170	316100	326900	307265	322322	335310	317120	324850	333030
Pottawattamie	86561	90100	93700	89005	94722	99971	88250	88590	89170
Poweshiek	19306	18200	17800	18297	17947	17458	18980	19840	20240
Ringgold	6112	5800	5600	5692	5487	5245	5220	4570	4310
Sac	14118	13300	12900	12522	11496	10466	11950	10720	10410
Scott	160022	166600	176000	158290	162060	164542	169870	181720	187750
Shelby	15043	14400	14300	15148	15789	16319	14300	14070	14260
Sioux	30813	31000	32500	33630	37989	42558	32270	33080	33100
Story	72326	73300	78500	70445	71015	70996	76230	83770	87970
Tama	19533	19000	18800	19257	19649	19883	17960	17630	18210
Taylor	8353	8200	8300	8045	8020	7928	7540	6660	6370
Union	13858	14100	14400	12757	12155	11485	13650	13990	14370
Van Buren	8626	8400	8500	8371	8408	8375	7860	7220	6850
Wapello	40241	38100	36800	37389	35955	34290	37830	34670	32530
Warren	34878	36100	37800	38175	43247	48586	37720	41410	45640
Washington	20141	20200	20600	20047	20653	21100	20270	20510	20920
Wayne	8199	7900	7800	7041	6258	5516	7520	7300	7300
Webster	45953	43700	42900	40026	36085	32262	40250	36430	33780
Winnebago	13010	11800	11300	12982	13409	13734	12940	12990	12950
Winneshiek	21876	22000	22900	23749	26686	29736	22090	22590	22960
Woodbury	100884	102400	105500	97684	97898	97297	100800	99760	99910
Worth	9075	8500	8100	8723	8679	8563	9030	9130	9170
Wright	16319	15800	15700	14904	14088	13207	17270	20740	23050
State of Iowa	2913808	2913500	2965000	2853477	2899700	2929721	2933190	2996270	3048460

Births, Deaths, and Natural Change in Iowa's Counties:

1980-1988

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The Iowa Department of Public Health annually records vital statistics for Iowa and its counties. Data for 1988 recently were released for births and deaths. Births are counted by the county of residence of the mother, which may not necessarily be the county in which the birth occurs. Similarly, deaths are reported by the county of residence of the deceased individual, although the death may have happened elsewhere.

BIRTHS

Iowa had 204 more births in 1988 than in 1987 (Table 1). That was the first increase this decade. Indeed, 9,727 fewer births occurred in 1988 than in 1980. A drop of 2,434 births took place between 1985 and 1986; this was the greatest decline between adjacent years.

Comparison of the most recent years indicates that 50 counties had more births in 1988 than in 1987, 48 had fewer births in the more recent year, and one (Fremont) had the same number both years. Increases in the number of births ranged from less than 10 in 15 counties to at least 40 in six others (Johnson, Linn, Muscatine, Pottawattamie, Scott, Woodbury). The greatest increase occurred in Linn, where there were 92 more births in 1988 than in 1987. Declines ranged from less than 10 in 20 counties to at least 40 in three others (Dubuque, -61; Marion, -42; Plymouth, -42).

Only one county (Johnson) had more births in 1988 than in 1980, indicating that most areas of Iowa mirrored the state's trend. In seven counties (Black Hawk, Clinton, Des Moines, Dubuque, Linn, Scott, Woodbury), there were at least 200 fewer births in 1988 than in 1980, led by a drop of 754 in Black Hawk. In 21 other counties, there were from 100 to 199 fewer births in 1988 than in 1980, while 48 counties had from 50 to 99 fewer births at the end than at the beginning of the period.

DEATHS

The number of deaths in Iowa has fluctuated much less than the number of births. Deaths in 1988 outnumbered those in 1980 by 756 (Table 2). The change between adjacent years never varied by more than 835 (1984-1985) and decreased as frequently as it increased from one year to the next. Most recently, deaths increased by 638 between 1987 and 1988.

A total of 41 counties had fewer deaths in 1988 than the previous year. The decline was less than 10 in 16 counties. Twenty-five counties had at least 10 fewer deaths in 1988 than in 1987, although only one (Muscatine, -43) had at least 40 fewer deaths during the more recent year. Two counties (Cedar, Ida) reported the same number of deaths in 1987 and 1988. The remaining 56 counties had more deaths in 1988 than in 1987. Seventeen had less than 10 more deaths in the more recent year, although seven others (Clinton, Des Moines, Floyd, Marion, Polk, Warren, Woodbury) had increases of at least 40. Polk (+120) was the only county with at least 100 more deaths in 1988 than in 1987.

Table 1. Births in Iowa Counties, 1980-1988.

County	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1988
Adair	86	94	111	122	114	115	143	125	166	1076
Adams	74	63	55	73	73	64	80	64	94	640
Allamakee	201	202	210	219	219	220	237	249	252	2009
Appanoose	167	162	180	188	197	194	184	229	241	1742
Audubon	82	95	89	111	135	120	119	112	151	1014
Benton	286	283	295	309	328	291	307	349	414	2862
Black Hawk	1628	1621	1739	1947	2093	2096	2245	2332	2382	18083
Boone	347	318	295	326	333	347	367	384	395	3112
Bremer	233	242	267	297	306	320	367	398	417	2847
Buchanan	310	325	287	367	381	393	454	448	447	3412
Buena Vista	302	263	294	314	290	302	313	344	322	2744
Butler	189	179	209	201	242	259	255	236	284	2054
Calhoun	111	145	152	149	140	171	196	170	204	1438
Carroll	312	338	361	373	384	416	384	416	436	3420
Cass	190	163	204	200	255	228	254	286	241	2021
Cedar	197	189	195	251	253	259	266	285	260	2155
Cerro Gordo	623	625	656	725	679	709	714	720	728	6179
Cherokee	169	166	211	199	207	229	231	245	238	1895
Chickasaw	170	154	201	177	224	224	265	260	258	1933
Clarke	112	114	109	116	104	112	136	122	126	1051
Clay	222	237	243	270	260	305	357	314	347	2555
Clayton	234	250	256	298	282	306	327	364	343	2660
Clinton	676	689	707	753	788	775	855	882	920	7045
Crawford	256	277	247	263	256	323	294	300	321	2537
Dallas	384	423	391	402	454	461	428	432	466	3841
Davis	115	110	124	134	128	148	137	149	149	1194
Decatur	98	110	95	106	112	107	136	125	129	1018
Delaware	290	284	281	320	311	341	362	331	401	2921
Des Moines	560	540	518	670	650	657	670	742	767	5774
Dickinson	147	175	165	177	195	178	227	199	229	1692
Dubuque	1192	1253	1199	1278	1362	1375	1447	1542	1584	12232
Emmet	139	144	139	159	160	196	200	214	227	1578
Fayette	297	263	278	298	357	362	404	380	405	3044
Floyd	197	208	213	236	241	285	250	276	259	2165
Franklin	136	139	148	173	193	165	176	191	195	1516
Fremont	103	103	124	116	117	124	117	132	131	1067
Greene	117	138	127	147	172	169	165	196	182	1413
Grundy	142	121	148	143	170	187	167	182	227	1487
Guthrie	117	104	115	119	156	144	149	160	179	1243
Hamilton	199	198	243	199	254	235	219	259	257	2063
Hancock	159	165	189	190	212	191	233	217	252	1808
Hardin	224	218	233	270	283	311	324	318	348	2529
Harrison	192	225	230	227	217	200	217	221	254	1983
Henry	248	236	250	238	264	260	270	278	303	2347
Howard	111	146	141	137	161	163	169	158	184	1370
Humboldt	143	138	149	163	186	178	189	191	188	1525
Ida	122	112	118	135	148	146	117	159	148	1205
Iowa	178	179	215	182	216	217	216	230	229	1862
Jackson	275	290	282	345	325	349	357	371	370	2964
Jasper	446	438	418	472	462	440	524	506	530	4236

Table 1. Births in Iowa Counties, 1980-1988 (continued).

County	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1988
Jefferson	208	178	218	222	224	233	209	210	217	1919
Johnson	1330	1285	1278	1326	1306	1254	1299	1350	1276	11704
Jones	240	216	220	290	262	275	280	272	323	2378
Keokuk	160	147	137	157	185	185	166	199	223	1559
Kossuth	245	249	265	262	295	350	344	332	397	2739
Lee	509	544	526	589	582	596	623	663	693	5325
Linn	2465	2373	2345	2450	2499	2479	2642	2567	2826	22646
Louisa	141	167	144	145	161	172	178	201	172	1481
Lucas	111	101	113	110	132	115	164	135	170	1151
Lyon	183	176	160	183	194	207	214	238	236	1791
Madison	161	138	140	164	154	150	158	155	197	1417
Mahaska	295	296	326	318	325	339	342	331	400	2972
Marion	363	405	368	439	403	434	463	439	449	3763
Marshall	488	455	520	555	588	622	617	654	673	5172
Mills	154	173	171	167	192	173	174	212	225	1641
Mitchell	137	133	147	148	149	173	154	171	196	1408
Monona	105	110	129	105	140	176	157	161	179	1262
Monroe	88	107	104	109	122	120	111	135	133	1029
Montgomery	148	153	136	152	179	189	183	187	205	1532
Muscatine	615	560	635	632	635	709	754	732	714	5986
O'Brien	173	184	206	213	235	263	274	287	279	2114
Osceola	104	87	88	107	105	131	124	127	137	1010
Page	209	189	183	235	204	226	237	266	270	2019
Palo Alto	133	122	134	181	162	215	184	214	209	1554
Plymouth	311	353	376	334	409	415	392	455	427	3472
Pocahontas	135	109	121	167	150	160	150	149	160	1301
Polk	4998	4987	4956	5087	4909	4974	4969	5093	5087	45060
Pottawattamie	1295	1252	1328	1334	1379	1426	1411	1469	1468	12362
Poweshiek	203	187	223	220	220	244	254	261	247	2059
Ringgold	56	60	45	78	84	71	107	80	86	667
Sac	142	149	153	177	182	175	183	235	235	1631
Scott	2368	2292	2545	2543	2647	2641	2751	2824	2954	23565
Shelby	170	172	160	171	237	211	240	189	253	1803
Siaux	471	457	494	511	519	574	560	584	636	4806
Story	949	933	944	1035	1039	1075	1010	1054	1055	9094
Tama	207	233	227	250	260	269	285	259	289	2279
Taylor	73	86	71	91	102	102	133	119	135	912
Union	143	152	167	150	165	190	192	226	212	1597
Van Buren	123	103	94	107	111	111	117	136	126	1028
Wapello	420	446	467	468	534	480	564	547	597	4523
Warren	483	487	466	506	489	485	495	514	551	4476
Washington	280	298	273	269	307	282	290	293	326	2618
Wayne	89	75	75	96	94	84	93	105	123	834
Webster	589	595	574	631	631	671	733	675	760	5859
Winnebago	164	152	171	162	170	172	178	162	197	1528
Winneshiek	272	269	288	287	321	321	309	300	327	2694
Woodbury	1582	1542	1457	1652	1601	1645	1691	1809	1793	14772
Worth	100	98	103	117	115	110	130	129	127	1029
Wright	174	177	171	196	203	206	208	220	247	1802
State of Iowa	38070	37866	38748	41182	42360	43247	44716	45918	47797	379904

Table 2. Deaths in Iowa Counties, 1980-1988.

County	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1988
Adair	103	124	124	103	115	113	104	110	112	1008
Adams	78	55	61	54	79	66	75	67	75	610
Allamakee	170	185	191	182	167	175	163	169	189	1591
Appanoose	191	197	164	221	183	169	168	196	212	1701
Audubon	115	94	84	112	74	100	117	102	75	873
Benton	250	235	210	219	213	246	207	213	213	2006
Black Hawk	1114	1080	1034	1081	998	1112	1059	1041	1059	9578
Boone	321	282	268	281	267	286	321	281	290	2597
Bremer	238	235	223	207	205	188	186	213	227	1922
Buchanan	204	183	190	180	211	216	218	171	192	1765
Buena Vista	240	221	210	260	214	253	217	240	246	2101
Butler	182	191	209	180	183	191	186	160	166	1648
Calhoun	174	169	157	211	174	168	173	164	186	1576
Carroll	210	229	190	216	237	244	252	240	238	2056
Cass	230	198	222	243	217	213	211	189	210	1933
Cedar	169	169	174	171	175	176	167	177	177	1555
Cerro Gordo	474	483	470	468	518	446	477	483	467	4286
Cherokee	164	177	156	184	168	172	171	172	176	1540
Chickasaw	133	169	149	150	157	141	116	161	159	1335
Clarke	99	93	87	111	102	96	83	101	106	878
Clay	171	189	199	169	180	165	161	171	186	1591
Clayton	225	232	236	261	239	228	234	217	235	2107
Clinton	577	502	555	491	546	604	539	580	534	4928
Crawford	160	172	201	214	190	197	183	201	179	1697
Dallas	292	304	268	270	265	267	272	259	262	2459
Davis	96	89	96	108	86	120	105	118	96	914
Decatur	98	105	118	121	91	141	136	99	119	1028
Delaware	160	153	178	176	184	166	186	169	182	1554
Des Moines	519	438	495	520	442	422	488	405	466	4195
Dickinson	179	147	145	162	169	156	172	152	135	1417
Dubuque	796	782	818	801	822	802	798	847	803	7269
Emmet	122	132	123	143	151	137	137	133	159	1237
Fayette	275	269	287	295	277	273	288	290	260	2514
Floyd	220	178	207	246	182	213	226	198	231	1901
Franklin	156	157	123	141	151	131	131	135	135	1260
Fremont	129	143	126	110	131	122	125	122	119	1127
Greene	159	148	137	159	155	147	135	166	136	1342
Grundy	148	128	136	139	112	135	147	123	138	1206
Guthrie	190	165	158	152	153	166	176	149	165	1474
Hamilton	199	169	173	167	171	195	200	165	162	1601
Hancock	150	135	125	142	133	144	131	147	159	1266
Hardin	226	243	263	244	246	230	233	262	243	2190
Harrison	221	212	173	205	188	190	204	197	205	1795
Henry	194	219	185	209	197	180	197	179	207	1767
Howard	129	153	130	144	146	137	133	139	112	1223
Humboldt	122	113	125	130	133	119	129	113	136	1120
Ida	115	115	109	103	101	113	104	99	107	966
Iowa	169	196	144	162	162	168	178	150	161	1490
Jackson	225	237	219	229	220	198	220	226	237	2011
Jasper	361	343	343	329	335	376	310	343	341	3081

Table 2. Deaths in Iowa Counties, 1980-1988 (continued).

County	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1988
Jefferson	160	162	169	165	171	177	168	168	154	1494
Johnson	421	452	444	482	444	452	403	392	395	3885
Jones	194	178	201	184	174	179	172	209	167	1658
Keokuk	171	152	147	168	169	186	154	189	166	1502
Kossuth	203	195	206	204	197	220	230	209	217	1881
Lee	459	435	446	453	387	462	406	458	456	3962
Linn	1288	1269	1307	1245	1181	1287	1222	1227	1271	11297
Louisa	136	107	119	101	104	109	122	119	110	1027
Lucas	126	107	114	152	119	125	131	130	115	1119
Lyon	96	117	137	121	120	120	105	105	134	1055
Madison	156	141	156	153	143	160	128	140	126	1303
Mahaska	237	230	261	267	261	248	243	244	233	2224
Marion	323	276	297	287	308	293	277	297	256	2615
Marshall	421	458	392	437	417	439	423	412	427	3826
Mills	123	148	140	138	128	111	144	123	133	1188
Mitchell	140	166	108	154	161	169	150	138	142	1328
Monona	153	144	149	177	172	167	159	139	143	1403
Monroe	104	112	127	113	109	125	117	139	116	1062
Montgomery	178	175	177	165	195	147	173	151	152	1513
Muscatine	340	383	341	379	389	360	364	359	339	3254
O'Brien	200	209	159	194	198	195	215	166	198	1734
Osceola	81	101	97	96	88	99	81	96	105	844
Page	235	239	238	256	234	253	243	281	223	2202
Palo Alto	147	145	140	149	135	149	147	147	148	1307
Plymouth	215	243	210	246	245	249	244	207	246	2105
Pocahontas	160	128	114	150	145	131	176	132	169	1305
Polk	2604	2484	2499	2533	2427	2461	2373	2393	2456	22230
Pottawattamie	829	819	747	802	800	772	752	771	786	7078
Poweshiek	206	188	199	195	209	175	192	187	192	1743
Ringgold	71	78	80	88	70	73	74	89	84	707
Sac	165	168	172	176	168	178	188	173	147	1535
Scott	1211	1217	1236	1174	1214	1234	1093	1209	1173	10761
Shelby	163	147	151	155	139	161	146	158	168	1388
Sioux	255	238	235	278	235	228	234	229	236	2168
Story	412	411	418	425	357	396	404	361	402	3586
Tama	176	198	209	232	210	201	187	234	211	1858
Taylor	98	119	122	98	106	126	127	127	114	1037
Union	171	175	168	167	166	181	170	174	153	1525
Van Buren	134	107	116	117	83	123	109	99	119	1007
Wapello	476	442	506	443	513	488	441	477	498	4284
Warren	288	242	246	244	261	230	223	217	227	2178
Washington	212	219	208	235	226	226	186	203	207	1922
Wayne	104	107	124	138	111	129	97	142	128	1080
Webster	495	490	448	473	468	486	489	489	472	4310
Winnebago	150	147	119	139	151	137	134	145	133	1255
Winneshiek	198	182	221	229	207	224	178	188	179	1806
Woodbury	1017	943	940	950	950	970	1013	971	984	8738
Worth	120	102	108	108	103	108	100	104	93	946
Wright	187	181	185	199	189	177	196	209	208	1731
State of Iowa	27851	27213	27021	27810	26972	27509	26852	26930	27096	245255

Table 3. Natural Change in Iowa Counties, 1980-1988.

County	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1988
Adair	-17	-30	-13	19	-1	2	39	15	54	68
Adams	-4	8	-6	19	-6	-2	5	-3	19	30
Allamakee	31	17	19	37	52	45	74	80	63	418
Appanoose	-24	-35	16	-33	14	25	16	33	29	41
Audubon	-33	1	5	-1	61	20	2	10	76	141
Benton	36	48	85	90	115	45	100	136	201	856
Black Hawk	514	541	705	866	1095	984	1186	1291	1323	8505
Boone	26	36	27	45	66	61	46	103	105	515
Bremer	-5	7	44	90	101	132	181	185	190	925
Buchanan	106	142	97	187	170	177	236	277	255	1647
Buena Vista	62	42	84	54	76	49	96	104	76	643
Butler	7	-12	0	21	59	68	69	76	118	406
Calhoun	-63	-24	-5	-62	-34	3	23	6	18	-138
Carroll	102	109	171	157	147	172	132	176	198	1364
Cass	-40	-35	-18	-43	38	15	43	97	31	88
Cedar	28	20	21	80	78	83	99	108	83	600
Cerro Gordo	149	142	186	257	161	263	237	237	261	1893
Cherokee	5	-11	55	15	39	57	60	73	62	355
Chickasaw	37	-15	52	27	67	83	149	99	99	598
Clarke	13	21	22	5	2	16	53	21	20	173
Clay	51	48	44	101	80	140	196	143	161	964
Clayton	9	18	20	37	43	78	93	147	108	553
Clinton	99	187	152	262	242	171	316	302	386	2117
Crawford	96	105	46	49	66	126	111	99	142	840
Dallas	92	119	123	132	189	194	156	173	204	1382
Davis	19	21	28	26	42	28	32	31	53	280
Decatur	0	5	-23	-15	21	-34	0	26	10	-10
Delaware	130	131	103	144	127	175	176	162	219	1367
Des Moines	41	102	23	150	208	235	182	337	301	1579
Dickinson	-32	28	20	15	26	22	55	47	94	275
Dubuque	396	471	381	477	540	573	649	695	781	4963
Emmet	17	12	16	16	9	59	63	81	68	341
Fayette	22	-6	-9	3	80	89	116	90	145	530
Floyd	-23	30	6	-10	59	72	24	78	28	264
Franklin	-20	-18	25	32	42	34	45	56	60	256
Fremont	-26	-40	-2	6	-14	2	-8	10	12	-60
Greene	-42	-10	-10	-12	17	22	30	30	46	71
Grundy	-6	-7	12	4	58	52	20	59	89	281
Guthrie	-73	-61	-43	-33	3	-22	-27	11	14	-231
Hamilton	0	29	70	32	83	40	19	94	95	462
Hancock	9	30	64	48	79	47	102	70	93	542
Hardin	-2	-25	-30	26	37	81	91	56	105	339
Harrison	-29	13	57	22	29	10	13	24	49	188
Henry	54	17	65	29	67	80	73	99	96	580
Howard	-18	-7	11	-7	15	26	36	19	72	147
Humboldt	21	25	24	33	53	59	60	78	52	405
Ida	7	-3	9	32	47	33	13	60	41	239
Iowa	9	-17	71	20	54	49	38	80	68	372
Jackson	50	53	63	116	105	151	137	145	133	953
Jasper	85	95	75	143	127	64	214	163	189	1155

Table 3. Natural Change in Iowa Counties, 1980-1988 (continued).

County	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1988
Jefferson	48	16	49	57	53	56	41	42	63	425
Johnson	909	833	834	844	862	802	896	958	881	7819
Jones	46	38	19	106	88	96	108	63	156	720
Keokuk	-11	-5	-10	-11	16	-1	12	10	57	57
Kossuth	42	54	59	58	98	130	114	123	180	858
Lee	50	109	80	136	195	134	217	205	237	1363
Linn	1177	1104	1038	1205	1318	1192	1420	1340	1555	11349
Louisa	5	60	25	44	57	63	56	82	62	454
Lucas	-15	-6	-1	-42	13	-10	33	5	55	32
Lyon	87	59	23	62	74	87	109	133	102	736
Madison	5	-3	-16	11	11	-10	30	15	71	114
Mahaska	58	66	65	51	64	91	99	87	167	748
Marion	40	129	71	152	95	141	186	142	193	1148
Marshall	67	-3	128	118	171	183	194	242	246	1346
Mills	31	25	31	29	64	62	30	89	92	453
Mitchell	-3	-33	39	-6	-12	4	4	33	54	80
Monona	-48	-34	-20	-72	-32	9	-2	22	36	-141
Monroe	-16	-5	-23	-4	13	-5	-6	-4	17	-33
Montgomery	-30	-22	-41	-13	-16	42	10	36	53	19
Muscatine	275	177	294	253	246	349	390	373	375	2732
O'Brien	-27	-25	47	19	37	68	59	121	81	380
Osceola	23	-14	-9	11	17	32	43	31	32	166
Page	-26	-50	-55	-21	-30	-27	-6	-15	47	-183
Palo Alto	-14	-23	-6	32	27	66	37	67	61	247
Plymouth	96	110	166	88	164	166	148	248	181	1367
Pocahontas	-25	-19	7	17	5	29	-26	17	-9	-4
Polk	2394	2503	2457	2554	2482	2513	2596	2700	2631	22830
Pottawattamie	466	433	581	532	579	654	659	698	682	5284
Poweshiek	-3	-1	24	25	11	69	62	74	55	316
Ringgold	-15	-18	-35	-10	14	-2	33	-9	2	-40
Sac	-23	-19	-19	1	14	-3	-5	62	88	96
Scott	1157	1075	1309	1369	1433	1407	1658	1615	1781	12804
Shelby	7	25	9	16	98	50	94	31	85	415
Sioux	216	219	259	233	284	346	326	355	400	2638
Story	537	522	526	610	682	679	606	693	653	5508
Tama	31	35	18	18	50	68	98	25	78	421
Taylor	-25	-33	-51	-7	-4	-24	6	-8	21	-125
Union	-28	-23	-1	-17	-1	9	22	52	59	72
Van Buren	-11	-4	-22	-10	28	-12	8	37	7	21
Wapello	-56	4	-39	25	21	-8	123	70	99	239
Warren	195	245	220	262	228	255	272	297	324	2298
Washington	68	79	65	34	81	56	104	90	119	696
Wayne	-15	-32	-49	-42	-17	-45	-4	-37	-5	-246
Webster	94	105	126	158	163	185	244	186	288	1549
Winnebago	14	5	52	23	19	35	44	17	64	273
Winneshiek	74	87	67	58	114	97	131	112	148	888
Woodbury	565	599	517	702	651	675	678	838	809	6034
Worth	-20	-4	-5	9	12	2	30	25	34	83
Wright	-13	-4	-14	-3	14	29	12	11	39	71
State of Iowa	10219	10653	11727	13372	15388	15738	17864	18988	20701	134649

The different trends for births and deaths are highlighted when 1988 data are compared with those for 1980. Births were lower in 1988 in all but one county, and the drop was at least 500 in two (Black Hawk, -744; Scott, -586). For deaths, the differences are much smaller. In no county did deaths decline by as many as 40 when 1980 and 1988 are compared. Indeed, the difference was less than 10 in 11 of the 40 counties that had fewer deaths in 1988 than in 1980. More deaths were reported in 1988 than in 1980 in 58 counties, although only one (Polk, +148) had at least 100 more deaths at the end of the period. One county (Davis) had the same number of deaths in 1988 as in 1980.

NATURAL CHANGE

The result of subtracting deaths from births is called natural change. This is an indication of population change caused by the natural events of birth and death. Iowa has had more births than deaths each year during the 1980s, resulting in natural increase of 134,649 (Table 3). But births outnumbered deaths by a smaller margin each year from 1980 through 1988. Indeed, the difference has been halved. Natural increase was 20,701 in 1980, while it was 10,218 in 1988.

In 1988, 60 counties reported natural increases ranging from less than 10 in nine counties to more than 100 in 16 others. Three counties (Linn, +1,177; Polk, +2,394; Scott, +1,157) had at least 1,000 more births than deaths in 1988. Four others (Black Hawk, +514; Johnson, +909; Story, +537; Woodbury, +565) had natural increases of at least 500 that year.

A total of 37 counties had natural decreases in 1988. Deaths outnumbered births by at least 50 in only three counties (Calhoun, -63; Guthrie, -73; Wapello, -56). In six others (Adams, Bremer, Grundy, Hardin, Mitchell, Poweshiek), there were fewer than 10 more deaths than births in 1988. In 1980, only two counties (Pocahontas, Wayne) reported more deaths than births. Thus, there has been a rapid increase in the number of counties experiencing natural decrease in Iowa, especially since 1984.

Over the entire period from 1980 through 1988, 11 counties (Calhoun, Decatur, Fremont, Guthrie, Monona, Monroe, Page, Pocahontas, Ringgold, Taylor, Wayne) had more deaths than births. In six of these (Calhoun, -138; Guthrie, -231; Monona, -141; Page, -183; Taylor, -125; Wayne, -246), natural decreases topped 100. Of the 88 counties with natural increases from 1980 through 1988, three (Linn, +11,349; Polk, +22,830; Scott, +12,804) are greater than 10,000. At least 1,000 more births than deaths occurred in 22 other counties.

Contrasting the four most recent years (1985-1988) with the previous four (1981-1984) indicates the change that has occurred in Iowa. During the 1981-1984 period, only nine counties had natural decreases. Births outnumbered deaths in the other 90 counties. In 13 counties, natural increase was at least 1,000; it was 500 to 999 in 15 others, 100 to 499 in 42, and less than 100 in the remaining 20.

From 1985 through 1988, however, births were greater than deaths in 69 counties, a drop of 21 from the 1981-1984 period. Natural increase topped 1,000 in nine counties, while it ranged from 500 to 999 in eight, 100 to 499 in 32, and less than 100 in 20 counties. During the years from 1985 through 1988, 30 counties had natural decreases, compared with nine in 1981-1984. Deaths exceeded births by margins greater than 100 in eight counties.

CONCLUDING COMMENTS

While the number of deaths in Iowa has changed relatively little through the 1980s, births have declined substantially. At the beginning of the decade, the state and nearly all counties had more births than deaths. More recently, however, there has been an increasing number of counties experiencing more deaths than births. These trends suggest that many counties will continue to have difficulty adding to their populations through natural events.

Note: See an annual publication called VITAL STATISTICS OF IOWA for more detailed data on births and deaths (Iowa Department of Public Health, Lucas State Office Building, Des Moines, IA 50319). The most recent volume is for 1987.

Estimated Birth and Death Rates in Iowa's Counties:

1980-1988

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Trends in birth and death rates provide indications of basic changes in the population. Differences across geographical units such as states or counties are enhanced when rates are compared. Such rates are calculated by dividing the number of births or deaths by the estimated population. The result is multiplied by 1,000. Thus, the rates reported in Tables 1 and 2 should be interpreted as the number of births or deaths per 1,000 residents.

IOWA AND NATIONAL BIRTH AND DEATH RATES

The birth rate for Iowa has dropped substantially this decade. There were about three more births per 1,000 residents in 1980 (16.40) than in 1988 (13.43). The death rate in Iowa has not changed as much; it increased about half a point from 9.30 in 1980 to 9.83 in 1988. Both of these changes are in marked contrast to the figures at the national level, where both birth rates (1980, 15.8; 1988, 15.9) and death rates (1980, 8.7; 1988, 8.8) remained relatively stable. Iowa joined Kentucky, Maine, Pennsylvania, and West Virginia as the only states with 1988 birth rates two points or more below that of the nation. States other than Iowa with death rates a point or more above the 1988 national figure included Arkansas, Florida, Massachusetts, Missouri, Pennsylvania, Rhode Island, Tennessee, and West Virginia.

COUNTY DATA ON BIRTH AND DEATH RATES

In 1988, 22 counties had birth rates above the state figure of 13.43 (Table 1). Three counties (Delaware, Sioux, Woodbury) had rates at least two points above that for Iowa, while another eight (Buena Vista, Johnson, Lyon, Muscatine, Polk, Pottawattamie, Scott, Van Buren) had rates at least a point above the state average. Of the 77 counties with birth rates below that of the state, 22 fell at least two points under the state level and another 29 were one point but less than two below 13.43. Three counties (Calhoun, Dickinson, Taylor) had less than 10 births for every 1,000 residents in 1988.

Death rates in 1988 varied from under 5.0 (Johnson, 4.86) to more than 17.0 (Guthrie, 17.27) in Iowa's counties (Table 2). Although only four counties (Linn, Johnson, Scott, Story) had death rates at least two points below the state average of 9.83, 39 counties reported rates two or more points greater than that for the state. Six counties (Audubon, Cass, Greene, Guthrie, Pocahontas, Van Buren) had rates at least five points higher than did the state. A total of 73 counties had death rates above the state figure.

In 1988, 14 counties had birth rates at least two points below that of the state and death rates at least two points above the state. Nine (Adair, Audubon, Calhoun, Greene, Guthrie, Ringgold, Sac, Taylor, Union) formed a contiguous area in western Iowa. The others were Floyd, Howard, Monona, Monroe, and O'Brien.

In contrast, no county had birth rates at least two points above and death rates at least two points below the state figures. But seven counties had birth rates a point above and death rates a point below the state averages. Three (Johnson, Muscatine, Scott) were in the east-central section of the state and two (Lyon, Sioux) were in the northwest corner; the other two were Delaware and Polk counties.

Table 1. Estimated Birth Rates Per 1,000 Population in Iowa Counties, 1980-1988.

County	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	10.12	10.93	12.76	13.56	12.26	12.37	15.38	13.16	17.46
Adams	13.96	11.67	10.38	13.27	13.04	11.43	14.29	11.23	16.40
Allamakee	13.49	13.56	14.00	14.31	14.22	14.29	15.70	16.49	16.68
Appanoose	11.68	11.33	12.59	12.88	13.31	12.93	12.11	14.87	15.54
Audubon	10.79	12.34	11.27	13.54	16.07	14.46	14.17	13.18	17.64
Benton	12.60	12.52	13.00	13.43	14.20	12.60	13.12	14.73	17.51
Black Hawk	13.08	12.98	13.68	14.82	15.47	15.37	16.35	16.91	17.27
Boone	13.66	12.52	11.57	12.64	12.81	13.30	14.06	14.60	15.09
Bremer	10.00	10.34	11.22	12.22	12.39	12.85	14.74	15.98	16.80
Buchanan	14.22	15.05	13.17	16.31	16.64	16.94	19.57	19.31	19.52
Buena Vista	15.02	13.02	14.34	15.17	13.81	14.45	15.05	16.46	15.50
Butler	11.60	10.98	12.59	11.75	13.91	14.89	14.57	13.41	16.07
Calhoun	9.17	11.98	12.46	11.83	10.77	12.95	14.63	12.59	15.06
Carroll	13.93	15.16	16.04	16.36	16.70	18.17	16.84	18.09	19.00
Cass	12.26	10.45	12.75	12.05	14.91	13.41	14.94	16.73	14.23
Cedar	10.88	10.44	10.60	13.35	13.39	13.70	14.22	15.16	13.95
Cerro Gordo	12.95	13.02	13.47	14.77	13.97	14.65	14.75	14.85	15.02
Cherokee	11.50	11.14	13.97	12.76	13.02	14.31	14.44	15.12	14.66
Chickasaw	11.89	10.69	13.58	11.72	14.55	14.45	17.10	16.77	16.71
Clarke	12.73	13.10	12.67	13.49	11.82	12.73	15.28	14.02	14.63
Clay	12.61	13.47	13.43	14.44	13.47	15.72	18.50	16.10	17.73
Clayton	11.58	12.38	12.55	14.19	13.30	14.50	15.57	17.25	16.26
Clinton	12.78	13.05	13.24	13.79	14.22	13.84	15.08	15.50	16.11
Crawford	13.91	15.05	13.35	13.84	13.26	16.74	15.39	15.71	16.95
Dallas	12.63	14.19	13.16	13.44	15.23	15.47	14.51	14.64	15.79
Davis	13.22	12.50	13.93	14.89	14.07	16.26	15.05	16.20	16.37
Decatur	11.40	12.64	10.67	11.65	12.04	11.38	14.02	12.76	13.17
Delaware	15.59	15.19	15.03	16.67	16.11	17.85	19.05	17.42	21.18
Des Moines	12.64	12.24	11.72	14.96	14.38	14.50	14.63	15.99	16.60
Dickinson	9.61	11.59	10.86	11.49	12.58	11.48	14.65	12.76	14.65
Dubuque	13.11	13.83	13.22	13.91	14.79	14.91	15.54	16.44	16.90
Emmet	11.98	12.41	11.78	12.82	12.60	15.31	15.27	16.09	17.02
Fayette	13.14	11.54	11.93	12.31	14.34	14.48	16.03	15.02	15.89
Floyd	10.88	11.43	11.58	12.36	12.55	14.69	12.95	14.15	13.22
Franklin	11.53	11.58	12.03	13.73	15.20	12.89	13.64	14.69	14.96
Fremont	11.70	11.57	13.93	12.89	12.72	13.48	12.72	14.19	13.93
Greene	10.93	12.66	11.44	12.78	14.70	14.20	13.87	16.20	15.02
Grundy	11.18	9.45	11.30	10.51	12.41	13.36	11.84	12.73	15.80
Guthrie	10.64	9.45	10.18	10.35	13.45	12.52	12.74	13.56	14.94
Hamilton	11.78	11.72	14.13	11.50	14.60	13.35	12.37	14.47	14.39
Hancock	11.95	12.50	14.10	13.87	15.36	14.04	17.01	15.84	18.22
Hardin	11.31	10.85	11.26	12.68	13.04	14.40	14.93	14.65	15.98
Harrison	12.08	14.24	14.47	14.19	13.48	12.35	13.31	13.56	15.54
Henry	13.19	12.49	13.30	12.86	14.27	14.05	14.52	14.79	16.04
Howard	10.57	13.77	13.18	12.57	14.50	14.82	15.23	14.23	16.56
Humboldt	12.65	12.21	12.84	13.70	15.37	14.71	15.62	15.53	15.35
Ida	14.19	13.02	13.41	15.17	16.63	16.40	13.30	17.87	16.61
Iowa	12.11	12.09	14.33	11.97	14.21	14.28	14.21	14.94	14.84
Jackson	12.67	13.30	12.88	15.47	14.44	15.51	15.94	16.49	16.44
Jasper	12.32	12.20	11.68	13.18	12.87	12.26	14.48	13.94	14.55

Table 1. Estimated Birth Rates Per 1,000 Population in Iowa Counties, 1980-1988 (continued).

County	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	12.46	10.79	13.21	13.45	13.58	14.29	12.74	13.04	13.30
Johnson	15.34	15.01	15.00	15.51	15.31	14.88	15.58	16.28	15.61
Jones	12.12	10.96	11.06	14.36	12.84	13.55	13.79	13.33	15.83
Keokuk	13.33	12.25	11.23	12.56	14.68	14.57	13.07	15.55	17.26
Kossuth	12.44	12.58	13.12	12.48	13.79	16.36	16.07	15.30	18.14
Lee	12.60	13.40	12.80	14.16	13.79	14.06	14.62	15.49	16.08
Linn	14.37	14.02	13.93	14.50	14.80	14.75	15.67	15.14	16.65
Louisa	11.75	14.03	12.10	12.08	13.31	14.21	14.71	16.48	14.27
Lucas	11.68	10.52	11.65	11.00	12.94	11.27	15.77	13.11	16.48
Lyon	15.00	14.43	12.90	14.52	15.16	16.05	16.72	18.45	18.30
Madison	12.78	11.04	11.29	13.23	12.42	12.10	12.64	12.30	15.64
Mahaska	13.17	13.33	14.62	14.20	14.38	15.13	15.20	14.58	17.49
Marion	12.02	13.59	12.39	14.78	13.48	14.52	15.43	14.73	15.13
Marshall	12.39	11.52	12.90	13.54	14.13	14.81	14.66	15.57	16.16
Mills	11.49	13.11	12.95	12.37	14.22	12.91	12.99	15.70	16.78
Mitchell	11.91	11.57	12.67	12.54	12.52	14.30	12.73	14.02	15.90
Monona	10.10	10.48	12.17	9.63	12.39	15.30	13.77	13.88	15.31
Monroe	10.48	12.74	12.24	12.39	13.86	13.33	12.33	14.84	14.44
Montgomery	12.13	12.54	10.88	11.69	13.46	14.32	13.86	13.96	15.28
Muscatine	14.96	13.69	15.41	15.27	15.23	17.00	18.04	17.77	17.66
O'Brien	11.09	11.79	12.96	12.99	13.99	15.47	16.21	16.88	16.44
Osceola	13.68	11.30	11.28	13.21	12.65	15.78	15.12	15.30	16.37
Page	12.22	10.99	10.40	12.98	11.03	12.22	12.67	14.07	14.16
Palo Alto	11.98	10.89	11.65	14.96	13.17	17.06	14.60	16.85	16.43
Plymouth	12.90	14.71	15.67	13.92	16.76	16.94	15.93	18.20	17.26
Pocahontas	13.11	10.48	11.31	15.05	13.51	14.29	13.51	13.19	14.07
Polk	15.39	15.64	15.75	16.20	15.75	16.08	16.20	16.64	16.78
Pottawattamie	14.72	14.29	15.19	15.14	15.62	16.28	16.18	16.89	16.96
Poweshiek	10.74	10.00	11.93	11.64	11.70	12.77	13.30	13.52	12.79
Ringgold	10.37	11.11	8.18	13.45	14.00	11.83	17.54	13.11	14.07
Sac	11.27	11.73	11.86	13.41	13.58	12.87	13.26	16.79	16.65
Scott	15.24	14.76	16.26	16.02	16.56	16.50	17.07	17.54	18.46
Shelby	12.06	12.11	11.11	11.55	15.59	14.07	16.00	12.60	16.82
Sioux	15.60	15.23	16.30	16.59	16.74	18.58	18.30	19.02	20.64
Story	13.20	13.09	13.06	14.18	14.21	14.79	14.05	14.54	14.59
Tama	11.25	12.59	12.07	13.02	13.33	13.87	14.69	13.63	14.80
Taylor	9.73	11.32	9.22	11.38	12.44	12.29	15.83	14.17	16.16
Union	11.09	11.69	12.75	11.28	12.13	13.77	13.91	16.26	15.30
Van Buren	15.00	12.56	11.46	12.74	13.06	12.91	13.60	15.63	14.61
Wapello	11.48	12.02	12.32	12.03	13.55	12.15	14.24	13.64	14.84
Warren	13.16	13.38	12.94	14.17	13.74	13.70	14.10	14.60	15.80
Washington	13.93	14.97	13.65	13.38	15.20	14.03	14.36	14.43	16.19
Wayne	12.54	10.27	10.14	12.63	12.05	10.63	11.63	12.96	15.00
Webster	14.12	14.20	13.57	14.54	14.28	15.04	16.25	14.80	16.54
Winnebago	13.23	12.26	13.46	12.56	13.18	13.44	14.02	12.76	15.14
Winneshiek	12.42	12.34	13.15	12.93	14.39	14.39	13.98	13.57	14.95
Woodbury	16.06	15.83	14.87	16.59	15.98	16.40	16.79	17.86	17.77
Worth	11.63	11.53	11.70	13.00	12.64	12.22	14.44	14.18	13.99
Wright	11.84	11.96	11.32	12.48	12.69	12.88	13.00	13.66	15.14
State of Iowa	13.43	13.41	13.64	14.29	14.59	14.89	15.38	15.74	16.40

Table 2. Estimated Death Rates Per 1,000 Population in Iowa Counties, 1980-1988.

County	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	12.12	14.42	14.25	11.44	12.37	12.15	11.18	11.58	11.78
Adams	14.72	10.19	11.51	9.82	14.11	11.79	13.39	11.75	13.09
Allamakee	11.41	12.42	12.73	11.90	10.84	11.36	10.79	11.19	12.51
Appanoose	13.36	13.78	11.47	15.14	12.36	11.27	11.05	12.73	13.67
Audubon	15.13	12.21	10.63	13.66	8.81	12.05	13.93	12.00	8.76
Benton	11.01	10.40	9.25	9.52	9.22	10.65	8.85	8.99	9.01
Black Hawk	8.95	8.65	8.14	8.23	7.38	8.15	7.71	7.55	7.68
Boone	12.64	11.10	10.51	10.89	10.27	10.96	12.30	10.68	11.08
Bremer	10.21	10.04	9.37	8.52	8.30	7.55	7.47	8.55	9.15
Buchanan	9.36	8.47	8.72	8.00	9.21	9.31	9.40	7.37	8.38
Buena Vista	11.94	10.94	10.24	12.56	10.19	12.11	10.43	11.48	11.84
Butler	11.17	11.72	12.59	10.53	10.52	10.98	10.63	9.09	9.40
Calhoun	14.38	13.97	12.87	16.75	13.38	12.73	12.91	12.15	13.74
Carroll	9.38	10.27	8.44	9.47	10.30	10.66	11.05	10.43	10.37
Cass	14.84	12.69	13.88	14.64	12.69	12.53	12.41	11.05	12.40
Cedar	9.34	9.34	9.46	9.10	9.26	9.31	8.93	9.41	9.50
Cerro Gordo	9.85	10.06	9.65	9.53	10.66	9.21	9.86	9.96	9.64
Cherokee	11.16	11.88	10.33	11.79	10.57	10.75	10.69	10.62	10.84
Chickasaw	9.30	11.74	10.07	9.93	10.19	9.10	7.48	10.39	10.30
Clarke	11.25	10.69	10.12	12.91	11.59	10.91	9.33	11.61	12.31
Clay	9.72	10.74	10.99	9.04	9.33	8.51	8.34	8.77	9.50
Clayton	11.14	11.49	11.57	12.43	11.27	10.81	11.14	10.28	11.14
Clinton	10.91	9.51	10.39	8.99	9.86	10.79	9.51	10.19	9.35
Crawford	8.70	9.35	10.86	11.26	9.84	10.21	9.58	10.52	9.45
Dallas	9.61	10.20	9.02	9.03	8.89	8.96	9.22	8.78	8.88
Davis	11.03	10.11	10.79	12.00	9.45	13.19	11.54	12.83	10.54
Decatur	11.40	12.07	13.26	13.30	9.78	15.00	14.02	10.10	12.15
Delaware	8.60	8.18	9.52	9.17	9.53	8.69	9.79	8.89	9.61
Des Moines	11.72	9.93	11.20	11.61	9.78	9.32	10.66	8.73	10.09
Dickinson	11.70	9.74	9.54	10.52	10.90	10.06	11.10	9.74	8.64
Dubuque	8.76	8.63	9.02	8.72	8.93	8.70	8.57	9.03	8.57
Emmet	10.52	11.38	10.42	11.53	11.89	10.70	10.46	10.00	11.92
Fayette	12.17	11.80	12.32	12.19	11.12	10.92	11.43	11.46	10.20
Floyd	12.15	9.78	11.25	12.88	9.48	10.98	11.71	10.15	11.79
Franklin	13.22	13.08	10.00	11.19	11.89	10.23	10.16	10.38	10.36
Fremont	14.66	16.07	14.16	12.22	14.24	13.26	13.59	13.12	12.66
Greene	14.86	13.58	12.34	13.83	13.25	12.35	11.34	13.72	11.22
Grundy	11.65	10.00	10.38	10.22	8.18	9.64	10.43	8.60	9.61
Guthrie	17.27	15.00	13.98	13.22	13.19	14.43	15.04	12.63	13.77
Hamilton	11.78	10.00	10.06	9.65	9.83	11.08	11.30	9.22	9.07
Hancock	11.28	10.23	9.33	10.36	9.64	10.59	9.56	10.73	11.49
Hardin	11.41	12.09	12.71	11.46	11.34	10.65	10.74	12.07	11.16
Harrison	13.90	13.42	10.88	12.81	11.68	11.73	12.52	12.09	12.54
Henry	10.32	11.59	9.84	11.30	10.65	9.73	10.59	9.52	10.96
Howard	12.29	14.43	12.15	13.21	13.15	12.45	11.98	12.52	10.08
Humboldt	10.80	10.00	10.78	10.92	10.99	9.83	10.66	9.19	11.11
Ida	13.37	13.37	12.39	11.57	11.35	12.70	11.82	11.12	12.01
Iowa	11.50	13.24	9.60	10.66	10.66	11.05	11.71	9.74	10.43
Jackson	10.37	10.87	10.00	10.27	9.78	8.80	9.82	10.04	10.53
Jasper	9.97	9.55	9.58	9.19	9.33	10.47	8.56	9.45	9.36

Table 2. Estimated Death Rates Per 1,000 Population in Iowa Counties, 1980-1988 (continued).

County	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	9.58	9.82	10.24	10.00	10.36	10.86	10.24	10.43	9.44
Johnson	4.86	5.28	5.21	5.64	5.21	5.36	4.83	4.73	4.83
Jones	9.80	9.04	10.10	9.11	8.53	8.82	8.47	10.25	8.19
Keokuk	14.25	12.67	12.05	13.44	13.41	14.65	12.13	14.77	12.85
Kossuth	10.30	9.85	10.20	9.71	9.21	10.28	10.75	9.63	9.91
Lee	11.36	10.71	10.85	10.89	9.17	10.90	9.53	10.70	10.58
Linn	7.51	7.50	7.77	7.37	6.99	7.66	7.25	7.23	7.49
Louisa	11.33	8.99	10.00	8.42	8.60	9.01	10.08	9.75	9.12
Lucas	13.26	11.15	11.75	15.20	11.67	12.25	12.60	12.62	11.15
Lyon	7.87	9.59	11.05	9.60	9.38	9.30	8.20	8.14	10.39
Madison	12.38	11.28	12.58	12.34	11.53	12.90	10.24	11.11	10.00
Mahaska	10.58	10.36	11.70	11.92	11.55	11.07	10.80	10.75	10.19
Marion	10.73	9.26	10.00	9.66	10.30	9.80	9.23	9.97	8.63
Marshall	10.69	11.59	9.73	10.66	10.02	10.45	10.05	9.81	10.25
Mills	9.18	11.21	10.61	10.22	9.48	8.28	10.75	9.11	9.92
Mitchell	12.17	14.43	9.31	13.05	13.53	13.97	12.40	11.31	11.52
Monona	14.71	13.71	14.06	16.24	15.22	14.52	13.95	11.98	12.23
Monroe	12.38	13.33	14.94	12.84	12.39	13.89	13.00	15.27	12.60
Montgomery	14.59	14.34	14.16	12.69	14.66	11.14	13.11	11.27	11.33
Muscatine	8.27	9.36	8.28	9.15	9.33	8.63	8.71	8.71	8.38
O'Brien	12.82	13.40	10.00	11.83	11.79	11.47	12.72	9.76	11.67
Osceola	10.66	13.12	12.44	11.85	10.60	11.93	9.88	11.57	12.54
Page	13.74	13.90	13.52	14.14	12.65	13.68	12.99	14.87	11.70
Palo Alto	13.24	12.95	12.17	12.31	10.98	11.83	11.67	11.57	11.63
Plymouth	8.92	10.13	8.75	10.25	10.04	10.16	9.92	8.28	9.94
Pocahontas	15.53	12.31	10.65	13.51	13.06	11.70	15.86	11.68	14.86
Polk	8.02	7.79	7.94	8.07	7.79	7.96	7.74	7.82	8.10
Pottawattamie	9.42	9.35	8.55	9.10	9.06	8.81	8.62	8.86	9.08
Poweshiek	10.90	10.05	10.64	10.32	11.12	9.16	10.05	9.69	9.95
Ringgold	13.15	14.44	14.55	15.17	11.67	12.17	12.13	14.59	13.74
Sac	13.10	13.23	13.33	13.33	12.54	13.09	13.62	12.36	10.41
Scott	7.79	7.84	7.90	7.40	7.60	7.71	6.78	7.51	7.33
Shelby	11.56	10.35	10.49	10.47	9.14	10.73	9.73	10.53	11.17
Sioux	8.44	7.93	7.76	9.03	7.58	7.38	7.65	7.46	7.66
Story	5.73	5.76	5.78	5.82	4.88	5.45	5.62	4.98	5.56
Tama	9.57	10.70	11.12	12.08	10.77	10.36	9.64	12.32	10.80
Taylor	13.07	15.66	15.84	12.25	12.93	15.18	15.12	15.12	13.65
Union	13.26	13.46	12.82	12.56	12.21	13.12	12.32	12.52	11.04
Van Buren	16.34	13.05	14.15	13.93	9.76	14.30	12.67	11.38	13.80
Wapello	13.01	11.91	13.35	11.39	13.02	12.35	11.14	11.90	12.38
Warren	7.85	6.65	6.83	6.83	7.33	6.50	6.35	6.16	6.51
Washington	10.55	11.01	10.40	11.69	11.19	11.24	9.21	10.00	10.28
Wayne	14.65	14.66	16.76	18.16	14.23	16.33	12.13	17.53	15.61
Webster	11.87	11.69	10.59	10.90	10.59	10.90	10.84	10.72	10.27
Winnebago	12.10	11.85	9.37	10.78	11.71	10.70	10.55	11.42	10.22
Winneshiek	9.04	8.35	10.09	10.32	9.28	10.04	8.05	8.51	8.18
Woodbury	10.32	9.68	9.59	9.54	9.48	9.67	10.06	9.59	9.75
Worth	13.95	12.00	12.27	12.00	11.32	12.00	11.11	11.43	10.25
Wright	12.72	12.23	12.25	12.68	11.81	11.06	12.25	12.98	12.75
State of Iowa	9.83	9.64	9.51	9.65	9.29	9.47	9.23	9.23	9.30

Differences between county birth rates in 1980 and 1988 generally mirror the decline reported for the state. Four counties (Buena Vista, Jefferson, Johnson, Pocahontas) had birth rates in 1988 that were less than a point lower than their rates for 1980, and one county (Van Buren) had a slightly higher birth rate at the end of the period than at the beginning. Among the 98 counties with birth rates lower in 1988 than in 1980, 19 of the differences were greater than five points. Five (Adair, Audubon, Bremer, Hancock, Taylor) of these had rates in 1988 that were at least six points lower than at the beginning of the period.

For the most part, death rates changed far less than did birth rates. Seventy-two counties had higher death rates in 1988 than in 1980, as did the state. But in only six counties (Audubon, Dickinson, Greene, Guthrie, Montgomery, Worth) was the rate at least three points higher at the end of the period than at the beginning. Among the 26 counties where the death rates were lower in 1988 than 1980, only one (Lyon) differed by more than two points. Eight others (Allamakee, Chickasaw, Clarke, Delaware, Emmet, Osceola, Plymouth, Tama) reported differences greater than one point but less than two. Clayton county had the same death rate in 1988 as in 1980.

NOTE: Comparisons of any one year with another must be done with caution, because unusual circumstances could have affected the rates in any single year. Because the population figures used to generate the rates for 1981 through 1988 are estimates, the birth and death rates reported must be treated as estimates as well. Additional information on births and deaths is reported annually in VITAL STATISTICS FOR IOWA (Iowa Department of Public Health, Lucas State Office Building, Des Moines, IA 50319). Data on birth and death rates for the states and the nation also are available annually; the most recent publication is "Annual Summary of Births, Marriages, Divorces, and Deaths: United States, 1988," MONTHLY VITAL STATISTICS REPORT, 37 (13, July 26, 1989), which is published by the National Center for Health Statistics (U.S. Department of Health and Human Services, 3700 East-West Highway, Hyattsville, MD 20782).

Births, Out-of-Wedlock Births, and Births to Teens in Iowa's Counties: 1980-1987

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Births to Iowa residents are attributed to the county of residence of the mother. This information is collected annually by the Iowa Department of Public Health. In 1987, there were 37,866 births to Iowans, a decrease of 20.8% from the 47,797 births in 1980 (Table 1).

Births in Iowa's counties in 1987 varied from as few as 60 in Ringgold to a high of 4,987 in Polk. Polk had the highest number of births each year in the period, while either Adams or Ringgold had the lowest.

Although the state had a steady decline in births from 1980 to 1987, 95 counties had at least one year of increase during that time. When 1980 and 1987 were compared, however, all counties except Johnson showed a decline (Table 3). And the increase in Johnson was only nine. Black Hawk, with 761 fewer births in 1987 than in 1980, had the largest decrease. About 70% of the counties (69) declined by 100 or fewer births.

OUT-OF-WEDLOCK BIRTHS

Even though births declined in Iowa between 1980 and 1987, the number of births out of wedlock increased. The 6,142 out-of-wedlock births in 1987 was an increase of 25.5% from the 4,895 in 1980 (Table 1).

In each year from 1980 to 1987, Polk county had the highest number of out-of-wedlock births; Scott was second highest. Ringgold's five out-of-wedlock births was the lowest number of any county in 1987. More than half the counties had fewer than 25 out-of-wedlock births in any of the eight years.

Out-of-wedlock births occurred disproportionately in large, urban counties. In 1980, the six counties (Black Hawk, Linn, Polk, Pottawattamie, Scott, Woodbury) with the highest number of out-of-wedlock births together accounted for 51.3% of such births but only for 34.5% of the total births. In 1987, the same six counties recorded 51.6% of the out-of-wedlock births and 37.1% of all births.

Between 1980 and 1987, out-of-wedlock births increased each year for Iowa, although every county had at least one year when these numbers declined. A total of 70 counties had more out-of-wedlock births in 1987 than in 1980 (Table 3). The increases ranged from 1 to 321. For 52 of the 70 counties that gained, the increase was less than 15. Polk county was the only one that went up by more than 100. Indeed, Polk's gain of 321 accounted for 25% of the increase for the entire state. Twenty-seven counties had fewer out-of-wedlock births in 1987 than in 1980. The declines in these counties ranged from 1 to 12. Two counties (Calhoun, Pocahontas) had the same number of out-of-wedlock births in 1980 and 1987.

Table 1. Births and Out-of-Wedlock Births in Iowa Counties, 1980-1987.

County	1987		1986		1985		1984		1983		1982		1981		1980	
	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births
Adair	94	9	111	6	122	7	114	4	115	3	143	8	125	12	166	5
Adams	63	6	55	2	73	6	73	7	64	6	80	3	64	5	94	5
Allamakee	202	40	210	17	219	32	219	21	220	21	237	16	249	22	252	21
Appanoose	162	24	180	16	188	33	197	21	194	33	184	22	229	31	241	28
Audubon	95	7	89	8	111	13	135	8	120	6	119	9	112	8	151	12
Benton	283	29	295	37	309	29	328	23	291	29	307	28	349	24	414	41
Black Hawk	1621	409	1739	443	1947	444	2093	428	2096	362	2245	384	2332	371	2382	374
Boone	318	37	295	38	326	34	333	30	347	25	367	34	384	32	395	29
Bremer	242	23	267	18	297	22	306	18	320	9	367	21	398	25	417	14
Buchanan	325	42	287	28	367	44	381	45	393	26	454	41	448	24	447	26
Buena Vista	263	30	294	19	314	27	290	22	302	20	313	16	344	12	322	15
Butler	179	19	209	11	201	10	242	12	259	22	255	12	236	10	284	8
Calhoun	145	16	152	9	149	14	140	4	171	18	196	13	170	16	204	16
Carroll	338	35	361	32	373	23	384	18	416	32	384	25	416	31	436	27
Cass	163	16	204	17	200	14	255	22	228	12	254	16	286	19	241	17
Cedar	189	27	195	17	251	25	253	28	259	21	266	20	285	25	260	15
Cerro Gordo	625	130	656	91	725	95	679	84	709	79	714	82	720	70	728	63
Cherokee	166	17	211	20	199	20	207	23	229	14	231	15	245	17	238	27
Chickasaw	154	17	201	22	177	22	224	16	224	15	265	25	260	16	258	14
Clarke	114	15	109	10	116	17	104	10	112	11	136	12	122	4	126	12
Clay	237	36	243	33	270	22	260	30	305	25	357	33	314	32	347	29
Clayton	250	23	256	35	298	25	282	17	306	20	327	20	364	18	343	18
Clinton	689	124	707	115	753	88	788	99	775	88	855	92	882	103	920	90
Crawford	277	24	247	18	263	38	256	25	323	35	294	30	300	17	321	18
Dallas	423	61	391	37	402	42	454	43	461	53	428	41	432	40	466	40
Davis	110	9	124	8	134	8	128	11	148	9	137	13	149	9	149	8
Decatur	110	16	95	10	106	12	112	7	107	8	136	7	125	6	129	9
Delaware	284	32	281	26	320	18	311	12	341	20	362	21	331	20	401	23
Des Moines	540	101	518	105	670	107	650	105	657	89	670	91	742	92	767	106
Dickinson	175	30	165	19	177	17	195	10	178	25	227	9	199	13	229	14
Dubuque	1253	166	1199	151	1278	155	1362	170	1375	155	1447	160	1542	140	1584	112
Emmet	144	17	139	18	159	21	160	15	196	26	200	21	214	17	227	15
Fayette	263	23	278	26	298	31	357	32	362	27	404	48	380	28	405	30

Table 1. Births and Out-of-Wedlock Births in Iowa Counties, 1980-1987 (continued).

County	1987		1986		1985		1984		1983		1982		1981		1980	
	Out of Wedlock		Out of Wedlock		Out of Wedlock		Out of Wedlock		Out of Wedlock		Out of Wedlock		Out of Wedlock		Out of Wedlock	
	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births
Floyd	208	32	213	24	236	36	241	35	285	27	250	24	276	30	259	12
Franklin	139	18	148	14	173	15	193	14	165	9	176	5	191	12	195	10
Fremont	103	14	124	16	116	17	117	12	124	12	117	11	132	10	131	12
Greene	138	19	127	15	147	19	172	15	169	16	165	18	196	13	182	14
Grundy	121	10	148	8	143	11	170	11	187	10	167	10	182	14	227	6
Guthrie	104	13	115	20	119	10	156	6	144	12	149	14	160	13	179	19
Hamilton	198	24	243	24	199	25	254	23	235	19	219	25	259	20	257	19
Hancock	165	18	189	13	190	16	212	11	191	16	233	15	217	14	252	15
Hardin	218	20	233	24	270	30	283	24	311	26	324	24	318	19	348	23
Harrison	225	33	230	25	227	24	217	24	200	22	217	24	221	13	254	29
Henry	236	31	250	25	238	27	264	19	260	22	270	27	278	20	303	27
Howard	146	10	141	11	137	7	161	14	163	14	169	16	158	3	184	6
Humboldt	138	14	149	15	163	16	186	15	178	9	189	11	191	10	188	8
Ida	112	9	118	9	135	6	148	11	146	6	117	6	159	6	148	5
Iowa	179	12	215	15	182	15	216	12	217	11	216	12	230	20	229	8
Jackson	290	29	282	34	345	39	325	27	349	35	357	34	371	35	370	32
Jasper	438	60	418	46	472	55	462	44	440	49	524	50	506	44	530	30
Jefferson	178	13	218	22	222	13	224	19	233	15	209	21	210	9	217	16
Johnson	1285	131	1278	91	1326	97	1306	89	1254	94	1299	88	1350	80	1276	71
Jones	216	28	220	25	290	35	262	29	275	28	280	27	272	25	323	33
Keokuk	147	19	137	8	157	12	185	15	185	10	166	7	199	8	223	18
Kossuth	249	17	265	19	262	21	295	16	350	20	344	13	332	15	397	27
Lee	544	128	526	105	589	112	582	97	596	108	623	92	663	98	693	94
Linn	2373	392	2345	441	2450	366	2499	356	2479	350	2642	338	2567	329	2826	341
Louisa	167	28	144	14	145	14	161	16	172	14	178	17	201	19	172	17
Lucas	101	10	113	22	110	18	132	18	115	15	164	24	135	9	170	15
Lyon	176	9	160	11	183	6	194	6	207	2	214	9	238	9	236	7
Madison	138	14	140	15	164	13	154	14	150	15	158	7	155	10	197	10
Mahaska	296	54	326	43	318	35	325	36	339	29	342	26	331	30	400	36
Marion	405	37	368	28	439	39	403	35	434	39	463	36	439	42	449	25
Marshall	455	71	520	70	555	74	588	55	622	69	617	58	654	55	673	60
Mills	173	27	171	22	167	27	192	20	173	16	174	20	212	24	225	24
Mitchell	133	7	147	10	148	6	149	9	173	13	154	14	171	11	196	10

Table 1. Births and Out-of-Wedlock Births in Iowa Counties, 1980-1987 (continued).

County	1987		1986		1985		1984		1983		1982		1981		1980	
	Out of Wedlock		Out of Wedlock		Out of Wedlock		Out of Wedlock		Out of Wedlock		Out of Wedlock		Out of Wedlock		Out of Wedlock	
	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births
Monona	110	21	129	20	105	9	140	14	176	15	157	14	161	14	179	13
Monroe	107	18	104	17	109	14	122	16	120	9	111	10	135	10	133	13
Montgomery	153	12	136	11	152	17	179	18	189	16	183	12	187	10	205	17
Muscatine	560	99	635	113	632	101	635	103	709	82	754	112	732	92	714	90
O'Brien	184	11	206	8	213	18	235	15	263	16	274	11	287	15	279	18
Osceola	87	7	88	3	107	3	105	3	131	10	124	4	127	5	137	5
Page	189	27	183	27	235	34	204	27	226	27	237	21	266	20	270	23
Palo Alto	122	8	134	14	181	10	162	16	215	15	184	14	214	13	209	17
Plymouth	353	35	376	32	334	15	409	27	415	18	392	23	455	25	427	20
Pocahontas	109	7	121	7	167	3	150	13	160	13	150	5	149	7	160	7
Polk	4987	1085	4956	989	5087	923	4909	833	4974	869	4969	797	5093	829	5087	764
Pottawattamie	1252	301	1328	282	1334	253	1379	254	1426	259	1411	231	1469	261	1468	237
Poweshiek	187	25	223	26	220	15	220	17	244	29	254	21	261	18	247	18
Ringgold	60	5	45	3	78	10	84	7	71	2	107	8	80	3	86	3
Sec	149	13	153	13	177	13	182	13	175	13	183	7	235	16	235	14
Scott	2292	575	2545	640	2543	531	2647	515	2641	491	2751	465	2824	484	2954	476
Shelby	172	9	160	13	171	7	237	8	211	13	240	22	189	10	253	13
Sioux	457	26	494	14	511	18	519	11	574	17	560	11	584	8	636	19
Story	933	73	944	64	1035	59	1039	46	1075	50	1010	54	1054	50	1055	57
Tama	233	37	227	41	250	42	260	39	269	22	285	31	259	25	289	27
Taylor	86	10	71	5	91	7	102	5	102	6	133	8	119	5	135	6
Union	152	30	167	27	150	38	165	20	190	21	192	28	226	26	212	31
Van Buren	103	10	94	8	107	16	111	7	111	10	117	7	136	6	126	14
Wapello	446	94	467	79	468	80	534	91	480	79	564	77	547	64	597	77
Warren	487	34	466	42	506	38	489	40	485	42	495	46	514	42	551	33
Washington	298	32	273	35	269	25	307	28	282	23	290	19	293	22	326	17
Wayne	75	6	75	10	96	3	94	10	84	6	93	7	10	510	123	12
Webster	595	106	574	119	631	120	631	129	671	114	733	111	675	102	760	110
Winnebago	152	14	171	13	162	7	170	9	172	14	178	15	162	13	197	20
Winneshiek	269	12	288	20	287	16	321	21	321	28	309	15	300	17	327	21
Woodbury	1542	409	1457	334	1652	341	1601	359	1645	318	1691	310	1809	310	1793	319
Worth	98	12	103	17	117	10	115	11	110	6	130	15	129	7	127	4
Wright	177	18	171	19	196	18	203	23	206	19	208	20	220	21	247	20
State of Iowa	37866	6142	38748	5811	41182	5585	42360	5315	43247	5168	44716	5062	45918	4938	47797	4895

Table 2. Teen Births and Teen Out-of-Wedlock Births in Iowa Counties, 1980-1987.

County	1987		1986		1985		1984		1983		1982		1981		1980	
	Teen Out of Teen Wedlock Births Births		Teen Out of Teen Wedlock Births Births		Teen Out of Teen Wedlock Births Births		Teen Out of Teen Wedlock Births Births		Teen Out of Teen Wedlock Births Births		Teen Out of Teen Wedlock Births Births		Teen Out of Teen Wedlock Births Births		Teen Out of Teen Wedlock Births Births	
	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births
Adair	8	4	10	3	7	2	9	1	6	0	13	4	14	4	20	2
Adams	7	4	3	1	4	2	6	3	7	3	6	1	3	1	13	3
Allamakee	23	15	19	8	19	13	21	7	16	9	28	12	31	13	31	8
Appanoose	24	12	24	7	23	7	19	8	33	12	28	10	40	15	50	12
Audubon	6	3	10	4	5	3	16	4	9	1	15	3	15	7	21	9
Benton	28	14	24	14	17	9	33	13	34	12	30	12	27	11	55	26
Black Hawk	195	147	204	159	238	174	250	172	228	149	273	173	286	168	335	183
Boone	17	8	23	13	30	16	22	10	23	10	30	15	42	13	45	13
Bremer	18	9	14	8	27	10	22	9	19	4	30	8	41	13	56	10
Buchanan	25	12	30	14	36	18	38	15	35	13	57	19	59	18	45	14
Buena Vista	13	9	20	6	19	11	21	5	20	7	27	9	26	4	33	8
Butler	10	6	16	6	26	6	16	4	34	11	22	4	22	6	40	3
Calhoun	7	5	2	1	10	5	3	1	8	5	20	4	17	4	19	7
Carroll	21	15	27	13	20	7	16	4	32	15	39	18	40	20	31	13
Cass	8	2	9	4	15	4	29	7	18	4	21	5	21	8	23	8
Cedar	16	10	5	3	22	12	29	11	20	8	29	9	30	11	28	6
Cerro Gordo	57	41	43	29	57	30	54	31	62	28	56	21	74	28	69	24
Cherokee	4	2	7	4	14	6	20	11	17	6	20	8	24	7	26	10
Chickasaw	18	9	16	8	16	11	14	6	15	7	34	12	25	9	28	6
Clarke	17	6	7	1	10	5	12	4	11	4	18	9	18	1	22	5
Clay	19	13	16	11	15	8	17	9	24	13	35	13	36	16	44	14
Clayton	26	12	27	15	31	15	29	9	24	7	36	10	44	9	39	11
Clinton	68	52	85	49	69	33	89	49	109	56	77	30	111	47	127	43
Crawford	17	5	10	5	24	12	24	9	37	19	40	17	33	9	50	10
Dallas	37	24	32	14	27	12	32	15	46	22	30	13	51	16	44	19
Davis	8	2	6	2	15	5	7	3	26	3	14	7	19	4	21	5
Decatur	15	7	10	5	8	3	11	1	9	2	14	2	11	2	21	4
Delaware	14	9	18	13	20	10	12	5	12	5	29	12	33	13	57	14
Des Moines	64	39	75	41	66	31	71	36	78	38	88	33	118	49	116	41
Dickinson	16	9	13	9	11	5	14	1	19	14	18	4	21	8	24	9
Dubuque	80	48	88	57	109	65	116	78	122	79	127	75	158	70	153	60
Emmet	15	7	19	8	15	7	13	8	20	9	21	11	29	11	16	4
Fayette	23	11	24	14	28	13	34	13	27	12	52	20	44	12	35	13

Table 2. Teen Births and Teen Out-of-Wedlock Births in Iowa Counties, 1980-1987 (continued).

County	1987		1986		1985		1984		1983		1982		1981		1980	
	Teen Out of Teen Wedlock Births Births		Teen Out of Teen Wedlock Births Births		Teen Out of Teen Wedlock Births Births		Teen Out of Teen Wedlock Births Births		Teen Out of Teen Wedlock Births Births		Teen Out of Teen Wedlock Births Births		Teen Out of Teen Wedlock Births Births		Teen Out of Teen Wedlock Births Births	
	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births	Births
Floyd	18	16	29	16	28	14	29	14	37	15	27	7	32	15	24	7
Franklin	12	8	11	8	12	5	18	6	7	3	17	3	16	6	20	2
Fremont	11	6	11	4	15	8	12	2	14	6	12	3	16	2	17	3
Greene	17	11	10	6	13	6	13	5	20	8	24	11	25	8	24	5
Grundy	9	4	10	4	12	7	8	1	14	5	9	3	13	5	18	3
Guthrie	11	4	7	5	12	5	12	2	20	8	17	5	14	6	22	7
Hamilton	24	14	16	7	15	6	26	10	19	6	25	13	38	15	23	10
Hancock	9	4	11	6	7	3	13	5	17	8	22	9	15	5	23	4
Hardin	17	9	12	5	22	13	20	8	19	7	30	9	31	9	45	14
Harrison	25	15	25	9	26	13	25	11	26	10	32	11	26	8	42	16
Henry	21	13	25	16	21	14	22	6	17	5	20	5	25	9	38	10
Howard	12	4	10	4	6	2	10	4	19	7	18	8	18	1	22	5
Humboldt	6	5	13	8	21	10	16	6	14	3	14	6	18	6	26	4
Ida	11	6	5	3	8	3	12	6	7	2	9	2	14	3	14	1
Iowa	5	3	15	7	13	5	16	7	14	4	24	7	22	8	18	4
Jackson	22	12	22	12	34	20	31	11	40	14	49	18	42	16	60	20
Jasper	31	21	41	14	56	28	50	19	51	19	69	24	56	17	68	16
Jefferson	5	3	11	4	12	5	14	7	19	3	26	11	18	3	21	7
Johnson	53	41	41	20	54	29	50	22	44	22	55	20	59	23	55	20
Jones	9	91	3	6	12	5	30	12	30	10	30	12	23	5	41	19
Keokuk	13	8	9	3	9	1	15	4	22	6	21	3	21	4	28	10
Kossuth	18	8	16	8	18	13	21	9	22	8	27	6	29	10	42	15
Lee	68	49	76	45	85	46	81	39	93	47	72	29	93	45	106	47
Linn	242	153	228	163	215	125	219	135	233	141	252	138	267	150	356	158
Louisa	22	13	12	5	14	4	19	7	20	6	24	8	27	11	27	8
Lucas	14	4	17	7	15	7	19	7	16	4	26	11	19	5	29	6
Lyon	9	3	13	5	17	3	11	4	6	0	14	3	18	5	15	3
Madison	11	3	15	5	16	9	12	4	15	5	20	4	13	3	27	4
Mahaska	25	16	35	20	37	17	25	9	34	14	36	12	39	16	61	22
Marion	34	14	26	10	45	17	45	17	43	15	46	16	66	21	62	13
Marshall	37	21	43	25	44	22	42	21	66	27	51	26	61	23	79	28
Mills	11	9	12	7	19	9	22	6	17	5	17	7	31	12	27	12
Mitchell	7	4	6	4	10	3	16	7	20	7	14	8	21	7	23	7

Table 2. Teen Births and Teen Out-of-Wedlock Births in Iowa Counties, 1980-1987 (continued).

County	1987		1986		1985		1984		1983		1982		1981		1980	
	Teen Out of		Teen Out of		Teen Out of		Teen Out of		Teen Out of		Teen Out of		Teen Out of		Teen Out of	
	Teen Births	Wedlock Births	Teen Births	Wedlock Births	Teen Births	Wedlock Births	Teen Births	Wedlock Births	Teen Births	Wedlock Births	Teen Births	Wedlock Births	Teen Births	Wedlock Births	Teen Births	Wedlock Births
Monona	11	6	13	7	8	2	19	7	14	7	17	8	25	7	23	8
Monroe	13	8	11	7	11	3	13	5	11	3	14	1	15	5	15	6
Montgomery	7	3	12	7	10	6	16	7	19	6	21	6	20	3	24	6
Muscatine	72	31	81	42	73	38	92	43	104	32	116	45	132	44	114	39
O'Brien	12	6	13	5	9	4	17	4	15	4	34	4	38	7	31	9
Osceola	4	2	2	1	4	1	8	2	10	3	7	1	12	2	11	3
Page	18	10	20	6	30	13	27	10	30	10	26	11	34	10	40	12
Palo Alto	3	1	8	6	7	2	11	4	24	8	15	4	26	8	30	9
Plymouth	21	14	32	21	17	8	27	12	19	4	29	8	46	13	36	8
Pocahontas	5	3	7	4	5	1	10	4	12	8	7	2	14	5	16	4
Polk	561	388	483	317	531	331	491	292	545	335	579	313	658	353	664	318
Pottawattamie	150	102	171	111	162	99	188	111	204	103	207	109	266	135	258	120
Poweshiek	13	3	22	9	12	5	16	5	29	14	35	8	25	6	29	9
Ringgold	4	2	3	1	5	3	8	1	7	1	11	2	10	1	11	2
Sac	14	5	10	4	13	4	14	5	11	4	11	3	24	9	26	8
Scott	262	212	349	258	302	207	314	212	299	196	327	210	365	222	432	218
Shelby	10	5	8	6	5	2	15	6	19	6	22	8	23	6	24	6
Sioux	34	17	26	7	27	7	31	7	28	7	43	8	42	4	57	12
Story	37	18	46	22	50	18	41	16	56	16	70	21	63	18	82	16
Tama	21	13	21	16	29	21	33	19	21	11	32	16	30	13	38	16
Taylor	9	4	8	1	4	1	11	1	10	2	15	2	18	4	18	4
Union	13	8	11	7	11	8	11	7	22	11	21	10	32	9	30	12
Van Buren	8	2	9	3	7	2	11	2	14	4	13	3	14	2	19	6
Wapello	62	37	79	35	70	33	72	35	65	28	88	34	84	27	94	38
Warren	33	9	33	11	53	19	32	14	39	13	56	22	70	23	58	14
Washington	25	14	24	14	21	8	30	10	21	8	20	8	31	8	29	7
Wayne	7	2	11	3	10	2	11	2	10	4	13	5	17	6	22	8
Webster	70	49	67	47	77	45	79	55	86	51	91	51	91	47	124	61
Winnebago	10	5	11	9	14	2	18	5	15	5	18	6	17	7	23	10
Winneshiek	14	5	15	7	20	7	16	10	29	9	19	4	26	5	27	8
Woodbury	202	156	166	110	210	131	194	131	212	130	231	123	245	131	275	143
Worth	5	5	6	4	6	2	5	2	5	2	8	4	12	1	13	2
Wright	14	8	7	7	26	9	19	7	24	9	25	10	25	10	25	5
State of Iowa	3507	2237	3567	2135	3835	2091	3993	2048	4284	2091	4767	2131	5339	2260	5958	2274

Table 3. Comparisons of Births, Out-of- Wedlock Births, and Births to Teens in Iowa Counties, 1980 and 1987.

County	Difference in Births, 1980 and 1987		% of Births Out of Wedlock		Difference in Teen Births, 1980 and 1987		% Teen Births Out of Wedlock		Teen Births as a % of All Births		Teen Out-of-Wedlock Births as a % of all Out-of-Wedlock Births	
	Total	Out of Wedlock	1987	1980	Total	Out of Wedlock	1987	1980	1987	1980	1987	1980
Adair	-72	4	9.6	3.0	-12	2	50.0	10.0	8.5	12.0	44.4	40.0
Adams	-31	1	9.5	5.3	-6	1	57.1	23.1	11.1	13.8	66.7	60.0
Allamakee	-50	19	19.8	8.3	-8	7	65.2	25.8	11.4	12.3	37.5	38.1
Appanoose	-79	-4	14.8	11.6	-26	0	50.0	24.0	14.8	20.7	50.0	42.9
Audubon	-56	-5	7.4	8.0	-15	-6	50.0	42.9	6.3	13.9	42.9	75.0
Benton	-131	-12	10.2	9.9	-27	-12	50.0	47.3	9.9	13.3	48.3	63.4
Black Hawk	-761	35	25.2	15.7	-140	-36	75.4	54.6	12.0	14.1	35.9	48.9
Boone	-77	8	11.6	7.3	-28	-5	47.1	28.9	5.3	11.4	21.6	44.8
Bremer	-175	9	9.5	3.4	-38	-1	50.0	17.9	7.4	13.4	39.1	71.4
Buchanan	-122	16	12.9	5.8	-20	-2	48.0	31.1	7.7	10.1	28.6	53.8
Buena Vista	-59	15	11.4	4.7	-20	1	69.2	24.2	4.9	10.2	30.0	53.3
Butler	-105	11	10.6	2.8	-30	3	60.0	7.5	5.6	14.1	31.6	37.5
Calhoun	-59	0	11.0	7.8	-12	-2	71.4	36.8	4.8	9.3	31.3	43.8
Carroll	-98	8	10.4	6.2	-10	2	71.4	41.9	6.2	7.1	42.9	48.1
Cass	-78	-1	9.8	7.0	-15	-6	25.0	34.8	4.9	9.5	12.5	47.1
Cedar	-71	12	14.3	5.8	-12	4	62.5	21.4	8.5	10.8	37.0	40.0
Cerro Gordo	-103	67	20.8	8.6	-12	17	71.9	34.8	9.1	9.5	31.5	38.1
Cherokee	-72	-10	10.2	11.3	-22	-8	50.0	38.5	2.4	10.9	11.8	37.0
Chickasaw	-104	3	11.0	5.4	-10	3	50.0	21.4	11.7	10.9	52.9	42.9
Clarke	-12	3	13.2	9.5	-5	1	35.3	22.7	14.9	17.5	40.0	41.7
Clay	-110	7	15.2	8.4	-25	-1	68.4	31.8	8.0	12.7	36.1	48.3
Clayton	-93	5	9.2	5.2	-13	1	46.2	28.2	10.4	11.4	52.2	61.1
Clinton	-231	34	18.0	9.8	-59	9	76.5	33.9	9.9	13.8	41.9	47.8
Crawford	-44	6	8.7	5.6	-33	-5	29.4	20.0	6.1	15.6	20.8	55.6
Dallas	-43	21	14.4	8.6	-7	5	64.9	43.2	8.7	9.4	39.3	47.5
Davis	-39	1	8.2	5.4	-13	-3	25.0	23.8	7.3	14.1	22.2	62.5
Decatur	-19	7	14.6	7.0	-6	3	46.7	19.0	13.6	16.3	43.8	44.4
Delaware	-117	9	11.3	5.7	-43	-5	64.3	24.6	4.9	14.2	28.1	60.9
Des Moines	-227	-5	18.7	13.8	-52	-2	60.9	35.3	11.9	15.1	38.6	38.7
Dickinson	-54	16	17.1	6.1	-8	0	56.2	37.5	9.1	10.5	30.0	64.3
Dubuque	-331	54	13.2	7.1	-73	-12	60.0	39.2	6.4	9.7	28.9	53.6
Emmet	-83	2	11.8	6.6	-1	3	46.7	25.0	10.4	7.0	41.2	26.7
Fayette	-142	-7	8.8	7.4	-12	-2	47.8	37.1	8.7	8.6	47.8	43.3

Table 3. Comparisons of Births, Out of Wedlock Births, and Births to Teens in Iowa Counties, 1980 and 1987 (continued).

County	Difference in Births, 1980 and 1987		% of Births Out of Wedlock		Difference in Teen Births, 1980 and 1987		% Teen Births Out of Wedlock		Teen Births as a % of All Births		Teen Out-of-Wedlock Births as a % of all Out-of-Wedlock Births	
	Total	Out of Wedlock	1987	1980	Total	Out of Wedlock	1987	1980	1987	1980	1987	1980
Floyd	-51	20	15.4	4.6	-6	9	88.9	29.2	8.7	9.3	50.0	58.3
Franklin	-56	8	13.0	5.1	-8	6	66.7	10.0	8.6	10.3	44.4	20.0
Fremont	-28	2	13.6	9.2	-6	3	54.6	17.6	10.7	13.0	42.9	25.0
Greene	-44	5	13.8	7.7	-7	6	64.7	20.8	12.3	13.2	57.9	35.7
Grundy	-106	4	8.3	2.6	-9	1	44.4	16.7	7.4	7.9	40.0	50.0
Guthrie	-75	-6	12.5	10.6	-11	-3	36.4	31.8	10.6	12.3	30.8	36.8
Hamilton	-59	5	12.1	7.4	1	4	58.3	43.5	12.1	8.9	58.3	52.6
Hancock	-87	3	10.9	6.0	-14	0	44.4	17.4	5.5	9.1	22.2	26.7
Hardin	-130	-3	9.2	6.6	-28	-5	52.9	31.1	7.8	12.9	45.0	60.9
Harrison	-29	4	14.7	11.4	-17	-1	60.0	38.1	11.1	16.5	45.5	55.2
Henry	-67	4	13.1	8.9	-17	3	61.9	26.3	8.9	12.5	41.9	37.0
Howard	-38	4	6.8	3.3	-10	-1	33.3	22.7	8.2	12.0	40.0	83.3
Humboldt	-50	6	10.1	4.3	-20	1	83.3	15.4	4.3	13.8	35.7	50.0
Ida	-36	4	8.0	3.4	-3	5	54.6	7.1	9.8	9.5	66.7	20.0
Iowa	-50	4	6.7	3.5	-13	-1	60.0	22.2	2.8	7.9	25.0	50.0
Jackson	-80	-3	10.0	8.6	-38	-8	54.6	33.3	7.6	16.2	41.4	62.5
Jasper	-92	30	13.7	5.7	-37	5	67.7	23.5	7.1	12.8	35.0	53.3
Jefferson	-39	-3	7.3	7.4	-16	-4	60.0	33.3	2.8	9.7	23.1	43.8
Johnson	9	60	10.2	5.6	-2	21	77.4	36.4	4.1	4.3	31.3	28.2
Jones	-107	-5	13.0	10.2	-32	-10	100.0	46.3	4.2	12.7	32.1	57.6
Keokuk	-76	1	12.9	8.1	-15	-2	61.5	35.7	8.8	12.6	42.1	55.6
Kossuth	-148	-10	6.8	6.8	-24	-7	44.4	35.7	7.2	10.6	47.1	55.6
Lee	-149	34	23.5	13.6	-38	2	72.1	44.3	12.5	15.3	38.3	50.0
Linn	-453	51	16.5	12.1	-114	-5	63.2	44.4	10.2	12.6	39.0	46.3
Louisa	-5	11	16.8	9.9	-5	5	59.1	29.6	13.2	15.7	46.4	47.1
Lucas	-69	-5	9.9	8.8	-15	-2	28.6	20.7	13.9	17.1	40.0	40.0
Lyon	-60	2	5.1	3.0	-6	0	33.3	20.0	5.1	6.4	33.3	42.9
Madison	-59	4	10.1	5.1	-16	-1	27.3	14.8	8.0	13.7	21.4	40.0
Mahaska	-104	18	18.2	9.0	-36	-6	64.0	36.1	8.4	15.3	29.6	61.1
Marion	-44	12	9.1	5.6	-28	1	41.2	21.0	8.4	13.8	37.8	52.0
Marshall	-218	11	15.6	8.9	-42	-7	56.8	35.4	8.1	11.7	29.6	46.7
Mills	-52	3	15.6	10.7	-16	-3	81.8	44.4	6.4	12.0	33.3	50.0
Mitchell	-63	-3	5.3	5.1	-16	-3	57.1	30.4	5.3	11.7	57.1	70.0

Table 3. Comparisons of Births, Out-of-Wedlock Births, and Births to Teens in Iowa Counties, 1980 and 1987 (continued).

County	Difference in Births, 1980 and 1987		% of Births Out of Wedlock		Difference in Teen Births, 1980 and 1987		% Teen Births Out of Wedlock		Teen Births as a % of All Births		Teen Out-of-Wedlock Births as a % of all Out-of-Wedlock Births	
	Total	Out of Wedlock	1987	1980	Total	Out of Wedlock	1987	1980	1987	1980	1987	1980
Monona	-69	8	19.1	7.3	-12	-2	54.6	34.8	10.0	12.8	28.6	61.5
Monroe	-26	5	16.8	9.8	-2	2	61.5	40.0	12.1	11.3	44.4	46.2
Montgomery	-52	-5	7.8	8.3	-17	-3	42.9	25.0	4.6	11.7	25.0	35.3
Muscatine	-154	9	17.7	12.6	-42	-8	43.1	34.2	12.9	16.0	31.3	43.3
O'Brien	-95	-7	6.0	6.4	-19	-3	50.0	29.0	6.5	11.1	54.5	50.0
Osceola	-50	2	8.0	3.6	-7	-1	50.0	27.3	4.6	8.0	28.6	60.0
Page	-81	4	14.3	8.5	-22	-2	55.6	30.0	9.5	14.8	37.0	52.2
Palo Alto	-87	-9	6.6	8.1	-27	-8	33.3	30.0	2.5	14.4	12.5	52.9
Plymouth	-74	15	9.9	4.7	-15	6	66.7	22.2	5.9	8.4	40.0	40.0
Pocahontas	-51	0	6.4	4.4	-11	-1	60.0	25.0	4.6	10.0	42.9	57.1
Polk	-100	321	21.8	15.0	-103	70	69.2	47.9	11.2	13.1	35.8	41.6
Pottawattamie	-216	64	24.0	16.1	-108	-18	68.0	46.5	12.0	17.6	33.9	50.6
Poweshiek	-60	7	13.4	7.3	-16	-6	23.1	31.0	7.0	11.7	12.0	50.0
Ringgold	-26	2	8.3	3.5	-7	0	50.0	18.2	6.7	12.8	40.0	66.7
Sac	-86	-1	8.7	6.0	-12	-3	35.7	30.8	9.4	11.1	38.5	57.1
Scott	-662	99	25.1	16.1	-170	-6	80.9	50.5	11.4	14.6	36.9	45.8
Shelby	-81	-4	5.2	5.1	-14	-1	50.0	25.0	5.8	9.5	55.6	46.2
Sioux	-179	7	5.7	3.0	-23	5	50.0	21.0	7.4	9.0	65.4	63.2
Story	-122	16	7.8	5.4	-45	2	48.6	19.5	4.0	7.8	24.7	28.1
Tama	-56	10	15.9	9.3	-17	-3	61.9	42.1	9.0	13.1	35.1	59.3
Taylor	-49	4	11.6	4.4	-9	0	44.4	22.2	10.5	13.3	40.0	66.7
Union	-60	-1	19.7	14.6	-17	-4	61.5	40.0	8.6	14.2	26.7	38.7
Van Buren	-23	-4	9.7	11.1	-11	-4	25.0	31.6	7.8	15.1	20.0	42.9
Wapello	-151	17	21.1	12.9	-32	-1	59.7	40.4	13.9	15.7	39.4	49.4
Warren	-64	1	7.0	6.0	-25	-5	27.3	24.1	6.8	10.5	26.5	42.4
Washington	-28	15	10.7	5.2	-4	7	56.0	24.1	8.4	8.9	43.8	41.2
Wayne	-48	-6	8.0	9.8	-15	-6	28.6	36.4	9.3	17.9	33.3	66.7
Webster	-165	-4	17.8	14.5	-54	-12	70.0	49.2	11.8	16.3	46.2	55.5
Winnebago	-45	-6	9.2	10.2	-13	-5	50.0	43.5	6.6	11.7	35.7	50.0
Winneshiek	-58	-9	4.5	6.4	-13	-3	35.7	29.6	5.2	8.3	41.7	38.1
Woodbury	-251	90	26.5	17.8	-73	13	77.2	52.0	13.1	15.3	38.1	44.8
Worth	-29	8	12.2	3.2	-8	3	100.0	15.4	5.1	10.2	41.7	50.0
Wright	-70	-2	10.2	8.1	-11	3	57.1	20.0	7.9	10.1	44.4	25.0
State of Iowa	-9931	1247	16.2	10.2	-2451	-37	63.8	38.2	9.3	12.5	36.4	46.5

Because the number of births in Iowa was going down at the same time that the number of out-of-wedlock births was going up, the percentage of all births that were out of wedlock rose from 10.2% in 1980 to 16.2% in 1987 (Table 3). In 1987, the percentage of out-of-wedlock births in the counties ranged from 4.5% in Winneshiek to 26.5% in Woodbury. Six counties (Lyon, Mitchell, Shelby, Sioux, O'Brien, Winneshiek) were under 6%, and about half the counties (54) were under 12%. Seven counties (Black Hawk, Cerro Gordo, Lee, Polk, Pottawattamie, Scott, Wapello) joined Woodbury with over 20% of the births occurring out of wedlock in 1987.

For Iowa, the percentage of births out of wedlock increased each year from 1980 to 1987. The counties were more variable; all had at least one year in which the percentage of out-of-wedlock births declined. Only 10 counties had a lower percentage of out-of-wedlock births in 1987 than in 1980, however, and the declines were two percentage points or less. The other 89 counties had increases in the percentage of out-of-wedlock births between 1980 and 1987; five (Allamakee, Cerro Gordo, Dickinson, Floyd, Monona) had percentages at least 10 points higher in 1987 than in 1980.

BIRTHS TO TEENS

Births to Iowa teens, which includes mothers 19 and younger, numbered 3,507 in 1987 (Table 2). This was a 41.1% drop from the 5,958 teen births recorded in 1980. For the counties, teen births in 1987 ranged from three in Palo Alto to 561 in Polk. More than 60% of the counties (61) had fewer than 20 teen births. In each of the eight years, Polk had the highest number of teen births, with Scott the second highest. From 1981 through 1987, the county with the lowest number of teen births recorded six or fewer. In 1980, the lowest number was 11 (Osceola, Ringgold).

For the state, teen births declined steadily each year from 1980 to 1987. This was not the case for the counties, as each county had at least one year of increase between 1980 and 1987. All but one county had fewer teen births in 1987 than in 1980, and Hamilton's increase was just one (Table 3). Counties with a decrease in teen births of at least 100 were Black Hawk, Linn, Polk, Pottawattamie, and Scott. Scott's decline of 170 was the largest. Sixty percent of the counties (64) showed decreases of 20 or fewer.

OUT-OF-WEDLOCK BIRTHS TO TEENS

Teen births out of wedlock numbered 2,237 in the state in 1987, which was slightly lower than the 2,274 recorded in 1980. Teen out-of-wedlock births declined each year from 1980 to 1984 and then increased annually from 1984 to 1987 (Table 2).

Polk and Scott counties had the highest numbers of teen out-of-wedlock births from 1980 to 1987. More than half the counties had 10 or fewer teen out-of-wedlock births each year during the period.

As with out-of-wedlock births overall, teen out-of-wedlock births occurred disproportionately in the larger, urban counties. Six counties (Black Hawk, Linn, Polk, Pottawattamie, Scott, Woodbury) had the highest numbers of teen out-of-wedlock births in both 1980 and 1987. In 1980, these six recorded 38.9% of all teen births, but 50.1% of the out-of-wedlock teen births. Similarly, in 1987 they had 46.0% of the teen births and 51.8% of the out-of-wedlock teen births.

Between 1980 and 1987 all the counties experienced years when the number of teen out-of-wedlock births increased and other years when the number decreased. Differences between 1980 and 1987 ranged from a decline of 36 to a gain of 70 (Table 3). Fifty-five counties had fewer teen out-of-wedlock births in 1987 than in 1980, six counties were the same in both years, and 38 counties showed an increase. For 97 of the counties, the change was less than 20 teen out-of-wedlock births.

The combination of a decline in the number of teen births along with a nearly steady number of teen out-of-wedlock births resulted in an increase from 1980 to 1987 in the proportion of teen births in Iowa that were out of wedlock (Table 3). In 1980, 2,274 of 5,958 teen births (38.2%) were out of wedlock. By 1987, 2,237 of 3,507 teen births (63.8%) were out of wedlock.

For the counties in 1987, the percentage of teen births that were out of wedlock ranged from 25% or less (Cass, Davis, Poweshiek, Van Buren) to 100% (Jones, Worth). A total of 43 counties had 50% or fewer of their teen births out of wedlock. Fifteen counties had 70% or more of their teen births out of wedlock. In 1980, the highest percentage for any county was 54.6% (Black Hawk) and only two other counties (Scott, Woodbury) were over 50%. In 1987, 69 counties had 50% or more of their teen births out-of-wedlock. Only four counties (Cass, Poweshiek, Van Buren, Wayne) had a lower percentage of teen births out of wedlock in 1987 than in 1980.

TEEN BIRTHS COMPARED WITH TOTAL BIRTHS

For every year between 1980 and 1987 in Iowa, both total births and teen births declined. However, teen births declined somewhat faster than total births. The proportion of the total births that were to teens, which was 12.5% in 1980, dropped to 9.3% in 1987 (Table 3).

In 1987, the percentages of the total births that were to teens ranged from under 3% in four counties (Cherokee, Iowa, Jefferson, Palo Alto) to just under 15% in two counties (Appanoose, Clarke). Although there were year-to-year variations for all the counties, teen births, as a percentage of all births, were lower in 1987 than in 1980 for 93 counties. Six counties (Chickasaw, Emmet, Fayette, Hamilton, Ida, Monroe) had a higher percentage of births to teens in 1987 than in 1980, but the increase was less than one percentage point in four of these counties.

Teens tended to have a much higher percentage of their births out of wedlock than the population overall. In most counties for both 1980 and 1987, the percentage of teen births that were out-of-wedlock was significantly higher than the percentage of all births that were out of wedlock (Table 3).

For the state, the number of teen out-of-wedlock births remained relatively stable between 1980 and 1987. In contrast, the total number of out-of-wedlock births increased 25.5% during the period. Consequently, teen out-of-wedlock births, which were 46.5% of all out-of-wedlock births in 1980, were down to 36.4% of all out-of-wedlock births in 1987 (Table 3).

For the counties in 1987, teen out-of-wedlock births, as a proportion of all out-of-wedlock births, ranged from a low of 11.8% in Cherokee to a high of 66.7% in Ida. A total of 78 counties had a lower proportion of out-of-wedlock births to teens in 1987 than in 1980. Two counties stayed the same in both years and 19 counties increased.

Deaths Caused by Accident, Suicide, or Homicide in Iowa's Counties: 1980-1987

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The Iowa Department of Public Health maintains records on the causes of death of residents in Iowa's counties. Deaths from causes other than illness and disease include motor vehicle accidents, other accidents, suicides, and homicides. From 1980 through 1987, the 12,266 deaths due to these four causes accounted for 5.6% of all deaths (217,404) in Iowa. All deaths are recorded by the county of residence of the deceased, not by where the death occurred.

DEATHS DUE TO MOTOR VEHICLE ACCIDENTS

In 1987, 501 Iowans died in motor vehicle accidents. During each of the previous five years, the number had been within 50 of the 1987 figure. In 1980 and 1981, however, deaths from motor vehicle accidents were substantially higher, with more than 650 both years (Table 1).

Polk county had more residents (41) die in motor vehicle accidents in 1987 than did any other county. Pottawattamie recorded 25 such deaths and eight other counties (Black Hawk, 13; Clinton, 10; Dubuque, 14; Jackson, 11; Linn, 19; Scott, 22; Woodbury, 14) had at least 10. Thirty-nine counties had from four to nine motor vehicle deaths while a majority (51) had three or fewer. Seven counties (Adair, Audubon, Decatur, Louisa, Osceola, Palo Alto, Van Buren) had no residents die in motor vehicle accidents in 1987.

A total of 4,329 Iowa residents died in motor vehicle accidents from 1980 through 1987. Of these, 379 were residents of Polk county. Six other counties (Black Hawk, 145; Dubuque, 126; Linn, 170; Pottawattamie, 136; Scott, 184; Woodbury, 128) had at least 100 residents die in this manner between 1980 and 1987. Of the 92 counties with fewer than 100 motor vehicle deaths, 14 counties had between 50 and 99, 57 recorded 20 to 49 such deaths, while 21 counties had 19 or less. Adams county had five residents die in motor vehicle accidents during the eight year period, the lowest of any county.

DEATHS DUE TO OTHER ACCIDENTS

Included in the category of other accidents are deaths by falls, drowning, fire, suffocation, accidental poisoning, and gunshots; deaths from boat and airplane accidents also are counted in this category. The deaths of 535 Iowans were due to these kinds of causes in 1987. This was a lower number than in any of the preceding years this decade (Table 2). In 1980, 652 other accidental deaths not involving motor vehicles occurred to Iowa residents, the highest during the period reviewed.

In 1987, Polk county had the highest number (60) of deaths from accidents other than those involving motor vehicles, followed by Scott (34), Black Hawk (22) and Linn (17), the only other counties with more than 15. Five to 14 such deaths occurred in 34 counties in 1987, and 54 counties had one to four. There were no deaths from these kinds of accidents to residents of seven counties (Audubon, Cedar, Lucas, Pocahontas, Shelby, Taylor, Worth) in 1987.

Table 1. Deaths to Residents Caused by Motor Vehicle Accidents in Iowa Counties, 1980-1987.

County	1987	1986	1985	1984	1983	1982	1981	1980	1980-1987
Adair	0	2	0	2	1	0	2	3	10
Adams	1	0	1	0	1	1	1	0	5
Allamakee	9	3	1	6	7	7	5	9	47
Appanoose	4	4	1	5	0	0	5	3	22
Audubon	0	0	1	2	4	0	2	4	13
Benton	5	3	3	4	9	5	3	7	39
Black Hawk	13	13	18	13	16	19	24	29	145
Boone	6	1	5	2	2	6	7	3	32
Bremer	2	3	4	2	4	3	5	8	31
Buchanan	1	1	2	4	6	7	5	5	31
Buena Vista	2	3	2	5	3	6	5	6	32
Butler	6	5	1	3	2	2	2	5	26
Calhoun	3	2	5	3	3	2	2	7	27
Carroll	5	3	3	3	3	5	3	8	33
Cass	1	7	4	1	6	4	4	10	37
Cedar	4	2	7	4	0	5	8	5	35
Cerro Gordo	8	5	8	3	5	8	10	16	63
Cherokee	3	0	4	4	1	4	7	4	27
Chickasaw	2	3	1	5	1	2	2	6	22
Clarke	2	4	3	0	0	3	4	1	17
Clay	2	4	4	1	3	6	2	8	30
Clayton	1	8	3	5	5	6	10	11	49
Clinton	10	10	8	6	11	14	16	11	86
Crawford	7	4	10	2	9	2	6	6	46
Dallas	6	5	7	5	6	8	7	5	49
Davis	2	3	3	5	1	1	0	0	15
Decatur	0	1	2	3	2	8	4	2	22
Delaware	4	2	4	3	2	4	4	4	27
Des Moines	8	8	4	11	9	5	8	9	62
Dickinson	3	0	2	1	0	1	1	5	13
Dubuque	14	14	14	15	18	12	21	18	126
Emmet	4	1	8	3	2	0	5	4	27
Fayette	8	3	6	3	4	4	5	2	35
Floyd	4	1	3	2	5	8	6	7	36
Franklin	2	1	1	3	3	2	3	3	18
Fremont	5	4	4	3	2	2	4	3	27
Greene	1	0	0	1	2	1	5	8	18
Grundy	2	1	2	1	2	4	2	3	17
Guthrie	1	1	3	2	2	3	1	2	15
Hamilton	7	2	0	3	6	3	8	4	33
Hancock	2	4	1	3	3	1	1	2	17
Hardin	5	3	3	8	2	2	7	7	37
Harrison	2	4	2	5	4	6	1	8	32
Henry	2	7	0	3	1	5	6	4	28
Howard	3	3	1	5	1	1	5	2	21
Humboldt	3	3	2	2	4	0	5	2	21
Ida	7	1	5	2	3	0	1	0	19
Iowa	3	2	8	1	0	5	5	5	29
Jackson	11	8	7	4	7	10	8	7	62
Jasper	8	7	3	10	9	5	6	5	53

Table 1. Deaths to Residents Caused by Motor Vehicle Accidents in Iowa Counties, 1980-1987 (continued).

County	1987	1986	1985	1984	1983	1982	1981	1980	1980-1987
Jefferson	5	2	2	4	5	1	4	5	28
Johnson	5	8	22	8	7	14	9	11	84
Jones	4	2	4	1	7	3	6	6	33
Keokuk	6	3	3	8	9	6	8	3	46
Kossuth	4	2	10	3	1	7	7	5	39
Lee	8	5	8	6	10	9	13	14	73
Linn	19	16	20	19	15	20	32	29	170
Louisa	0	3	0	2	3	3	2	2	15
Lucas	3	2	3	3	3	2	4	1	21
Lyon	2	5	3	4	1	2	5	4	26
Madison	2	1	4	3	3	1	3	1	18
Mahaska	7	3	4	4	5	3	0	6	32
Marion	2	4	5	2	5	1	8	4	31
Marshall	9	10	9	6	9	13	10	11	77
Mills	3	5	3	2	1	3	3	4	24
Mitchell	3	1	1	1	4	1	2	3	16
Monona	4	5	0	3	3	3	6	7	31
Monroe	1	1	3	3	6	1	3	6	24
Montgomery	2	3	2	1	2	2	6	2	20
Muscatine	8	4	18	10	15	8	12	9	84
O'Brien	3	0	1	7	3	3	8	3	28
Osceola	0	6	2	2	4	1	2	0	17
Page	1	2	2	8	4	3	5	6	31
Palo Alto	0	2	7	1	1	1	2	2	16
Plymouth	8	4	9	1	5	7	8	10	52
Pocahontas	3	7	1	2	3	3	5	4	28
Polk	41	43	45	44	43	28	58	77	379
Pottawattamie	25	17	14	11	21	21	22	5	136
Poweshiek	6	5	3	8	2	6	5	6	41
Ringgold	3	0	2	2	3	1	1	3	15
Sac	7	1	7	1	3	4	3	5	31
Scott	22	21	15	18	33	18	29	28	184
Shelby	2	0	2	2	5	5	2	7	25
Sioux	6	9	5	4	4	4	4	6	42
Story	9	6	6	9	5	6	9	9	59
Tama	5	5	5	4	8	3	7	4	41
Taylor	5	4	2	0	5	3	2	3	24
Union	1	5	3	3	0	5	3	5	25
Van Buren	0	0	1	2	1	3	3	1	11
Wapello	2	9	8	5	5	7	11	5	52
Warren	3	7	7	5	6	6	6	11	51
Washington	4	5	10	4	4	3	10	8	48
Wayne	3	0	3	1	3	2	3	3	18
Webster	8	11	12	14	11	9	11	17	93
Winnebago	3	1	1	5	7	3	3	4	27
Winneshiek	2	3	2	5	7	4	4	3	30
Woodbury	14	13	19	13	20	22	15	12	128
Worth	1	1	2	2	1	3	0	0	10
Wright	3	4	7	5	3	4	2	3	31
State of Iowa	501	455	521	473	536	509	655	679	4329

Table 2. Deaths to Residents Caused by Accidents Other Than Those Involving Motor Vehicles in Iowa Counties, 1980-1987.

County	1987	1986	1985	1984	1983	1982	1981	1980	1980-1987
Adair	4	2	1	4	0	4	2	4	21
Adams	1	1	2	2	1	1	2	3	13
Allamakee	5	8	2	4	4	5	3	3	34
Appanoose	4	9	6	4	2	6	1	3	35
Audubon	0	2	2	2	4	3	1	2	16
Benton	4	1	5	4	7	2	4	6	33
Black Hawk	22	24	14	16	33	21	25	27	182
Boone	11	8	8	3	9	3	9	5	56
Bremer	1	5	2	4	4	4	8	2	30
Buchanan	7	3	5	4	3	6	8	4	40
Buena Vista	3	0	4	2	8	3	4	6	30
Butler	4	7	2	1	2	2	4	5	27
Calhoun	4	4	2	3	4	0	1	2	20
Carroll	8	2	5	8	3	11	3	5	45
Cass	5	1	8	3	1	4	3	5	30
Cedar	0	1	6	5	2	2	4	0	20
Cerro Gordo	8	11	10	9	7	8	13	9	75
Cherokee	2	1	3	2	4	3	1	2	18
Chickasaw	1	4	1	3	0	2	3	3	17
Clarke	2	0	3	2	3	1	3	7	21
Clay	4	1	0	4	3	6	4	5	27
Clayton	4	2	6	9	6	8	6	7	48
Clinton	13	9	13	6	8	20	5	14	88
Crawford	3	5	5	5	3	5	5	4	35
Dallas	10	4	8	8	7	6	4	4	51
Davis	2	0	2	2	4	5	1	1	17
Decatur	2	3	3	1	2	2	1	5	19
Delaware	2	5	6	9	2	7	1	4	36
Des Moines	4	11	14	2	5	7	9	7	59
Dickinson	3	3	4	3	3	8	4	3	31
Dubuque	7	22	20	16	13	13	15	19	125
Emmet	1	1	4	5	3	0	4	2	20
Fayette	8	3	6	8	3	6	10	8	52
Floyd	5	2	2	5	4	6	3	10	37
Franklin	1	6	5	1	3	1	5	2	24
Fremont	2	1	0	2	7	3	8	3	26
Greene	3	3	5	1	7	2	0	4	25
Grundy	2	2	2	0	1	4	4	6	21
Guthrie	5	3	4	3	1	6	3	8	33
Hamilton	1	5	2	3	6	1	1	5	24
Hancock	3	5	0	3	3	5	3	1	23
Hardin	3	4	3	2	4	5	4	9	34
Harrison	4	2	8	3	9	3	4	3	36
Henry	2	3	7	1	8	2	3	3	29
Howard	2	1	2	0	3	3	1	0	12
Humboldt	2	1	0	4	1	5	5	1	19
Ida	3	2	0	4	3	3	4	2	21
Iowa	3	2	2	3	1	1	3	3	18
Jackson	3	2	2	5	4	9	11	4	40
Jasper	6	12	7	8	9	8	12	11	73

Table 2. Deaths to Residents Caused by Accidents Other Than Those Involving Motor Vehicles in Iowa Counties, 1980-1987 (continued).

County	1987	1986	1985	1984	1983	1982	1981	1980	1980-1987
Jefferson	7	3	4	2	4	2	4	0	26
Johnson	11	13	6	6	13	11	12	6	78
Jones	3	5	5	3	7	1	3	6	33
Keokuk	5	4	6	6	3	4	4	2	34
Kossuth	3	11	3	4	4	4	3	4	36
Lee	10	4	8	6	15	11	8	12	74
Linn	17	26	23	23	22	21	29	32	193
Louisa	5	2	5	1	1	5	2	0	21
Lucas	0	1	3	0	2	5	1	1	13
Lyon	5	3	1	7	1	3	5	3	28
Madison	2	5	5	3	3	3	4	6	31
Mahaska	7	4	4	3	5	4	4	4	35
Marion	6	14	7	8	8	8	11	6	68
Marshall	8	6	9	12	9	5	9	11	69
Mills	2	2	2	2	1	1	4	2	16
Mitchell	4	2	3	6	2	4	6	7	34
Monona	1	5	2	3	4	3	0	3	21
Monroe	3	1	6	3	1	2	0	7	23
Montgomery	5	2	3	3	1	3	6	1	24
Muscatine	8	8	12	6	8	10	9	5	66
O'Brien	8	9	6	2	3	6	6	2	42
Osceola	2	1	5	0	3	1	1	3	16
Page	3	5	7	2	4	6	3	4	34
Palo Alto	1	1	2	5	0	2	4	5	20
Plymouth	4	2	2	3	4	6	5	2	28
Pocahontas	0	2	0	1	0	8	1	4	16
Polk	60	78	61	74	51	58	71	80	533
Pottawattamie	14	16	17	11	15	19	16	14	122
Poweshiek	7	3	5	3	5	6	2	6	37
Ringgold	3	2	2	5	1	0	0	1	14
Sac	1	2	4	1	4	4	8	4	28
Scott	34	27	19	21	24	25	24	22	196
Shelby	0	3	4	9	6	3	3	6	34
Sioux	2	6	5	7	5	8	7	10	50
Story	11	8	13	5	14	14	14	13	92
Tama	2	12	5	4	1	6	4	4	38
Taylor	0	1	1	1	1	5	1	2	12
Union	6	0	3	4	4	5	6	3	31
Van Buren	2	6	2	2	1	1	1	2	17
Wapello	9	7	4	8	15	7	14	12	76
Warren	3	7	7	9	9	8	9	4	56
Washington	8	3	6	9	4	3	5	7	45
Wayne	3	2	4	2	3	2	8	4	28
Webster	8	6	11	7	10	9	14	12	77
Winnebago	1	3	2	2	4	3	4	3	22
Winneshiek	7	2	11	2	2	5	5	5	39
Woodbury	14	21	15	15	27	12	18	29	151
Worth	0	2	1	2	1	2	2	2	12
Wright	1	5	6	2	0	6	4	8	32
State of Iowa	535	582	580	536	572	601	629	652	4687

Table 3. Deaths to Residents Caused by Suicide in Iowa Counties, 1980-1987.

County	1987	1986	1985	1984	1983	1982	1981	1980	1980-1987
Adair	2	3	0	1	2	0	2	1	11
Adams	0	0	0	2	1	0	0	0	3
Allamakee	5	4	3	2	1	2	0	3	20
Appanoose	2	2	0	4	0	4	1	3	16
Audubon	0	1	1	1	0	1	2	0	6
Benton	3	3	5	1	2	2	1	1	18
Black Hawk	16	14	16	17	15	12	15	13	118
Boone	3	3	4	3	2	3	0	4	22
Bremer	3	0	2	3	2	0	1	4	15
Buchanan	2	1	2	7	1	2	3	3	21
Buena Vista	1	2	3	5	2	0	1	0	14
Butler	3	3	2	1	2	0	1	0	12
Calhoun	3	0	0	2	1	4	1	1	12
Carroll	2	2	1	2	3	2	2	3	17
Cass	2	5	1	1	5	1	1	2	18
Cedar	2	4	2	4	2	1	3	0	18
Cerro Gordo	9	4	9	2	5	8	4	4	45
Cherokee	3	2	2	1	1	1	1	1	12
Chickasaw	3	1	2	1	1	0	0	2	10
Clarke	2	0	0	1	0	3	0	2	8
Clay	0	1	1	2	2	0	3	3	12
Clayton	3	4	4	3	2	0	4	3	23
Clinton	9	11	6	11	6	6	9	7	65
Crawford	0	1	2	1	2	2	0	2	10
Dallas	4	4	4	2	3	7	4	3	31
Davis	0	1	0	0	1	0	4	2	8
Decatur	1	1	3	0	0	0	0	0	5
Delaware	3	2	2	3	5	0	1	0	16
Des Moines	12	7	2	3	5	7	6	4	46
Dickinson	1	7	3	1	5	1	1	0	19
Dubuque	12	5	9	7	12	8	6	10	69
Emmet	1	0	1	4	0	0	1	8	15
Fayette	7	2	3	1	3	4	6	3	29
Floyd	4	0	3	0	1	2	3	0	13
Franklin	2	1	1	1	0	0	2	1	8
Fremont	1	1	1	2	0	0	0	0	5
Greene	4	1	2	1	3	1	0	4	16
Grundy	0	2	3	2	1	1	0	2	11
Guthrie	0	3	3	2	2	3	1	3	17
Hamilton	3	3	3	3	0	1	1	0	14
Hancock	2	1	1	3	1	0	1	2	11
Hardin	2	1	2	1	0	6	0	1	13
Harrison	1	2	1	3	1	3	4	1	16
Henry	1	0	1	7	3	1	6	1	20
Howard	0	0	1	1	2	1	0	0	5
Humboldt	2	0	1	3	0	3	0	3	12
Ida	0	0	0	3	1	1	0	1	6
Iowa	2	3	1	1	0	1	0	2	10
Jackson	3	2	2	4	2	3	4	1	21
Jasper	3	6	4	3	3	2	1	5	27

Table 3. Deaths to Residents Caused by Suicide in Iowa Counties, 1980-1987 (continued).

County	1987	1986	1985	1984	1983	1982	1981	1980	1980-1987
Jefferson	2	2	1	2	2	0	0	2	11
Johnson	12	10	14	7	4	6	11	8	72
Jones	3	1	4	1	2	1	2	4	18
Keokuk	2	1	2	0	1	2	3	1	12
Kossuth	4	1	1	1	3	3	2	2	17
Lee	6	5	7	4	4	4	4	4	38
Linn	28	27	16	19	13	20	22	20	165
Louisa	3	1	3	6	1	0	3	0	17
Lucas	4	1	0	2	0	2	1	4	14
Lyon	1	2	0	4	3	0	0	5	15
Madison	0	2	1	4	1	3	1	1	13
Mahaska	1	5	2	2	7	1	2	2	22
Marion	7	6	3	6	6	2	3	5	38
Marshall	6	12	5	5	6	7	5	3	49
Mills	1	0	1	0	2	1	3	1	9
Mitchell	0	0	1	0	4	1	2	2	10
Monona	0	4	1	1	0	0	0	1	7
Monroe	1	0	0	1	0	2	0	1	5
Montgomery	2	3	2	2	3	5	0	3	20
Muscatine	7	5	4	3	6	7	2	1	35
O'Brien	0	2	3	1	2	3	0	0	11
Osceola	1	3	2	0	0	0	2	1	9
Page	0	3	0	2	1	0	2	1	9
Palo Alto	0	2	0	0	1	2	3	0	8
Plymouth	6	2	3	1	3	2	0	0	17
Pocahontas	1	0	2	2	0	2	3	1	11
Polk	42	42	50	31	47	46	40	40	338
Pottawattamie	16	8	12	12	11	10	9	13	91
Poweshiek	2	0	0	2	4	3	2	2	15
Ringgold	0	1	1	1	0	0	0	0	3
Sac	1	3	0	0	0	1	2	1	8
Scott	31	27	20	22	28	13	25	36	202
Shelby	1	1	2	2	2	0	2	2	12
Sioux	1	2	3	3	2	0	0	0	11
Story	8	5	6	6	3	9	4	3	44
Tama	2	3	3	3	5	3	3	1	23
Taylor	3	1	2	2	2	1	0	1	12
Union	3	0	1	3	1	1	1	2	12
Van Buren	0	4	3	1	4	0	0	1	13
Wapello	5	7	5	5	7	7	4	4	44
Warren	5	3	5	5	1	3	2	5	29
Washington	3	1	3	1	3	0	2	1	14
Wayne	1	2	1	1	0	0	0	0	5
Webster	6	11	3	5	3	10	7	4	49
Winnebago	2	1	2	1	1	1	2	0	10
Winneshiek	3	3	3	3	2	0	4	2	20
Woodbury	14	12	7	17	10	11	11	9	91
Worth	0	1	0	2	1	2	0	0	6
Wright	2	2	0	3	0	1	0	2	10
State of Iowa	398	366	335	346	326	308	303	321	2703

Table 4. Deaths to Residents Caused by Homicide in Iowa Counties, 1980-1987.

County	1987	1986	1985	1984	1983	1982	1981	1980	1980-1987
Adair	0	0	0	0	0	0	0	0	0
Adams	0	0	0	0	0	0	0	1	1
Allamakee	1	0	0	0	0	0	0	1	2
Appanoose	0	0	0	1	0	0	0	1	2
Audubon	0	0	0	0	0	0	0	0	0
Benton	3	1	0	0	0	0	1	1	6
Black Hawk	0	1	3	2	6	4	10	4	30
Boone	1	0	0	2	1	0	1	2	7
Bremer	0	1	0	0	0	0	1	0	2
Buchanan	0	0	0	0	0	1	1	0	2
Buena Vista	0	1	0	0	2	0	0	0	3
Butler	0	0	0	1	4	0	0	0	5
Calhoun	0	0	0	0	0	0	0	0	0
Carroll	0	0	0	0	0	0	0	1	1
Cass	0	0	0	1	0	0	0	0	1
Cedar	0	0	0	0	0	0	0	0	0
Cerro Gordo	0	1	0	2	0	3	1	0	7
Cherokee	0	0	0	0	0	0	0	0	0
Chickasaw	0	0	0	0	0	0	0	0	0
Clarke	0	0	0	0	0	0	1	0	1
Clay	0	0	0	0	0	0	0	0	0
Clayton	0	2	0	0	0	0	0	0	2
Clinton	0	4	3	0	0	1	9	1	18
Crawford	1	2	0	0	0	0	0	0	3
Dallas	1	0	0	1	0	1	1	0	4
Davis	1	1	0	1	0	0	0	0	3
Decatur	0	0	0	0	0	0	0	1	1
Delaware	0	0	0	0	0	0	0	0	0
Des Moines	0	1	0	1	3	3	0	4	12
Dickinson	0	0	0	0	0	0	1	0	1
Dubuque	1	0	1	0	1	0	1	1	5
Emmet	0	0	0	2	0	0	0	0	2
Fayette	0	0	0	0	0	0	0	0	0
Floyd	0	0	0	0	0	0	0	0	0
Franklin	0	0	0	0	0	0	0	2	2
Fremont	1	0	0	1	1	1	0	0	4
Greene	0	0	0	0	0	0	1	0	1
Grundy	0	0	0	0	0	0	0	0	0
Guthrie	0	0	0	0	0	0	0	0	0
Hamilton	0	0	1	0	0	0	0	0	1
Hancock	0	0	2	0	0	1	1	0	4
Hardin	0	0	0	0	0	0	0	0	0
Harrison	0	0	0	1	1	0	0	0	2
Henry	0	1	0	2	4	0	2	2	11
Howard	0	0	0	0	0	1	1	0	2
Humboldt	0	0	0	0	0	0	0	0	0
Ida	0	0	0	0	0	0	0	0	0
Iowa	0	0	0	0	0	0	0	0	0
Jackson	1	0	1	1	1	0	1	1	6
Jasper	0	3	1	1	2	2	0	0	9

Table 4 Deaths to Residents Caused by Homicide in Iowa Counties, 1980-1987 (continued).

County	1987	1986	1985	1984	1983	1982	1981	1980	1980-1987
Jefferson	0	0	0	0	0	0	0	1	1
Johnson	0	0	4	1	0	0	2	0	7
Jones	0	0	0	0	1	0	0	0	1
Keokuk	1	0	0	0	0	0	1	0	2
Kossuth	2	0	1	0	0	0	0	0	3
Lee	0	0	2	1	1	3	2	2	11
Linn	3	2	2	7	6	4	3	3	30
Louisa	0	0	0	0	0	1	0	0	1
Lucas	0	0	0	1	0	1	0	0	2
Lyon	0	0	0	0	0	0	0	0	0
Madison	0	1	1	1	0	0	0	0	3
Mahaska	1	0	1	0	1	1	0	0	4
Marion	0	1	1	0	0	1	0	1	4
Marshall	2	0	0	1	0	2	1	1	7
Mills	1	0	0	0	0	0	1	0	2
Mitchell	0	0	0	0	0	0	0	0	0
Monona	0	0	0	0	0	1	0	0	1
Monroe	0	0	2	1	1	0	0	0	4
Montgomery	0	0	0	0	0	0	0	0	0
Muscatine	1	2	4	0	0	3	1	1	12
O'Brien	0	0	1	0	0	0	1	0	2
Osceola	0	0	0	0	0	0	0	0	0
Page	0	0	0	1	0	0	0	3	4
Palo Alto	0	0	0	0	0	0	0	0	0
Plymouth	0	0	0	0	0	0	0	0	0
Pocahontas	0	0	0	0	0	2	1	0	3
Polk	19	21	13	18	13	17	13	19	133
Pottawattamie	2	4	0	4	4	1	1	5	21
Poweshiek	0	0	1	0	0	0	0	1	2
Ringgold	0	0	0	0	0	0	0	1	1
Sac	0	0	0	0	0	1	0	1	2
Scott	5	2	6	9	6	5	8	9	50
Shelby	0	0	0	0	0	0	1	0	1
Sioux	0	1	1	0	0	0	0	0	2
Story	2	2	1	1	0	0	0	0	6
Tama	0	1	0	0	0	0	0	3	4
Taylor	0	0	1	1	0	0	0	1	3
Union	0	0	0	0	1	0	0	0	1
Van Buren	0	0	0	1	0	0	0	0	1
Wapello	3	0	0	1	1	1	2	0	8
Warren	1	0	1	1	0	1	0	0	4
Washington	1	0	0	0	0	0	0	1	2
Wayne	0	1	1	0	0	0	0	0	2
Webster	0	0	1	2	2	2	4	1	12
Winnebago	0	0	0	0	0	0	0	0	0
Winneshiek	0	0	0	0	0	0	0	0	0
Woodbury	3	4	0	2	6	2	4	1	22
Worth	0	0	1	0	0	0	0	0	1
Wright	0	1	0	0	0	1	0	0	2
State of Iowa	58	62	58	74	69	68	80	78	547

During the 1980 to 1987 period, accidents other than those involving motor vehicles claimed the lives of 4,687 Iowans. Polk county's total was 533, more than double that of second place Scott (196). Black Hawk (182), Dubuque (125), Linn (193), Pottawattamie (122), and Woodbury (151) also recorded more than 100 such accidental deaths during the eight years. For 17 counties, between 50 and 99 residents died in these accidents, while 75 counties had fewer than 50 such deaths. Howard, Taylor and Worth had 12 of these accidental deaths during the period, the lowest of all the counties.

DEATHS DUE TO SUICIDE

Iowa recorded 398 suicides in 1987, higher than any previous year in the period (Table 3). Nearly 100 fewer suicides occurred in 1981, the year with the lowest number this decade. Polk (42), Scott (31), and Linn (28) were the only counties with at least 20 suicides in 1987. A large majority (77) of the counties had four or fewer; of these, 18 had no suicides in 1987.

A total of 2,703 Iowans committed suicide from 1980 to 1987. More than 100 occurred to residents of Black Hawk (118), Linn (165), Polk (338), and Scott (202) counties. There were 30 to 99 suicides in 15 counties, 10 to 29 in 61 counties, and nine or fewer in 19 counties. Adams and Ringgold, with three suicides each, had the lowest total for the eight years.

DEATHS DUE TO HOMICIDE

There were 58 homicides in Iowa in 1987, which, along with 1985, was the lowest yearly number of the decade (Table 4). The highest was 80 in 1981. Three-fourths (75) of Iowa's counties had no homicide in 1987 and another 14 counties had only one. Polk (19) had the most with Scott (5) second.

From 1980 through 1987, 547 Iowans died by homicide. Of these, 133 were Polk county residents, 50 were from Scott, 30 each resided in Black Hawk and Linn, 22 lived in Woodbury, and 21 resided in Pottawattamie. None of the other 93 counties had as many as 20 homicides over the eight years. Thirty-three counties had from three to 19 homicides, while 36 counties had one or two residents who died in this manner. Twenty-four counties had no homicides from 1980 to 1987.

Note: See an annual publication called VITAL STATISTICS OF IOWA for more detailed data on deaths (Iowa Department of Public Health, Lucas State Office Building, Des Moines, IA 50319). The most recent volume is for 1987.

Marriages and Dissolutions in Iowa's Counties:

1980-1988

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Marriages and dissolutions for Iowa and its counties are recorded annually by the Iowa Department of Public Health. Both marriages and dissolutions are counted according to the county in which they occur. Dissolutions are, for the most part, divorces, although annulments are also included.

MARRIAGES

Iowa recorded 25,090 marriages in 1988, 2,028 more than in 1987. This was only the second time in the decade that there had been an increase in marriages over the previous year (Table 1). There were 36 more marriages in 1982 than in 1981. Marriages declined for all other year-to-year comparisons since 1980. The size of the increase between 1987 and 1988 was of special significance because of the five preceding years of decline. The largest year-to-year drop of the period was between 1984 and 1985 (-1,788).

The increase in marriages from 1987 to 1988 must be interpreted with caution. As of 1988, the State of Illinois added a requirement for a blood test for HIV (Human Immunodeficiency Virus) before a marriage license would be issued. Discussions with county officials in eastern Iowa indicate that a portion of the increase in marriages reported in several Iowa counties bordering the Mississippi River was due to Illinois residents. Thus, an unknown proportion of the increase in marriages from 1987 to 1988 in Iowa was caused by the change in the law in Illinois (this law was rescinded in September of 1989).

In 1988, Polk county's 3,108 marriages was the highest number of any county. Linn (1,505) and Scott (1,910) also had more than 1,000 marriages that year. Nine counties recorded 500 to 999 marriages, 12 were between 200 and 499, and 37 counties had 100 to 199 marriages. Thirty-eight counties had fewer than 100 marriages in 1988; the lowest numbers were in Adams (41), Ringgold (44), and Worth (48).

A majority (62) of the counties followed the state trend with more marriages in 1988 than in 1987. Five counties (Clinton, +233; Des Moines, +107; Linn, +119; Polk, +142; Scott, +557) had at least 100 more marriages in the later year, although three of these border the Mississippi River and probably benefited from the change that occurred in the law regarding marriages in Illinois. Of the 35 counties with fewer marriages in 1988 than in 1987, the drop was 10 or less in 28 counties. Emmet (-23) and Winneshiek (-24) had the largest declines. Two counties (Page, Pottawattamie) had the same number of marriages both years.

Nearly 2,400 fewer marriages occurred in Iowa in 1988 than at the beginning of this decade. Most of the counties mirrored this trend; 86 had fewer marriages in the later year. Three counties (Black Hawk, -298; Pottawattamie, -101; Woodbury, -145) had at least 100 fewer marriages in 1988 than in 1980. Another 14 counties had from 50 to 99 fewer marriages in 1988 than in 1980, 36 were lower by 20 to 49, and the differences in 33 were less than 20 marriages. Of the 13 counties that increased when the beginning and end of the period were compared, 10 had fewer than 25 more marriages in 1988 than in 1980. There were three counties, however, that recorded substantially more marriages in 1988 than in 1980 (Clinton, +117; Des Moines, +75; Scott, +296); again, the change in regulations in Illinois probably contributed much of the increase in these counties.

Table 1. Marriages in Iowa Counties, 1980-1988.

County	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1988
Adair	59	51	58	62	82	54	60	74	57	557
Adams	41	38	40	43	38	34	45	43	36	358
Allamakee	118	115	121	133	150	144	139	150	149	1219
Appanoose	112	104	115	125	112	130	106	119	129	1052
Audubon	65	54	42	49	71	82	74	70	64	571
Benton	153	168	178	160	169	163	158	189	190	1528
Black Hawk	958	948	913	1044	1066	1130	1115	1144	1256	9574
Boone	224	192	194	216	209	205	209	224	235	1908
Bremer	186	196	167	175	209	206	198	191	224	1752
Buchanan	165	141	147	183	170	220	206	213	216	1661
Buena Vista	164	155	163	180	171	188	189	173	207	1590
Butler	101	113	103	107	123	127	124	134	122	1054
Calhoun	69	77	84	76	110	93	99	119	117	844
Carroll	177	187	167	163	206	232	247	214	240	1833
Cass	141	117	126	145	181	162	181	187	160	1400
Cedar	118	122	117	103	134	140	148	176	156	1214
Cerro Gordo	346	327	357	375	361	388	448	395	411	3408
Cherokee	112	102	105	105	124	139	152	164	136	1139
Chickasaw	800	741	775	791	897	963	915	910	850	7642
Clarke	53	54	48	58	64	94	66	56	72	565
Clay	159	119	104	132	143	149	149	178	144	1277
Clayton	160	144	151	154	166	164	182	186	204	1511
Clinton	677	454	454	554	571	540	624	553	560	4987
Crawford	141	134	144	135	152	176	142	149	163	1336
Dallas	208	213	216	227	248	252	206	250	230	2050
Davis	53	61	73	57	72	68	85	74	68	611
Decatur	70	80	72	80	75	74	71	75	81	678
Delaware	159	162	146	140	162	162	177	141	191	1440
Des Moines	532	425	415	402	491	449	516	477	457	4164
Dickinson	133	136	111	135	150	153	133	144	122	1217
Dubuque	968	887	864	894	920	886	966	917	949	8251
Emmet	86	109	100	96	115	95	116	107	104	928
Fayette	175	157	177	185	182	181	225	219	201	1702
Floyd	128	120	137	155	160	145	152	176	153	1326
Franklin	78	80	60	87	100	89	92	116	79	781
Fremont	67	71	66	52	80	81	65	71	80	633
Greene	84	74	84	73	86	99	99	99	105	803
Grundy	83	62	82	92	101	94	102	90	91	797
Guthrie	98	85	92	75	92	92	98	97	112	841
Hamilton	126	132	127	125	146	158	181	146	170	1311
Hancock	80	77	101	101	100	101	103	112	101	876
Hardin	150	135	174	172	207	174	172	195	195	1574
Harrison	117	111	122	136	145	145	137	131	147	1191
Henry	183	168	158	167	168	166	158	171	164	1503
Howard	94	68	81	92	106	92	98	82	104	817
Humboldt	97	83	75	82	109	98	109	100	107	860
Ida	53	63	45	59	66	61	67	65	69	548
Iowa	113	85	87	102	118	134	116	145	138	1038
Jackson	188	198	181	176	177	200	214	218	238	1790
Jasper	289	295	273	298	296	290	319	307	344	2711

Table 1. Marriages in Iowa Counties, 1980-1988 (continued).

County	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980- 1988
Jefferson	159	142	139	144	170	184	198	156	144	1436
Johnson	721	668	677	697	734	746	727	706	731	6407
Jones	157	137	163	159	138	169	162	187	169	1441
Keokuk	76	91	66	99	111	118	90	107	122	880
Kossuth	143	138	134	152	160	188	212	179	182	1488
Lee	437	373	372	412	446	423	407	399	442	3711
Linn	1505	1386	1365	1453	1507	1436	1532	1588	1562	13334
Louisa	96	85	93	91	101	89	97	107	74	833
Lucas	83	59	77	72	89	98	97	68	95	738
Lyon	78	81	91	90	101	102	120	117	116	896
Madison	91	87	79	66	104	108	103	96	100	834
Mahaska	194	183	167	179	202	212	214	213	201	1765
Marion	242	249	259	246	272	266	279	283	296	2392
Marshall	349	298	302	339	365	360	402	371	378	3164
Mills	98	69	81	82	107	134	135	115	101	922
Mitchell	77	61	80	93	111	103	99	127	101	852
Monona	82	72	75	72	87	94	116	89	127	814
Monroe	65	61	67	77	76	81	77	85	83	672
Montgomery	106	90	84	103	101	141	111	117	105	958
Muscatine	373	340	415	383	375	412	444	454	398	3594
O'Brien	113	88	107	119	112	122	139	149	139	1088
Osceola	57	53	42	47	51	59	73	64	58	504
Page	136	136	136	137	163	148	170	136	154	1316
Palo Alto	78	87	92	97	96	105	108	115	131	909
Plymouth	179	162	154	172	183	233	239	228	197	1747
Pocahontas	76	82	51	84	95	96	93	79	94	750
Polk	3108	2966	2928	2987	3130	3133	3114	3150	3118	27634
Pottawattamie	877	877	901	961	1085	1192	1052	998	978	8921
Poweshiek	121	111	137	141	152	141	146	148	169	1266
Ringgold	44	29	37	44	58	51	57	49	60	429
Sac	82	89	76	110	109	97	96	117	118	894
Scott	1910	1353	1427	1505	1483	1484	1483	1523	1614	13782
Shelby	100	118	105	115	136	146	157	153	146	1176
Sioux	223	225	225	246	245	214	250	247	277	2152
Story	511	491	475	527	530	538	573	566	589	4800
Tama	125	121	125	131	134	174	138	142	139	1229
Taylor	50	47	48	43	67	70	62	71	60	518
Union	98	99	108	101	101	112	120	121	164	1024
Van Buren	53	55	46	55	49	62	52	73	87	532
Wapello	353	309	353	369	392	365	424	409	396	3370
Warren	273	260	278	288	284	315	316	311	329	2654
Washington	146	152	145	135	176	187	165	181	162	1449
Wayne	57	63	50	43	75	60	64	57	73	542
Webster	372	338	371	365	411	417	442	405	407	3528
Winnebago	90	95	90	100	114	116	116	106	113	940
Winneshiek	147	171	160	151	184	170	188	204	185	1560
Woodbury	738	674	705	802	844	812	758	843	883	7059
Worth	48	63	62	54	74	75	71	69	57	573
Wright	82	88	99	112	125	149	148	139	152	1094
State of Iowa	25090	23062	23311	24578	26366	26769	27189	27153	27474	230992

Table 2. Dissolutions in Iowa Counties, 1980-1988.

County	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1988
Adair	22	26	26	27	39	26	24	20	34	244
Adams	15	17	23	17	9	27	11	20	11	150
Allamakee	24	30	32	43	33	32	25	43	29	291
Appanoose	62	34	56	51	55	66	82	50	59	515
Audubon	22	15	19	14	21	17	20	29	22	179
Benton	79	65	53	58	45	45	50	63	39	497
Black Hawk	514	476	496	512	564	560	539	670	671	5002
Boone	106	120	102	113	95	104	97	114	133	984
Bremer	57	56	59	65	76	85	74	79	70	621
Buchanan	69	54	53	59	61	41	62	72	64	535
Buena Vista	57	56	68	63	54	50	58	72	59	537
Butler	42	31	38	42	42	44	37	30	35	341
Calhoun	23	27	39	40	32	35	33	37	39	305
Carroll	48	56	53	52	52	47	47	53	65	473
Cass	60	60	50	60	67	57	67	55	52	528
Cedar	53	65	55	55	39	65	67	64	67	530
Cerro Gordo	158	186	196	164	191	183	154	228	161	1621
Cherokee	51	55	36	45	63	54	40	45	46	435
Chickasaw	42	37	30	34	32	34	36	38	38	321
Clarke	40	51	22	25	30	37	21	60	38	324
Clay	62	59	82	70	63	85	76	86	83	666
Clayton	44	33	45	49	43	54	49	65	59	441
Clinton	201	175	179	241	218	240	258	256	245	2013
Crawford	62	62	75	53	66	57	64	60	64	563
Dallas	128	147	104	123	118	107	115	116	121	1079
Davis	31	21	26	36	28	38	28	39	32	279
Decatur	28	23	31	24	29	33	36	44	37	285
Delaware	49	28	26	40	34	33	38	56	35	339
Des Moines	194	167	199	170	182	134	182	171	178	1577
Dickinson	53	52	60	53	50	42	46	67	78	501
Dubuque	240	265	251	258	261	231	260	268	293	2327
Emmet	33	34	32	38	44	27	37	43	57	345
Fayette	64	52	54	44	67	56	40	60	64	501
Floyd	56	55	51	56	56	60	76	59	82	551
Franklin	34	30	28	38	37	35	35	48	47	332
Fremont	30	25	32	36	26	27	41	48	29	294
Greene	40	52	39	30	22	32	33	27	33	308
Grundy	21	31	21	33	30	28	18	36	35	253
Guthrie	44	41	38	33	34	40	41	39	38	348
Hamilton	56	61	58	50	55	65	57	57	56	515
Hancock	33	33	32	29	32	33	36	43	35	306
Hardin	73	46	52	67	58	62	58	71	62	549
Harrison	54	58	57	63	56	62	75	61	58	544
Henry	90	66	52	56	64	59	55	65	61	568
Howard	30	23	24	23	22	23	22	21	16	204
Humboldt	31	34	24	28	39	40	31	32	38	297
Ida	27	24	27	20	17	21	30	23	24	213
Iowa	37	20	40	29	45	31	42	34	39	317
Jackson	62	68	38	53	48	31	45	57	41	443
Jasper	131	165	144	123	117	123	132	167	154	1256

Table 2. Dissolutions in Iowa Counties, 1980-1988 (continued).

County	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980- 1988
Jefferson	69	76	90	98	82	84	77	71	64	711
Johnson	216	286	224	270	289	313	319	305	331	2553
Jones	54	61	50	59	65	45	51	73	56	514
Keokuk	28	28	20	21	21	21	29	39	24	231
Kossuth	44	40	44	37	49	34	44	56	49	397
Lee	191	179	155	174	186	174	183	216	218	1676
Linn	608	548	531	584	576	540	541	559	579	5066
Louisa	51	39	48	40	37	37	40	44	59	395
Lucas	40	38	31	51	38	35	48	45	48	374
Lyon	26	15	19	24	13	20	13	18	18	166
Madison	42	56	32	35	27	53	41	53	45	384
Mahaska	115	81	72	108	107	99	89	103	100	874
Marion	114	137	111	109	122	98	106	113	112	1022
Marshall	201	166	163	160	152	190	185	193	219	1629
Mills	50	41	60	31	59	54	40	65	62	462
Mitchell	23	25	19	23	24	28	17	22	21	202
Monona	44	27	34	29	26	37	20	45	39	301
Monroe	29	26	19	23	27	24	30	26	26	230
Montgomery	72	72	64	68	62	42	39	77	69	565
Muscatine	244	279	225	212	225	229	238	227	227	2106
O'Brien	45	44	28	37	32	28	29	40	28	311
Osceola	13	11	16	11	12	17	16	19	8	123
Page	60	67	75	75	63	99	69	109	73	690
Palo Alto	21	18	28	29	34	31	34	27	35	257
Plymouth	72	51	53	63	63	56	42	54	55	509
Pocahontas	31	26	18	18	27	32	29	22	33	236
Polk	1780	1705	1707	1716	1578	1571	1703	1888	1919	15567
Pottawattamie	468	439	488	446	434	429	465	553	513	4235
Poweshiek	60	60	75	58	58	82	55	55	48	551
Ringgold	16	16	17	10	28	28	20	30	17	182
Sac	28	32	37	29	30	31	38	33	35	293
Scott	735	777	743	747	736	804	873	962	984	7361
Shelby	40	36	33	31	33	37	31	53	39	333
Sioux	55	33	46	42	46	52	40	31	48	393
Story	212	203	195	165	207	226	253	258	241	1960
Tama	51	53	56	45	56	51	58	58	46	474
Taylor	22	25	29	30	25	30	19	28	19	227
Union	46	46	63	45	60	65	77	64	72	538
Van Buren	30	32	32	27	22	23	25	30	17	238
Wapello	177	169	166	209	224	206	210	228	215	1804
Warren	130	155	122	133	120	121	140	146	138	1205
Washington	70	61	70	76	66	68	66	70	43	590
Wayne	17	25	19	16	31	17	33	28	21	207
Webster	174	197	167	148	168	174	169	189	188	1574
Winnebago	29	27	39	36	49	21	34	35	48	318
Winneshiek	67	41	65	68	48	49	46	48	51	483
Woodbury	451	409	429	474	431	490	475	526	540	4225
Worth	22	27	16	23	19	18	19	26	22	192
Wright	43	55	54	57	61	57	51	50	66	494
State of Iowa	10808	10527	10324	10525	10509	10588	10869	12071	11854	98075

DISSOLUTIONS

There were 10,808 dissolutions in Iowa in 1988, 281 more than in 1987. Between 1980 and 1988 there were four times when dissolutions increased compared with the previous year and four times when dissolutions decreased (Table 2). Most of these year-to-year changes were modest, but between 1981 and 1982 there was a decline in dissolutions of 1,202. This large decline followed the year (1981) in which the number of dissolutions was the highest ever recorded in Iowa.

Dissolutions were highest in 1988 in Polk county (1,780), the only county with more than 1000. Counties with at least 400 dissolutions that year were Black Hawk (514), Linn (608), Pottawattamie (468), Scott (735), and Woodbury (451). Seventeen counties had between 100 and 399 dissolutions, 46 recorded 40 to 99, and 30 counties had less than 40. The lowest number of dissolutions occurred in Adams (15), Osceola (13), Ringgold (16), and Wayne (17).

Between 1987 and 1988, dissolutions remained the same in eight counties, decreased in 38, and increased in 53. In 16 counties, increases were greater than 20. Only three (Linn, +60; Polk, +75; Woodbury, +42) had gains of more than 40 between the two years. Among the counties with fewer dissolutions in 1988 than in 1987, 29 declined by less than 20. The largest drops came in Johnson (-70) and Scott (-42).

Across the state, there were 1,046 fewer dissolutions in 1988 than in 1980. About half (53) the counties followed that trend. Forty-two counties had more dissolutions when comparing 1980 and 1988, while four counties had the same number both years. Four counties (Black Hawk, -157; Johnson, -115; Polk, -139; Scott, -249) had at least 100 fewer dissolutions in 1988 than in 1980. Among counties that had more dissolutions in 1988 than in 1980, most showed relatively low gains. Only five counties (Benton, +40; Henry, +29; Jackson, +21; Linn, +29; Washington, +27) had at least 20 more dissolutions in 1988 than in 1980.

Estimated Net Migration in Iowa's Counties:

1980-1988

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Net migration can be estimated for Iowa and its counties by comparing population change with natural change (births minus deaths). Estimates of the population are provided annually by the U.S. Bureau of the Census. Because these population figures are themselves estimates (not actual counts), caution is urged in examining and using the net migration figures derived from them.

IOWA'S NET MIGRATION

Nearly 600 more people moved into Iowa from July 1st of 1987 through June 30th of 1988 than moved away (Table 1). Although that number seems relatively small, it was a great change from previous years this decade. Outmigration was estimated to have reached a peak in 1985-1986 when about 53,500 more left than entered the state. From 1980 through 1988, residents leaving outnumbered those coming to Iowa by about 204,000.

NET MIGRATION BY COUNTY

When counties are examined, nearly all mirror the state's trend from 1980 to 1988. Only Polk and Clarke counties had more people enter than leave, and Jefferson had the same number move in as move out during these years. Polks' net immigration totaled 550 residents, while it was 30 for Clarke. Net outmigration varied from less than 100 in Madison to more than 21,000 in Black Hawk during the 1980s. Seven other counties (Clinton, Dubuque, Linn, Scott, Story, Webster, Woodbury) had at least 5,000 more move away than into the area. A total of 29 counties had from 100 to 999 more out- than immigrants; 43 had from 1,000 to 1,999 more leave than enter, and 15 lost from 2,000 to 4,999 more than they gained.

Although the figures for the entire period indicate far more out- than immigration, the most recent year for which data are available (July 1, 1987-June 30, 1988) suggests that some counties have reversed earlier trends. During that year, 36 counties had more people enter than leave, led by Polk's net immigration of 3,450. Linn (+1,160), Woodbury (+520), and Dallas (+490) counties also had relatively large numbers of net immigrants. Thirteen other counties had from 100 to 399 more enter than exit.

A total of 60 counties had more people move away than move in during the July 1, 1987-June 30, 1988 period. The greatest net outmigration occurred in Scott (-1,020) and Black Hawk (-930) counties. Wapello (-470) and Webster (-300) were the only other counties where at least 300 more moved out of than into the area, although 25 counties had from 100 to 299 more leave than enter.

Table 1. Estimated Net Migration in Iowa Counties, 1980-1988.

County	7/1/87- 6/30/88	7/1/86- 6/30/87	7/1/85- 6/30/86	7/1/84- 6/30/85	7/1/83- 6/30/84	7/1/82- 6/30/83	7/1/81- 6/30/82	4/1/80- 6/30/81	4/1/80- 6/30/88
Adair	-80	-80	-300	-310	0	-20	-230	-60	-1070
Adams	-100	100	-210	-110	0	-10	-100	-45	-460
Allamakee	-20	-120	-330	-140	-50	240	-80	-100	-590
Appanoose	30	10	-290	-190	-220	-220	-220	-150	-1260
Audubon	-80	-200	-300	-230	60	-110	-110	-121	-1100
Benton	60	-170	-390	-200	-80	-370	-420	-170	-1740
Black Hawk	-930	-2820	-5090	-4880	-2140	-1980	-1840	-1700	-21380
Boone	-30	-130	-340	-260	-160	-50	-280	-10	-1260
Bremer	-100	-430	-570	-500	-320	-160	-180	-160	-2400
Buchanan	80	-320	-840	-580	-470	-210	-260	-30	-2630
Buena Vista	-150	-360	-270	-360	40	30	-200	20	-1270
Butler	0	-290	-510	-340	-60	-170	-170	-190	-1740
Calhoun	40	-90	-370	-350	-180	-210	-110	-60	-1330
Carroll	-10	-340	-460	-350	-60	-50	-350	-190	-1810
Cass	-60	-370	-570	-500	70	-30	-170	100	-1530
Cedar	-20	-320	-450	-180	-80	110	-200	50	-1100
Cerro Gordo	-50	-860	-620	290	-10	-250	-340	-270	-2110
Cherokee	-200	-220	-540	-330	-150	-60	-270	-120	-1880
Chickasaw	-110	-420	-340	-350	-180	-120	-120	-60	-1690
Clarke	80	80	-10	-200	-10	-130	160	60	30
Clay	-50	-550	-670	-690	-210	-70	-370	-270	-2870
Clayton	-10	-220	-630	-240	40	10	-220	-150	-1420
Clinton	-40	-770	-1410	-1050	-810	-940	-510	-660	-6190
Crawford	-100	-180	-550	-360	-100	80	-110	10	-1290
Dallas	490	-20	-330	-60	-190	120	-160	-250	-400
Davis	-120	-120	-130	-130	-40	-30	-130	40	-660
Decatur	-100	-190	-180	-200	-90	-280	-110	-10	-1180
Delaware	-230	-120	-620	-240	50	-80	-170	-180	-1580
Des Moines	130	-160	-690	-580	-320	-710	-860	-200	-3390
Dickinson	200	-120	-220	-120	-20	-40	-150	-120	-600
Dubuque	-130	-530	-1630	-710	-660	-1510	-1370	-880	-7410
Emmet	-10	-210	-620	-310	-130	-360	-270	-130	-2050
Fayette	-210	-490	-900	-740	-180	-300	-200	-340	-3370
Floyd	-100	-220	-700	-120	-270	50	-250	-150	-1770
Franklin	-180	-300	-330	-140	-140	-140	-150	-110	-1490
Fremont	-70	20	-100	-200	10	0	-100	-120	-550
Greene	-170	-190	-390	-200	-220	-30	-230	-70	-1500
Grundy	-90	-300	-510	-130	-360	-140	-240	-160	-1930
Guthrie	70	-250	-160	-80	110	-180	-90	-200	-780
Hamilton	-10	-350	-150	-160	-260	-130	-260	-80	-1400
Hancock	80	-250	-360	-160	140	-170	-90	-240	-1050
Hardin	-290	-570	-600	-430	40	-190	-70	-180	-2290
Harrison	110	-140	-140	-130	-120	-110	-20	-100	-640
Henry	-140	60	250	-50	-70	-180	-290	-210	-620
Howard	-90	-100	-200	-200	80	-130	-30	-80	-750
Humboldt	-20	-320	-330	-240	-60	-60	-270	-20	-1330
Ida	0	-200	-120	-40	-40	80	-140	-70	-530
Iowa	-100	-230	-250	-40	-50	-40	-260	-120	-1080
Jackson	-150	-160	-490	-310	-130	-40	-240	-180	-1700
Jasper	210	20	-110	-240	-100	-440	-290	-350	-1290

Table 1. Estimated Net Migration in Iowa Counties, 1980-1988 (continued).

County	7/1/87- 6/30/88	7/1/86- 6/30/87	7/1/85- 6/30/86	7/1/84- 6/30/85	7/1/83- 6/30/84	7/1/82- 6/30/83	7/1/81- 6/30/82	4/1/80- 6/30/81	4/1/80- 6/30/88
Jefferson	170	-30	-50	-60	150	-150	260	-280	0
Johnson	230	-430	-1140	-650	170	50	-430	40	-2160
Jones	60	-230	-360	-300	10	-100	-190	-150	-1260
Keokuk	10	-190	-290	-100	-110	-10	-110	-170	-970
Kossuth	-150	-460	-860	-480	-110	-120	-420	-390	-2980
Lee	-280	-590	-610	-770	-360	-380	-410	-590	-3980
Linn	1160	-170	-1820	-1160	-460	-1810	-2380	-2010	-8650
Louisa	70	-40	-130	-150	-60	-60	-170	60	-490
Lucas	-90	-100	-280	-190	0	-210	80	-60	-840
Lyon	-70	-240	-240	-270	-180	0	-220	-140	-1360
Madison	100	110	0	-10	0	-110	-120	-60	-90
Mahaska	140	-160	-160	-260	120	-200	-290	-340	-1140
Marion	320	0	-110	-320	-120	-260	40	-80	-550
Marshall	-130	-860	-820	-740	-580	-290	-120	40	-3500
Mills	170	-30	-330	-50	40	-50	-160	-20	-420
Mitchell	20	-100	-220	-90	-200	0	-120	-190	-900
Monona	-60	-70	-250	-350	-100	100	-210	-130	-1170
Monroe	10	-90	-290	0	-200	10	-100	-120	-780
Montgomery	20	-270	-470	-290	90	-30	-220	-70	-1230
Muscatine	-30	-540	-470	-550	-300	-470	220	300	-1840
O'Brien	30	-310	-530	-430	-250	40	-190	-90	-1750
Osceola	-100	-90	-300	-210	-20	60	-140	-110	-920
Page	-60	-350	-460	-370	30	-180	-190	-190	-1780
Palo Alto	-80	-290	-610	-230	-350	-50	-150	-100	-1860
Plymouth	0	-140	-130	-530	-260	-260	-600	0	-1920
Pocahontas	-80	-290	-410	-10	-120	100	-200	-70	-1080
Polk	3450	1620	-1810	-220	-100	50	-2050	-390	550
Pottawattamie	-50	-310	-1260	-760	80	-260	-480	-420	-3440
Poweshiek	200	-10	-220	80	-340	-70	-270	-80	-710
Ringgold	20	-70	-280	-200	-10	-120	-10	-10	-680
Sac	-80	-180	-290	-210	-210	-200	-230	-220	-1600
Scott	-1020	-2390	-3540	-2500	-1720	-2630	-1440	-1170	-16400
Shelby	-120	-220	-410	-460	130	-70	-60	-120	-1330
Sioux	-20	-540	-750	-460	-220	-40	-440	-590	-3040
Story	70	-1520	-1270	-750	-280	160	-1250	-660	-5500
Tama	-130	-330	-420	-330	40	-80	340	-604	-1520
Taylor	-70	-60	-270	-190	-90	-90	0	40	-740
Union	-70	-90	-190	-290	-200	-20	-140	-30	-1030
Van Buren	10	10	-180	-110	-110	0	-120	50	-450
Wapello	-470	-780	-990	-520	-110	-160	-600	-250	-3880
Warren	80	170	60	-140	-40	40	-380	-70	-300
Washington	130	-170	-150	-160	30	-180	-200	20	-670
Wayne	-180	-60	-150	-170	-70	-80	-80	-80	-860
Webster	-300	-520	-1240	-960	-570	-710	-720	-660	-5680
Winnebago	-10	-330	-240	-20	70	60	-30	-370	-860
Winneshiek	20	-180	-360	-190	-110	90	-120	60	-790
Woodbury	520	-1160	-2210	-1280	-760	-1080	-1360	-610	-7930
Worth	110	-300	-200	-110	90	-20	-130	-10	-560
Wright	-90	-290	-590	-310	-20	-20	-110	-250	-1690
State of Iowa	560	-28190	-53550	-37380	-16563	-19801	-28420	-20830	-204170

Note: Net migration is calculated from the population estimates provided by the U.S. Bureau of the Census and counts of births and deaths from the Iowa Department of Public Health. There are, however, different reporting periods for these data. Population is estimated for July 1st of each year. Thus, population change is computed from July 1, 1987, through June 30, 1988, for example. But births and deaths are reported for the calendar year. To surmount the different reporting periods, births and deaths from 1987 have been divided by two and added to a similar division for the 1988 data, for example, so that they will more closely correspond with the July 1, 1987-June 30, 1988 period of the population estimates. For the data from 1980 through 1988, a slight adjustment was necessary because the 1980 population is from the decennial census that was taken on April 1st. Thus, three-quarters of the births and deaths were counted for that year when natural change and net migration were calculated. These net migration figures are estimates only. Much care must be taken in reviewing them, especially when one year is compared with the next. It is suggested that comparisons be done over several years. For example, the 1980-1988 data would be the most appropriate indicator of the long-term trend this decade. Perhaps grouping the data into two-, three-, or four-year categories could be used to examine trends within the decade, but even then caution is urged.

Estimates of the 65 and Older Population in Iowa's Counties: 1980-1987

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In 1987, Iowa's population included an estimated 420,300 residents who were 65 years of age or older. This was an increase of more than 32,700 from the 1980 census count of 387,584, according to the U.S. Bureau of the Census. This 8.4% increase occurred while the state's estimated total population declined by 3.3% (2,918,000 in 1980 and 2,823,000 in 1987). Because of these contrary trends, the percentage of all Iowans who were 65 or older jumped from 13.3% in 1980 to 14.9% in 1987.

Black Hawk, Dubuque, Linn, Polk, and Scott counties accounted for nearly two-fifths (38.7%) of the increase among Iowans 65 or older (Table 1). Each of these counties had at least 1,000 more residents 65 or older in 1987 than in 1980, with Polk's gain of more than 4,200 the largest. These five counties plus five others (Clinton, Johnson, Pottawattamie, Story, Woodbury) with gains of at least 750 account for more than half (51.4%) of Iowa's total increase among the population 65 or older.

A total of 22 counties had increases of at least 10% among their 65 or older populations from 1980 to 1987. Gains of at least 15% occurred in Black Hawk, Dickinson, Linn, and Scott counties. Thirty-nine counties gained from 5.0% to 9.9% while residents 65 and older increased by less than 5% in 31 others.

Ninety-two counties had more persons 65 or older in 1987 than in 1980. For 26 counties, however, the increases were less than 100. Seven counties (Adams, Jefferson, Keokuk, Osceola, Page, Van Buren, Wayne) were estimated to have fewer residents 65 and older in 1987 than in 1980. No decline was as great as 100, however, and only one (-7.2%, Adams) was greater than 5%.

Iowa's population is somewhat older than that of the United States. In 1987, for example, residents 65 or older constituted 12.3% of the nation's population, while the figure for Iowa was 14.9%. Nearly all (93) of Iowa's counties were above the national percentage (Table 1, right column). The six counties below the U.S. percentage 65 or older were parts of major urban areas (Johnson, Linn, Polk, Scott, Story, Warren). The two counties containing the state's largest universities (Johnson, 7.7%; Story, 9.7%) had the lowest percentages of older residents.

Eighty-one counties had percentages 65 or older above the figure for the state (14.9%). In 20 counties, 15.0% to 16.9% of the residents were 65 or older; another 37 had percentages between 17.0% and 19.9%, and 24 counties had at least 20% of their residents 65 or older. At the beginning of the decade, only five counties had 20% or more of their population 65 or older. The two counties with the greatest percentages 65 or older in 1987 (Ringgold, 24.1%; Wayne, 24.7%) had nearly one-fourth of their residents in that age group.

Table 1. Estimates of the Population 65 and Older in Iowa Counties, 1980-1987.

County	1987	1986	1985	1984	1983	1982	1981	1980	Change, 1980-1987		65+ as % of Total Pop.: 1987
									Number	%	
Adair	1900	1900	1900	1900	1900	1900	1900	1874	26	1.4	22.1
Adams	1000	1100	1100	1200	1100	1100	1100	1077	-77	-7.2	18.5
Allamakee	2700	2700	2700	2700	2600	2600	2600	2569	131	5.1	18.1
Appanoose	3000	3000	3000	3000	2900	2900	2900	2891	109	3.8	21.0
Audubon	1700	1700	1700	1700	1600	1600	1600	1594	106	6.6	22.1
Benton	3700	3600	3600	3600	3600	3600	3500	3455	245	7.1	16.4
Black Hawk	16400	16100	15700	15400	15100	14700	14400	14071	2329	16.6	13.1
Boone	4400	4400	4400	4400	4400	4300	4300	4306	94	2.2	17.3
Bremer	3700	3700	3600	3600	3500	3400	3300	3261	439	13.5	15.8
Buchanan	3200	3100	3100	3000	3000	2900	2900	2790	410	14.7	14.8
Buena Vista	3600	3600	3500	3500	3500	3500	3400	3383	217	6.4	17.8
Butler	3200	3100	3100	3100	3000	3000	3000	2909	291	10.0	19.6
Calhoun	2800	2700	2700	2700	2700	2700	2700	2659	141	5.3	23.1
Carroll	3700	3700	3600	3600	3500	3500	3500	3392	308	9.1	16.6
Cass	3300	3300	3300	3300	3300	3300	3300	3185	115	3.6	21.2
Cedar	2900	2900	2900	2900	2900	2800	2700	2715	185	6.8	16.0
Cerro Gordo	7700	7500	7400	7400	7300	7200	7100	6963	737	10.6	16.0
Cherokee	2700	2600	2600	2600	2600	2600	2600	2538	162	6.4	18.1
Chickasaw	2400	2400	2300	2300	2300	2300	2300	2231	169	7.6	16.7
Clarke	1500	1500	1500	1500	1500	1500	1500	1476	24	1.6	17.2
Clay	2900	2800	2800	2800	2800	2800	2700	2673	227	8.5	16.5
Clayton	3600	3500	3500	3600	3600	3500	3500	3445	155	4.5	17.8
Clinton	8200	8100	7900	7900	7800	7600	7500	7381	819	11.1	15.5
Crawford	2900	2800	2800	2800	2800	2700	2700	2660	240	9.0	15.8
Dallas	4200	4200	4200	4100	4100	4000	3900	3834	366	9.6	14.1
Davis	1600	1600	1600	1600	1600	1600	1600	1560	40	2.6	18.2
Decatur	1800	1800	1800	1800	1800	1800	1800	1795	5	0.3	20.7
Delaware	2500	2500	2500	2500	2500	2400	2400	2370	130	5.5	13.4
Des Moines	6900	6800	6800	6700	6600	6600	6600	6508	392	6.0	15.6
Dickinson	3000	2900	2900	2800	2800	2700	2700	2538	462	18.2	19.9
Dubuque	11700	11500	11300	11200	11000	10800	10700	10402	1298	12.5	12.9
Emmet	2100	2100	2000	2100	2100	2000	2000	1967	133	6.8	18.1
Fayette	4200	4200	4200	4200	4300	4200	4200	4154	46	1.1	18.4
Floyd	3300	3300	3300	3300	3200	3200	3100	3022	278	9.2	18.1
Franklin	2400	2400	2300	2300	2300	2300	2300	2246	154	6.9	20.0
Fremont	1800	1800	1800	1800	1800	1800	1700	1737	63	3.6	20.2
Greene	2400	2400	2400	2400	2400	2400	2300	2314	86	3.7	22.0
Grundy	2500	2500	2400	2400	2400	2300	2300	2242	258	11.5	19.5
Guthrie	2400	2400	2400	2400	2400	2400	2400	2374	26	1.1	21.8
Hamilton	3000	2900	2900	2900	2900	2800	2800	2744	256	9.3	17.8
Hancock	2300	2200	2200	2200	2200	2200	2200	2131	169	7.9	17.4
Hardin	4000	4000	3900	3900	3900	3800	3800	3754	246	6.6	19.9
Harrison	2900	2900	2900	2900	2900	2800	2800	2816	84	3.0	18.4
Henry	3200	3200	3100	3100	3100	3100	3000	2888	312	10.8	16.9
Howard	2200	2200	2200	2200	2200	2200	2100	2132	68	3.2	20.8
Humboldt	2200	2200	2200	2200	2100	2100	2100	2018	182	9.0	19.5
Ida	1700	1700	1700	1700	1600	1600	1600	1621	79	4.9	19.8
Iowa	2800	2800	2700	2700	2600	2600	2600	2528	272	10.8	18.9
Jackson	3400	3400	3300	3300	3200	3200	3200	3108	292	9.4	15.6
Jasper	5600	5500	5500	5400	5300	5200	5100	4967	633	12.7	15.6

Table 1. Estimates of the Population 65 and Older in Iowa Counties, 1980-1987 (continued).

County	1987	1986	1985	1984	1983	1982	1981	1980	Change, 1980-1987		65+ as % of Total Pop.: 1987
									Number	%	
Jefferson	2400	2400	2400	2400	2400	2400	2400	2451	-51	-2.1	14.6
Johnson	6600	6500	6500	6400	6300	6100	6000	5811	789	13.6	7.7
Jones	3100	3000	3000	3000	2900	2900	2800	2744	356	13.0	15.7
Keokuk	2500	2500	2500	2600	2600	2600	2600	2590	-90	-3.5	20.8
Kossuth	3500	3500	3400	3500	3400	3400	3400	3296	204	6.2	17.7
Lee	6400	6300	6300	6200	6200	6100	6000	5886	514	8.7	15.8
Linn	19800	19400	19000	18600	18300	18000	17600	17123	2677	15.6	11.7
Louisa	1800	1800	1800	1700	1700	1700	1700	1667	133	8.0	15.1
Lucas	1900	1900	1900	1900	1900	1900	1900	1898	2	0.1	19.8
Lyon	2100	2100	2200	2100	2000	2000	2000	1971	129	6.5	17.2
Madison	2300	2200	2200	2200	2200	2200	2200	2157	143	6.6	18.4
Mahaska	3900	3800	3800	3800	3800	3800	3800	3677	223	6.1	17.6
Marion	4700	4600	4600	4500	4400	4400	4400	4270	430	10.1	15.8
Marshall	6500	6300	6300	6200	6200	6000	5900	5770	730	12.6	16.5
Mills	1800	1800	1800	1800	1800	1800	1700	1709	91	5.3	13.6
Mitchell	2400	2400	2300	2300	2300	2300	2300	2305	95	4.1	20.9
Monona	2400	2400	2400	2400	2400	2400	2400	2354	46	2.0	22.9
Monroe	1700	1700	1700	1700	1700	1700	1700	1694	6	0.4	20.2
Montgomery	2700	2700	2700	2700	2700	2700	2600	2640	60	2.3	22.1
Muscatine	5200	5200	5100	5100	5100	5000	5000	4885	315	6.4	12.7
O'Brien	3100	3100	3100	3100	3100	3100	3000	2985	115	3.8	19.9
Osceola	1400	1400	1400	1500	1400	1500	1500	1441	-41	-2.8	18.2
Page	3600	3600	3600	3600	3600	3600	3700	3642	-42	-1.2	20.9
Palo Alto	2200	2200	2200	2200	2200	2200	2200	2161	39	1.8	19.6
Plymouth	3800	3800	3800	3800	3700	3700	3700	3557	243	6.8	15.8
Pocahontas	2100	2100	2100	2100	2100	2100	2100	2093	7	0.3	20.2
Polk	35700	35100	34600	34200	33700	32900	32300	31495	4205	13.4	11.2
Pottawattamie	10900	10800	10700	10600	10500	10300	10100	10011	889	8.9	12.4
Poweshiek	3100	3100	3100	3000	3000	3000	2900	2868	232	8.1	16.6
Ringgold	1300	1300	1300	1300	1300	1300	1300	1297	3	0.2	24.1
Sac	2700	2700	2700	2700	2700	2700	2700	2664	36	1.4	21.3
Scott	16400	16100	15700	15500	15200	14800	14600	14251	2149	15.1	10.6
Shelby	2600	2600	2500	2500	2500	2500	2500	2421	179	7.4	18.3
Sioux	4400	4400	4300	4200	4200	4100	4000	3906	494	12.6	14.7
Story	6900	6800	6700	6600	6500	6300	6200	6036	864	14.3	9.7
Tama	3500	3500	3500	3500	3400	3400	3400	3326	174	5.2	18.9
Taylor	1800	1800	1800	1800	1800	1800	1800	1776	24	1.4	23.7
Union	2500	2500	2500	2500	2500	2500	2500	2477	23	0.9	19.2
Van Buren	1600	1600	1600	1600	1600	1600	1600	1616	-16	-1.0	19.5
Wapello	6900	6900	6900	6900	6900	6900	6900	6819	81	1.2	18.6
Warren	3700	3600	3500	3500	3400	3400	3300	3224	476	14.8	10.2
Washington	3500	3500	3400	3400	3400	3400	3300	3275	225	6.9	17.6
Wayne	1800	1800	1900	1900	1900	1900	1800	1880	-80	-4.3	24.7
Webster	7300	7200	7100	7000	7000	6900	6900	6748	552	8.2	17.4
Winnebago	2400	2400	2400	2400	2400	2400	2300	2297	103	4.5	19.4
Winneshiek	3200	3200	3200	3200	3200	3200	3200	3093	107	3.5	14.7
Woodbury	14200	14100	13900	13800	13800	13700	13500	13414	786	5.9	14.6
Worth	1700	1800	1800	1800	1700	1700	1700	1693	7	0.4	20.0
Wright	3100	3100	3100	3100	3000	3000	3000	2952	148	5.0	21.0
State of Iowa	420300	415800	411400	409000	404600	399400	394700	387584	32716	8.4	14.9

RURAL/URBAN COMPARISONS

The 17 counties considered to be most rural in Iowa in 1980 (see note below for a list of these counties) had relatively little change among the population 65 or older. In 1980, 34,836 residents of these counties were 65 or older; the figure was estimated to have been 35,800 in 1987. The gain was less than 1,000, or 2.8%. In contrast, Iowa's nine most urban counties in 1980 (see note) had much greater numerical and percentage gains among those 65 or older. The 1987 figure was estimated to be 135,400, which was nearly 15,600 (or 13.2%) greater than that reported in 1980 in the most urban counties. Only two of the most rural counties had gains of at least 10%, while seven of the nine most urban counties had increases above that level.

The most urban counties were estimated to have increased in residents 65 or older at a rate greater than the most rural counties. Yet the most rural counties continued to have a significantly greater proportion of their residents in the 65 or older age group than did the most urban counties. In the 17 most rural counties, for example, those 65 or older accounted for 20.2% of the population in 1987, up from 18.3% in 1980. In the nine most urban counties, those 65 or older constituted 10.3% of the total population in 1980 and 11.6% in 1987.

Note: The most rural counties did not have incorporated places of at least 2,500 residents in 1980; these were Adair, Adams, Butler, Calhoun, Clayton, Fremont, Guthrie, Ida, Iowa, Keokuk, Louisa, Pocahontas, Ringgold, Taylor, Van Buren, Wayne, and Worth. The most urban counties in 1980, which either had a place of at least 50,000 residents or were part of an officially designated metropolitan statistical area, included Black Hawk, Dubuque, Johnson, Linn, Polk, Pottawattamie, Scott, Warren, and Woodbury counties.

The U.S. Bureau of the Census stresses that the numbers for 1981 through 1987 are estimates. They are based on records available to governmental agencies. Thus, the estimates are subject to some error, although the bureau makes every effort to check its figures against information from a variety of sources.

Estimates of Public Secondary School Dropouts in Iowa's Counties: 1980-1988

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Information about public school dropouts from grades seven through twelve and nongraded secondary special education classes is collected and tabulated annually for Iowa's counties by the Iowa Department of Education. A student is counted as a dropout if he or she withdraws before graduation or completion of a secondary school program for reasons other than death or transfer to any other approved secondary school program. Dropouts are counted by fiscal year, not by calendar or school year. Thus, what we have labeled as 1988 dropouts are those who left school between July 1, 1987, and June 30, 1988. Information on dropouts is gathered at the school district level, not by residence of the students. Because school district boundaries do not necessarily correspond with county lines and because some districts have cooperative sharing agreements with other districts, students may have been counted in the enrollment of a county different from that in which they lived. For most students in the state, however, the county in which they live and the county in which they are counted as being enrolled are the same.

Public school dropouts in Iowa numbered 5,498 for 1988 (Table 1). The lowest number of Iowa dropouts during the nine years from 1980 through 1988 was 5,086 (1983). The decline from 1980 to 1983 was greater than 3,000. Since then, the number has ranged within 500 of the total recorded in 1983.

Polk county had the highest number of dropouts during each of the nine years; it was the only county with as many as 750 dropouts each year. Other counties with at least 100 dropouts each year included Black Hawk, Dubuque, Linn, Pottawattamie, Scott, and Woodbury. Some counties had very few or no dropouts in selected years. Adams, Audubon, Ida, Osceola, Pocahontas, Ringgold, and Taylor had 10 or fewer dropouts in at least eight of the nine years.

The state as a whole and 98 of the counties had years between 1980 and 1988 when the number of dropouts increased and other years when the number decreased. Clayton county, however, declined each year from 1980 to 1987 and stayed the same from 1987 to 1988. A total of 89 counties had fewer dropouts in 1988 than in 1980. Of these 89 counties, 47 had decreases of 20 or fewer dropouts. Nine counties (Black Hawk, Cerro Gordo, Clinton, Dubuque, Des Moines, Linn, Scott, Pottawattamie, Woodbury) had at least 100 fewer dropouts in 1988 than in 1980, with Linn's decline of 268 the largest. Nine counties (Jasper, Johnson, Madison, Osceola, Page, Polk, Wapello, Washington, Webster) had more dropouts in 1988 than in 1980, with the range of increase from two (Madison, Washington) to 76 (Johnson). Franklin county had the same number of dropouts in both years.

PERCENTAGE OF DROPOUTS

At the same time the number of dropouts was changing in Iowa, so was the number of school enrollees. The number of students in secondary public schools declined every year in Iowa between 1980 and 1988 and 97 counties had fewer secondary enrollees in 1988 than in 1980. Only Butler (+2) and Mills (+64) gained students when 1980 and 1988 were compared.

Table 1. Public Secondary School Dropouts and Enrollees in Iowa's Counties, 1980-1988.¹

County	1988 ²		1987		1986		1985		1984		1983		1982		1981		1980	
	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll
Adair	0	519	4	529	6	561	2	574	3	589	6	616	12	629	11	678	1	736
Adams	3	367	3	365	4	350	1	364	5	368	0	401	4	421	8	452	7	507
Allamakee	12	1344	17	1362	15	1459	11	1499	15	1569	20	1655	36	1738	34	1849	38	1910
Appanoose	31	1219	59	1221	24	1154	33	1193	34	1234	19	1242	52	1266	58	1326	64	1425
Audubon	5	542	2	575	6	600	4	648	10	687	5	733	13	764	10	811	9	861
Benton	33	1864	21	1960	28	2013	39	2159	39	2257	37	2307	67	2442	63	2580	91	2615
Black Hawk	422	8316	388	8446	374	8647	454	9268	355	9476	345	9777	402	10159	491	10527	549	11264
Boone	30	1825	43	1900	30	1915	38	2024	41	1993	60	2027	39	2095	44	2181	74	2252
Bremer	27	2716	29	2879	29	3011	31	3144	20	3208	26	3236	40	3317	45	3345	72	3447
Buchanan	28	1457	35	1488	22	1532	37	1605	40	1656	41	1710	40	1814	52	1906	52	1950
Buena Vista	24	1339	27	1375	18	1400	17	1476	13	1420	9	1430	18	1508	25	1618	35	1733
Butler	8	1683	9	1334	8	1354	10	1431	18	1499	6	1527	14	1570	21	1624	19	1681
Calhoun	8	1111	7	1130	5	1191	9	1289	8	1310	10	1331	19	1432	11	1474	33	1591
Carroll	15	1165	15	1177	14	1167	20	1260	12	1295	15	1370	15	1347	22	1408	29	1412
Cass	24	1444	21	1459	18	1475	18	1531	21	1602	16	1632	29	1734	31	1797	38	1871
Cedar	18	1576	14	1618	20	1659	27	1781	23	1836	22	1911	24	1978	22	2055	29	2164
Cerro Gordo	60	3231	223	3269	74	3520	101	3623	77	3471	127	3402	119	3589	110	3709	165	4046
Cherokee	19	1276	8	1267	8	1332	12	1362	15	1419	16	1449	44	1513	36	1574	45	1638
Chickasaw	13	1187	16	1244	17	1299	15	1369	10	1431	14	1487	27	1567	22	1677	31	1714
Clarke	7	743	12	767	4	804	9	771	11	816	8	798	12	799	8	809	27	798
Clay	19	1421	37	1429	19	1535	21	1574	32	1640	28	1676	42	1686	52	1760	20	1851
Clayton	16	1726	16	1744	19	1744	23	1828	27	1900	31	1938	34	2033	42	2140	60	2262
Clinton	77	4345	103	4576	89	4815	92	5037	94	5192	130	5375	198	5639	180	5809	255	5941
Crawford	16	1691	10	1715	10	1749	13	1781	18	1792	18	1833	19	1910	31	1992	43	2064
Dallas	67	2759	62	2874	75	2946	39	3018	46	2999	60	3007	69	3123	85	3075	90	3146
Davis	11	694	11	694	12	702	14	728	13	744	26	744	19	767	22	793	47	836
Decatur	13	725	11	716	9	720	13	758	18	817	13	817	28	817	25	843	32	858
Delaware	23	1543	35	1625	26	1740	28	1809	18	1855	29	1916	29	2034	26	2099	39	2240
Des Moines	55	3581	116	3917	178	3790	179	3994	189	3791	124	3962	108	4259	151	4363	156	4589
Dickinson	25	1184	15	1274	15	1306	14	1350	15	1333	14	1342	24	1387	27	1433	36	1493
Dubuque	150	6554	146	6781	145	6845	205	7119	170	7191	207	7409	238	7801	239	8071	325	8135
Emmet	24	1124	12	1145	18	1129	21	1189	10	1221	18	1223	24	1296	21	1307	31	1328
Fayette	32	2189	28	2257	15	2384	33	2497	46	2653	36	2764	46	2853	56	3011	80	3208
Floyd	33	1683	28	1611	20	1745	17	1867	39	1888	52	1962	38	2128	37	2192	47	2261
Franklin	8	770	7	810	16	819	12	828	9	890	9	899	14	983	13	988	8	1046
Fremont	16	780	23	768	11	805	12	820	11	792	6	779	10	779	19	809	29	849

Table 1. Public Secondary School Dropouts and Enrollees in Iowa's Counties, 1980-1988 (continued).¹

County	1988 ²		1987		1986		1985		1984		1983		1982		1981		1980	
	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll
Greene	9	828	6	866	10	931	8	1009	13	1017	20	1067	22	1128	18	1179	19	1278
Grundy	7	1117	3	1160	8	1210	13	1296	7	1324	17	1390	20	1424	10	1503	17	1558
Guthrie	20	1122	14	1148	8	1242	8	1288	21	1338	14	1316	19	1327	29	1388	33	1500
Hamilton	15	1463	16	1498	25	1534	27	1580	10	1619	8	1680	16	1725	27	1781	40	1948
Hancock	5	1075	5	1072	5	1064	7	1098	5	1123	2	1139	11	1203	10	1268	20	1351
Hardin	14	1871	21	1905	15	1986	19	2105	23	2191	22	2231	32	2262	41	2421	45	2590
Harrison	26	1453	26	1525	32	1566	33	1625	23	1642	19	1683	31	1700	32	1729	38	1833
Henry	18	1670	24	1693	27	1735	32	1712	26	1732	22	1769	47	1841	30	1803	36	1798
Howard	4	922	9	979	6	1020	2	1072	17	1164	7	1239	12	1291	8	1365	17	1467
Humboldt	11	859	9	891	9	959	18	1008	10	1069	16	1133	20	1220	20	1281	18	1312
Ida	6	654	5	657	3	658	0	660	2	659	5	687	7	709	9	748	12	802
Iowa	8	1193	6	1250	10	1288	12	1352	12	1438	9	1499	20	1594	24	1721	29	1824
Jackson	24	1749	27	1848	23	1930	32	1998	25	2192	35	2187	58	2302	51	2330	52	2476
Jasper	120	3099	99	3124	85	3130	78	3228	64	3269	85	3298	102	3422	95	3500	110	3647
Jefferson	22	949	18	1001	22	1052	19	1100	11	1134	12	1126	30	1194	33	1232	37	1284
Johnson	130	4740	94	4869	123	4739	87	4792	87	4833	42	4944	46	4889	61	4974	54	5008
Jones	28	1606	28	1730	14	1788	14	1856	17	1913	18	1983	40	2052	47	2149	37	2189
Keokuk	10	1095	12	1095	14	1128	10	1185	6	1202	11	1239	17	1272	27	1384	37	1512
Kossuth	10	1109	16	1178	21	1211	13	1303	10	1366	10	1407	14	1436	16	1579	30	1687
Lee	77	2946	103	3044	105	3117	114	3182	102	3200	86	3296	113	3304	137	3759	166	3804
Linn	331	14150	414	14443	345	14943	308	15559	299	15912	465	16278	434	16160	428	16953	599	17028
Louisa	37	1298	27	1288	25	1308	32	1350	36	1381	41	1413	47	1463	38	1541	50	1515
Lucas	25	775	19	761	24	798	32	817	26	836	31	872	27	838	33	898	30	958
Lyon	8	998	4	1026	1	1054	4	1071	4	1081	4	1103	13	1140	8	1176	28	1284
Madison	30	1326	25	1317	19	1325	25	1335	15	1346	21	1343	21	1408	16	1438	28	1521
Mahaska	39	1420	50	1482	28	1497	45	1542	46	1522	52	1574	50	1520	50	1521	73	1602
Marion	39	2431	44	2401	35	2467	48	2574	44	2620	31	2606	53	2678	40	2774	86	2815
Marshall	75	3181	66	3375	59	3474	55	3765	67	3859	63	3831	95	3916	116	4186	118	4254
Mills	17	1206	14	1193	26	1287	9	1237	13	1234	12	1184	26	1185	29	1165	31	1142
Mitchell	8	917	1	917	8	915	10	927	13	961	12	975	15	1062	22	1159	20	1271
Monona	13	872	13	874	13	921	21	930	15	939	22	980	30	1038	35	1100	34	1148
Monroe	15	585	29	611	19	654	15	693	23	723	23	734	28	764	20	802	25	819
Montgomery	20	983	22	986	23	1003	13	1023	38	1070	26	1039	35	1055	35	1071	34	1163
Muscatine	97	3414	83	3413	110	3342	127	3508	156	3634	100	3671	126	3766	167	3857	161	3858
O'Brien	10	1346	14	1344	8	1357	7	1377	21	1424	12	1454	22	1509	19	1635	28	1695
Osceola	8	457	3	469	2	455	1	498	2	490	2	506	2	508	4	541	4	618

Table 1. Public Secondary School Dropouts and Enrollees in Iowa's Counties, 1980-1988 (continued).¹

County	1988 ²		1987		1986		1985		1984		1983		1982		1981		1980	
	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll
Page	37	1485	30	1463	21	1475	26	1509	29	1478	29	1447	33	1541	43	1544	29	1576
Palo Alto	7	935	4	949	8	974	7	1035	15	1109	13	1157	15	1243	25	1334	33	1414
Plymouth	9	1800	16	1798	22	1847	17	1895	19	1908	13	1939	22	2038	27	2118	34	2247
Pocahontas	7	839	2	838	3	869	3	930	5	967	6	1028	8	1054	8	1151	19	1224
Polk	1064	23888	1082	24939	1124	25705	1125	26111	924	26365	804	25965	974	26593	946	27257	999	27620
Pottawattamie	376	6863	348	6877	376	7194	302	7172	287	7501	190	7474	253	7735	323	8515	497	9026
Poweshiek	34	1498	20	1502	15	1561	25	1580	16	1593	23	1645	20	1682	29	1781	41	1778
Ringgold	2	459	3	471	3	490	6	484	3	521	8	519	5	523	5	567	23	589
Sac	6	1024	12	1052	11	1086	10	1124	6	1196	7	1237	14	1286	16	1327	39	1389
Scott	526	12996	454	13429	435	13900	480	14538	433	15073	436	14896	524	15227	599	15413	730	16158
Shelby	19	1200	19	1245	0	1267	19	1380	14	1452	18	1498	25	1557	16	1661	26	1761
Sioux	14	1673	16	1669	12	1690	13	1774	12	1867	14	1835	17	1934	13	2001	19	2119
Story	52	4249	45	4263	53	4494	59	4676	60	4709	68	4695	71	4933	65	5061	77	5185
Tama	11	1624	36	1649	37	1658	35	1740	25	1842	49	1917	36	1982	31	2010	40	2123
Taylor	2	651	1	655	4	689	7	749	2	732	4	735	4	743	15	798	10	840
Union	15	1142	12	1183	8	1231	15	1247	15	1207	19	1191	33	1229	40	1282	41	1364
Van Buren	6	643	10	657	10	716	13	723	11	744	20	760	17	804	17	843	23	919
Wapello	119	3204	64	3301	76	3359	69	3438	52	3508	84	3351	92	3615	134	3786	110	3916
Warren	59	3309	49	3348	42	3445	49	3519	32	3530	49	3453	69	3430	85	3462	89	3509
Washington	37	1573	23	1566	33	1632	19	1724	21	1774	11	1800	21	1843	39	1919	35	1972
Wayne	10	579	2	588	10	595	11	604	10	629	8	676	7	698	14	709	12	760
Webster	125	2791	106	2869	133	3034	69	3208	52	3233	38	3315	67	3560	85	3801	85	4027
Winnebago	14	1225	10	1239	20	1247	9	1302	8	1303	1	1329	13	1380	9	1468	15	1556
Winneshek	9	1267	10	1337	8	1366	13	1397	21	1426	10	1478	22	1550	11	1687	18	1712
Woodbury	203	8836	207	8710	155	8712	183	8880	185	8747	163	8891	235	9274	257	9223	336	9641
Worth	10	556	5	585	3	616	5	645	7	659	10	667	14	683	9	667	17	714
Wright	17	1231	6	1228	10	1296	18	1366	11	1424	11	1424	22	1522	29	1614	47	1766
State of Iowa	5498	222112	5574	227144	5343	233453	5529	241973	5109	246788	5086	249885	6300	258141	6825	267995	8346	278186

¹This table includes public school dropouts from grades seven through twelve and nongraded secondary special education classes. Dropouts are students who withdraw before graduation or completion of a secondary school program for reasons other than death or transfer to another approved program. Students may have been counted in the enrollment of a county different from that in which they lived because school district boundaries do not necessarily coincide with county lines and because school districts may have cooperative sharing agreements.

²This refers to the state's fiscal year; the label "1988" covers the period from July 1, 1987, through June 30, 1988.

Table 2. Percentage of public secondary school dropouts in Iowa's counties, 1980-1988.

County	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	0.0	0.8	1.1	0.3	0.5	1.0	1.9	1.6	0.1
Adams	0.8	0.8	1.1	0.3	1.4	0.0	1.0	1.8	1.4
Allamakee	0.9	1.2	1.0	0.7	1.0	1.2	2.1	1.8	2.0
Appanoose	2.5	4.8	2.1	2.8	2.8	1.5	4.1	4.4	4.5
Audubon	0.9	0.3	1.0	0.6	1.5	0.7	1.7	1.2	1.0
Benton	1.8	1.1	1.4	1.8	1.7	1.6	2.7	2.4	3.5
Black Hawk	5.1	4.6	4.3	4.9	3.7	3.5	4.0	4.7	4.9
Boone	1.6	2.3	1.6	1.9	2.1	3.0	1.9	2.0	3.3
Bremer	1.0	1.0	1.0	1.0	0.6	0.8	1.2	1.3	2.1
Buchanan	1.9	2.4	1.4	2.3	2.4	2.4	2.2	2.7	2.7
Buena Vista	1.8	2.0	1.3	1.2	0.9	0.6	1.2	1.5	2.0
Butler	0.5	0.7	0.6	0.7	1.2	0.4	0.9	1.3	1.1
Calhoun	0.7	0.6	0.4	0.7	0.6	0.8	1.3	0.7	2.1
Carroll	1.3	1.3	1.2	1.6	0.9	1.1	1.1	1.6	2.1
Cass	1.7	1.4	1.2	1.2	1.3	1.0	1.7	1.7	2.0
Cedar	1.1	0.9	1.2	1.5	1.3	1.2	1.2	1.1	1.3
Cerro Gordo	1.9	6.8	2.1	2.8	2.2	3.7	3.3	3.0	4.1
Cherokee	1.5	0.6	0.6	0.9	1.1	1.1	2.9	2.3	2.7
Chickasaw	1.1	1.3	1.3	1.1	0.7	0.9	1.7	1.3	1.8
Clarke	0.9	1.6	0.5	1.2	1.3	1.0	1.5	1.0	3.4
Clay	1.3	2.6	1.2	1.3	2.0	1.7	2.5	3.0	1.1
Clayton	0.9	0.9	1.1	1.3	1.4	1.6	1.7	2.0	2.7
Clinton	1.8	2.3	1.8	1.8	1.8	2.4	3.5	3.1	4.3
Crawford	0.9	0.6	0.6	0.7	1.0	1.0	1.0	1.6	2.1
Dallas	2.4	2.2	2.5	1.3	1.5	2.0	2.2	2.8	2.9
Davis	1.6	1.6	1.7	1.9	1.7	3.5	2.5	2.8	5.6
Decatur	1.8	1.5	1.3	1.7	2.2	1.6	3.4	3.0	3.7
Delaware	1.5	2.2	1.5	1.5	1.0	1.5	1.4	1.2	1.7
Des Moines	1.5	3.0	4.7	4.5	5.0	3.1	2.5	3.5	3.4
Dickinson	2.1	1.2	1.1	1.0	1.1	1.0	1.7	1.9	2.4
Dubuque	2.3	2.2	2.1	2.9	2.4	2.8	3.1	3.0	4.0
Emmet	2.1	1.0	1.6	1.8	0.8	1.5	1.9	1.6	2.3
Fayette	1.5	1.2	0.6	1.3	1.7	1.3	1.6	1.9	2.5
Floyd	2.0	1.7	1.1	0.9	2.1	2.7	1.8	1.7	2.1
Franklin	1.0	0.9	2.0	1.4	1.0	1.0	1.4	1.3	0.8
Fremont	2.1	3.0	1.4	1.5	1.4	0.8	1.3	2.3	3.4
Greene	1.1	0.7	1.1	0.8	1.3	1.9	2.0	1.5	1.5
Grundy	0.6	0.3	0.7	1.0	0.5	1.2	1.4	0.7	1.1
Guthrie	1.8	1.2	0.6	0.6	1.6	1.1	1.4	2.1	2.2
Hamilton	1.0	1.1	1.6	1.7	0.6	0.5	0.9	1.5	2.1
Hancock	0.5	0.5	0.5	0.6	0.4	0.2	0.9	0.8	1.5
Hardin	0.7	1.1	0.8	0.9	1.0	1.0	1.4	1.7	1.7
Harrison	1.8	1.7	2.0	2.0	1.4	1.1	1.8	1.9	2.1
Henry	1.1	1.4	1.6	1.9	1.5	1.2	2.6	1.7	2.0
Howard	0.4	0.9	0.6	0.2	1.5	0.6	0.9	0.6	1.2
Humboldt	1.3	1.0	0.9	1.8	0.9	1.4	1.6	1.6	1.4
Ida	0.9	0.8	0.5	0.0	0.3	0.7	1.0	1.2	1.5
Iowa	0.7	0.5	0.8	0.9	0.8	0.6	1.3	1.4	1.6
Jackson	1.4	1.5	1.2	1.6	1.1	1.6	2.5	2.2	2.1
Jasper	3.9	3.2	2.7	2.4	2.0	2.6	3.0	2.7	3.0

Table 2. Percentage of public secondary school dropouts in Iowa's counties, 1980-1988 (continued).

County	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	2.3	1.8	2.1	1.7	1.0	1.1	2.5	2.7	2.9
Johnson	2.7	1.9	2.6	1.8	1.8	0.8	0.9	1.2	1.1
Jones	1.7	1.6	0.8	0.8	0.9	0.9	1.9	2.2	1.7
Keokuk	0.9	1.1	1.2	0.8	0.5	0.9	1.3	2.0	2.4
Kossuth	0.9	1.4	1.7	1.0	0.7	0.7	1.0	1.0	1.8
Lee	2.6	3.4	3.4	3.6	3.2	2.6	3.4	3.6	4.4
Linn	2.3	2.9	2.3	2.0	1.9	2.9	2.7	2.5	3.5
Louisa	2.9	2.1	1.9	2.4	2.6	2.9	3.2	2.5	3.3
Lucas	3.2	2.5	3.0	3.9	3.1	3.6	3.2	3.7	3.1
Lyon	0.8	0.4	0.1	0.4	0.4	0.4	1.1	0.7	2.2
Madison	2.3	1.9	1.4	1.9	1.1	1.6	1.5	1.1	1.8
Mahaska	2.7	3.4	1.9	2.9	3.0	3.3	3.3	3.3	4.6
Marion	1.6	1.8	1.4	1.9	1.7	1.2	2.0	1.4	3.1
Marshall	2.4	2.0	1.7	1.5	1.7	1.6	2.4	2.8	2.8
Mills	1.4	1.2	2.0	0.7	1.1	1.0	2.2	2.5	2.7
Mitchell	0.9	0.1	0.9	1.1	1.4	1.2	1.4	1.9	1.6
Monona	1.5	1.5	1.4	2.3	1.6	2.2	2.9	3.2	3.0
Monroe	2.6	4.7	2.9	2.2	3.2	3.1	3.7	2.5	3.1
Montgomery	2.0	2.2	2.3	1.3	3.6	2.5	3.3	3.3	2.9
Muscatine	2.8	2.4	3.3	3.6	4.3	2.7	3.3	4.3	4.2
O'Brien	0.7	1.0	0.6	0.5	1.5	0.8	1.5	1.2	1.7
Osceola	1.8	0.6	0.4	0.2	0.4	0.4	0.4	0.7	0.6
Page	2.5	2.1	1.4	1.7	2.0	2.0	2.1	2.8	1.8
Palo Alto	0.7	0.4	0.8	0.7	1.4	1.1	1.2	1.9	2.3
Plymouth	0.5	0.9	1.2	0.9	1.0	0.7	1.1	1.3	1.5
Pocahontas	0.8	0.2	0.3	0.3	0.5	0.6	0.8	0.7	1.6
Polk	4.5	4.3	4.4	4.3	3.5	3.1	3.7	3.5	3.6
Pottawattamie	5.5	5.1	5.2	4.2	3.8	2.5	3.3	3.8	5.5
Poweshiek	2.3	1.3	1.0	1.6	1.0	1.4	1.2	1.6	2.3
Ringgold	0.4	0.6	0.6	1.2	0.6	1.5	1.0	0.9	3.9
Sac	0.6	1.1	1.0	0.9	0.5	0.6	1.1	1.2	2.8
Scott	4.0	3.4	3.1	3.3	2.9	2.9	3.4	3.9	4.5
Shelby	1.6	1.5	0.0	1.4	1.0	1.2	1.6	1.0	1.5
Sioux	0.8	1.0	0.7	0.7	0.6	0.8	0.9	0.6	0.9
Story	1.2	1.1	1.2	1.3	1.3	1.4	1.4	1.3	1.5
Tama	0.7	2.2	2.2	2.0	1.4	2.6	1.8	1.5	1.9
Taylor	0.3	0.2	0.6	0.9	0.3	0.5	0.5	1.9	1.2
Union	1.3	1.0	0.6	1.2	1.2	1.6	2.7	3.1	3.0
Van Buren	0.9	1.5	1.4	1.8	1.5	2.6	2.1	2.0	2.5
Wapello	3.7	1.9	2.3	2.0	1.5	2.5	2.5	3.5	2.8
Warren	1.8	1.5	1.2	1.4	0.9	1.4	2.0	2.5	2.5
Washington	2.4	1.5	2.0	1.1	1.2	0.6	1.1	2.0	1.8
Wayne	1.7	0.3	1.7	1.8	1.6	1.2	1.0	2.0	1.6
Webster	4.5	3.7	4.4	2.2	1.6	1.1	1.9	2.2	2.1
Winnebago	1.1	0.8	1.6	0.7	0.6	0.1	0.9	0.6	1.0
Winneshiek	0.7	0.7	0.6	0.9	1.5	0.7	1.4	0.7	1.1
Woodbury	2.3	2.4	1.8	2.1	2.1	1.8	2.5	2.8	3.5
Worth	1.8	0.9	0.5	0.8	1.1	1.5	2.0	1.3	2.4
Wright	1.4	0.5	0.8	1.3	0.8	0.8	1.4	1.8	2.7
State of Iowa	2.5	2.5	2.3	2.3	2.1	2.0	2.4	2.5	3.0

In 1988, 2.5% of public secondary enrollees in Iowa became dropouts. This was lower than the 3.0% calculated in 1980 (Table 2). During the nine year period, the lowest dropout percentages for the state were 2.0% in 1983 and 2.1% in 1984. The proportion of dropouts for Iowa decreased every year from 1980 to 1983 but then increased between 1983 and 1988.

There were significant variations among the counties in the percentage of students that dropped out. In 1988, Adair county, with no dropouts, had the lowest percentage. Thirty other counties had fewer than 1% of their secondary students leave school. Pottawattamie had the highest dropout rate (5.5%). Four other counties (Black Hawk, Polk, Scott, Webster) had percentages over 4%, and sixteen counties were above the state figure (2.5%) in 1988. The pattern in 1980 was somewhat different. In that year, only five counties had fewer than 1% of their secondary students drop out and 27 counties were above the state figure (3.0%). Davis county's 5.6% dropout percentage was the highest in 1980 and 10 other counties were above 4%.

A total of 82 counties had a lower percentage of students drop out in 1988 than in 1980 while 17 counties were higher. Some counties, however, were consistently among those with the highest percentages while others were consistently among the lowest. Counties among the 10 highest percentages of dropouts for at least five of the nine years included Black Hawk, Des Moines, Lee, Lucas, Mahaska, Monroe, Muscatine, Polk, Pottawattamie, and Scott. Counties among the 10 lowest for at least five of the nine years were Grundy, Hancock, Howard, Lyon, Osceola, Pocahontas, and Taylor.

Note: Additional information on public secondary school dropouts is published annually in the Iowa Guidance Surveys by the Division of Instructional Services in the Iowa Department of Education (Grimes State Office Building, Des Moines, IA 50319).

Farm Numbers and Average Acres in Iowa's Counties:

1880-1987

Willis Goudy, Iowa State University
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Information on Iowa's farms is collected periodically by the U.S. Bureau of the Census. The most recent agriculture census was conducted early in 1988; data were reported by farmers for 1987. Many items were listed on the questionnaires sent to each farm; this report examines trends in farm numbers and size in Iowa's counties.

FARM NUMBERS

The most recent data are for 1987, when 105,180 farms were counted in Iowa (Table 1). This was a decrease of 10,233 since the 1982 Census of Agriculture; and it is down 122,812 from the historic peak of 228,622 in 1900. The number of farms increased from 1880 to 1900, declined to 1920, grew to a second peak in 1935, and decreased since that point.

When 10-year periods are compared, the greatest loss (-38,771) in farm numbers happened from 1954 to 1964. This was an average annual decline of 3,877. This decline slowed substantially during the period from 1964 to 1987 to an average of 2,102. The average annual decline between the two most recent censuses was 2,047.

Changes occurred within counties in much the same manner as they did for the state as a whole. A total of 47 counties reported more farms in 1900 than in any other census; 22 had their greatest numbers in 1935 and 18 were highest in 1880. Ten of the remaining 11 counties hit their peaks in 1930 (1), 1940 (4), 1945 (3), or 1950 (2); Calhoun hit its peak in 1930 and had the same number of farms in 1935.

From 1880 to 1900, changes in farm numbers varied from a decrease of 417 in Benton to an increase of 2,077 in Woodbury. Twelve other counties gained more than 1,000 farms during this period. Nineteen counties had fewer farms in 1900 than in 1880, although only five dropped by at least 100.

From 1900 to 1935, losses ranged to 575 farms in Davis while gains were as high as 586 in Sioux. Nearly two-thirds (63) of Iowa's counties declined in farm numbers in these 35 years, with 29 counties down by at least 200. Among the 36 that increased, 15 gained at least 200 farms when 1900 and 1935 are compared.

Nearly two-thirds (65) of Iowa's counties had fewer than half the number of farms in 1987 that they had in 1935. Indeed, 15 declined by at least 60%, with Polk the highest at 70.1%. In only eight counties (Carroll, Delaware, Dubuque, Jackson, Lyon, O'Brien, Plymouth, Sioux) did the number of farms drop by less than 40% from 1935 to 1987.

Data from the two most recent censuses--1982 and 1987--indicate that all counties continue to see declines in farm numbers. The largest numerical loss (-219) was in Woodbury, while Appanoose had the smallest decrease (-9). Thirteen counties declined by 150-199 farms, 41 by 100-149 farms, and 35 by 50-99 farms.

Table 1. Number of Farms in Iowa Counties, 1880-1987.

County	1987	1982	1978	1974	1969	1964	1959	1954	1950	1945	1940	1935	1930	1925	1920	1910	1900	1890	1880
Adair	970	1065	1134	1261	1423	1566	1710	1932	2024	2043	2098	2182	2108	2088	2113	2227	2387	2133	1628
Adams	688	737	783	874	924	1037	1233	1355	1512	1534	1582	1637	1630	1719	1629	1726	1949	1722	1601
Allamakee	1062	1134	1185	1210	1439	1557	1717	1898	1983	2080	2088	2128	2108	2156	2175	2230	2368	2308	2441
Appanoose	891	900	950	937	1108	1244	1490	1692	1854	1985	2092	2304	2128	2216	2283	2312	2526	2149	2161
Audubon	851	905	1000	1063	1211	1348	1505	1661	1716	1781	1820	1879	1823	1768	1818	1897	1988	1885	1141
Benton	1434	1585	1644	1669	1827	1991	2201	2434	2447	2456	2490	2680	2595	2525	2562	2656	2774	2723	3191
Black Hawk	1269	1352	1377	1447	1609	1776	1966	2199	2352	2434	2494	2465	2384	2406	2358	2168	2257	2206	2345
Boone	1029	1153	1249	1373	1507	1647	1948	2174	2372	2477	2504	2567	2546	2514	2541	2581	2670	2451	2340
Bremer	1140	1287	1385	1421	1543	1681	1834	1917	2021	2050	2060	2090	2021	2050	2018	1968	2004	1872	1895
Buchanan	1332	1403	1466	1519	1712	1913	2092	2218	2305	2315	2367	2435	2295	2357	2232	2334	2447	2350	2290
Buena Vista	1097	1185	1274	1324	1465	1569	1836	2019	2083	2134	2110	2179	2092	2033	2055	1934	1956	1747	1035
Butler	1294	1467	1475	1565	1692	1873	2064	2236	2293	2298	2361	2277	2282	2268	2244	2226	2304	2055	1975
Calhoun	992	1164	1216	1266	1383	1518	1738	1930	2040	2133	2097	2174	2174	2008	2060	1958	2134	1709	862
Carroll	1319	1396	1422	1487	1565	1767	1896	2045	2098	2120	2119	2152	2224	2113	2087	2092	2175	2116	1721
Cass	942	1087	1157	1240	1398	1469	1695	1984	2135	2142	2205	2243	2198	2158	2182	2292	2395	2213	2006
Cedar	1170	1323	1402	1446	1667	1723	1895	2101	2144	2188	2227	2264	2207	2204	2212	2228	2291	2206	2358
Cerro Gordo	929	1045	1119	1146	1331	1507	1732	1988	1979	2013	1996	2048	2004	2019	1944	1861	1957	1588	1387
Cherokee	1091	1214	1249	1198	1332	1410	1603	1765	1798	1854	1824	1903	1834	1871	1844	1901	1908	1873	1268
Chickasaw	1054	1180	1206	1298	1403	1607	1766	1948	1960	2024	2053	2105	1979	2050	2003	2012	2197	1961	2008
Clarke	697	766	787	908	899	972	1124	1260	1387	1358	1450	1556	1515	1514	1488	1556	1714	1696	1576
Clay	877	1045	1093	1093	1287	1345	1577	1783	1796	1860	1840	1790	1800	1772	1769	1668	1684	1300	697
Clayton	1705	1725	1762	1827	2100	2253	2483	2715	2813	2928	2970	3058	2992	3069	3101	3049	3318	3242	3321
Clinton	1437	1570	1655	1689	1880	2098	2335	2518	2605	2641	2649	2802	2748	2719	2729	2844	2786	2593	2899
Crawford	1339	1511	1590	1636	1794	1909	2121	2364	2437	2502	2507	2595	2556	2487	2444	2361	2649	2468	1702
Dallas	1081	1208	1268	1340	1485	1594	1786	2123	2346	2335	2448	2468	2396	2322	2320	2446	2607	2404	2307
Davis	921	954	958	988	1103	1247	1386	1535	1682	1810	1852	1978	1952	2008	2089	2238	2553	2331	2328
Decatur	715	769	791	855	981	1118	1268	1561	1744	1773	1919	2088	1969	2088	2029	2165	2508	2087	1985
Delaware	1452	1481	1504	1499	1719	1901	2036	2177	2209	2223	2248	2345	2254	2245	2284	2208	2241	2109	2277
Des Moines	753	815	853	840	1014	1184	1311	1394	1521	1605	1726	1894	1730	1928	1926	1995	2189	2004	2271
Dickinson	593	652	700	749	820	906	1075	1204	1234	1291	1256	1290	1224	1167	1043	985	995	521	273
Dubuque	1689	1708	1700	1759	1841	1823	1896	2042	2164	2244	2303	2482	2276	2324	2372	2403	2485	2290	2592
Emmet	609	714	757	790	841	952	1100	1199	1253	1262	1315	1315	1285	1279	1193	1047	1056	490	230
Fayette	1510	1641	1742	1833	2044	2358	2615	2818	2964	2929	3109	3195	3038	3112	3157	3124	3261	2941	2869

Table 1. Number of Farms in Iowa Counties, 1880-1987 (continued).

County	1987	1982	1978	1974	1969	1964	1959	1954	1950	1945	1940	1935	1930	1925	1920	1910	1900	1890	1880
Floyd	985	1097	1144	1196	1326	1409	1619	1766	1853	1844	1897	1954	1858	1947	1916	1907	2054	1874	1912
Franklin	1012	1168	1263	1287	1425	1653	1885	2076	2178	2146	2158	2154	2082	2080	2040	1915	1874	1697	1429
Fremont	719	771	827	896	976	1012	1198	1321	1545	1676	1742	1871	1921	1838	1858	2050	2394	2124	1871
Greene	948	1054	1132	1156	1265	1401	1682	1914	2043	2034	2159	2127	2062	2050	2059	2151	2314	2114	1694
Grundy	1037	1135	1224	1296	1422	1548	1683	1765	1813	1817	1788	1826	1786	1753	1725	1764	1783	1793	1872
Guthrie	960	1105	1154	1327	1422	1593	1800	2045	2151	2279	2394	2524	2379	2166	2315	2330	2492	2248	1722
Hamilton	1026	1158	1283	1293	1486	1660	1902	2046	2145	2176	2161	2263	2213	2171	2181	2219	2245	1887	1565
Hancock	1052	1176	1275	1330	1455	1641	1833	1974	2032	1964	1998	2035	1936	1865	1875	1636	1703	1067	539
Hardin	1065	1208	1278	1300	1485	1616	1941	2021	2170	2126	2062	2239	2179	2134	2129	2235	2294	2101	1930
Harrison	1024	1192	1278	1393	1490	1659	1891	2152	2355	2446	2637	2942	2960	2753	2881	2914	3224	2619	1960
Henry	893	963	1022	1047	1220	1323	1531	1703	1783	1802	1866	2060	1975	1894	1989	2145	2252	2152	2244
Howard	938	1055	1099	1090	1270	1400	1576	1661	1714	1743	1749	1775	1717	1735	1708	1650	1708	1403	1502
Humboldt	754	848	895	970	1036	1109	1291	1410	1451	1507	1425	1533	1475	1479	1380	1476	1478	1292	731
Ida	787	874	918	896	1061	1155	1270	1403	1454	1408	1389	1453	1425	1432	1398	1474	1493	1483	626
Iowa	1057	1150	1212	1235	1416	1560	1774	1939	1988	2095	2155	2247	2152	2236	2256	2309	2454	2115	2446
Jackson	1354	1422	1412	1484	1618	1723	1871	1992	2083	2109	2227	2208	2207	2264	2327	2400	2637	2419	2628
Jasper	1465	1589	1675	1805	1971	2097	2364	2696	2825	2848	2988	3125	3054	3025	2946	3272	3320	2994	3220
Jefferson	775	894	968	911	1113	1272	1395	1601	1687	1721	1782	1898	1887	1907	1960	2020	2206	1941	2239
Johnson	1356	1508	1554	1444	1667	1821	2071	2244	2417	2497	2573	2566	2561	2594	2625	2653	2712	2578	2799
Jones	1161	1307	1372	1412	1561	1711	1865	1959	2056	2104	2139	2222	2124	2163	2090	2110	2373	2136	2429
Keokuk	1036	1193	1258	1334	1521	1663	1944	2140	2319	2495	2532	2703	2665	2619	2764	2770	2927	2335	2806
Kossuth	1718	1885	2034	2003	2204	2582	2906	3070	3121	3169	3106	3153	3053	2985	2928	2656	2807	1635	757
Lee	989	1060	1098	1104	1275	1463	1586	1751	1857	2045	2106	2186	2031	2205	2297	2360	2549	2361	2515
Linn	1690	1810	1857	1926	2118	2343	2683	3133	3436	3702	3728	3848	3615	3645	3666	3619	3567	3258	3475
Louisa	634	699	771	776	859	944	1097	1199	1237	1311	1306	1460	1361	1542	1470	1543	1619	1395	1578
Lucas	690	769	800	899	938	1088	1185	1345	1482	1644	1665	1730	1594	1706	1617	1815	1892	1611	1691
Lyon	1234	1391	1420	1379	1503	1674	1867	1878	1920	1874	1870	1885	1820	1846	1774	1669	1619	1210	313
Madison	1059	1154	1205	1271	1353	1464	1655	1857	1967	1959	2088	2238	2152	2195	2125	2369	2600	2318	2284
Mahaska	1193	1265	1344	1413	1561	1764	2052	2320	2461	2553	2728	2853	2762	2828	2784	2981	3202	2782	2943
Marion	1131	1231	1300	1326	1508	1599	1881	2106	2201	2320	2459	2476	2413	2326	2402	2708	2914	2665	2815
Marshall	1073	1201	1226	1360	1555	1696	1974	2151	2221	2292	2302	2401	2352	2253	2315	2432	2400	2178	2486
Mills	641	684	793	784	868	979	1114	1209	1358	1405	1500	1663	1640	1637	1571	1730	2016	1625	1578
Mitchell	939	1011	1065	1109	1208	1309	1515	1658	1747	1711	1738	1797	1717	1762	1770	1729	1718	1612	1814

Table 1. Number of Farms in Iowa Counties, 1880-1987 (continued).

County	1987	1982	1978	1974	1969	1964	1959	1954	1950	1945	1940	1935	1930	1925	1920	1910	1900	1890	1880
Monona	854	933	1058	1227	1267	1371	1625	1825	1945	1985	2091	2182	2170	2121	2166	2229	2491	2053	1169
Monroe	736	761	768	849	916	1034	1174	1317	1416	1526	1643	1768	1695	1914	1793	1917	1987	1639	1653
Montgomery	701	769	796	842	984	1123	1269	1397	1516	1642	1633	1677	1615	1626	1650	1766	1940	1841	1794
Muscatine	901	1005	1054	1135	1272	1307	1552	1713	1683	1858	1744	1852	1843	1779	1923	1820	1976	1789	1920
O'Brien	1232	1337	1368	1357	1514	1604	1796	1948	1961	1948	1986	2006	1965	1814	1903	1826	1845	1613	560
Osceola	731	833	857	903	949	1070	1233	1268	1306	1327	1306	1317	1278	1312	1265	1068	1088	838	495
Page	1015	1057	1166	1200	1443	1446	1642	1824	1980	2119	2100	2299	2181	2200	2252	2341	2643	2436	2501
Palo Alto	934	1015	1096	1085	1235	1393	1643	1833	1848	1873	1864	1947	1883	1812	1815	1607	1661	1139	573
Plymouth	1740	1874	1942	2037	2173	2296	2595	2722	2817	2859	2842	2881	2779	2808	2699	2704	2643	2401	1212
Pocahontas	987	1105	1177	1239	1369	1511	1767	1907	2032	1990	2039	2094	2086	2009	1992	1932	2005	1437	654
Polk	1001	1110	1131	1166	1374	1578	1926	2329	2767	2831	3139	3351	3132	2962	2948	3229	3171	2464	2681
Pottawattamie	1652	1828	1888	1918	2277	2501	2820	3330	3493	3665	3793	4205	4073	3736	3781	3935	4239	3765	3254
Poweshiek	1047	1152	1221	1350	1457	1574	1825	1991	2079	2126	2161	2263	2236	2148	2179	2253	2322	2150	2338
Ringgold	701	776	824	924	1042	1130	1311	1544	1670	1733	1853	2033	1940	1893	1923	2053	2356	2115	1755
Sac	1035	1146	1184	1319	1410	1538	1746	1894	1985	1996	2058	1995	1874	1910	1945	2014	1999	1851	1330
Scott	973	1097	1171	1121	1349	1549	1778	2030	2079	2363	2287	2379	2263	2269	2316	2405	2347	2205	2508
Shelby	1177	1317	1368	1412	1524	1653	1832	1978	2118	2162	2148	2186	2188	2078	2049	2213	2387	2424	1946
Sioux	2015	2100	2184	2105	2242	2438	2725	2842	2971	2998	3028	3037	2940	2860	2801	2715	2451	2083	908
Story	1138	1248	1330	1354	1424	1560	1845	2123	2210	2290	2292	2403	2348	2263	2215	2385	2436	2193	2218
Tama	1404	1508	1628	1702	1929	2081	2335	2537	2579	2753	2724	2781	2700	2539	2484	2602	2753	2571	2809
Taylor	774	890	976	1045	1189	1395	1605	1839	2032	2096	2208	2295	2178	2159	2159	2254	2581	2281	2279
Union	693	772	823	854	978	1020	1176	1376	1458	1507	1603	1662	1626	1588	1631	1619	1823	1487	1425
Van Buren	783	883	967	1006	1113	1245	1385	1532	1666	1758	1756	1945	1893	1901	2013	2126	2242	2034	2272
Wapello	899	959	971	997	1190	1287	1494	1610	1794	1891	2008	2123	2013	2052	2112	2255	2311	1912	2042
Warren	1310	1394	1406	1502	1576	1629	1870	2081	2243	2220	2487	2623	2521	2443	2402	2608	2926	2613	2617
Washington	1158	1238	1309	1271	1441	1621	1854	2057	2172	2226	2266	2452	2337	2233	2307	2454	2511	2314	2663
Wayne	743	824	872	913	1106	1254	1426	1618	1728	1782	1740	1938	1863	1883	1890	1969	2285	2115	2179
Webster	1235	1357	1417	1550	1681	1787	2149	2463	2546	2625	2678	2799	2637	2628	2566	2478	2564	2311	1735
Winnebago	742	847	929	987	1092	1296	1463	1629	1627	1645	1646	1753	1641	1696	1543	1425	1512	975	664
Winneshek	1633	1724	1826	1816	2015	2257	2442	2580	2711	2858	2887	2933	2863	2954	2915	2887	2960	2860	2720
Woodbury	1360	1579	1659	1797	1970	2117	2407	2784	2873	3133	3192	3334	3227	2905	2969	2976	3231	2577	1154
Worth	667	798	874	924	997	1214	1354	1463	1530	1518	1533	1491	1472	1460	1461	1391	1485	1347	1145
Wright	882	1009	1090	1195	1353	1489	1708	1855	1983	1977	1987	1999	1983	1943	1927	1885	1878	1395	785

State of Iowa 105180 115413 121339 126104 140354 154162 174707 192933 203159 208934 213318 221986 214928 213490 213439 217044 228622 201903 185351

Table 2. Average Size (Acres) of Farms in Iowa Counties, 1880-1987.

County	1987	1982	1978	1974	1969	1964	1959	1954	1950	1945	1940	1935	1930	1925	1920	1910	1900	1890	1880
Adair	364	334	312	291	261	232	207	188	177	176	170	164	170	162	164	160	151	149	129
Adams	354	345	326	297	287	250	211	194	176	174	167	161	158	161	163	152	140	144	116
Allamakee	302	310	303	285	249	237	208	186	188	184	176	176	176	172	171	167	162	150	142
Appanoose	275	263	276	264	248	241	204	181	168	160	147	139	142	136	135	133	129	134	136
Audubon	315	314	296	264	228	206	185	168	164	159	154	150	155	157	153	148	142	142	115
Benton	293	279	272	267	245	225	201	182	180	182	174	166	170	172	168	169	165	160	138
Black Hawk	241	228	229	220	197	184	167	154	143	139	136	138	141	141	144	157	155	154	147
Boone	327	289	274	257	229	211	179	159	147	142	140	135	137	139	134	132	131	131	125
Bremer	206	195	184	177	168	158	144	141	133	131	129	129	132	128	130	136	138	141	130
Buchanan	253	239	233	217	195	182	168	158	154	153	150	145	152	147	153	151	146	147	143
Buena Vista	327	305	287	270	245	223	195	178	173	169	171	166	171	172	171	181	184	167	147
Butler	254	229	232	222	208	191	173	160	156	156	152	155	154	156	156	158	156	162	147
Calhoun	345	302	292	278	261	237	205	183	174	167	171	164	165	173	170	178	170	168	121
Carroll	278	260	258	248	231	209	192	176	172	169	168	166	161	164	170	168	164	155	130
Cass	354	318	306	284	252	238	206	180	168	166	159	156	161	159	163	155	148	146	137
Cedar	295	264	259	252	217	205	186	170	165	163	156	155	158	156	157	157	152	156	144
Cerro Gordo	342	313	306	297	261	225	197	176	174	173	175	170	172	172	173	181	180	176	155
Cherokee	310	281	284	282	264	250	222	202	199	196	194	190	194	187	191	190	186	172	142
Chickasaw	262	245	241	221	207	189	174	159	158	153	150	148	154	148	150	153	142	144	135
Clarke	329	309	316	272	281	255	226	206	188	191	180	170	171	168	167	168	151	148	134
Clay	360	333	318	308	276	257	218	196	194	190	191	193	192	182	193	201	205	199	122
Clayton	264	259	256	244	215	201	183	170	165	160	156	152	155	150	150	151	139	135	127
Clinton	262	254	256	238	211	199	179	166	160	158	157	149	149	148	154	149	152	157	145
Crawford	304	282	271	265	246	230	207	189	186	179	177	172	176	175	179	186	170	169	161
Dallas	304	286	268	264	238	223	198	169	155	158	145	148	152	149	154	146	138	143	124
Davis	290	292	285	292	255	237	212	197	179	171	163	156	157	152	145	139	125	130	129
Decatur	390	391	385	353	296	278	238	202	184	184	168	159	162	154	159	147	130	141	139
Delaware	244	238	231	226	194	181	172	161	160	158	155	150	157	153	152	159	159	163	140
Des Moines	280	276	270	257	227	197	180	159	151	145	139	130	139	125	126	125	114	120	107
Dickinson	356	349	346	326	284	252	221	194	189	183	187	182	190	188	200	212	223	195	149
Dubuque	198	198	207	197	188	192	181	175	167	163	156	147	159	151	154	152	148	154	144
Emmet	374	344	331	298	281	255	218	200	193	196	188	187	193	186	194	214	224	189	134
Fayette	279	266	254	238	208	187	171	157	152	153	144	141	146	141	139	143	136	141	126

Table 2. Average Size (Acres) of Farms in Iowa Counties, 1880-1987 (continued).

County	1987	1982	1978	1974	1969	1964	1959	1954	1950	1945	1940	1935	1930	1925	1920	1910	1900	1890	1880
Floyd	301	275	265	257	232	213	188	171	164	167	163	158	163	155	154	157	148	145	139
Franklin	342	314	291	271	245	220	193	176	168	169	168	168	174	172	175	186	194	188	157
Fremont	429	398	378	360	328	301	260	221	203	186	179	166	159	158	153	145	137	135	154
Greene	373	341	326	308	272	254	211	187	174	177	165	168	171	169	165	166	158	155	125
Grundy	308	282	267	246	224	207	190	180	176	176	174	174	177	179	182	180	178	178	156
Guthrie	330	295	290	263	256	220	193	177	168	163	153	147	152	151	155	152	143	145	130
Hamilton	339	309	283	273	245	218	191	175	170	168	166	160	164	161	162	161	162	162	112
Hancock	331	299	277	264	244	214	192	180	177	181	179	174	182	185	184	208	205	192	163
Hardin	317	295	279	268	235	217	181	171	162	165	163	157	161	160	164	157	153	151	128
Harrison	378	343	320	299	282	260	219	195	184	171	160	145	145	145	144	140	131	149	130
Henry	259	249	244	238	213	195	171	153	147	146	140	127	133	133	127	123	121	120	120
Howard	287	264	251	248	226	206	186	177	170	170	166	165	166	166	164	173	170	170	150
Humboldt	365	325	300	282	270	248	215	190	186	181	188	180	181	180	185	182	186	184	135
Ida	330	297	301	289	259	235	213	192	188	192	192	188	190	187	194	183	181	177	173
Iowa	312	314	297	289	252	234	201	189	181	177	170	163	167	160	160	156	150	162	137
Jackson	255	244	247	247	232	213	197	188	181	181	170	172	174	171	169	162	150	155	140
Jasper	292	282	259	243	228	211	187	165	160	158	152	145	147	146	149	139	140	145	134
Jefferson	303	277	267	257	229	202	183	161	152	151	148	138	138	137	134	130	122	129	117
Johnson	225	218	213	218	202	192	171	164	155	151	145	143	146	145	143	143	142	147	126
Jones	278	257	250	236	215	204	188	177	172	167	164	157	163	159	162	162	150	158	137
Keokuk	331	294	285	262	233	212	182	168	154	144	141	133	132	137	129	129	124	142	124
Kossuth	349	324	304	301	274	238	211	198	195	192	194	192	197	194	196	213	209	185	146
Lee	269	252	251	244	219	201	186	167	159	146	141	136	141	138	132	132	123	132	120
Linn	211	204	198	194	180	170	151	133	124	116	115	110	114	112	114	119	121	127	117
Louisa	314	299	287	280	263	242	214	193	189	178	179	160	168	151	155	154	147	154	136
Lucas	299	285	289	253	254	233	208	190	174	159	153	153	160	154	152	145	139	150	125
Lyon	278	257	250	253	243	217	196	192	190	195	195	193	199	192	201	211	222	213	196
Madison	277	272	264	264	259	235	208	186	173	173	158	155	161	154	158	146	136	142	137
Mahaska	275	266	254	232	220	198	173	150	143	137	129	123	125	121	123	118	112	120	113
Marion	247	238	237	220	207	201	178	163	154	146	139	140	141	142	140	127	120	127	108
Marshall	308	281	273	261	231	206	179	164	160	153	153	149	151	154	153	147	150	157	141
Mills	383	372	322	322	310	274	238	214	197	194	179	159	160	153	156	151	135	155	151
Mitchell	288	270	268	266	242	219	187	176	169	170	168	160	164	163	157	166	168	156	141

Table 2. Average Size (Acres) of Farms in Iowa Counties, 1880-1987 (continued).

County	1987	1982	1978	1974	1969	1964	1959	1954	1950	1945	1940	1935	1930	1925	1920	1910	1900	1890	1880
Monona	441	406	388	351	322	298	258	232	216	209	203	191	187	176	177	180	155	169	129
Monroe	306	292	299	261	249	235	210	192	180	175	160	148	150	131	138	135	132	146	145
Montgomery	354	330	328	299	264	238	210	188	174	164	163	158	165	154	157	151	140	141	128
Muscatine	259	237	232	220	210	194	166	154	154	144	146	136	139	139	137	142	134	143	139
O'Brien	294	271	276	264	243	224	199	182	182	184	181	176	182	183	183	189	195	185	133
Osceola	316	295	290	279	259	230	204	192	193	191	192	191	195	188	196	221	227	190	177
Page	333	315	294	274	239	232	202	185	170	160	158	148	151	147	146	140	128	134	121
Palo Alto	368	340	323	311	289	255	215	194	190	190	188	181	184	182	184	202	206	177	141
Plymouth	300	276	267	262	247	233	206	196	191	190	190	187	188	185	191	200	205	187	179
Pocahontas	354	323	308	289	265	242	203	188	179	182	177	173	174	171	175	182	182	173	123
Polk	238	223	228	234	199	185	154	134	115	109	102	98	105	106	111	105	117	131	122
Pottawttamie	329	304	293	294	246	226	202	174	166	161	152	139	142	146	150	146	142	145	126
Poweshiek	320	309	297	273	246	226	200	184	175	171	168	159	162	166	164	160	158	164	155
Ringgold	407	405	395	349	320	289	253	218	201	195	180	163	170	168	164	158	144	139	128
Sac	348	313	303	279	260	238	205	191	184	182	175	180	184	183	183	179	182	178	168
Scott	237	218	206	207	176	165	145	131	128	115	118	116	121	112	118	115	119	123	109
Shelby	299	271	268	267	242	224	199	183	176	172	173	169	171	174	173	167	156	103	123
Sioux	234	224	222	229	218	197	175	166	161	160	159	158	163	157	167	175	194	189	149
Story	287	271	262	251	243	223	189	166	159	154	153	147	151	152	148	147	146	149	124
Tama	297	278	263	248	232	211	188	173	172	163	162	160	162	172	171	169	161	163	147
Taylor	376	328	324	296	266	234	206	180	164	161	152	148	151	148	150	149	131	140	122
Union	337	305	296	297	270	255	223	190	180	176	164	159	158	157	159	156	147	154	132
Van Buren	313	307	289	277	253	229	203	187	173	169	163	152	152	152	145	141	134	144	128
Wapello	235	232	224	219	198	184	166	154	140	133	127	122	126	124	121	115	114	129	128
Warren	232	230	231	221	216	204	180	166	155	155	140	133	140	140	140	131	120	128	128
Washington	278	273	261	264	236	209	183	167	158	157	151	140	144	150	146	138	137	142	125
Wayne	379	352	347	331	281	255	223	201	191	184	182	168	172	168	168	164	146	150	135
Webster	337	309	298	278	255	240	203	178	172	166	162	156	165	163	166	171	167	159	116
Winnebago	327	291	269	257	242	195	172	154	154	152	152	144	151	146	158	167	158	134	111
Winneshiek	231	232	224	215	198	184	172	163	157	150	148	146	148	143	147	148	143	144	154
Woodbury	332	303	310	290	262	236	209	186	181	170	164	160	160	161	166	176	162	164	146
Worth	332	294	277	257	248	204	184	168	164	165	163	167	169	170	166	178	168	162	151
Wright	390	357	332	306	277	245	212	191	183	185	180	180	184	180	179	188	195	194	140
State of Iowa	301	283	274	262	239	219	194	176	169	165	160	154	158	156	157	156	151	151	134

FARM SIZE

While farm numbers have been declining, the average size of Iowa farms has been increasing (Table 2). Indeed, this trend has been accelerating. From 1880 to 1935, average size increased from 134 to 154 acres, a gain of 20 acres or 15%. From 1935 to 1954, the gain was about another 20 acres. In the next 20-year period, the increase was from 176 acres in 1954 to 262 acres in 1974, an addition of 86 acres or 49%. And from 1974 to 1987, another 39 acres (15%) were added and the average rose above 300 acres. Thus, in the approximately 100 years between 1880 and 1987, the average size of an Iowa farm nearly doubled from 151 to 301 acres.

The greatest change in average acreage over a ten-year period occurred between 1959 and 1969, when farm size gained 45 acres from 194 to 239. This was the middle of an extended time (1954-1974) during which more acres were added to the size of the average farm than any other 20-year span.

Average farm size decreased in eight counties (Black Hawk, Bremer, Linn, Lyon, Muscatine, Polk, Wapello, Winneshiek) from 1880 to 1935, with the largest loss (-24 acres) in Polk. Fifteen others had increases of at least 40 acres, with Clay gaining more than 70 acres. From 1935 to 1987, every county had an increase in the average number of acres per farm. The increase in average size was greater than 200 acres in 10 counties (Decatur, Fremont, Greene, Harrison, Mills, Monona, Ringgold, Taylor, Wayne, Wright). Farm size more than doubled in 45 counties from 1935 to 1987. In four counties (Fremont, Harrison, Ringgold, Taylor), the change in the average number of acres per farm was at least 150%.

Changes between 1982 and 1987 continue previous trends. For the state, farm size increased by 18 acres. A total of 93 counties had larger farms in 1987 than in 1982. Increases of 40 acres or more took place in Calhoun, Humboldt, and Taylor counties, and 48 others gained from 20 to 39 acres. Another 25 added 10-19 acres to their 1982 averages. The remaining 19 had changes in average acres that varied only slightly between 1982 and 1987; 17 grew by 1-9 acres, Dubuque county remained the same, and five declined by 1-9 acres, with Allamakee's decrease of eight acres the greatest during this period.

Numbers of Business Establishments and Employees in Iowa's Counties: 1975-1986

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Each year, the U.S. Department of Commerce publishes reports on business patterns for every state. Some state-level tabulations are included, but the majority of the pages in these reports examine county businesses. Data are reported for the types of employment covered by the Federal Insurance Contributions Act (FICA). This includes all covered wage and salary employment of private nonfarm employers and of nonprofit organizations and all religious organizations covered under the elective provisions of FICA. Generally, self-employment and employment in government, railroad positions covered jointly by social security and railroad retirement programs, domestic service, and agricultural production are excluded.

The number of establishments, number of employees, and annual payroll are reported by county. An establishment is a single physical location where business is conducted or where services or industrial operations are performed. Establishment counts are based on a determination of active status as of anytime during the year. The mid-March pay period is used to count employees; this information is from reports to the U.S. Treasury, surveys conducted by the U.S. Bureau of the Census, or from estimates where it was incompletely or improperly reported. Total annual payroll is the combined amount of wages paid, tips reported and other compensation (salaries, vacation allowances, bonuses, commissions, sick-leave pay, and the value of payments in kind) paid to employees before deductions for social security, income tax, insurance, and so on.

NUMBER OF ESTABLISHMENTS

Iowa had 66,904 business establishments in 1980, which was 2,726 (or 4.2%) more than the number counted in 1975 (Table 1). This increase continued through the first half of the 1980s, when 6,304 businesses were added. Most recent figures indicate a slight decline, however; the total was down 1,385 establishments from 1985 to 1986 for a loss of about 1.9%.

Changes in the numbers of establishments varied greatly among Iowa's counties. Eight (Black Hawk, Des Moines, Dubuque, Johnson, Linn, Polk, Scott, Story) gained at least 100 businesses from 1975 to 1980; they were among the 55 counties that had increases. Three counties (Adair, Keokuk, Ringgold) had the same number in 1975 and 1980 and the remaining 41 had fewer businesses in 1980 than in 1975. Declines of more than 20 were reported in five counties (Appanoose, Calhoun, Cass, Fremont, Monona).

From 1980 to 1985, 78 counties had gains in the number of business establishments. Fourteen had at least 100 more businesses at the end of this period, while only one county (Sac) dropped by more than 20. The general trend of increasing businesses in the majority of counties slowed abruptly from 1985 to 1986, when only 15 counties reported an increase. Declines were greater than 20 businesses in 31 counties, although only two (Black Hawk, Scott) had decreases greater than 50. Increases of at least 20 business establishments occurred in six counties (Jefferson, Linn, Plymouth, Polk, Pottawattamie, Poweshiek). Polk's addition of 60 establishments from 1985 to 1986 was the only one greater than 50.

Table 1. Number of Establishments, Number of Employees, and Annual Payroll for Businesses in Iowa Counties, 1975-1986.

County	Number of Establishments				Number of Employees				Annual Payroll (in \$1,000s)			
	1986	1985	1980	1975	1986	1985	1980	1975	1986	1985	1980	1975
Adair	226	244	230	230	1593	1590	1531	1335	20866	18918	15174	9541
Adams	123	125	117	112	1241	1325	1421	1835	16039	15616	13458	11936
Allamakee	394	392	393	385	3281	2980	3093	2465	39272	34648	26760	17388
Appanoose	309	317	320	344	2599	2518	3048	3032	36798	34504	31398	23652
Audubon	205	221	227	239	1106	1223	1431	1144	10869	11281	11839	7687
Benton	532	559	501	491	3109	2984	3570	3073	38742	36788	36323	22573
Black Hawk	2999	3094	2903	2665	39187	41371	55515	48390	668031	727039	863624	494660
Boone	543	554	502	520	4529	4777	4934	4406	68239	62651	50665	32460
Bremer	580	586	537	495	6031	5891	5821	5025	93285	91621	65188	41718
Buchanan	430	475	439	414	2772	2978	3063	2562	35090	34082	32463	19551
Buena Vista	619	632	601	563	6229	6267	6042	3917	78776	74412	64704	29573
Butler	366	403	396	364	1704	1887	2331	1667	18279	19429	20993	12692
Calhoun	327	346	341	372	1899	1938	2272	1962	23807	22373	21135	12768
Carroll	731	743	679	662	6667	6074	7162	5170	93166	85146	74621	39759
Cass	501	539	518	540	4161	4188	4506	3754	54224	52208	40911	26162
Cedar	455	454	410	426	2575	2661	2718	2369	28322	29770	27517	16389
Cerro Gordo	1460	1469	1394	1316	16519	16838	17290	14899	233740	231054	197003	123300
Cherokee	399	400	382	370	3654	3675	3919	3492	49175	50292	47439	28956
Chickasaw	359	377	364	362	2962	3149	3437	2937	43884	44095	37281	22831
Clarke	199	211	188	184	1881	1918	1948	1250	27083	24015	20675	8061
Clay	595	623	610	535	5262	5467	6671	4980	68394	68533	73446	41487
Clayton	493	523	452	460	3324	3357	3508	2991	41957	38374	37311	22753
Clinton	1211	1244	1125	1139	14472	15301	17997	16209	217812	235620	232129	148380
Crawford	477	493	467	430	4774	5033	5034	3106	72868	72622	62404	23237
Dallas	617	616	580	584	4686	5017	4977	4964	65791	65306	60744	41698
Davis	174	184	168	164	1012	1014	1142	914	12382	12289	10795	6211
Decatur	164	178	185	189	2557	2263	2110	1538	23864	19083	13996	9728
Delaware	411	417	417	366	2659	2525	3385	2248	35814	33058	33151	17276
Des Moines	1193	1208	1090	983	16420	16035	18853	16845	288081	271525	256139	153840
Dickinson	551	550	407	408	3970	3802	3697	3136	49489	50902	36617	22915
Dubuque	2239	2279	2035	1851	37126	36159	42224	35270	611739	625528	587737	360465
Emmet	295	318	319	330	2502	2765	3943	3259	30734	30105	52111	29052
Fayette	616	659	619	622	4402	4532	5000	4275	55509	56315	48576	29335

Table 1. Number of Establishments, Number of Employees, and Annual Payroll for Businesses in Iowa Counties, 1975-1986 (continued).

County	Number of Establishments				Number of Employees				Annual Payroll (in \$1,000s)			
	1986	1985	1980	1975	1986	1985	1980	1975	1986	1985	1980	1975
Floyd	448	466	445	418	4002	3811	5330	7145	56137	50703	71805	71865
Franklin	330	348	353	373	2337	2646	3002	3050	34962	35297	34971	22724
Fremont	196	199	184	210	1175	1178	1207	2001	13655	13792	12143	13409
Greene	303	322	291	293	1889	2044	2345	1707	23782	24001	23250	13085
Grundy	321	349	306	325	2003	2147	2196	2222	26093	25993	22176	16187
Guthrie	262	272	266	263	1551	1464	1619	1217	15208	14772	12167	7446
Hamilton	449	472	439	450	4840	4771	4823	3743	77261	61611	47890	27277
Hancock	342	356	338	352	2680	2721	2796	2059	35693	35299	28936	14918
Hardin	647	670	641	652	5157	4992	5734	4604	72020	69187	62891	36293
Harrison	324	332	320	327	1927	1995	2215	1816	23285	21993	20125	11549
Henry	436	464	481	454	6065	5914	5216	3751	90537	78681	53455	30572
Howard	263	271	283	284	1730	1652	2013	1516	21690	20576	18203	9793
Humboldt	318	328	330	328	2321	2376	2435	2266	29303	28742	26829	17696
Ida	242	242	236	256	1970	1948	1927	1608	30397	27992	19579	11557
Iowa	422	445	389	374	5441	5822	6219	5579	81153	81919	71314	45313
Jackson	511	511	463	464	3277	3244	3843	3203	35068	34184	33596	20276
Jasper	781	777	718	696	9521	9754	10672	9455	169005	172220	142043	94808
Jefferson	525	482	343	335	5399	4647	4780	3744	72653	63863	51082	27639
Johnson	1945	1953	1499	1312	23602	22439	19287	15022	342595	309862	205248	112115
Jones	472	497	440	450	3281	3506	3646	3091	40459	40094	35808	20966
Keokuk	289	297	299	299	1636	1458	1852	1551	19959	17345	17208	9466
Kossuth	542	582	566	539	4268	4592	4911	3592	57410	60527	51736	30520
Lee	1052	1068	973	944	12994	13302	15916	12041	227999	226607	205857	114387
Linn	4343	4318	3757	3258	73309	1172	80670	64651	410199	1325977	1148551	655800
Louisa	216	231	208	207	1245	1249	1749	1455	17716	13688	19046	11158
Lucas	189	202	213	217	2215	2407	2287	1988	40048	35041	27476	16166
Lyon	282	294	269	279	1492	1544	1796	1427	17419	17148	17205	9408
Madison	274	274	243	235	1666	1643	1777	1477	19183	17254	16468	9306
Mahaska	545	572	527	528	4746	4403	5347	4915	61031	55093	49095	34134
Marion	655	677	599	582	9039	8886	8574	6228	148628	144951	102243	53551
Marshall	960	988	930	907	13039	13198	14726	13585	239424	234490	207737	135460
Mills	223	238	256	235	1618	1964	2110	1650	17943	22981	22716	11657
Mitchell	312	308	298	310	2071	1920	1952	1561	24161	22360	18684	10535

Table 1. Number of Establishments, Number of Employees, and Annual Payroll for Businesses in Iowa Counties, 1975-1986 (continued).

County	Number of Establishments				Number of Employees				Annual Payroll (in \$1,000s)			
	1986	1985	1980	1975	1986	1985	1980	1975	1986	1985	1980	1975
Monona	291	296	292	323	1854	1932	1970	1567	20822	20833	16823	10522
Monroe	179	190	179	176	1192	1231	1786	1441	14525	14846	19307	10868
Montgomery	341	368	357	347	3385	3698	4010	3252	46845	47456	40180	23267
Muscatine	993	992	894	871	16330	15633	15956	13413	317417	299711	240526	130557
O'Brien	524	530	520	514	3816	3908	4112	3139	43527	41668	35886	20392
Osceola	196	207	208	199	1221	1242	1480	1384	15088	14537	14124	9436
Page	521	550	505	510	4954	5243	5222	3843	68149	65559	54078	24921
Palo Alto	316	317	290	304	1803	1911	2264	1745	19527	19720	20124	10999
Plymouth	617	595	568	567	5270	5127	5458	4012	76831	68593	56938	29906
Pocahontas	359	365	315	323	2385	2256	2183	2370	25829	26136	21134	15798
Polk	9403	9343	7946	7263	166886	162538	154178	130788	3089390	2893922	2137263	1289343
Pottawattamie	1753	1708	1513	1470	18303	17783	18057	16053	266205	249345	191875	119993
Poweshiek	542	506	483	455	5916	5772	5718	4665	101764	93151	62559	37336
Ringgold	127	133	139	139	735	771	959	747	7371	7080	7287	3781
Sec	382	400	423	421	1979	2092	2831	3000	21022	21278	29218	23162
Scott	3793	3854	3332	2989	56496	56350	61785	50486	1060495	1032208	954959	512614
Shelby	389	387	362	370	3200	2992	3031	2729	37170	34619	28425	17590
Sioux	790	809	813	749	8623	8662	8546	5922	101789	101495	78015	43521
Story	1575	1588	1456	1311	18691	17617	18086	12754	216567	213503	179020	92946
Tama	394	414	415	426	2965	3059	3280	2616	38909	38143	32623	20633
Taylor	165	183	167	182	941	1001	1210	866	9035	9798	9717	5066
Union	342	363	366	338	3007	3030	3389	2569	40108	37677	31722	15860
Van Buren	166	182	167	176	962	1027	1019	887	10960	11104	8501	5506
Wapello	802	851	772	776	9570	10033	11518	9792	146865	169386	157977	84461
Warren	570	562	454	460	4461	4481	4000	3093	50401	46540	40174	24596
Washington	563	593	542	532	4068	4422	5247	4184	51878	53947	53396	29375
Wayne	167	172	191	189	1224	1240	1442	1034	13662	14501	11520	6260
Webster	1180	1223	1206	1154	12857	13882	16420	14059	178803	182838	198596	113450
Winnebago	328	337	356	343	5583	6037	4758	5323	80841	76704	43896	42896
Winneshiek	537	559	471	441	5799	5758	4292	3387	70367	66916	46830	27800
Woodbury	2666	2706	2557	2545	36160	35543	38134	36808	564218	543905	471544	316259
Worth	175	190	175	182	965	1024	1047	814	12220	11745	8929	5677
Wright	442	465	444	460	3786	3398	3968	3392	54992	43765	42039	29109
State of Iowa	71823	73208	66904	64178	852247	847486	906179	762965	13727312	13265591	11454080	6797939

NUMBER OF EMPLOYEES

In 1986, more than 852,000 people were employed in businesses in the state (Table 1). This was about 54,000 less than the employees reported in 1980, although it was up nearly 5,000 from the number in 1985. Relatively great growth occurred from 1975 to 1980, when the number of employees increased by about 143,000 or 19%.

Among Iowa's counties, 39 had increases from 1985 to 1986, with four (Johnson, Linn, Polk, Story) gaining at least 1,000 employees. Declines occurred in the other 60 counties, with two (Black Hawk, Webster) down at least 1,000. From 1980 through 1985, only 20 counties had increases in the number of employees; Polk led with a gain of 8,360 employees, just as it had the greatest increase from 1975 to 1980 and from 1985 to 1986. Fifteen counties declined by at least 1,000 employees from 1980 to 1985; Black Hawk's drop of more than 14,100 was the only one above 10,000.

The number of employees in 1980 was higher than that in 1975 in all but eight Iowa counties (Adams, Floyd, Franklin, Fremont, Grundy, Pocahontas, Sac, Winnebago). The decline was greatest in Floyd, which had about 1,800 fewer employees in 1980 than in 1975; this was the only county with a drop greater than 1,000. Increases in the remaining 81 counties ranged from less than 500 in 31 to more than 1,000 in 34 others. Gains were above 5,000 in six counties (Black Hawk, Dubuque, Linn, Polk, Scott, Story).

Relatively great changes in the number of employees are evident when the 1975-1980 and 1980-1985 periods are compared. Black Hawk, Dubuque, Linn, and Scott counties, for example, were among those with the most positive change from 1975 to 1980; but they were among those with the greatest drops from 1980 to 1985. Winnebago is an example of a county where the trend was in the opposite direction; the number of employees was lower in 1980 than in 1975, but it was much higher in 1985 than in 1980.

ANNUAL PAYROLL

The annual payroll in Iowa's business establishments continued to climb throughout the period studied (Table 1). Indeed, it doubled (+\$6.9 billion, +102%) from 1975 (\$6.7 billion) to 1986 (\$13.7 billion), although the effects of inflation have not been included in these figures. Even though the number of employees had dropped by nearly 54,000, the payroll increased by about \$2.3 billion from 1980 to 1986.

These upward trends in Iowa's total annual payroll were reflected in most counties as well. When 1975 and 1980 are compared, all but two counties (Floyd, Fremont) had higher payrolls at the end of the period than at the beginning. Increases were greater than \$100 million in eight counties (Black Hawk, Des Moines, Dubuque, Linn, Muscatine, Polk, Scott, Woodbury).

Of the 85 counties with higher payrolls in 1985 than in 1980, three (Johnson, Linn, Polk) increased by at least \$100 million, with Polk's jump of \$757 million by far the greatest. Four other counties (Muscatine, Pottawattamie, Scott, Woodbury) had payrolls that were at least \$50 million higher in 1985 than in 1980. A total of 14 counties had lower payrolls in 1985 than in 1980, led by a decline of more than \$136 million in Black Hawk. Emmet (-\$22 million), Floyd (-\$21 million), and Webster (-\$16 million) were the only other counties that dropped by at least \$10 million.

The payroll trends from 1985 to 1986 reflect the decrease in establishments and employees in some counties. Although the total payroll increased in 69 counties, it declined in 30. Declines topped \$10 million in four counties (Black Hawk, Clinton, Dubuque, Wapello), with the \$59 million drop in Black Hawk the highest of any county. Increases were greater than \$10 million in 11 counties, with the increase in Polk (+\$195 million) more than doubling the increase in Linn (+\$84 million), which was the only other county with a gain greater than \$50 million from 1985 to 1986.

Note: These data are reported in COUNTY BUSINESS PATTERNS: IOWA, 1975, 1980, 1985, 1986 (Washington, D.C.: U.S. Department of Commerce, Bureau of the Census; the 1986 volume was published in May of 1988 under CBP-86-17). More detailed data are available for each county and the state in these reports.

Per Capita Income in Iowa's Counties:

1969-1987

Sandra Charvat Burke, Iowa State University
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 Daniel Otto, Iowa State University
 Kenneth Stone, Iowa State University

Per capita income, a measure of average income per person, was \$14,230 for Iowa in 1987. It increased for Iowa every year from 1969 through 1987, although the gains were small from 1981 through 1983 (Table 1). This information is reported annually for all states and counties by the Bureau of Economic Analysis in the U.S. Department of Commerce. In this report, both initial per capita income figures and data adjusted for inflation are presented.

PER CAPITA INCOME

Counties in Iowa varied in per capita income (Table 1). In 1987, Polk had the highest (\$16,644) and Decatur the lowest (\$10,236) per capita income, a difference of \$6,408. Starting with 1980, there was a difference of at least \$5,000 between the lowest and the highest county every year. Polk frequently had the highest per capita income, but Fremont, Greene, Grundy, Hamilton, Linn, Marshall, Scott, and Wright were in the top five at least five times in the 19 years studied. Decatur had the lowest per capita income every year starting with 1974. Other counties among the lowest five at least four times were Allamakee, Appanoose, Clayton, Davis, Howard, Van Buren, and Winneshiek.

Between 1986 and 1987, per capita income increased in all of Iowa's counties. This was also the case five other times (1971 to 1972, 1972 to 1973, 1977 to 1978, 1980 to 1981, 1985 to 1986). During the other years, per capita income declined in at least one county. A majority of Iowa counties had decreases in per capita income from 1973 to 1974 (56) and from 1981 to 1982 (65), while nearly half had declines from 1982 to 1983 (49). These year-to-year variations reflect changes in the economy in Iowa and its counties.

From 1969 to 1987, Iowa's per capita income increased by \$10,635 (Table 3). Increases were under \$9,000 in seven counties (Davis, Decatur, Harrison, Jackson, Sioux, Van Buren, Wapello), with Decatur's gain of \$7,556 the lowest. Five counties (Grundy, Hamilton, Johnson, Polk, Wright) had increases in per capita income of more than \$12,000, with Polk (+\$12,553) up the most. During the period, 19 counties increased every year, but the other 80 declined one or more times. Eight counties (Clayton, Crawford, Greene, Harrison, Ida, Mitchell, Monona, Sac) decreased in six of the 18 comparisons of one year with the next.

In percentage terms, Iowa's per capita income increased 296% between 1969 and 1987. Gains in Iowa's counties ranged from 222% in Mills to 401% in Howard. Although Howard was the only county to increase by more than 400%, 44 others increased by more than 300%.

PER CAPITA INCOME ADJUSTED FOR INFLATION

Rising prices of goods and services between 1969 and 1987 affected what Iowans could purchase with their income. To determine whether income was keeping pace with inflation, the per capita income figures were adjusted to 1987 dollars based on the consumer price index for each year.

Table 1. Per Capita Income in Iowa Counties, 1969-1987.

County	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969
Adair	13549	12247	10729	10151	8692	9062	9531	7565	8144	7921	6081	6321	5480	4981	5536	4059	3520	3361	3188
Adams	13666	12510	10717	10007	9249	9383	9653	7599	7952	7378	5914	6594	5464	4628	5643	3782	3390	3272	3100
Allamakee	12060	11073	10006	9717	8015	8544	8455	7290	7465	7030	6388	6268	5249	4580	4549	3494	3202	3154	2999
Appanoose	11863	11096	10234	9805	9329	8770	8768	7983	7588	6647	6053	5850	5237	4766	4433	3547	3229	2983	2854
Audubon	13847	12235	10968	10211	8516	9304	10080	8033	8165	7957	6088	5874	5717	5187	5568	4059	3575	3549	3626
Benton	13774	13201	12148	11582	10306	10197	10728	9175	9129	8534	6981	6339	6158	5548	5513	4359	3924	3815	3602
Black Hawk	13323	12289	11939	11661	11325	11287	11220	10211	9422	8326	7635	6578	6110	5504	4924	4300	3815	3608	3459
Boone	13854	13169	12551	11868	11230	11137	11092	9966	9322	8567	6636	6560	6448	5877	5509	4257	3803	3711	3594
Bremer	13316	12384	11904	11262	10071	10050	10100	9112	8710	7912	7101	6123	5706	5305	5107	4165	3907	3614	3481
Buchanan	12315	11316	10290	10131	8572	9191	9609	8049	8027	7316	6335	5629	5612	5117	4759	3720	3264	3175	3062
Buena Vista	14159	13526	12844	11435	10521	10650	11357	9658	9362	8653	7542	5813	6365	5980	6016	4558	4194	4131	3913
Butler	12842	12082	11446	11054	9435	9583	10082	8738	8536	8081	6640	5856	5779	5075	5304	3907	3470	3331	3236
Calhoun	14630	13719	12752	11767	10512	10512	11494	10266	9892	8561	6668	5551	6110	6009	6209	4754	3753	3833	3537
Carroll	14955	13825	12949	12233	11150	11399	11955	10255	9814	8863	6844	5860	5891	5395	5654	4333	3539	3647	3458
Cass	14520	13423	12402	11626	10671	10649	10913	8965	9051	8314	7075	6717	5801	5377	5747	4528	3892	3763	3445
Cedar	14203	13179	12540	12106	10104	10763	11292	9339	9625	8961	7355	6654	6889	5665	5690	4355	3874	3873	3605
Cerro Gordo	14114	13266	12574	12314	11475	11062	10932	9609	9003	8298	7387	6668	6210	5579	5182	4536	4104	3947	3512
Cherokee	13050	12353	11434	10679	9593	10134	10627	8786	8667	8113	6735	5625	6246	5852	6014	4292	3704	3581	3594
Chickasaw	13535	12522	11667	10979	9276	9463	10022	8702	8729	8041	7051	5704	5572	5268	5418	4186	3470	3343	3072
Clarke	12877	11723	10988	9707	9409	8854	8801	8038	7369	6835	6141	5544	5064	4579	4872	3872	3585	3463	3153
Clay	13788	12949	12006	10830	10254	10468	10956	9881	9447	8622	8100	6806	6494	5781	5892	4445	4007	3812	3595
Clayton	12048	11208	9990	10004	7628	8505	8590	7023	7478	6972	5870	5306	4976	4509	4560	3626	3240	3255	2996
Clinton	13163	12435	11793	11544	10393	10605	10815	9577	8928	7949	6929	6194	5799	5224	4911	4314	3950	3931	3800
Crawford	12353	11611	10357	10128	8932	9441	10334	7849	7948	7559	5972	5099	5360	4868	5128	3976	3442	3466	3275
Dallas	14500	13663	12668	12242	11428	11290	11285	9874	9584	8410	7405	7001	6619	6172	5907	4864	4303	4178	3951
Davis	11453	10594	10061	9521	8754	8533	8352	7397	7235	6360	5192	5268	4959	4453	4862	4064	3492	3350	3113
Decatur	10236	9477	8892	8099	7624	7217	7237	6203	6121	6088	4812	4780	4306	4048	4154	3484	3135	2999	2680
Delaware	12696	11662	10155	10149	7871	8743	9021	7351	8089	7626	6187	5441	5777	4837	4591	3661	3190	3080	2836
Des Moines	14181	13442	12798	12262	11276	11077	10882	9889	9398	8372	7578	6854	6306	5787	5358	4736	4334	4164	4167
Dickinson	14705	13534	12605	12470	11003	10864	10845	9496	9273	8700	7536	6447	6290	5869	6149	4590	4001	3887	3551
Dubuque	12966	11945	11473	11119	10177	9982	10000	9066	8666	7915	7044	6105	5633	5199	4669	4137	3806	3608	3298
Emmet	13559	13009	12105	11022	10319	10153	11218	10154	8800	8310	7198	6075	6151	5918	5855	4299	4077	3942	3518
Fayette	12469	11557	10588	10202	8614	8694	8998	7741	8152	7330	6202	5459	5166	4803	4629	3623	3250	3241	2963
Floyd	13069	12229	11277	11128	9852	9881	9873	9041	8793	7978	7306	6270	6005	5550	5433	3841	3305	3527	3378
Franklin	13488	13153	11896	11401	9714	10041	10940	9034	8911	8533	6718	6331	7065	6423	6186	4326	3688	3932	3577
Fremont	14918	14828	13902	11865	12397	10801	11336	10038	9316	8530	6694	6990	5967	5351	6540	4699	4251	4321	4179

Table 1. Per Capita Income in Iowa Counties, 1969-1987 (continued).

County	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969
Greene	15608	14471	13129	12062	11023	11258	11808	10469	10167	9443	6112	6703	7023	6724	7196	5235	4220	4356	4115
Grundy	15861	14585	13703	12940	11675	11773	12378	10682	10314	9246	8113	7039	7036	6755	6360	4611	3957	3909	3734
Guthrie	13612	12716	11725	10845	9327	9719	10029	8123	8239	7588	5881	5732	5384	4989	5192	3836	3398	3348	3219
Hamilton	16112	15433	14267	12951	12029	11990	12415	10640	10160	9167	7603	6829	7061	6335	6665	5082	4413	4073	3750
Hancock	13824	13333	12393	12068	11010	10918	11491	9392	9334	8720	7696	6552	6914	6282	6154	4460	3736	3795	3474
Hardin	14910	14357	12973	12094	10683	11009	11354	9914	9365	8658	7130	6691	6405	6007	5945	4420	3916	4138	3814
Harrison	12328	11781	11690	10470	9467	9503	10010	8005	8107	7493	5956	5371	5504	4692	5234	3936	3570	3421	3515
Henry	14135	13390	12770	11788	10684	10579	10282	8934	8767	8023	7126	6716	6272	5364	5169	4257	3831	3668	3449
Howard	13515	12774	11147	11320	9178	8905	9485	7897	8308	7556	6610	5361	4976	4508	5232	3707	3108	2954	2695
Humboldt	13902	13182	12054	11516	10623	10981	11548	9329	9173	8891	7232	6363	6971	6409	6117	4047	3637	3677	3456
Ida	14255	13179	12177	11695	8937	9810	10521	7728	8662	8565	6570	4990	5824	5801	6046	4545	3986	3960	4050
Iowa	14574	13398	12548	12430	9874	10321	10353	8743	8856	8326	7010	6363	5816	5078	5305	4408	4112	4153	3689
Jackson	12201	10950	10397	10238	8856	9123	9302	8036	7850	7409	6330	5788	5298	4765	4834	3880	3520	3405	3202
Jasper	15180	14101	13582	12985	11739	11209	11260	9799	9270	8535	7187	6781	6231	5767	5619	4770	4025	4008	3745
Jefferson	12908	12269	11115	10571	9317	8728	9262	7989	8061	7231	6353	6098	5752	5604	4923	3949	3617	3576	3409
Johnson	15747	14796	13738	13080	12015	11537	10898	9711	8817	8114	7144	6247	5740	4992	4611	4063	3738	3488	3231
Jones	12315	11449	10473	10013	8143	8791	9085	7739	7906	7430	6186	5532	5483	5041	4839	3883	3590	3538	3298
Keokuk	14737	13430	12059	11648	10636	10286	10173	8443	8563	8088	6728	6038	6067	5077	5646	4318	3785	3637	3454
Kossuth	13630	13435	12200	11534	9424	10290	10938	9300	8803	8462	7075	6006	6876	6479	6560	4342	3648	3556	3345
Lee	13008	12582	12204	11659	10760	10479	10404	9275	8838	8031	6941	6419	5870	5293	4908	4171	3811	3642	3477
Linn	15429	14430	13689	12906	12258	11997	11564	10630	9963	8792	7868	7116	6427	5878	5318	4694	4391	4216	3989
Louisa	13830	13064	12162	11655	9554	10355	10538	9140	8105	7267	6533	6072	6108	5281	5359	4103	3812	3709	3464
Lucas	13303	12360	11477	10820	10123	9736	9747	8769	8073	7660	6213	6291	5499	4834	4982	4205	3751	3652	3200
Lyon	13011	12493	11549	11148	9345	9980	10155	7856	8796	7859	6217	4834	5243	4955	6119	4204	3615	3463	3459
Madison	13642	12942	11870	11069	9959	9767	9784	8858	8311	7862	6727	6669	5967	5120	5523	4285	3982	3839	3568
Mahaska	13273	12486	11607	10874	9872	10140	10293	8721	8638	8133	6747	6278	5889	5302	5235	4279	3654	3462	3217
Marion	15030	13919	13203	12377	11720	11081	10843	9563	9254	8378	6968	6714	6396	5757	5377	4477	3966	3800	3616
Marshall	14666	13669	13156	12508	11878	11533	11432	10377	9588	8834	7682	7425	6806	6210	5836	4867	4646	4429	4163
Mills	13864	13519	12687	11425	10635	10350	10116	9049	8555	8382	6960	6887	6440	5654	6057	4554	4213	4193	4302
Mitchell	13994	13173	11978	11481	9837	9920	10121	8254	8444	8069	6979	5467	5841	4987	5745	4161	3395	3433	3207
Monona	14090	13349	12234	11231	9787	10620	11264	7842	7762	7825	6528	4975	6120	5364	6445	4377	3707	3731	3625
Monroe	12676	11558	10940	10387	9465	9226	9114	8226	7453	6878	5980	5820	5197	4621	4690	3868	3387	3169	2922
Montgomery	14670	13833	12681	11658	11007	10883	10909	9370	9779	8346	7037	6764	5964	5586	5788	4297	3971	3934	3723
Muscatine	14924	14182	13761	13221	12027	11820	11546	10223	9311	8453	7545	7007	6396	5592	5188	4423	4142	4043	3801
O'Brien	14660	13908	12668	12132	10886	10933	10965	9205	9190	8825	7421	6390	6494	6028	6142	4470	3728	3459	3460
Osceola	12694	11939	10799	10185	9039	9274	10628	8985	8974	8691	7317	5714	6494	5473	6905	4684	3886	3696	3582

Table 1. Per Capita Income in Iowa Counties, 1969-1987 (continued).

County	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969
Page	12994	12509	11439	10530	10085	9836	9825	8635	8724	7768	6759	6577	5869	5124	5476	4279	3957	3726	3605
Palo Alto	14440	13744	12800	10892	9874	10300	11109	9764	8587	8357	6948	5736	6173	5831	6282	4184	3768	3695	3433
Plymouth	13576	12520	11753	10839	9047	9765	9964	7746	8473	8177	6561	5586	5793	5208	5762	4205	3523	3362	3310
Pocahontas	14218	13909	13076	11310	10322	11224	12248	9611	8853	8902	7328	5527	6602	6478	6903	4349	3810	3735	3559
Polk	16644	15670	14980	14337	13520	12988	12334	11334	10513	9330	8430	7526	6839	6205	5641	5116	4686	4419	4091
Pottawattamie	13129	12602	12107	11442	10658	10349	10080	9125	8484	7943	6868	6247	5519	5180	4923	4174	3828	3729	3543
Poweshiek	15077	13792	12469	12155	10688	10679	10580	9006	8939	8272	6915	6619	6100	5617	5650	4479	3942	3762	3597
Ringgold	13379	11891	10394	9021	8540	8541	8819	7729	7442	7273	5616	6154	5459	4610	5747	4114	3512	3463	3127
Sec	14275	13889	12344	11505	10073	10758	11914	9148	9834	8951	7031	5883	6374	6274	6368	4575	3751	3797	3789
Scott	15424	14422	13746	13241	12230	12126	11888	10703	9816	8702	7827	7034	6447	6004	5449	4703	4310	4114	3976
Shelby	13415	12676	11932	10976	9267	10014	10366	8010	8960	8510	6160	5630	5450	5146	5585	4194	3522	3556	3354
Sioux	11823	11112	10493	10078	8756	9292	10113	8469	8743	8271	6467	5654	5227	5269	5449	4223	3555	3506	3395
Story	13486	12696	12043	11303	10524	10174	9640	8748	8030	7258	6242	5693	5204	4742	4527	3847	3542	3343	3132
Tama	13706	12742	12045	11403	10056	10546	10991	9094	8552	8023	7047	6537	6370	5526	5624	4269	3800	3674	3479
Taylor	12660	11678	11105	9402	8731	8704	8705	7554	7840	6950	6010	6006	5215	4367	5024	3712	3098	3175	2903
Union	13159	12388	11620	10927	10239	10131	9526	8470	7846	7010	6100	5954	5269	4699	4910	3949	3477	3282	3105
Van Buren	11599	10606	9971	9026	7801	8006	7973	7159	7399	6936	5983	5660	5321	4544	4507	3633	3286	3058	2814
Wapello	12119	11330	11155	10871	10307	10097	9722	9085	8267	7324	6586	5925	5393	4839	4480	4222	3834	3570	3467
Warren	13376	12550	12079	11440	10545	10277	9915	9235	8766	7985	6824	6401	5842	5192	4984	4345	3912	3640	3473
Washington	14586	13686	13013	13266	11441	11708	11553	9713	9699	8860	7313	6760	6844	5481	5650	4547	4183	3938	3659
Wayne	13081	11864	10886	10235	9645	8842	9116	7974	7758	7128	5360	5595	5157	4344	4774	3902	3270	3181	2760
Webster	13620	12958	12099	11453	10536	10902	10973	10065	9337	8329	7139	6485	6137	5775	5325	4283	3982	3709	3650
Winnebago	15319	14359	13251	12957	11103	10419	10301	8771	8834	8543	7930	6920	6743	5581	6303	4816	3985	3730	3484
Winneshek	11800	11105	9914	9673	7782	8101	8119	6741	6741	6577	5694	5041	4639	4224	4074	3192	3023	2971	2772
Woodbury	14298	13102	12418	11881	11318	10999	10782	9532	8933	8290	7497	6738	6200	5566	5284	4517	4077	3869	3683
Worth	13860	13000	12001	11643	9684	9484	9967	7906	8276	8303	7097	6071	6561	5644	6241	4385	3482	3388	3283
Wright	15713	15008	14209	13771	11980	11841	11892	10335	9994	9277	8035	6892	7250	6734	6398	4744	4055	3906	3678
State of Iowa	14230	13341	12569	11969	10943	10857	10812	9537	9091	8289	7189	6468	6097	5540	5349	4394	3951	3804	3595
Counties:																			
Range: Low	10236	9477	8892	8099	7624	7217	7237	6203	6121	6088	4812	4780	4306	4048	4074	3192	3023	2954	2680
High	16644	15670	14980	14337	13520	12988	12415	11334	10513	9443	8430	7526	7250	6755	7196	5235	4686	4429	4302
Number Decreased	0	0	3	1	49	65	0	31	3	0	8	30	1	56	0	0	17	7	

Table 2. Adjusted Per Capita Income (1987 Dollars) in Iowa Counties, 1969-1987.

County	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969
Adair	13549	12797	11282	11058	9810	10562	11539	9954	12047	13290	11117	12346	11207	10899	13602	10853	9724	9603	9602
Adams	13666	13072	11269	10901	10439	10936	11686	9999	11763	12379	10812	12879	11174	10127	13865	10112	9365	9349	9337
Allamakee	12060	11571	10522	10585	9046	9958	10236	9592	11043	11795	11678	12242	10734	10022	11177	9342	8845	9011	8762
Appanoose	11863	11595	10761	10681	10529	10221	10615	10504	11225	11153	11066	11426	10710	10429	10892	9484	8920	8523	8596
Audubon	13847	12785	11533	11123	9612	10844	12203	10570	12078	13351	11130	11473	11691	11350	13681	10853	9876	10140	10922
Benton	13774	13794	12774	12617	11632	11885	12988	12072	13504	14319	12762	12381	12593	12140	13545	11655	10840	10900	10849
Black Hawk	13323	12841	12554	12703	12782	13155	13584	13436	13938	13970	13958	12848	12495	12044	12098	11497	10539	10309	10419
Boone	13854	13761	13198	12928	12675	12980	13429	13113	13790	14374	12132	12813	13186	12860	13536	11382	10506	10603	10825
Bremer	13316	12940	12517	12268	11367	11713	12228	11989	12885	13275	12982	11959	11669	11608	12548	11136	10793	10326	10485
Buchanan	12315	11824	10820	11036	9675	10712	11633	10591	11874	12275	11581	10994	11476	11197	11693	9947	9017	9071	9223
Buena Vista	14159	14134	13506	12456	11875	12413	13749	12708	13849	14518	13788	11354	13016	13085	14781	12187	11586	11803	11786
Butler	12842	12625	12036	12041	10649	11169	12206	11497	12627	13559	12139	11438	11818	11105	13032	10447	9586	9517	9747
Calhoun	14630	14335	13409	12818	11865	12252	13915	13508	14633	14364	12190	10842	12495	13149	15256	12711	10367	10951	10654
Carroll	14955	14446	13616	13326	12585	13286	14473	13493	14518	14871	12512	11445	12047	11805	13892	11586	9776	10420	10416
Cass	14520	14026	13041	12664	12044	12411	13212	11796	13389	13950	12934	13119	11863	11766	14120	12107	10751	10751	10377
Cedar	14203	13771	13186	13187	11404	12544	13671	12288	14238	15035	13446	12996	14088	12396	13980	11644	10702	11066	10858
Cerro Gordo	14114	13862	13222	13414	12951	12893	13235	12643	13318	13923	13505	13023	12699	12208	12732	12128	11337	11277	10578
Cherokee	13050	12908	12023	11633	10827	11811	12866	11561	12821	13612	12313	10986	12773	12805	14776	11476	10232	10231	10825
Chickasaw	13535	13085	12268	11960	10470	11029	12133	11450	12913	13492	12890	11141	11395	11527	13312	11193	9420	9551	9253
Clarke	12877	12250	11554	10574	10620	10319	10655	10576	10901	11468	11227	10828	10356	10020	11971	10353	9903	9894	9497
Clay	13788	13531	12625	11797	11573	12200	13264	13001	13975	14466	14808	13293	13280	12650	14477	11885	11069	10891	10828
Clayton	12048	11712	10505	10898	8609	9913	10400	9241	11062	11698	10731	10363	10176	9867	11204	9695	8950	9300	9024
Clinton	13163	12994	12401	12575	11730	12360	13093	12601	13207	13337	12667	12098	11859	11431	12066	11535	10912	11231	11446
Crawford	12353	12133	10891	11033	10081	11003	12511	10328	11757	12683	10918	9959	10961	10652	12600	10631	9508	9903	9864
Dallas	14500	14277	13321	13336	12898	13159	13662	12992	14178	14111	13537	13674	13536	13505	14514	13005	11887	11937	11901
Davis	11453	11070	10579	10371	9880	9945	10111	9733	10703	10671	9492	10289	10141	9744	11946	10866	9646	9571	9377
Decatur	10236	9903	9350	8822	8605	8411	8762	8162	9055	10215	8797	9336	8806	8858	10206	9316	8660	8569	8072
Delaware	12696	12186	10678	11056	8884	10190	10921	9672	11966	12795	11311	10627	11814	10584	11280	9789	8812	8800	8542
Des Moines	14181	14046	13457	13357	12727	12910	13174	13012	13902	14047	13854	13387	12896	12663	13165	12663	11972	11897	12551
Dickinson	14705	14142	13254	13584	12419	12662	13130	12495	13717	14597	13777	12592	12863	12842	15108	12273	11052	11106	10696
Dubuque	12966	12482	12064	12112	11486	11634	12107	11929	12820	13280	12878	11924	11519	11376	11472	11061	10514	10309	9934
Emmet	13559	13594	12729	12007	11647	11833	13581	13361	13018	13943	13159	11865	12579	12950	14386	11495	11262	11263	10596
Fayette	12469	12076	11134	11113	9722	10133	10893	10186	12059	12299	11338	10662	10564	10510	11373	9687	8978	9260	8925
Floyd	13069	12778	11858	12122	11120	11516	11953	11896	13007	13386	13356	12246	12280	12144	13349	10270	9130	10077	10175
Franklin	13488	13744	12509	12419	10964	11703	13245	11887	13182	14317	12282	12365	14448	14055	15199	11567	10188	11234	10774
Fremont	14918	15494	14618	12925	13992	12589	13724	13208	13781	14312	12238	13652	12202	11709	16069	12564	11743	12346	12587

Table 2. Adjusted Per Capita Income (1987 Dollars) in Iowa Counties, 1969-1987 (continued).

County	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969
Greene	15608	15121	13805	13139	12441	13121	14295	13775	15040	15844	11174	13092	14362	14713	17681	13997	11657	12446	12395
Grundy	15861	15240	14409	14096	13177	13721	14985	14055	15257	15513	14832	13748	14389	14781	15627	12329	10931	11169	11247
Guthrie	13612	13287	12329	11814	10527	11328	12142	10688	12188	12732	10751	11195	11010	10917	12757	10257	9387	9566	9696
Hamilton	16112	16126	15002	14108	13577	13974	15030	14000	15030	15381	13899	13338	14440	13862	16376	13588	12191	11637	11295
Hancock	13824	13932	13032	13146	12427	12725	13912	12358	13808	14631	14069	12797	14139	13746	15120	11925	10320	10843	10464
Hardin	14910	15002	13641	13174	12058	12831	13746	13045	13854	14527	13035	13068	13098	13144	14607	11818	10818	11823	11488
Harrison	12328	12310	12292	11405	10685	11076	12119	10533	11993	12572	10888	10490	11256	10267	12860	10524	9862	9774	10587
Henry	14135	13992	13428	12841	12059	12330	12448	11755	12969	13461	13027	13117	12826	11737	12700	11382	10583	10480	10389
Howard	13515	13348	11721	12331	10359	10379	11483	10391	12290	12678	12084	10471	10176	9864	12855	9912	8586	8440	8117
Humboldt	13902	13774	12675	12545	11990	12798	13981	12275	13570	14918	13221	12428	14256	14024	15029	10821	10047	10506	10410
Ida	14255	13771	12804	12740	10087	11434	12737	10168	12814	14371	12011	9746	11910	12694	14855	12152	11011	11314	12199
Iowa	14574	14000	13195	13540	11144	12029	12534	11504	13101	13970	12815	12428	11894	11112	13034	11786	11359	11866	11111
Jackson	12201	11442	10933	11153	9995	10633	11262	10574	11612	12431	11572	11305	10834	10427	11877	10374	9724	9729	9645
Jasper	15180	14735	14282	14145	13249	13064	13632	12893	13713	14320	13139	13244	12742	12619	13806	12754	11119	11451	11280
Jefferson	12908	12820	11688	11515	10516	10172	11213	10512	11925	12133	11614	11910	11763	12263	12096	10559	9992	10217	10268
Johnson	15747	15461	14446	14248	13561	13446	13194	12778	13043	13614	13060	12201	11738	10923	11329	10864	10326	9966	9732
Jones	12315	11963	11013	10907	9191	10246	10999	10183	11695	12466	11309	10805	11213	11031	11889	10382	9917	10109	9934
Keokuk	14737	14033	12680	12688	12005	11988	12316	11109	12667	13570	12300	11793	12407	11109	13872	11545	10456	10391	10404
Kossuth	13630	14039	12829	12564	10637	11993	13242	12237	13022	14198	12934	11730	14061	14177	16118	11610	10077	10160	10075
Lee	13008	13147	12833	12700	12144	12213	12596	12204	13074	13475	12689	12537	12004	11582	12059	11152	10528	10406	10473
Linn	15429	15078	14394	14059	13835	13983	14000	13987	14738	14752	14384	13898	13143	12862	13066	12551	12130	12046	12015
Louisa	13830	13651	12789	12696	10783	12069	12758	12026	11990	12193	11943	11859	12491	11556	13167	10971	10530	10597	10434
Lucas	13303	12915	12068	11786	11426	11347	11800	11538	11942	12852	11358	12287	11245	10578	12241	11243	10362	10434	9639
Lyon	13011	13054	12144	12144	10547	11632	12294	10337	13012	13186	11366	9441	10722	10842	15034	11241	9986	9894	10419
Madison	13642	13524	12482	12058	11240	11383	11845	11655	12294	13191	12298	13025	12202	11204	13570	11457	11000	10969	10747
Mahaska	13273	13047	12205	11845	11142	11818	12461	11475	12778	13646	12335	12262	12043	11602	12862	11441	10094	9891	9690
Marion	15030	14544	13883	13483	13228	12915	13127	12583	13689	14057	12739	13113	13080	12597	13211	11971	10956	10857	10892
Marshall	14666	14283	13834	13625	13406	13442	13840	13654	14183	14822	14044	14502	13918	13589	14339	13013	12834	12654	12539
Mills	13864	14126	13341	12446	12003	12063	12247	11907	12655	14064	12724	13451	13170	12372	14882	12176	11638	11980	12958
Mitchell	13994	13765	12595	12507	11103	11562	12253	10861	12491	13539	12759	10678	11945	10912	14115	11126	9378	9809	9660
Monona	14090	13949	12864	12234	11046	12378	13637	10318	11482	13129	11934	9717	12515	11737	15835	11703	10240	10660	10919
Monroe	12676	12077	11504	11315	10683	10753	11034	10824	11025	11540	10932	11367	10628	10112	11523	10342	9356	9054	8801
Montgomery	14670	14455	13334	12699	12423	12684	13207	12329	14466	14003	12865	13211	12196	12223	14221	11489	10970	11240	11214
Muscatine	14924	14819	14470	14402	13574	13776	13978	13451	13774	14183	13793	13686	13080	12236	12747	11826	11442	11551	11449
O'Brien	14660	14533	13321	13216	12287	12742	13275	12112	13595	14807	13567	12480	13280	13190	15091	11952	10298	9883	10422
Osceola	12694	12475	11355	11095	10202	10809	12867	11822	13275	14582	13377	11160	13280	11976	16966	12524	10735	10560	10789

Table 2. Adjusted Per Capita Income (1987 Dollars) in Iowa Counties, 1969-1987 (continued).

County	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969
Page	12994	13071	12028	11471	11383	11464	11895	11362	12905	13034	12356	12846	12002	11212	13455	11441	10931	10646	10858
Palo Alto	14440	14362	13460	11865	11144	12005	13449	12847	12703	14022	12702	11203	12624	12759	15435	11187	10409	10557	10340
Plymouth	13576	13083	12359	11807	10211	11381	12063	10192	12534	13720	11995	10910	11847	11396	14157	11243	9732	9606	9970
Pocahontas	14218	14534	13750	12320	11650	13082	14828	12646	13096	14936	13397	10795	13501	14175	16961	11628	10525	10671	10720
Polk	16644	16374	15752	15618	15260	15138	14932	14913	15552	15654	15411	14699	13986	13578	13860	13679	12945	12626	12322
Pottawattamie	13129	13168	12731	12464	12029	12062	12203	12007	12550	13327	12556	12201	11286	11335	12096	11160	10575	10654	10672
Poweshiek	15077	14412	13111	13241	12063	12446	12809	11850	13223	13879	12642	12928	12474	12291	13882	11976	10890	10749	10834
Ringgold	13379	12425	10930	9827	9639	9955	10677	10170	11009	12203	10267	12020	11164	10088	14120	11000	9702	9894	9419
Sac	14275	14513	12980	12533	11369	12538	14424	12037	14547	15018	12854	11490	13035	13729	15646	12233	10362	10849	11413
Scott	15424	15070	14454	14424	13804	14133	14392	14083	14521	14601	14309	13738	13184	13138	13388	12575	11906	11754	11976
Shelby	13415	13246	12547	11956	10459	11671	12550	10539	13254	14279	11261	10996	11145	11260	13722	11214	9729	10160	10102
Sioux	11823	11611	11034	10978	9883	10830	12243	11143	12933	13878	11823	11043	10689	11530	13388	11291	9820	10017	10226
Story	13486	13266	12664	12313	11878	11858	11671	11511	11879	12178	11411	11119	10642	10376	11123	10286	9785	9551	9434
Tama	13706	13315	12666	12422	11350	12291	13306	11966	12651	13461	12883	12768	13027	12092	13818	11414	10497	10497	10479
Taylor	12660	12203	11677	10242	9854	10145	10539	9939	11598	11661	10987	11730	10665	9556	12344	9925	8558	9071	8744
Union	13159	12945	12219	11903	11556	11808	11533	11145	11607	11762	11152	11629	10775	10282	12064	10559	9605	9377	9352
Van Buren	11599	11083	10485	9832	8805	9331	9653	9420	10945	11638	10938	11055	10881	9943	11074	9714	9077	8737	8476
Wapello	12119	11839	11730	11842	11633	11768	11770	11954	12229	12289	12040	11572	11029	10589	11007	11289	10591	10200	10443
Warren	13376	13114	12701	12462	11902	11978	12004	12151	12967	13398	12475	12502	11947	11361	12246	11618	10807	10400	10461
Washington	14586	14301	13683	14451	12913	13646	13987	12780	14348	14866	13369	13203	13996	11993	13882	12158	11555	11251	11021
Wayne	13081	12397	11447	11149	10886	10305	11036	10492	11476	11960	9799	10928	10546	9505	11730	10433	9033	9089	8313
Webster	13620	13540	12722	12476	11892	12706	13285	13243	13812	13975	13051	12666	12550	12637	13084	11452	11000	10597	10994
Winnebago	15319	15004	13934	14114	12532	12143	12471	11541	13068	14334	14497	13516	13789	12212	15486	12877	11008	10657	10494
Winneshiek	11800	11604	10425	10537	8783	9442	9829	8870	9972	11035	10410	9846	9487	9243	10010	8535	8351	8489	8349
Woodbury	14298	13691	13058	12942	12774	12819	13053	12542	13214	13909	13706	13160	12679	12179	12983	12078	11262	11054	11093
Worth	13860	13584	12619	12683	10930	11054	12067	10403	12243	13931	12974	11857	13417	12350	15334	11725	9619	9680	9889
Wright	15713	15682	14941	15001	13521	13801	14397	13599	14784	15565	14689	13461	14826	14735	15720	12684	11202	11160	11078
State of Iowa	14230	13940	13217	13038	12351	12654	13090	12549	13448	13908	13143	12633	12468	12123	13143	11749	10914	10869	10828
Counties:																			
Range: Low	10236	9903	9350	8822	8605	8411	8762	8162	9055	10215	8797	9336	8806	8858	10010	8535	8351	8440	8072
High	16644	16374	15752	15618	15260	15138	15030	14913	15552	15844	15411	14699	14826	14781	17681	13997	12945	12654	12958
Number Decreased	15	0	26	3	84	95	2	96	94	2	33	44	20	98	1	0	51	38	

Table 3. Change in Per Capita Income and Adjusted Per Capita Income for Iowa Counties, 1969-1987.

County	Change in Per Capita Income, 1969-1987			Change in Adjusted Per Capita Income, 1969-1987		
	Dollars	Percent	Years	Dollars	Percent	Years
			Decreased			Decreased
Adair	10361	325.0	5	3947	41.1	6
Adams	10566	340.8	5	4329	46.4	6
Allamakee	9151	314.6	2	3298	37.6	8
Appanoose	9009	315.7	0	3267	38.0	5
Audubon	10221	281.9	5	2925	26.8	9
Benton	10172	282.4	1	2925	27.0	8
Black Hawk	9864	285.2	0	2904	27.9	8
Boone	10260	285.5	0	3029	28.0	9
Bremer	9835	282.5	1	2831	27.0	6
Buchanan	9253	302.2	2	3092	33.5	9
Buena Vista	10246	261.8	4	2373	20.1	8
Butler	9606	296.8	3	3095	31.8	8
Calhoun	11093	313.6	4	3976	37.3	7
Carroll	11497	332.5	5	4539	43.6	7
Cass	11075	321.5	3	4143	39.9	6
Cedar	10598	294.0	5	3345	30.8	8
Cerro Gordo	10602	301.9	0	3536	33.4	5
Cherokee	9456	263.1	5	2225	20.6	8
Chickasaw	10463	340.6	4	4282	46.3	8
Clarke	9724	308.4	1	3380	35.6	5
Clay	10193	283.5	3	2960	27.3	6
Clayton	9052	302.1	6	3024	33.5	7
Clinton	9363	246.4	2	1717	15.0	8
Crawford	9078	277.2	6	2489	25.2	8
Dallas	10549	267.0	0	2599	21.8	7
Davis	8340	267.9	2	2076	22.1	5
Decatur	7556	281.9	2	2164	26.8	6
Delaware	9860	347.7	4	4154	48.6	7
Des Moines	10014	240.3	1	1630	13.0	6
Dickinson	11154	314.1	1	4009	37.5	8
Dubuque	9668	293.1	1	3032	30.5	6
Emmet	10041	285.4	2	2963	28.0	8
Fayette	9506	320.8	3	3544	39.7	6
Floyd	9691	286.9	2	2894	28.4	9
Franklin	9911	277.1	4	2714	25.2	9
Fremont	10739	257.0	5	2331	18.5	9
Greene	11493	279.3	6	3213	25.9	9
Grundy	12127	324.8	2	4614	41.0	9
Guthrie	10393	322.9	4	3916	40.4	8
Hamilton	12362	329.7	3	4817	42.6	7
Hancock	10350	297.9	3	3360	32.1	9
Hardin	11096	290.9	3	3422	29.8	10
Harrison	8813	250.7	6	1741	16.4	7
Henry	10686	309.8	0	3746	36.1	6
Howard	10820	401.5	4	5398	66.5	6
Humboldt	10446	302.3	4	3492	33.5	7
Ida	10205	252.0	6	2056	16.9	9
Iowa	10885	295.1	5	3463	31.2	7
Jackson	8999	281.0	3	2556	26.5	7
Jasper	11435	305.3	1	3900	34.6	6

Table 3. Change in Per Capita Income and Adjusted Per Capita Income for Iowa Counties, 1969-1987 (continued).

County	Change in Per Capita Income, 1969-1987			Change in Adjusted Per Capita Income, 1969-1987		
	Dollars	Percent	Years	Dollars	Percent	Years
			Decreased			Decreased
Jefferson	9499	278.6	2	2640	25.7	7
Johnson	12516	387.4	0	6015	61.8	3
Jones	9017	273.4	3	2381	24.0	7
Keokuk	11283	326.7	3	4333	41.6	7
Kossuth	10285	307.5	4	3555	35.3	9
Lee	9531	274.1	0	2535	24.2	7
Linn	11440	286.8	0	3414	28.4	5
Louisa	10366	299.2	4	3396	32.5	6
Lucas	10103	315.7	3	3664	38.0	6
Lyon	9552	276.1	5	2592	24.9	9
Madison	10074	282.3	2	2895	26.9	6
Mahaska	10056	312.6	2	3583	37.0	5
Marion	11414	315.7	0	4138	38.0	6
Marshall	10503	252.3	0	2127	17.0	6
Mills	9562	222.3	2	906	7.0	9
Mitchell	10787	336.4	6	4334	44.9	7
Monona	10465	288.7	6	3171	29.0	8
Monroe	9754	333.8	1	3875	44.0	6
Montgomery	10947	294.0	3	3456	30.8	7
Muscatine	11123	292.6	0	3475	30.4	6
O'Brien	11200	323.7	5	4238	40.7	7
Osceola	9112	254.4	4	1905	17.7	7
Page	9389	260.4	2	2136	19.7	8
Palo Alto	11007	320.6	4	4100	39.7	7
Plymouth	10266	310.2	5	3606	36.2	7
Pocahontas	10659	299.5	5	3498	32.6	10
Polk	12553	306.8	0	4322	35.1	3
Pottawattamie	9586	270.6	0	2457	23.0	9
Poweshiek	11480	319.2	1	4243	39.2	8
Ringgold	10252	327.9	4	3960	42.0	7
Sac	10486	276.7	6	2862	25.1	10
Scott	11448	287.9	0	3448	28.8	6
Shelby	10061	300.0	5	3313	32.8	8
Sioux	8428	248.2	5	1597	15.6	8
Story	10354	330.6	0	4052	43.0	3
Tama	10227	294.0	3	3227	30.8	6
Taylor	9757	336.1	4	3916	44.8	7
Union	10054	323.8	1	3807	40.7	5
Van Buren	8785	312.2	2	3123	36.8	6
Wapello	8652	249.6	0	1676	16.0	9
Warren	9903	285.1	0	2915	27.9	8
Washington	10927	298.6	4	3565	32.3	7
Wayne	10321	373.9	3	4768	57.4	6
Webster	9970	273.2	2	2626	23.9	7
Winnebago	11835	339.7	2	4825	46.0	7
Winneshiek	9028	325.7	2	3451	41.3	7
Woodbury	10615	288.2	0	3205	28.9	6
Worth	10577	322.2	5	3971	40.2	9
Wright	12035	327.2	2	4635	41.8	7
State of Iowa	10635	295.8	0	3402	31.4	5

Per capita income adjusted for inflation was higher in 1987 than it was in 1969 for Iowa, but it did not increase each year as was the case before adjustment (Table 2). Instead, there were five times (1973 to 1974, 1978 to 1979, 1979 to 1980, 1981 to 1982, 1982 to 1983) when it declined. Except for 1986 and 1987, the purchasing power of Iowa's residents was greater in 1978 than it was during the 1980s. In addition, it was lower in 1983 than any year since 1974.

County trends for adjusted per capita income show more variation than with the unadjusted figures. The highest county figure was \$17,681 for Greene in 1973 while the lowest was Decatur with \$8,072 in 1969. The differences between the highest and lowest counties were greater than with the unadjusted figures, being \$6,000-\$7,000 for 11 years and more than \$7,000 in 1973. Adjusted per capita income increased in all Iowa counties from 1971 to 1972 and from 1985 to 1986. These were the only two time periods when that happened. More than 90 counties had decreases from 1973 to 1974, 1978 to 1979, 1979 to 1980, and 1981 to 1982 when per capita income was adjusted for inflation. More counties experienced declines with the adjusted than the unadjusted figures, indicating that some did not always keep up with inflation even though income rose.

For the entire period between 1969 and 1987, Iowa's adjusted per capita income increased by \$3,402 and all of the counties experienced gains (Table 3). Johnson increased the most (+\$6,015); Howard was the only other one to gain more than \$5,000. Mills had the smallest gain (+\$906); six others increased less than \$2,000. None of the counties had increases in adjusted per capita income in all 18 year-to-year comparisons. Three counties (Johnson, Polk, Story) declined only three times. The remaining counties had losses at least five times; 16 counties declined in nine instances when adjacent years were compared, and three (Hardin, Pocahontas, Sac) had losses in 10 of the 18 comparisons.

The state's percentage increase in adjusted per capita income from 1969 to 1987 was 31%. The counties ranged from a gain of 7% in Mills to a jump of nearly 67% in Howard. These percentage increases for adjusted per capita income were much less dramatic than those for the unadjusted figures. The adjusted numbers, however, represent real gains in buying power after the effect of inflation was removed.

Households in Iowa's Counties:

1980-1985

Willis Goudy, Iowa State University

Estimates of the number of households in Iowa's counties as of 1985 were the first indication of change in households at the county level since the 1980 census. These estimates were released by the U.S. Bureau of the Census.

For the state, households increased by nearly 23,000, or 2.2%, from 1980 to 1985 (Table 1). The census bureau defines a household as all persons who occupy a housing unit. A housing unit is a house, an apartment, a group of rooms, or a single room occupied as a separate living quarters. Thus, a household may be a single family, one person living alone, two or more families living together, or any other group of related or unrelated persons who share living arrangements.

A total of 53 counties had increases in the number of households from 1980 to 1985. The greatest numerical increase occurred in Polk, which gained about 9,780 households. Linn (+2,630), Johnson (+2,580), Scott (+2,120), and Pottawattamie (+1,700) were the only other counties with increases of 1,000 or more, although the growth in Warren (+990) was just under that threshold. Increases of less than 100 occurred in 18 counties.

Percentage growth equal to or greater than that of the state as a whole occurred in 25 counties. Allamakee, Delaware, Johnson, Muscatine, Polk, Pottawattamie, and Warren were up by at least 5%, with Warren (+8.6%), Johnson (+8.5%), and Polk (+8.5%) showing growth of at least 8%. The other 28 that increased did so at rates below the 2.2% for the state, with 11 gaining by less than 1%.

Of the 46 counties that had decreases in the number of households, 18 declined by less than 100. The greatest numerical decline occurred in Black Hawk, which was estimated to have dropped by more than 900 households from 1980 to 1985. No other county decreased by as many as 300 households.

Percentage declines ranged from less than 1% in nine counties to 5% or more in five others. Two counties (Wayne, -6.5%; Monroe, -6.0%) had decreases of at least 6%.

Table 1. Households in Iowa Counties, 1980 and 1985.

County	1985	1980	Estimated Change, 1980 to 1985	
	Estimated Households		Households	Number
Adair	3500	3615	-115	-3.2
Adams	2100	2216	-116	-5.2
Allamakee	5500	5215	285	5.5
Appanoose	5800	6011	-211	-3.5
Audubon	3100	3192	-92	-2.9
Benton	8400	8561	-161	-1.9
Black Hawk	47300	48205	-905	-1.9
Boone	9800	9731	69	0.7
Bremer	8500	8454	46	0.5
Buchanan	7600	7672	-72	-0.9
Buena Vista	7700	7673	27	0.4
Butler	6300	6356	-56	-0.9
Calhoun	4900	5113	-213	-4.2
Carroll	8000	7869	131	1.7
Cass	6400	6524	-124	-1.9
Cedar	7000	6771	229	3.4
Cerro Gordo	19400	18694	706	3.8
Cherokee	6000	5999	1	0.0
Chickasaw	5600	5359	241	4.5
Clarke	3400	3356	44	1.3
Clay	7300	7377	-77	-1.0
Clayton	7600	7487	113	1.5
Clinton	20200	20345	-145	-0.7
Crawford	6800	6661	139	2.1
Dallas	11100	10688	412	3.9
Davis	3400	3278	122	3.7
Decatur	3300	3458	-158	-4.6
Delaware	6600	6219	381	6.1
Des Moines	17400	17350	50	0.3
Dickinson	6100	6033	67	1.1
Dubuque	30800	30021	779	2.6
Emmet	4600	4844	-244	-5.0
Fayette	8800	9093	-293	-3.2
Floyd	7200	7084	116	1.6
Franklin	4800	5010	-210	-4.2
Fremont	3500	3588	-88	-2.5
Greene	4600	4682	-82	-1.8
Grundy	5000	5228	-228	-4.4
Guthrie	4400	4572	-172	-3.8
Hamilton	6600	6623	-23	-0.3
Hancock	5100	5002	98	2.0
Hardin	8200	8161	39	0.5
Harrison	5900	5957	-57	-1.0
Henry	6800	6707	93	1.4
Howard	4100	4012	88	2.2
Humboldt	4600	4620	-20	-0.4
Ida	3400	3369	31	0.9
Iowa	5700	5598	102	1.8
Jackson	7800	7632	168	2.2
Jasper	13700	13564	136	1.0

Table 1. Households in Iowa Counties, 1980 and 1985 (continued).

County	1985	1980	Estimated Change, 1980 to 1985	
	Estimated Households		Households	Number
Jefferson	6000	5716	284	5.0
Johnson	32800	30220	2580	8.5
Jones	6900	6931	-31	-0.4
Keokuk	4800	4884	-84	-1.7
Kossuth	7600	7806	-206	-2.6
Lee	15400	15618	-218	-1.4
Linn	64400	61770	2630	4.3
Louisa	4400	4218	182	4.3
Lucas	4000	4045	-45	-1.1
Lyon	4300	4488	-188	-4.2
Madison	4600	4575	25	0.5
Mahaska	8700	8611	89	1.0
Marion	10600	10322	278	2.7
Marshall	16000	15410	590	3.8
Mills	4700	4537	163	3.6
Mitchell	4300	4432	-132	-3.0
Monona	4300	4468	-168	-3.8
Monroe	3300	3510	-210	-6.0
Montgomery	5300	5270	30	0.6
Muscatine	15000	14214	786	5.5
O'Brien	6200	6254	-54	-0.9
Osceola	3000	3050	-50	-1.6
Page	7200	7317	-117	-1.6
Palo Alto	4500	4624	-124	-2.7
Plymouth	8400	8425	-25	-0.3
Pocahontas	4300	4270	30	0.7
Polk	124600	114817	9783	8.5
Pottawattamie	32500	30803	1697	5.5
Poweshiek	7000	6865	135	2.0
Ringgold	2300	2409	-109	-4.5
Sac	5100	5353	-253	-4.7
Scott	58800	56677	2123	3.7
Shelby	5300	5218	82	1.6
Sioux	10100	9915	185	1.9
Story	24400	23665	735	3.1
Tama	7100	7086	14	0.2
Taylor	3100	3284	-184	-5.6
Union	5200	5314	-114	-2.1
Van Buren	3100	3195	-95	-3.0
Wapello	15600	15436	164	1.1
Warren	12500	11513	987	8.6
Washington	7400	7213	187	2.6
Wayne	3100	3315	-215	-6.5
Webster	16700	16886	-186	-1.1
Winnebago	5000	4845	155	3.2
Winneshiek	7200	7063	137	1.9
Woodbury	37300	36632	668	1.8
Worth	3400	3452	-52	-1.5
Wright	6200	6243	-43	-0.7
State	1076000	1053033	22967	2.2

Lottery Sales in Iowa's Counties:

1988

Willis Goudy, Iowa State University
Sandra Charvat Burke, Iowa State University

Lottery sales in 1988 ranged from less than \$200,000 in six counties (Adams, Davis, Decatur, Ringgold, Taylor, Van Buren), all of which were in southern Iowa, to more than \$16 million in Polk (Table 1). Twenty-eight other counties had sales of at least \$1 million, with four (Black Hawk, Linn, Pottawattamie, Woodbury) topping \$5 million. We depended on these data from the Des Moines Register (18 June 1989), which cited the "Iowa lottery" as its source.

Although the total sales may be of interest, it is the sales per person across counties that proves that statistics can be fun. We took the sales figures and divided them by the county population for 1988. For those who have read many of the reports in this volume, a headline that "Lyon Leads Counties in Per Capita Lottery Sales" may be shocking. That doesn't seem to fit with the other data that we've presented on that county. But the headline would be correct; per capita lottery sales in Lyon were \$93 in 1988. Allamakee (\$87), Clayton (\$71), Mitchell (\$77), and Pottawattamie (\$90) counties were the only others with per capita sales that were \$25 or more above the state figure (\$46). The key to what's going on is evident when a map is examined. These five counties, of course, are on Iowa's borders with Nebraska, South Dakota, Minnesota, or Wisconsin. It's most likely that these counties attract people from neighboring states. The residents of these counties probably don't play the lottery any more than other Iowans. But being a border county doesn't always lead to additional sales. Those counties on the boundaries with Illinois, Missouri, and much of Nebraska, for example, tend to have lower sales per person than the remainder of Iowa.

Per capita sales varied greatly among Iowa's counties that were designated as parts of metropolitan statistical areas for the 1980 census. Of these nine counties, four (Black Hawk, \$53; Polk, \$50; Pottawattamie, \$90; Woodbury, \$54) had sales above the state average and three were below (Johnson, \$31; Scott, \$32; Warren, \$33). Dubuque and Linn were equal to the state figure of \$46.

Other than two border counties (Clayton, \$71; Worth, \$70), the most rural counties in Iowa generally had per capita sales below the state average. Among counties with no incorporated place of 2,500 or more residents in 1980, only Adair (\$49), Fremont (\$47), and Iowa (\$51) were above the state average. The 12 others (Adams, \$25; Butler, \$38; Calhoun, \$35; Guthrie, \$40; Ida, \$33; Keokuk, \$32; Louisa, \$37; Pocahontas, \$45; Ringgold, \$26; Taylor, \$19; Van Buren, \$13; Wayne, \$35) ranged from \$1 to \$33 below the state per capita sales figure. Indeed, a pocket of counties in southeastern Iowa (Davis, \$16; Jefferson, \$18; Van Buren, \$13) had particularly low per capita sales. Sioux (\$16) and Taylor (\$19) were the only other counties with sales per person that were less than \$20 in 1988.

Thus, a second headline could be that "Sioux Trails Most Counties in Per Capita Lottery Sales." Yet, Sioux and Lyon, the county noted in the first headline, share a common boundary in northwest Iowa. Clearly, numbers alone are not sufficient to determine why these two counties differ to such a great extent. We use this example to urge readers to always place the numbers in this volume within a larger context. The figures need to be balanced with knowledge of other events occurring in each of Iowa's counties as well as the state as a whole.

Table 1. Lottery Sales in Iowa Counties, 1988.

County	Lottery Sales (\$)	Per Capita Lottery Sales (\$)	County	Lottery Sales (\$)	Per Capita Lottery Sales (\$)
Adair	416,000	49	Jefferson	299,000	18
Adams	130,000	25	Johnson	2,730,000	31
Allamakee	1,300,000	87	Jones	702,000	35
Appanoose	637,000	45	Keokuk	390,000	32
Audubon	234,000	31	Kossuth	767,000	39
Benton	819,000	36	Lee	1,144,000	28
Black Hawk	6,630,000	53	Linn	7,930,000	46
Boone	1,157,000	46	Louisa	442,000	37
Bremer	1,118,000	48	Lucas	325,000	34
Buchanan	962,000	44	Lyon	1,131,000	93
Buena Vista	884,000	44	Madison	416,000	33
Butler	624,000	38	Mahaska	819,000	37
Calhoun	429,000	35	Marion	923,000	31
Carroll	1,118,000	50	Marshall	2,080,000	53
Cass	858,000	55	Mills	611,000	46
Cedar	650,000	36	Mitchell	884,000	77
Cerro Gordo	3,380,000	70	Monona	390,000	38
Cherokee	637,000	43	Monroe	364,000	43
Chickasaw	871,000	61	Montgomery	351,000	29
Clarke	299,000	34	Muscatine	1,690,000	41
Clay	910,000	52	O'Brien	559,000	36
Clayton	1,430,000	71	Osceola	312,000	41
Clinton	1,690,000	32	Page	455,000	27
Crawford	858,000	47	Palo Alto	455,000	41
Dallas	1,430,000	47	Plymouth	962,000	40
Davis	143,000	16	Pocahontas	468,000	45
Decatur	195,000	23	Polk	16,120,000	50
Delaware	624,000	34	Pottawattamie	7,930,000	90
Des Moines	1,430,000	32	Poweshiek	1,066,000	56
Dickinson	910,000	59	Ringgold	143,000	26
Dubuque	4,160,000	46	Sac	520,000	41
Emmet	585,000	50	Scott	4,940,000	32
Fayette	1,053,000	47	Shelby	377,000	27
Floyd	962,000	53	Sioux	481,000	16
Franklin	468,000	40	Story	2,470,000	34
Fremont	416,000	47	Tama	819,000	45
Greene	546,000	51	Taylor	143,000	19
Grundy	520,000	41	Union	715,000	55
Guthrie	442,000	40	Van Buren	104,000	13
Hamilton	975,000	58	Wapello	2,080,000	57
Hancock	520,000	39	Warren	1,209,000	33
Hardin	858,000	43	Washington	715,000	36
Harrison	676,000	43	Wayne	247,000	35
Henry	533,000	28	Webster	2,080,000	50
Howard	611,000	58	Winnebago	845,000	68
Humboldt	650,000	58	Winneshiek	1,170,000	53
Ida	286,000	33	Woodbury	5,330,000	54
Iowa	754,000	51	Worth	598,000	70
Jackson	910,000	42	Wright	780,000	53
Jasper	1,430,000	40			
			State of Iowa	130,000,000	46

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